Curiosity's Mars Hand Lens Imager (MAHLI) Mars Science Laboratory (MSL) Principal Investigator's Notebook: Sols 3290–3423

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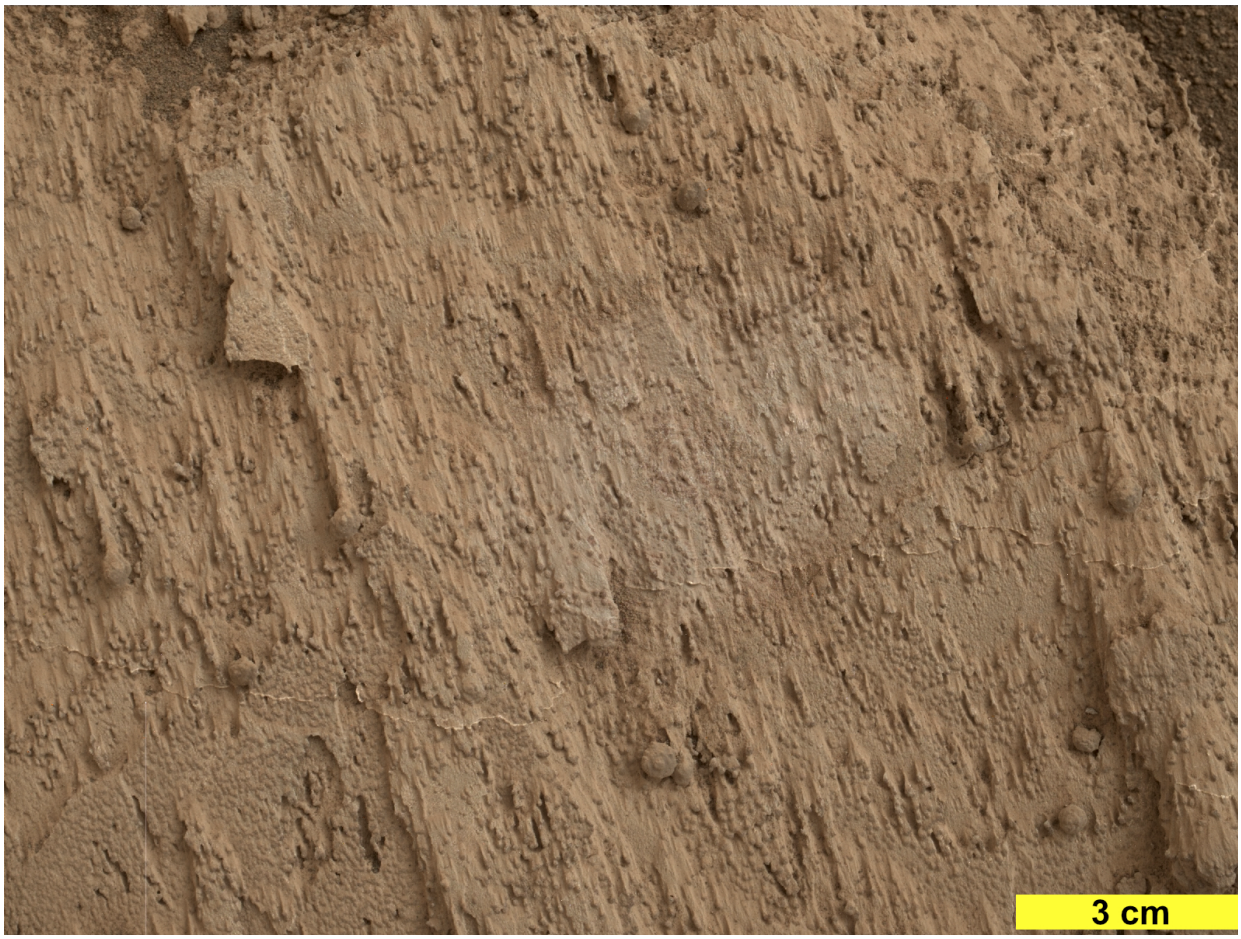

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Mars Science Laboratory (MSL) Mars Hand Lens Imager (MAHLI) Technical Report 0031

Cover photo

MAHLI view of a brushed target called Cladh Hallan, located at the entrance of the Maria Gordon Notch in lower Aeolis Mons, acquired on Sol 3321. Illuminated by sunlight from the upper right, this is MAHLI image 3321MH0007060021104408C00.

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Contents

Note that pages are not numbered in this document because all of the *Range and Scale Information Sheets*, *Focus Merge Product Information Sheets*, and *MAHLI Image Comment Sheets* were inserted separately after creation using a word processing tool that differs from the one used for the text.

Abstract

Covering the time between Curiosity's 3290th and 3423rd Martian days (sols) of operations in northern Gale crater, Mars, this document is a compilation of the Mars Science Laboratory (MSL) Mars Hand Lens Imager (MAHLI) Team's notes and information about MAHLI images and activities conducted during that period. The report includes brief sol-by-sol notes—written as the mission unfolded—regarding how the MAHLI instrument was used and significant events that occurred which impacted the MAHLI instrument or investigation. The document, further, contains information regarding range and scale (camera working distance and scale of in-focus elements of an image); the parent images, range, and scale information associated with each MAHLI focus merge product created onboard the instrument; and a description of the purpose and intent behind acquisition of each MAHLI image and creation of each onboard focus merge product. The MSL science team and rover engineers routinely used the information contained in this report during the course of the mission for tactical planning, strategic planning, and scientific analysis.

1 Introduction

1.1 Introduction and purpose

This document is a compilation of the Mars Hand Lens Imager (MAHLI) Team's notes and information about MAHLI images and activities that occurred during the Mars Science Laboratory (MSL) mission between Sols 3290 and 3423.

MAHLI is a 2-megapixel color camera with a focusable macro lens mounted on the turret at the end of a robotic arm aboard NASA's MSL rover, Curiosity (Edgett *et al.* 2012). The rover landed and began operation in northern Gale crater, Mars, on 6 August 2012 (Vasavada *et al.* 2014).

Each *Curiosity's Mars Hand Lens Imager (MAHLI) Mars Science Laboratory (MSL) Principal Investigator's Notebook* covers a specific period corresponding to a release of MAHLI data to the NASA Planetary Data System (PDS) Imaging Node (**http://pds-imaging.jpl.nasa.gov/**). As some MAHLI data can arrive from Mars months or years after a given release period, the publication of these reports typically lags behind the PDS release schedule by a period that varies from one occasion to the next, depending largely on when data acquired during that period arrive on Earth and when we have time to complete the *Principal Investigator's Notebook* report.

This report, *Curiosity's Mars Hand Lens Imager (MAHLI) Mars Science Laboratory (MSL) Principal Investigator's Notebook: Sols 3290–3423*, corresponds to MAHLI data Release 30 in the NASA PDS archives. These are data acquired 07 November 2021 through 24 March 2022.

1.2 Versions and change log

The enclosed materials were compiled as the MSL mission unfolded. That being the case, we might sometimes have made errors. The reader should be aware that this report might be corrected via release of a new version in the future.

A new version would also be created if new data from this report's period (Martian sols) are received from the instrument after an earlier version has been made available. This can occur because MAHLI can store data onboard the instrument for weeks, months, and even years after acquisition. As a result, images are archived with the NASA PDS on the basis of when they are received on Earth, not when they are acquired on Mars.

Covering the Sol 3290 through 3423 period, this document is Version 1.

If this were a later version, this section would document the changes made relative to the previous.

2 Instrument activities for this period

This section captures day-by-day or sol-by-sol notes written by the MAHLI Team, as the mission unfolded, regarding how the MAHLI instrument was used or significant events that occurred which impacted the MAHLI instrument or investigation.

MAHLI Activities During Sols 3290 – 3423

milestone or field site	date (UTC)	Sol	camera positions	Parent images	Onboard focus merges	Notes
Zechstein drill site	The **Zechstein** sample was extracted using Curiosity's drill on **Sol 3289**. The MAHLI was not operated during the period that the drill bit assembly held the sample until sample analyses were complete. The sample held by the drill bit assembly was discarded on **Sol 3301**.					
	19 Nov 21	**3301**	6	13	0	MAHLI imaged the Zechstein sample discard pile, the surfaces surrounding SAM inlet #2, with the inlet cover open (a follow-up to Zechstein sample drop-offs), and the Zechstein drill hole.
	20 Nov 21	**3303**	83	85	0	MAHLI imaged the Zechstein Sample Discard Pile and a rover self-portrait was acquired to document the Zechstein drill site.
	30 Nov 21	**3312**	1	2	0	MAHLI imaged the Zechstein Drill Cuttings.
Enroute to boulders below escarpment on souteast side of Greenheugh pediment	01 Dec 21	**3313**	4	32	3	MAHLI imaged the target Camusnagaul and the focus stack images were merged.
Boulders below escarpment on southeast side of Greenheugh pediment	03 Dec 21	**3315**	10	62	3	MAHLI imaged the targets Arainn, Whaligoe_Steps and Yarrow_Stone. MAHLI also imaged the sky, with the dust cover open and closed for flat fielding. The focus stack images were also merged.
	04 Dec 21	**3316**	17	171	0	MAHLI imaged the target Whaligoe_Steps, which includes a 9x1 mosaic, and the target Laurentia.
	06 Dec 21	**3318**	0	0	15	Focus stack images from Sol 3316 were merged.
Drive toward and through **Maria Gordon notch**	07 Dec 21	**3319**	4	32	3	MAHLI imaged the target Duirinish and the focus stack images were merged.
	08 Dec 21	**3320**	4	4	0	MAHLI acquired wheel inspection images of the 6 rover wheels.
	09 Dec 21	**3321**	4	36	0	MAHLI imaged the DRT brushed target Cladh_Hallan.
	10 Dec 21	**3322**	0	0	3	Focus stack images from Sol 3321 were merged.
	11 Dec 21	**3323**	7	54	0	MAHLI imaged the targets Helens_Bay and Lakehead.
	12 Dec 21	**3324**	0	0	5	Focus stack images from Sol 3323 were merged.
	14 Dec 21	**3326**	3	22	2	MAHLI imaged the target Portgower and the focus stack images were merged.
Drive toward **"mini walk-about" location** that included **"the Prow**	16 Dec 21	**3328**	4	32	0	MAHLI imaged the target Korskellie.
	17 Dec 21	**3329**	0	0	3	Focus stack images from Sol 3328 were merged.
	18 Dec 21	**3330**	4	8	0	MAHLI imaged the targets Aros_Park and Clochoderick with the dust cover closed.

MAHLI Activities During Sols 3290 – 3423						
milestone or field site	**date (UTC)**	**Sol**	**camera positions**	**Parent images**	**Onboard focus merges**	**Notes**
Drive toward **"mini walk-about" location** that included **"the Prow"**	02 Jan 22	**3344**	5	42	0	MAHLI imaged the DRT-brushed target Maes_Howe.
	03 Jan 22	**3345**	0	0	4	Focus stack images from Sol 3344 were merged.
"Mini walk-about" that included **"the Prow"**	05 Jan 22	**3347**	3	22	2	MAHLI imaged the target Verde and the focus stack images were merged.
	07 Jan 22	**3349**	3	22	2	MAHLI imaged the target El_Fosso and the focus stack images were merged.
	Investigation of the sol 3353 anomaly showed that knowledge of the contents of the MAHLI DEA nonvolatile memory (NVM, a.k.a. flash) had become unknown, likely the result of a single event upset (e.g., cosmic ray hit). It was determined that the solution would be to, essentially, re-set the DEA flash and clear its contents. In doing so, some low priority (downlink bin 99) data from Sols 3347 and 3349, plus the full-frame rover wheel images obtained on Sol 3353, were deleted rather than downlinked to Earth, but, otherwise, the impact was negligible.					
	19 Jan 22	**3361**	0	0	0	All data stored in the MAHLI DEA flash (CDPIDs 1-4693 from Sols 2993-3353) were erased from the MAHLI DEA as part of the recovery from the Sol 3353 DEA flash issue. The recovery was successful.
	20 Jan 22	**3362**	9	86	0	MAHLI imaged the targets Coati and Morok and acquired a 5x1 mosaic of the target Caroni.
	21 Jan 22	**3363**	0	0	8	The focus merges from Sol 3362 were merged.
	22 Jan 22	**3364**	6	44	0	MAHLI imaged the targets Mazaruni and Formoso.
	23 Jan 22	**3365**	0	0	4	Focus stack images from Sol 3364 were merged.
	27 Jan 22	**3369**	20	20	0	MAHLI imaged ≥ 360° of the 3 left rover wheels and right front rover wheel.
	29 Jan 22	**3371**	13	104	0	MAHLI acquired a 6x1 mosaic on the target The_Test and imaged the DRT-brushed target Suapi.
	30 Jan 22	**3372**	0	0	9	Focus stack images from Sol 3371 were merged.
"Mini walk-about" area, including **"the Prow"**	02 Feb 22	**3374**	16	152	0	MAHLI acquired an 11 frame "T-shaped" mosaic of the Toron block and imaged the target Surumu which is on the Toron block.
	02 Feb 22	**3375**	0	0	15	Focus stack images from Sol 3374 were merged.
	03 Feb 22	**3376**	4	32	3	MAHLI imaged the target Kokadai and the focus stack images were merged.
	06 Feb 22	**3378**	7	46	4	MAHLI imaged the REMS UV Sensor and the targets Erico and Aji. The focus stack images were also merged.
Drive toward southeast end of Greenheugh pediment	09 Feb 22	**3381**	4	32	3	MAHLI imaged the target El_Dorado and the focus stack images were merged.
	11 Feb 22	**3383**	3	22	2	MAHLI imaged the target Tantallon_Castle and the focus stack images were merged.
	13 Feb 22	**3385**	5	47	0	MAHLI imaged the DRT-brushed target Kintradwell.
	14 Feb 22	**3386**	0	0	4	Focus stack images from Sol 3385 were merged.
	15 Feb 22	**3387**	6	40	3	MAHLI imaged the DRT-brushed target Loch_Garten and the focus stack images were merged.
	16 Feb 22	**3388**	12	78	6	MAHLI imaged the MAHLI and APXS calibration targets as well as the target Tappington and the DRT-brushed target Loch_Coruisk. The focus stack images were also merged.
	17 Feb 22	**3389**	4	5	0	At night, MAHLI imaged inside the CheMin inlet for cleanliness.
Climbing on to the Greenheugh pediment	20 Feb 22	**3392**	10	60	0	MAHLI imaged the targets Nithsdale and Foss_Mine.
	21 Feb 22	**3393**	0	0	5	Focus stack images from Sol 3392 were merged.

MAHLI Activities During Sols 3290 – 3423						
milestone or field site	**date (UTC)**	**Sol**	**camera positions**	**Parent images**	**Onboard focus merges**	**Notes**
Climbing on to the Greenheugh pediment	23 Feb 22	**3395**	5	47	4	MAHLI imaged the DRT-brushed target Galdenoch and the focus stack images were merged.
	24 Feb 22	**3396**	10	72	0	MAHLI imaged the DRT-brushed target Scousburgh and the target Blackthorn_Salt.
	25 Feb 22	**3397**	0	0	6	Focus stack images from Sol 3396 were merged.
	26 Feb 22	**3398**	7	58	0	MAHLI imaged the targets Exnaboe and Stinchar_Valley.
	27 Feb 22	**3399**	0	0	5	Focus stack images from Sol 3398 were merged.
Traversing West on the Greenheugh pediment	10 Mar 22	**3409**	4	32	0	MAHLI imaged the DRT-brushed target Skaw_Granite.
	10 Mar 22	**3410**	0	0	3	Focus stack images from Sol 3409 were merged.
	13 Mar 22	**3413**	8	55	5	MAHLI imaged the targets Appleby and Achvarasdal as well as the wheel-surface interface of the rover left front wheel. The focus stack images were also merged.
	15 Mar 22 /16 Mar 22	**3415**	4	32	3	MAHLI imaged the target Oosta and the focus stack images were merged.
	18 Mar 22	**3417**	4	32	3	MAHLI imaged the target Knott and the focus stack images were merged.
	20 Mar 22	**3419**	12	112	0	MAHLI imaged the target Blackadder, which includes a 9x1 mosaic from approximately 5 cm standoff.
	21 Mar 22	**3420**	0	0	11	Focus stack images from Sol 3419 were merged.
	22 Mar 22	**3421**	5	42	4	MAHLI imaged the target Calder and the focus stack images were merged.
	23 Mar 22	**3422**	12	81	7	MAHLI imaged the DRT-brushed target Calder and the targets Scandal_Beck, Ashkirk and Breakyneck. The focus stack images were also merged.
	24 Mar 22	**3423**	6	52	0	MAHLI imaged the targets Redscarhead and Breakyneck.
	23 Mar 22	**3422**	12	81	7	MAHLI imaged the DRT-brushed target Calder and the targets Scandal_Beck, Ashkirk and Breakyneck. The focus stack images were also merged.
	24 Mar 22	**3423**	6	52	0	MAHLI imaged the targets Redscarhead and Breakyneck.

3 Helpful tips

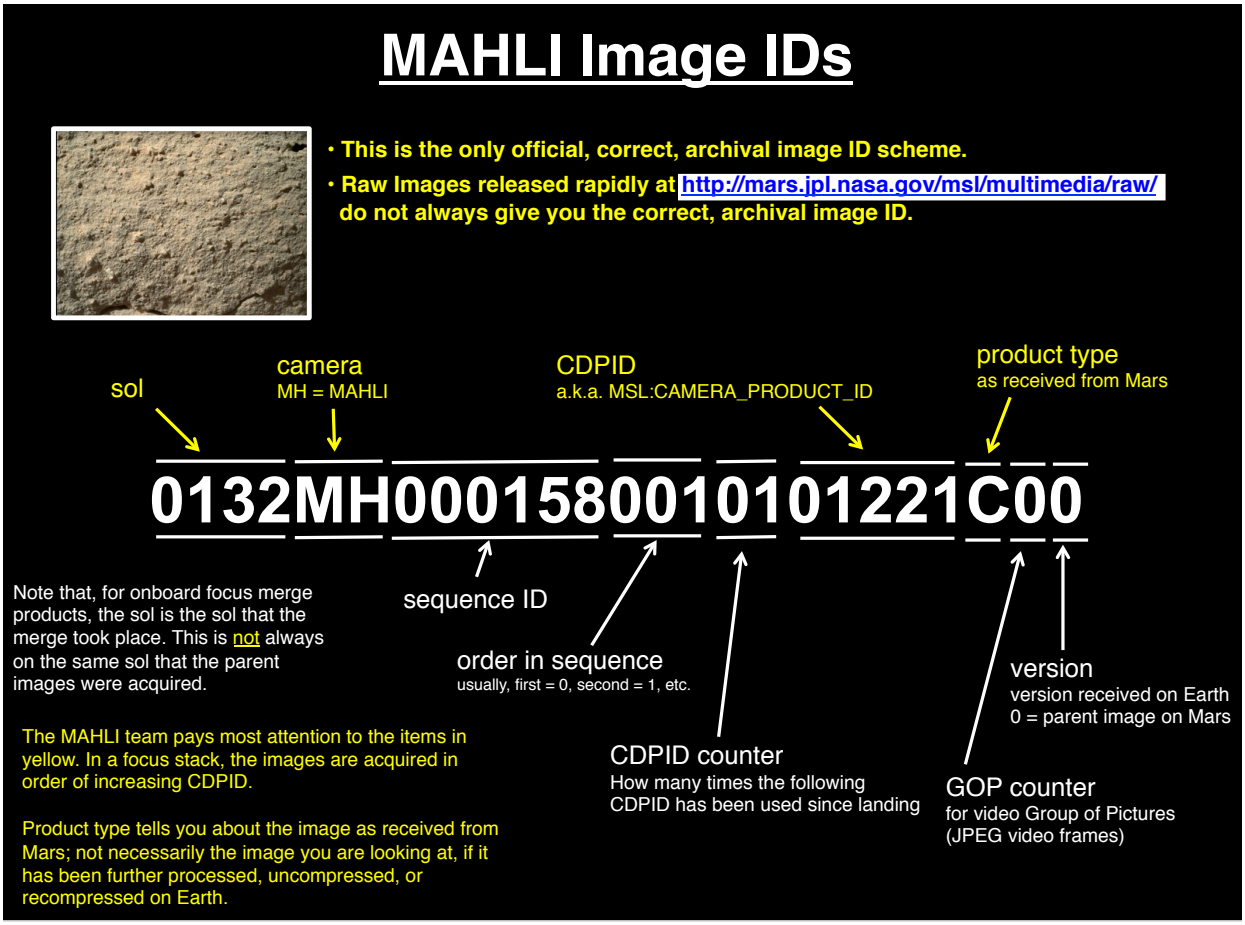
3.1 MAHLI instrument and investigation

Please refer to Edgett *et al.* (2012) for a description of the MAHLI instrument and investigation, Edgett *et al.* (2015) for information about the characterization and calibration of the instrument, and Yingst *et al.* (2016) for some of the lessons learned after ~1.5 Mars years of surface operations. Additional information on how the instrument and data have been used is in the paper by Minitti *et al.* (2013) and the extended abstract by Garvin *et al.* (2017).

3.2 MAHLI image IDs

MAHLI images and onboard focus merge products are identified by their image IDs. The following figure describes the information content of these IDs.

Note that raw images released within minutes of receipt on Earth to the public via the JPL-Caltech web site (**http://mars.jpl.nasa.gov/msl/multimedia/raw/**) do not necessarily have the correct, final, archival image IDs.



The NASA PDS archives include documentation that describes the MAHLI image ID and file naming scheme and the nature of the archived Experiment Data Record (EDR) and Reduced Data Record (RDR) products (Malin *et al*., 2013).

The EDR products, the raw data product, have the following file name scheme:

1 **[Image ID]_XXXX** – these are always 8-bit images except for the 16-bit products (type A) returned from MAHLI for calibration purposes.

The RDR products are of the following nature:

2 **[Image ID]_DRXX** – 16-bit depth (per band) relative radiometric calibrated color images,

3 **[Image ID]_DRLX** – 16-bit depth (per band) relative radiometric calibrated and geometric calibrated color images,

4 **[Image ID]_DRCX** – 8-bit relative radiometric calibrated images for which a color correction has been applied, and

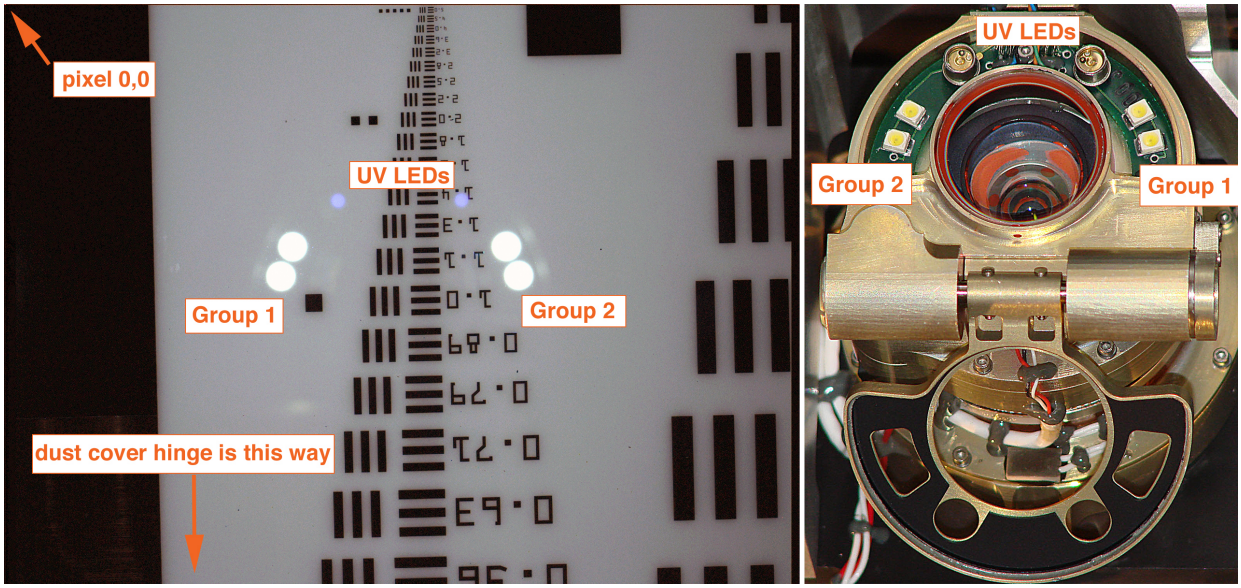
5 **[Image ID]_DRCL** – 8-bit relative radiometric and geometric calibrated images for which a color correction has been applied.

The following table describes the variety of image types (raw, lossless, JPEG, focus merge, thumbnail, *etc.*). Malin *et al.* (2013) described these in greater detail.

product type	product format
A	raster 16-bit image
B	raster 8-bit image
C	lossless compressed image
D	JPEG grayscale image
E	JPEG 4:2:2 color image
F	JPEG 4:4:4 color image
G	raster thumbnail of parent image
H	JPEG gray thumbnail of parent image
I	JPEG 4:4:4 thumbnail of parent image
J	raster 8-bit video frame
K	lossless compressed video frame
L	JPEG grayscale video frame
M	JPEG 4:2:2 color video frame
N	JPEG 4:4:4 color video frame
O	raster 8-bit thumbnail of video frame
P	JPEG gray thumbnail of video frame
Q	JPEG 4:4:4 thumbnail of video frame
R	focus merge best focus image product
S	focus merge range map product
T	focus merge best focus thumbnail
U	focus merge range map thumbnail
Types R and T are JPEG 4:4:4; S and U are JPEG grayscale products.	

3.3 MAHLI LED positions

The MAHLI camera head has two groups of two white light LEDS (Edgett *et al.* 2012), called Group 1 and Group 2. For reference, the figure below shows their location on the camera head and how these locations translate to positions relative to pixel 0,0 (column 0, row 0) on the MAHLI CCD. In addition, MAHLI has two 365 nm ultraviolet (UV) LEDs, also shown in the figure. Each group of two LEDs (Group 1, Group 2, and UV) can be operated together or independently with each of the other two groups. When the LEDs are used, which group was operated is reported in the RATIONALE_DESC description of the image intent and purpose (**Section 6**).



MAHLI image TVC_MH0809080020000032B00, left, shows the violet and white reflections of the UV and Group 1 and Group 2 white light LEDs, indicating their location in relation to the CCD's pixel at column 0, row 0. The photograph on the right shows the camera head with its dust cover open and LEDs labeled.

4 Camera range and scale information

4.1 Purpose and description

MAHLI *Range and Scale Information Sheets* (or "Distance and Scale Information Sheets") describe **(a)** the distance between the MAHLI camera and an imaged target, and **(b)** the scale of in-focus features in the image, based on knowledge of that distance. Usually, these are determined using the camera's stepper motor count focus position (Edgett *et al.* 2015).

These information sheets were created only for cases in which there was a need. Cases for which they are not usually created include those when the only MAHLI image(s) acquired on a given sol are **(a)** views of the landscape, focused at infinity; **(b)** intended to make a rover self-portrait mosaic; **(c)** sky flat field calibration data; or **(d)** routinely-acquired images of the rover wheels for inspection purposes.

For the Sol 3290–3423 period, *Range and Scale Information Sheets* were created for the following **Sols: 3301, 3303, 3312, 3313, 3315, 3316, 3319, 3320, 3321, 3323, 3326, 3328, 3330, 3344, 3347, 3349, 3353, 3362, 3364, 3369, 3371, 3374, 3376, 3378, 3381, 3383, 3385, 3387, 3388, 3389, 3392, 3395, 3396, 3398, 3409, 3413, 3415, 3417, 3419, 3421, 3422, 3423**.

The origin of the MAHLI *Range and Scale Information Sheets* was in the need for a rapid, tactical response from the MAHLI team to the Curiosity Rover Planners—the engineers tasked with operating the rover's mobility and robotic arm systems—for range-finding and image scale information derived from MAHLI's autofocus and focus merge capabilities. As described by Minitti *et al.* (2013), during the rover's first sample extraction campaign, conducted at the Rocknest eolian sand deposit in October–November 2012, the engineers elected to use MAHLI autofocus sub-frames to confirm their estimates of the range to the sand surface for subsequent scoop placement (Anderson *et al.* 2015). These *Range and Scale Information Sheets* were borne of that effort to provide the information almost as soon as the data arrived on Earth.

Presented in this section are the latest versions of the *Range and Scale Information Sheets*, for the above stated sols, as of the date of this *MAHLI Technical Report* publication. Most of these sheets were actively used during the MSL mission for tactical and strategic planning, as well as for the scientific analyses. Note that some of the sheets exhibit slightly different formatting from each other, as the formatting and content evolved over time.

The image IDs presented in these Information Sheets are the identifiers of the best, least-compressed version of the image received from Mars for a given camera position for the stated purpose (autofocus, imaging, range-finding, etc.). In cases for which only a thumbnail version of the image was received, the image ID is colored orange.

4.2 Formulae

4.2.1 Working distance

The working distance (d_w, in centimeters) presented in the *Range and Scale Information Sheets* was computed from the empirical relationship between working distance and motor count for the flight unit MAHLI when the dust cover is open (m_{open}) described by Edgett *et al.* (2015):

$$d_w = (a m_{open}^{-1} + b + c m_{open} + d m_{open}^2 + e m_{open}^3)^{-1}, \quad (1)$$

in which $a = 0.576786$, $b = -11.8479$, $c = 2.80153\times10^{-3}$, $d = -2.266488\times10^{-7}$, and $e = 6.26666\times10^{-12}$.

For the dust cover closed case (m_{closed}), Edgett *et al.* (2015) found that m_{closed} is related to m_{open} as follows:

$$m_{closed} = 17075 - m_{open}. \quad (2)$$

4.2.2 Standoff distance (RP distance; MAHLI toolframe +X distance)

The standoff distance (d_s, in centimeters) presented in the *Range and Scale Information Sheets* is 1.9 cm less than the MAHLI working distance (Edgett *et al.* 2015). Note that "standoff distance" is equivalent to "RP distance" and "MAHLI toolframe +X distance"; see **Section 7.1**). It is determined by subtracting 1.9 cm from the working distance (d_w) computed from motor count:

$$d_s = d_w - 1.9 \text{ cm} \quad (3)$$

4.2.3 Distance or range uncertainty estimate

Estimation approach applied to the Sol 0–945 *Range and Scale Information Sheets*

For the Sol 0–945 period (except Sol 687), the uncertainty in distance (whether expressed as d_w or d_s) was estimated using an early version of our team's understanding (Edgett *et al.* 2013) of the flight unit MAHLI depth of field (DOF; d_{old_DOF}, in centimeters) as a function of working distance (d_w).

The method for estimating the far range of the DOF, d_{old_far}, was:

$$d_{old\_far} = a d_w^5 - b d_w^4 + c d_w^3 + d d_w^2 + e d_w - f \quad (4)$$

in which $a = 2.067963396\times10^{-10}$, $b = 5.81503025785\times10^{-8}$, $c = 1.55563715379086\times10^{-5}$, $d = 1.78558768966003\times10^{-3}$, $e = 7.87243271888297\times10^{-3}$, and $f = 3.57047935299353\times10^{-2}$.

The method for estimating the near range of the DOF, d_{old_near}, was:

$$d_{old\_near} = -(a d_w^5 + b d_w^4 - c d_w^3 + d d_w^2 - e d_w + f) \quad (5)$$

in which $a = -9.6497783\times10^{-12}$, $b = 1.06050131902\times10^{-8}$, $c = 5.8615047292452\times10^{-6}$, $d = 2.42284468424977\times10^{-3}$, $e = 4.28714139095939\times10^{-3}$, and $f = 7.534391000189\times10^{-4}$.

The MAHLI *Range and Scale Information Sheets* added the absolute values of the near and far DOF, then divided by two, to provide an overall uncertainty, $\pm d_{old\_DOF}$, in centimeters:

$$\pm d_{old\_DOF} = ((-d_{old\_near}) + d_{old\_far})/2 \quad (6)$$

The $\pm d_{old\_DOF}$ estimate was sufficient for using MAHLI as a range finder for subsequent scoop placement during the Rocknest sample extraction campaign (Minitti *et al.* 2013; Anderson *et al.* 2015).

Improved estimation method, used for Sol 687 and after Sol 945 *Range and Scale Information Sheets*

Later analysis refined our DOF estimate (Edgett *et al.* 2015), but these results arrived too late to be incorporated into most of the Sol 0–945 *Range and Scale Information Sheets*. That said, for small working distances (*e.g.*, < 20 cm), the results are about the same. As a function of dust cover open focus motor count (m_{open}), the near (d_{near}) and far (d_{far}) depth of field can be expressed, in centimeters, as:

$$d_{near} \text{ or } d_{far} = (a m_{open}^{-1} + b + c m_{open} + d m_{open}^{2} + e m_{open}^{3})^{-1}, \quad (7)$$

in which, for d_{near}, a = 1.03565, b = –11.9083, c = 2.82403×10^{-3}, d = -2.29003×10^{-7}, and e = 6.34332×10^{-12}; and, for d_{far}, a = 1.03438, b = –11.4118, c = 2.69297×10^{-3}, d = -2.17752×10^{-7}, and e = 6.02494×10^{-12}.

4.2.4 Pixel scale

The estimated pixel scale (p, in µm per pixel) is based on working distance (d_w) and applies only to the in-focus portions of a given image. We estimate the scale from the working distance (d_w) as described by Edgett *et al.* (2012):

$$p = 6.9001 + 3.5201 d_w. \quad (8)$$

4.2.5 Pixel scale uncertainty estimate

No estimation applied to the Sol 0–998 range and scale information sheets

No estimate of pixel scale uncertainty was applied to the MAHLI *Range and Scale Information Sheets* until Sol 999.

Estimation approach

Pixel scale uncertainty (p_{far}, p_{near}, $\pm p_{uncertainty}$, in µm per pixel) can be estimated based on the depth of field (d_{far}, d_{near}, in centimeters; **Equation 7**) and pixel scale (p, in µm per pixel, **Equation 8**) as determined from working distance (d_w, in centimeters; **Equation 1**). The uncertainty applies only to the in-focus portions of a given image. The uncertainty can be estimated as follows (please round $\pm p_{uncertainty}$ to the nearest 0.1 µm per pixel):

$$p_{far} = (6.9001 + 3.5201(d_w + d_{far})) - p, \quad (9)$$

$$p_{near} = p - (6.9001 + 3.5201(d_w + d_{near})), \text{ and} \quad (10)$$

$$\pm p_{uncertainty} = (p_{far} + p_{near})/2. \quad (11)$$

4.2.6 Image dimensions estimate

The image dimension estimates described in the MAHLI *Range and Scale Information Sheets* are computed by multiplying the estimated pixel scale (p) by the number of horizontal (columns) and vertical (rows) covered by the image. This simplistic approach, of course, assumes that the target is a plane parallel to the CCD.

last update: 19_November_2021

Sol 3301 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
Zechstein sample discard pile													
mhli00197	context view	intended standoff - 25 cm											
	3301MH0001970011103958C00	3958	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00122	medium-resolution	intended standoff - 5 cm											
	APXS raster spot 1												
	3301MH0001220011103960C00	3960	14044	6.6	4.7	-0.2	0.1	30.0	0.5	1608	1198	4.8	3.6
mhli00122	medium-resolution	intended standoff - 5 cm											
	APXS raster spot 2												
	3301MH0001220011103962C00	3962	14053	6.5	4.6	-0.2	0.1	29.8	0.5	1608	1198	4.8	3.6
SAM sample inlet 2 - cover open - after sample drop-off - inspect surface surrounding inlet perimeter													
mhli00779	full-frame using manual focus	intended standoff - 20 cm											
	3301MH0007790011103963C00	3963	13080	23.1	21.2	-1.4	1.5	88.3	5.0	1608	1198	14.2	10.6
	full-frame based on 128 x 128 autofocus sub-frame (starting pixel 1008, 768)												
	3301MH0007790031103965C00	3965	13108	21.9	20.0	-1.2	1.3	83.9	4.5	1608	1198	13.5	10.0
Zechstein drill hole													
mhli00197	context view	intended standoff - 25 cm											
	3301MH0001970011103967C00	3967	13024	26.1	24.2	-1.7	1.9	98.8	6.4	1608	1198	15.9	11.8
mhli00774	intermediate-resolution view	intended standoff - 10 cm											
	3301MH0007740011103969C00	3969	13542	11.2	9.3	-0.4	0.4	46.5	1.3	1608	1198	7.5	5.6

last update: 22_November_2021

Sol 3303 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
Zechstein sample discard pile													
mhli00122	**medium-resolution**	intended standoff - 5 cm											
	APXS raster spot 2												
	3303MH0001220011103971C00	3971	13919	7.4	5.5	-0.2	0.2	33.0	0.6	1608	1198	5.3	4.0
mhli00122	**medium-resolution**	intended standoff - 5 cm											
	APXS raster spot 1												
	3303MH0001220011103973C00	3973	13922	7.4	5.5	-0.2	0.2	32.9	0.6	1608	1198	5.3	3.9
MAHLI rover self-portrait - manual focus - no range and scale information													

last update: 30_November_2021

Sol 3312 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
Zechstein drill hole cuttings													
mhli00122	**medium-resolution**	**intended standoff - 5 cm**											
	3312MH0001220011104056C00	4056	13929	7.3	5.4	-0.2	0.2	32.7	0.6	1608	1198	5.3	3.9

last update: 01_December_2021

Sol 3313 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Camusnagaul													
mhli00190	**context view**	intended standoff - 25 cm											
	3313MH0001900011104058C00	4058	13013	26.8	24.9	-1.8	2.0	101.1	6.8	1608	1198	16.3	12.1
mhli00224	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3313MH0002240011104060C00	4060	13944	7.2	5.3	-0.2	0.2	32.3	0.6	1608	1198	5.2	3.9
	corresponding focus merge products:	*best focus product:*		3313MH0001930001104093R00				*range map product:*	3313MH0001930001104094S00				
mhli00224	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3313MH0002240011104070C00	4070	13968	7.1	5.2	-0.2	0.2	31.7	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3313MH0001930001104091R00				*range map product:*	3313MH0001930001104092S00				
mhli00386	**high resolution view**	intended standoff - 1 cm											
	3313MH0003860011104080C00	4080	14888	3.3	1.4	-0.1	0.1	18.5	0.2	1608	1198	3.0	2.2
	corresponding focus merge products:	*best focus product:*		3313MH0001930001104089R00				*range map product:*	3313MH0001930001104090S00				

last update: 06_December_2021

Sol 3315 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Arainn													
mhli00197	context view	intended standoff - 25 cm											
	3315MH0001970011104096C00	4096	13024	26.1	24.2	-1.7	1.9	98.8	6.4	1608	1198	15.9	11.8
target named Whaligoe_Steps													
mhli00197	context view	intended standoff - 25 cm											
	3315MH0001970011104098C00	4098	13021	26.3	24.4	-1.7	2.0	99.4	6.5	1608	1198	16.0	11.9
target named Yarrow_Stone													
mhli00706	context view	intended standoff - 25 cm											
	3315MH0000706001104100C00	4100	13015	26.6	24.7	-1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00699	medium-resolution stereo-1	intended standoff - 5 cm											
	3315MH0000699001104103C00	4103	13967	7.1	5.2	-0.2	0.2	31.8	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3315MH0001930001104161R00			*range map product:*		3315MH0001930001104162S00				
mhli00699	medium-resolution stereo-2	intended standoff - 5 cm											
	3315MH0000699001104114C00	4114	13967	7.1	5.2	-0.2	0.2	31.8	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3315MH0001930001104159R00			*range map product:*		3315MH0001930001104160S00				
mhli00800	high resolution view	intended standoff - 2 cm											
	3315MH0000800001104125C00	4125	14601	4.1	2.2	-0.1	0.1	21.3	0.3	1608	1198	3.4	2.5
	corresponding focus merge products:	*best focus product:*		3315MH0001930001104157R00			*range map product:*		3315MH0001930001104158S00				
MAHLI sky flat field images - dust cover closed - first set													
Note: Where the Motor Count is given in blue font, the dust cover was closed during imaging; please use caution in interpreting the range and scale information, as the results are less certain.													
mhli00712	close focus - ~2.04 cm working distance focus position - manual focus												
	3315MH0007120001104135C00	4135	0	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm standoff equivalent - ~3.9 cm working distance focus position - manual focus												
	3315MH0007120011104136C00	4136	2412	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm standoff equivalent - ~6.9 cm working distance focus position - manual focus												
	3315MH0007120021104137C00	4137	3078	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm standoff equivalent - ~26.9 cm working distance focus position - manual focus												
	3315MH0007120031104138C00	4138	4062	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	infinity focus - manual focus												
	3315MH0007120041104139C00	4139	4488	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
MAHLI sky flat field images - dust cover open - first set													
mhli00453	close focus - ~2.04 cm working distance focus position - manual focus												
	3315MH0000453001104140C00	4140	15996	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm standoff equivalent - ~3.9 cm working distance focus position - manual focus												
	3315MH0000453011104141C00	4141	14664	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm standoff equivalent - ~6.9 cm working distance focus position - manual focus												
	3315MH0000453021104142C00	4142	13998	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm standoff equivalent - ~26.9 cm working distance focus position - manual focus												
	3315MH0000453031104143C00	4143	13014	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	pre-launch flat field equivalent - ~63.3 cm working distance focus position - manual focus												
	3315MH0000453041104144C00	4144	12750	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	infinity focus - manual focus												
	3315MH0000453051104145C00	4145	12552	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a

Continued on Next Page...

MAHLI sky flat field images - dust cover open - second set (camera rotated approximately 180° relative to first set)													
mhli00453	**close focus - ~2.04 cm working distance focus position - manual focus**												
	3315MH0004530001104146C00	4146	15996	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm standoff equivalent - ~3.9 cm working distance focus position - manual focus												
	3315MH0004530011104147C00	4147	14664	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm standoff equivalent - ~6.9 cm working distance focus position - manual focus												
	3315MH0004530021104148C00	4148	13998	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm standoff equivalent - ~26.9 cm working distance focus position - manual focus												
	3315MH0004530031104149C00	4149	13014	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	pre-launch flat field equivalent - ~63.3 cm working distance focus position - manual focus												
	3315MH0004530041104150C00	4150	12750	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	infinity focus - manual focus												
	3315MH0004530051104151C00	4151	12552	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a

MAHLI sky flat field images - dust cover closed - second set (camera rotated approximately 180° relative to first set)													
Note: Where the Motor Count is given in blue font, the dust cover was closed during imaging; please use caution in interpreting the range and scale information, as the results are less certain.													
mhli00712	**close focus - ~2.04 cm working distance focus position - manual focus**												
	3315MH0007120001104152C00	4152	0	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	2 cm standoff equivalent - ~3.9 cm working distance focus position - manual focus												
	3315MH0007120011104153C00	4153	2412	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	5 cm standoff equivalent - ~6.9 cm working distance focus position - manual focus												
	3315MH0007120021104154C00	4154	3078	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	25 cm standoff equivalent - ~26.9 cm working distance focus position - manual focus												
	3315MH0007120031104155C00	4155	4062	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a
	infinity focus - manual focus												
	3315MH0007120041104156C00	4156	4488	n/a	n/a	n/a	n/a	n/a	n/a	1608	1198	n/a	n/a

last update: 06_December_2021

Sol 3316 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Whaligoe_Steps - a 9 x 1 mosaic													
mhli00836	**position 1 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104164C00	4164	13254	16.9	15.0	-0.8	0.8	66.3	2.7	1608	1198	10.7	7.9
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104362R00				*range map product:*		3318MH0004400001104363S00			
mhli00836	**position 2 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104175C00	4175	13357	14.4	12.5	-0.6	0.6	57.6	2.0	1608	1198	9.3	6.9
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104360R00				*range map product:*		3318MH0004400001104361S00			
mhli00836	**position 3 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104186C00	4186	13360	14.3	12.4	-0.6	0.6	57.4	2.0	1608	1198	9.2	6.9
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104358R00				*range map product:*		3318MH0004400001104359S00			
mhli00836	**position 4 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104197C00	4197	13422	13.1	11.2	-0.5	0.5	53.2	1.7	1608	1198	8.5	6.4
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104356R00				*range map product:*		3318MH0004400001104357S00			
mhli00836	**position 5 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104208C00	4208	13469	12.3	10.4	-0.4	0.4	50.3	1.5	1608	1198	8.1	6.0
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104354R00				*range map product:*		3318MH0004400001104355S00			
mhli00836	**position 6 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104219C00	4219	13369	14.2	12.3	-0.5	0.6	56.7	1.9	1608	1198	9.1	6.8
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104352R00				*range map product:*		3318MH0004400001104353S00			
mhli00836	**position 7 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104230C00	4230	13310	15.4	13.5	-0.6	0.7	61.3	2.3	1608	1198	9.9	7.3
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104350R00				*range map product:*		3318MH0004400001104351S00			
mhli00836	**position 8 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104241C00	4241	13277	16.3	14.4	-0.7	0.7	64.1	2.5	1608	1198	10.3	7.7
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104348R00				*range map product:*		3318MH0004400001104349S00			
mhli00836	**position 9 of 9**	intended standoff - 10 cm to 20 cm											
	3316MH0008360011104252C00	4252	13225	17.7	15.8	-0.8	0.9	69.2	3.0	1608	1198	11.1	8.3
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104346R00				*range map product:*		3318MH0004400001104347S00			
target named Whaligoe_Steps													
mhli00706	**context view**	intended standoff - 25 cm											
	3316MH0007060011104263C00	4263	13014	26.7	24.8	-1.8	2.0	100.9	6.7	1608	1198	16.2	12.1
mhli00708	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3316MH0007080011104266C00	4266	13988	6.9	5.0	-0.2	0.2	31.3	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104344R00				*range map product:*		3318MH0004400001104345S00			
mhli00708	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3316MH0007080011104277C00	4277	13981	7.0	5.1	-0.2	0.2	31.4	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104342R00				*range map product:*		3318MH0004400001104343S00			
mhli00837	**high resolution view**	intended standoff - 1 cm											
	3316MH0008370021104289C00	4288	15095	2.8	0.9	-0.1	0.1	16.9	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104340R00				*range map product:*		3318MH0004400001104341S00			
target named Laurentia													
mhli00706	**context view**	intended standoff - 25 cm											
	3316MH0007060011104299C00	4299	13020	26.3	24.4	-1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00763	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3316MH0007630011104302C00	4302	14028	6.7	4.8	-0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104338R00				*range map product:*		3318MH0004400001104339S00			
mhli00763	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3316MH0007630011104313C00	4313	14023	6.7	4.8	-0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104336R00				*range map product:*		3318MH0004400001104337S00			
mhli00794	**high resolution view**	intended standoff - 1 cm											
	3316MH0007940011104324C00	4324	15184	2.7	0.8	0.0	0.1	16.3	0.2	1608	1198	2.6	2.0
	corresponding focus merge products:	*best focus product:*		3318MH0004400001104334R00				*range map product:*		3318MH0004400001104335S00			

last update: 07_December_2021

Sol 3319 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Duirinish													
mhli00190	**context view**	intended standoff - 25 cm											
	3319MH0001900011104365C00	4365	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00168	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3319MH0001680011104367C00	4367	14027	6.7	4.8	-0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3319MH0001930001104400R00				*range map product:*	3319MH0001930001104401S00				
mhli00168	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3319MH0001680011104377C00	4377	14036	6.6	4.7	-0.2	0.1	30.2	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3319MH0001930001104398R00				*range map product:*	3319MH0001930001104399S00				
mhli00743	**high resolution view**	intended standoff - 1 cm											
	3319MH0007430011104387C00	4387	15189	2.7	0.8	0.0	0.1	16.3	0.2	1608	1198	2.6	2.0
	corresponding focus merge products:	*best focus product:*		3319MH0001930001104396R00				*range map product:*	3319MH0001930001104397S00				

last update: 15_September_2022

Sol 3320 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
rover wheel inspection - view below rover undercarriage													
mhli00261	right (starboard) rear and middle wheels												
	manual focus on rear wheel												
	3320MH0002610011104402E01	4402	12582	~334	~332	~-1.6 m	~4.9 m	~1200	n/a	1608	1198	~193	~144
mhli00259	right (starboard) front wheel												
	manual focus on front wheel												
	3320MH0002590001104403E01	4403	12660	~113	~111	~-27	~50	~400	~135	1608	1198	~64	~48
mhli00264	left (port) rear and middle wheels												
	manual focus on rear wheel												
	3320MH0002640001104404E03	4404	12582	~334	~332	~-1.6 m	~4.9 m	~1200	n/a	1608	1198	~193	~144
mhli00262	left (port) front wheel												
	manual focus on front wheel												
	3320MH0002620001104405E01	4405	12660	~113	~111	~-27	~50	~400	~135	1608	1198	~64	~48

last update: 10_December_2021

Sol 3321 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Cladh_Hallan - after DRT													
mhli00706	**context view**	intended standoff - 25 cm											
	3321MH0007060011104407C00	4407	13015	26.6	24.7	-1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00723	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3321MH0007230011104410C00	4410	13980	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3322MH0001930001104446R00				*range map product:*		3322MH0001930001104447S00			
mhli00723	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3321MH0007230011104421C00	4421	13986	6.9	5.0	-0.2	0.2	31.3	0.6	1608	1198	5.0	3.8
	corresponding focus merge products:	*best focus product:*		3322MH0001930001104444R00				*range map product:*		3322MH0001930001104445S00			
mhli00746	**high resolution view**	intended standoff - 2 cm											
	3321MH0007460011104432C00	4432	14635	4.0	2.1	-0.1	0.1	20.9	0.3	1608	1198	3.4	2.5
	corresponding focus merge products:	*best focus product:*		3322MH0001930001104442R00				*range map product:*		3322MH0001930001104443S00			

last update: 14_December_2021

Sol 3323 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Helens_Bay													
mhli00190	**context view**	intended standoff - 25 cm											
	3323MH0001900011104449C00	4449	13022	26.2	24.3	-1.7	2.0	99.2	6.5	1608	1198	16.0	11.9
mhli00299	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3323MH0002990011104451C00	4451	14024	6.7	4.8	-0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3324MH0002270001104510R00				*range map product:*	3324MH0002270001104511S00				
mhli00299	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3323MH0002990011104461C00	4461	14032	6.6	4.7	-0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3324MH0002270001104508R00				*range map product:*	3324MH0002270001104509S00				
mhli00838	**high resolution view**	intended standoff - 1 cm											
	3323MH0008380011104471C00	4471	15146	2.7	0.8	0.0	0.1	16.6	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3324MH0002270001104506R00				*range map product:*	3324MH0002270001104507S00				
target named Lakehead													
mhli00190	**context view**	intended standoff - 25 cm											
	3323MH0001900011104481C00	4481	13016	26.6	24.7	-1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00673	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3323MH0006730011104483C00	4483	14121	6.1	4.2	-0.1	0.1	28.4	0.5	1608	1198	4.6	3.4
	corresponding focus merge products:	*best focus product:*		3324MH0002270001104504R00				*range map product:*	3324MH0002270001104505S00				
mhli00673	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3323MH0006730011104493C00	4493	14138	6.0	4.1	-0.1	0.1	28.1	0.5	1608	1198	4.5	3.4
	corresponding focus merge products:	*best focus product:*		3324MH0002270001104502R00				*range map product:*	3324MH0002270001104503S00				

last update: 15_December_2021

Sol 3326 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Portgower													
mhli00190	**context view**	intended standoff - 25 cm											
	3326MH0001900011104513C00	4513	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00306	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3326MH0003060011104515C00	4515	14000	6.8	4.9	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3326MH0002650001104536R00		*range map product:*			3326MH0002650001104537S00				
mhli00306	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3326MH0003060011104525C00	4525	14002	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3326MH0002650001104534R00		*range map product:*			3326MH0002650001104535S00				

last update: 20_December_2021

Sol 3328 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Korskellie													
mhli00190	**context view**	intended standoff - 25 cm											
	3328MH0001900011104539C00	4539	13020	26.3	24.4	-1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00299	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3328MH0002990011104541C00	4541	14009	6.8	4.9	-0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3329MH0001930001104574R00		*range map product:*			3329MH0001930001104575S00				
mhli00299	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3328MH0002990011104551C00	4551	14010	6.8	4.9	-0.2	0.2	30.8	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3329MH0001930001104572R00		*range map product:*			3329MH0001930001104573S00				
mhli00174	**high resolution view**	intended standoff - 2 cm											
	3328MH0001740011104561C00	4561	14699	3.8	1.9	-0.1	0.1	20.2	0.3	1608	1198	3.3	2.4
	corresponding focus merge products:	*best focus product:*		3329MH0001930001104570R00		*range map product:*			3329MH0001930001104571S00				

last update: 20_December_2021

Sol 3330 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Aros_Park													
Note: Where the Motor Count is given in blue font, the dust cover was closed during imaging; please use caution in interpreting the range and scale information, as the results are less certain.													
mhli00625	**context view**	intended standoff - 25 cm											
	3330MH0006250011104577C00	4577	4049	26.0	24.1	-1.7	1.9	98.4	6.4	1608	1198	15.8	11.8
mhli00553	**medium-resolution view**	intended standoff - 5 cm											
	3330MH0005530011104579C00	4579	2723	5.0	3.1	-0.1	0.1	24.5	0.4	1608	1198	3.9	2.9
target named Clochoderick- after DRT													
Note: Where the Motor Count is given in blue font, the dust cover was closed during imaging; please use caution in interpreting the range and scale information, as the results are less certain.													
mhli00625	**context view**	intended standoff - 25 cm											
	3330MH0006250011104581C00	4581	4084	28.2	26.3	-2.0	2.3	106.1	7.5	1608	1198	17.1	12.7
mhli00553	**medium-resolution view**	intended standoff - 5 cm											
	3330MH0005530011104583C00	4583	3076	6.9	5.0	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7

last update: 03_January_2022

Sol 3344 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Maes_Howe - after DRT													
mhli00190	**context view**	intended standoff - 25 cm											
	3344MH0001900011104585C00	4585	13020	26.3	24.4	-1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00173	**medium-resolution stereo-1**	intended standoff - 5 cm											
	APXS raster spot 1												
	3344MH0001730011104587C00	4587	14005	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3345MH0001530001104632R00				*range map product:*	3345MH0001530001104633S00				
mhli00173	**medium-resolution stereo-2**	intended standoff - 5 cm											
	APXS raster spot 1												
	3344MH0001730011104597C00	4597	14006	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3345MH0001530001104630R00				*range map product:*	3345MH0001530001104631S00				
mhli00335	**high resolution view**	intended standoff - 2 cm											
	APXS raster spot 1												
	3344MH0003350011104607C00	4607	14698	3.8	1.9	-0.1	0.1	20.2	0.3	1608	1198	3.3	2.4
	corresponding focus merge products:	*best focus product:*		3345MH0001530001104628R00				*range map product:*	3345MH0001530001104629S00				
mhli00173	**medium-resolution view**	intended standoff - 5 cm											
	APXS raster spot 2												
	3344MH0001730011104617C00	4617	14008	6.8	4.9	-0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3345MH0001530001104626R00				*range map product:*	3345MH0001530001104627S00				

last update: 05_January_2022

Sol 3347 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Verde													
mhli00190	**context view**	intended standoff - 25 cm											
	3347MH0001900011104635C00	4635	13016	26.6	24.7	-1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00173	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3347MH0001730011104637C00	4637	13989	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3347MH0002650001104658R00				*range map product:*		3347MH0002650001104659S00			
mhli00173	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3347MH0001730011104647C00	4647	13989	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3347MH0002650001104656R00				*range map product:*		3347MH0002650001104657S00			

last update: 08_January_2022

Sol 3349 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named El_Fosso													
mhli00190	**context view**	intended standoff - 25 cm											
	3349MH0001900011104661C00	4661	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00299	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3349MH0002990011104663C00	4663	14039	6.6	4.7	-0.2	0.1	30.1	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3349MH0002650001004684R00				*range map product:*		3349MH0002650001004685S00			
mhli00299	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3349MH0002990011004673C00	4673	14037	6.6	4.7	-0.2	0.1	30.2	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3349MH0002650001004682R00				*range map product:*		3349MH0002650001004683S00			

last update: 11_January_2022

Sol 3353 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
rover wheel inspection - top view, looking down on wheels - full wheel inspection, position 1 of planned 5 but 2 actual (performed on sol 3353)													
mhli00769	left (port) rear wheel												
	manual focus	intended distance to top of wheel: ~170 cm											
	3353MH0007690011004686I01	4686	12618	~172	~170	~-0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	left (port) middle wheel												
	manual focus	intended distance to top of wheel: ~112 cm											
	3353MH0007700011004687I01	4687	12660	~114	~112	~-28	~50	~408	~137	1608	1198	~65	~49
mhli00771	left (port) front wheel												
	manual focus	intended distance to top of wheel: ~135 cm											
	3353MH0007710011004688I01	4688	12642	~137	~135	~-38	~82	~489	~210	1608	1198	~78	~59
mhli00772	right (starboard) front wheel												
	manual focus	intended distance to top of wheel: ~124 cm											
	3353MH0007720011004689I01	4689	12648	~126	~124	~-32	~67	~450	~175	1608	1198	~72	~54
rover wheel inspection - top view, looking down on wheels - full wheel inspection, position 2 of planned 5 but 2 actual (performed on sol 3353)													
mhli00769	left (port) rear wheel												
	manual focus	intended distance to top of wheel: ~170 cm											
	3353MH0007690011004690I01	4690	12618	~172	~170	~-0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	left (port) middle wheel												
	manual focus	intended distance to top of wheel: ~112 cm											
	3353MH0007700011004691I01	4691	12660	~114	~112	~-28	~50	~408	~137	1608	1198	~65	~49
mhli00771	left (port) front wheel												
	manual focus	intended distance to top of wheel: ~135 cm											
	3353MH0007710011004692I01	4692	12642	~137	~135	~-38	~82	~489	~210	1608	1198	~78	~59
mhli00772	right (starboard) front wheel												
	manual focus	intended distance to top of wheel: ~124 cm											
	3353MH0007720011004693I01	4693	12648	~126	~124	~-32	~67	~450	~175	1608	1198	~72	~54

last update: 21_January_2022

Sol 3362 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Coati													
mhli00706	**context view**	**intended standoff - 25 cm**											
	3362MH0007060011200002C00	2	13011	26.9	25.0	-1.8	2.1	101.6	6.8	1608	1198	16.3	12.2
mhli00714	**medium-resolution stereo-1**	**intended standoff - 5 cm**											
	3362MH0007140011200005C00	5	13913	7.5	5.6	-0.2	0.2	33.1	0.6	1608	1198	5.3	4.0
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200101R00				*range map product:*	3363MH0001700001200102S00				
mhli00714	**medium-resolution stereo-2**	**intended standoff - 5 cm**											
	3362MH0007140011200016C00	16	13911	7.5	5.6	-0.2	0.2	33.2	0.6	1608	1198	5.3	4.0
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200099R00				*range map product:*	3363MH0001700001200100S00				
target named Morok													
mhli00714	**medium-resolution view**	**intended standoff - 5 cm**											
	3362MH0007140011200027C00	27	13791	8.4	6.5	-0.2	0.2	36.6	0.8	1608	1198	5.9	4.4
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200097R00				*range map product:*	3363MH0001700001200098S00				
target named Caroni - a 5 x 1 mosaic													
mhli00152	**position 1 of 5**	**intended standoff - 7 cm**											
	3362MH0001520011200038C00	38	13760	8.7	6.8	-0.2	0.2	37.6	0.8	1608	1198	6.1	4.5
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200095R00				*range map product:*	3363MH0001700001200096S00				
mhli00152	**position 2 of 5**	**intended standoff - 7 cm**											
	3362MH0001520011200048C00	48	13825	8.2	6.3	-0.2	0.2	35.6	0.7	1608	1198	5.7	4.3
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200093R00				*range map product:*	3363MH0001700001200094S00				
mhli00152	**position 3 of 5**	**intended standoff - 7 cm**											
	3362MH0001520011200058C00	58	13929	7.3	5.4	-0.2	0.2	32.7	0.6	1608	1198	5.3	3.9
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200091R00				*range map product:*	3363MH0001700001200092S00				
mhli00152	**position 4 of 5**	**intended standoff - 7 cm**											
	3362MH0001520011200068C00	68	13950	7.2	5.3	-0.2	0.2	32.2	0.6	1608	1198	5.2	3.9
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200089R00				*range map product:*	3363MH0001700001200090S00				
mhli00152	**position 5 of 5**	**intended standoff - 7 cm**											
	3362MH0001520011200078C00	78	14005	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3363MH0001700001200087R00				*range map product:*	3363MH0001700001200088S00				

last update: 24_January_2022

Sol 3364 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Mazaruni													
mhli00190	**context view**	intended standoff - 25 cm											
	3364MH0001900011200104C00	104	13015	26.6	24.7	-1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00299	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3364MH0002990011200106C00	106	13960	7.1	5.2	-0.2	0.2	31.9	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3365MH0001530001200153R00				*range map product:*	3365MH0001530001200154S00				
mhli00299	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3364MH0002990011200116C00	116	13989	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3365MH0001530001200151R00				*range map product:*	3365MH0001530001200152S00				
target named Formoso													
mhli00190	**context view**	intended standoff - 25 cm											
	3364MH0001900011200126C00	126	13020	26.3	24.4	-1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00168	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3364MH0001680011200128C00	128	14024	6.7	4.8	-0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3365MH0001530001200149R00				*range map product:*	3365MH0001530001200150S00				
mhli00168	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3364MH0001680011200138C00	138	14010	6.8	4.9	-0.2	0.2	30.8	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3365MH0001530001200147R00				*range map product:*	3365MH0001530001200148S00				

last update: 28_January_2022

Sol 3369 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
rover wheel inspection - top view, looking down on wheels - full wheel inspection, position 1 of 5 (performed on sol 3369)													
mhli00769	left (port) rear wheel												
	manual focus	intended distance to top of wheel: ~170 cm											
	3369MH0007690011200155E01	155	12618	~172	~170	~-0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	left (port) middle wheel												
	manual focus	intended distance to top of wheel: ~112 cm											
	3369MH0007700011200156E01	156	12660	~114	~112	~-28	~50	~408	~137	1608	1198	~65	~49
mhli00771	left (port) front wheel												
	manual focus	intended distance to top of wheel: ~135 cm											
	3369MH0007710011200157E01	157	12642	~137	~135	~-38	~82	~489	~210	1608	1198	~78	~59
mhli00772	right (starboard) front wheel												
	manual focus	intended distance to top of wheel: ~124 cm											
	3369MH0007720011200158E01	158	12648	~126	~124	~-32	~67	~450	~175	1608	1198	~72	~54
rover wheel inspection - top view, looking down on wheels - full wheel inspection, position 2 of 5 (performed on sol 3369)													
mhli00769	left (port) rear wheel												
	manual focus	intended distance to top of wheel: ~170 cm											
	3369MH0007690011200159E01	159	12618	~172	~170	~-0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	left (port) middle wheel												
	manual focus	intended distance to top of wheel: ~112 cm											
	3369MH0007700011200160E01	160	12660	~114	~112	~-28	~50	~408	~137	1608	1198	~65	~49
mhli00771	left (port) front wheel												
	manual focus	intended distance to top of wheel: ~135 cm											
	3369MH0007710011200161E01	161	12642	~137	~135	~-38	~82	~489	~210	1608	1198	~78	~59
mhli00772	right (starboard) front wheel												
	manual focus	intended distance to top of wheel: ~124 cm											
	3369MH0007720011200162E01	162	12648	~126	~124	~-32	~67	~450	~175	1608	1198	~72	~54
rover wheel inspection - top view, looking down on wheels - full wheel inspection, position 3 of 5 (performed on sol 3369)													
mhli00769	left (port) rear wheel												
	manual focus	intended distance to top of wheel: ~170 cm											
	3369MH0007690011200163E01	163	12618	~172	~170	~-0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	left (port) middle wheel												
	manual focus	intended distance to top of wheel: ~112 cm											
	3369MH0007700011200164E01	164	12660	~114	~112	~-28	~50	~408	~137	1608	1198	~65	~49
mhli00771	left (port) front wheel												
	manual focus	intended distance to top of wheel: ~135 cm											
	3369MH0007710011200165E01	165	12642	~137	~135	~-38	~82	~489	~210	1608	1198	~78	~59
mhli00772	right (starboard) front wheel												
	manual focus	intended distance to top of wheel: ~124 cm											
	3369MH0007720011200166E01	166	12648	~126	~124	~-32	~67	~450	~175	1608	1198	~72	~54
rover wheel inspection - top view, looking down on wheels - full wheel inspection, position 4 of 5 (performed on sol 3369)													
mhli00769	left (port) rear wheel												
	manual focus	intended distance to top of wheel: ~170 cm											
	3369MH0007690011200167E01	167	12618	~172	~170	~-0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	left (port) middle wheel												
	manual focus	intended distance to top of wheel: ~112 cm											
	3369MH0007700011200168E01	168	12660	~114	~112	~-28	~50	~408	~137	1608	1198	~65	~49
mhli00771	left (port) front wheel												
	manual focus	intended distance to top of wheel: ~135 cm											
	3369MH0007710011200169E01	169	12642	~137	~135	~-38	~82	~489	~210	1608	1198	~78	~59
mhli00772	right (starboard) front wheel												
	manual focus	intended distance to top of wheel: ~124 cm											
	3369MH0007720011200170E01	170	12648	~126	~124	~-32	~67	~450	~175	1608	1198	~72	~54

Continued on Next Page...

rover wheel inspection - top view, looking down on wheels - full wheel inspection, position 5 of 5 (performed on sol 3369)													
mhli00769	left (port) rear wheel												
	manual focus	intended distance to top of wheel: ~170 cm											
	3369MH0007690011200171E01	171	12618	~172	~170	~-0.6 m	~1.6 m	~612	n/a	1608	1198	~98	~73
mhli00770	left (port) middle wheel												
	manual focus	intended distance to top of wheel: ~112 cm											
	3369MH0007700011200172E01	172	12660	~114	~112	~-28	~50	~408	~137	1608	1198	~65	~49
mhli00771	left (port) front wheel												
	manual focus	intended distance to top of wheel: ~135 cm											
	3369MH0007710011200173E01	173	12642	~137	~135	~-38	~82	~489	~210	1608	1198	~78	~59
mhli00772	right (starboard) front wheel												
	manual focus	intended distance to top of wheel: ~124 cm											
	3369MH0007720011200174E01	174	12648	~126	~124	~-32	~67	~450	~175	1608	1198	~72	~54

last update: 31_January_2022

Sol 3371 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named The_Test - a 6 x 1 mosaic													
mhli00708	**position 1 of 6**	intended standoff - 5 cm											
	3371MH0007080011200176C00	176	13999	6.9	5.0	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200295R00				*range map product:*		3372MH0005360001200296S00			
mhli00708	**position 2 of 6**	intended standoff - 5 cm											
	3371MH0007080011200187C00	187	14051	6.5	4.6	-0.2	0.1	29.9	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200293R00				*range map product:*		3372MH0005360001200294S00			
mhli00708	**position 3 of 6**	intended standoff - 5 cm											
	3371MH0007080011200198C00	198	14157	5.9	4.0	-0.1	0.1	27.7	0.5	1608	1198	4.5	3.3
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200291R00				*range map product:*		3372MH0005360001200292S00			
mhli00708	**position 4 of 6**	intended standoff - 5 cm											
	3371MH0007080011200209C00	209	14039	6.6	4.7	-0.2	0.1	30.1	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200289R00				*range map product:*		3372MH0005360001200290S00			
mhli00708	**position 5 of 6**	intended standoff - 5 cm											
	3371MH0007080011200220C00	220	14063	6.4	4.5	-0.1	0.1	29.6	0.5	1608	1198	4.8	3.5
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200287R00				*range map product:*		3372MH0005360001200288S00			
mhli00708	**position 6 of 6**	intended standoff - 5 cm											
	3371MH0007080011200231C00	231	14185	5.8	3.9	-0.1	0.1	27.2	0.4	1608	1198	4.4	3.3
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200285R00				*range map product:*		3372MH0005360001200286S00			
target named Suapi - after DRT - quantitative relief model (QRM) data													
mhli00190	**context view**	intended standoff - 25 cm											
	3371MH0001900011200242C00	242	13015	26.6	24.7	-1.8	2.0	100.7	6.7	1608	1198	16.2	12.1
mhli00173	**med res - stereo-1 & relief model position 1**	intended standoff - 5 cm											
	3371MH0001730011200244C00	244	13954	7.2	5.3	-0.2	0.2	32.1	0.6	1608	1198	5.2	3.8
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200283R00				*range map product:*		3372MH0005360001200284S00			
mhli00173	**med res - stereo-2 & relief model position 2**	intended standoff - 5 cm											
	3371MH0001730011200254C00	254	13983	7.0	5.1	-0.2	0.2	31.4	0.6	1608	1198	5.0	3.8
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200281R00				*range map product:*		3372MH0005360001200282S00			
mhli00705	**med res - relief model position 3**	intended standoff - 5 cm											
	3371MH0007050011200264C00	264	13980	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
mhli00705	**med res - relief model position 4**	intended standoff - 5 cm											
	3371MH0007050011200266C00	266	13978	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
mhli00705	**med res - relief model position 5**	intended standoff - 5 cm											
	3371MH0007050011200268C00	268	13973	7.0	5.1	-0.2	0.2	31.6	0.6	1608	1198	5.1	3.8
mhli00426	**high resolution view**	intended standoff - 1 cm											
	3371MH0004260011200270C00	270	15021	3.0	1.1	-0.1	0.1	17.4	0.2	1608	1198	2.8	2.1
	corresponding focus merge products:	*best focus product:*		3372MH0005360001200279R00				*range map product:*		3372MH0005360001200280S00			

last update: 04_February_2022

Sol 3374 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Toron - an 11 frame "T-shaped" mosaic													
mhli00841	**position 1 of 11**	intended standoff - 15 cm											
	3374MH0008410011200298C00	298	13276	16.3	14.4	-0.7	0.7	64.2	2.5	1608	1198	10.3	7.7
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200477R00				*range map product:*		3375MH0004400001200478S00			
mhli00841	**position 2 of 11**	intended standoff - 15 cm											
	3374MH0008410011200308C00	308	13278	16.2	14.3	-0.7	0.7	64.0	2.5	1608	1198	10.3	7.7
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200475R00				*range map product:*		3375MH0004400001200476S00			
mhli00841	**position 3 of 11**	intended standoff - 15 cm											
	3374MH0008410011200318C00	318	13262	16.6	14.7	-0.7	0.8	65.5	2.6	1608	1198	10.5	7.8
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200473R00				*range map product:*		3375MH0004400001200474S00			
mhli00841	**position 4 of 11**	intended standoff - 15 cm											
	3374MH0008410011200328C00	328	13297	15.8	13.9	-0.7	0.7	62.4	2.4	1608	1198	10.0	7.5
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200471R00				*range map product:*		3375MH0004400001200472S00			
mhli00841	**position 5 of 11**	intended standoff - 15 cm											
	3374MH0008410011200338C00	338	13320	15.2	13.3	-0.6	0.6	60.4	2.2	1608	1198	9.7	7.2
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200469R00				*range map product:*		3375MH0004400001200470S00			
mhli00841	**position 6 of 11**	intended standoff - 15 cm											
	3374MH0008410011200348C00	348	13350	14.5	12.6	-0.6	0.6	58.1	2.0	1608	1198	9.3	7.0
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200467R00				*range map product:*		3375MH0004400001200468S00			
mhli00841	**position 7 of 11**	intended standoff - 15 cm											
	3374MH0008410011200358C00	358	13333	14.9	13.0	-0.6	0.6	59.4	2.1	1608	1198	9.6	7.1
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200465R00				*range map product:*		3375MH0004400001200466S00			
mhli00841	**position 8 of 11**	intended standoff - 15 cm											
	3374MH0008410011200368C00	368	13327	15.1	13.2	-0.6	0.6	59.9	2.2	1608	1198	9.6	7.2
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200463R00				*range map product:*		3375MH0004400001200464S00			
mhli00841	**position 9 of 11**	intended standoff - 15 cm											
	3374MH0008410011200378C00	378	13342	14.7	12.8	-0.6	0.6	58.7	2.1	1608	1198	9.4	7.0
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200461R00				*range map product:*		3375MH0004400001200462S00			
mhli00841	**position 10 of 11**	intended standoff - 15 cm											
	3374MH0008410011200388C00	388	13315	15.3	13.4	-0.6	0.6	60.9	2.3	1608	1198	9.8	7.3
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200459R00				*range map product:*		3375MH0004400001200460S00			
mhli00841	**position 11 of 11**	intended standoff - 15 cm											
	3374MH0008410011200398C00	398	13232	17.5	15.6	-0.8	0.8	68.4	2.9	1608	1198	11.0	8.2
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200457R00				*range map product:*		3375MH0004400001200458S00			
target named Surumu													
mhli00190	**context view**	intended standoff - 25 cm											
	3374MH0001900011200408C00	408	13016	26.6	24.7	-1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00152	**medium-resolution stereo-1**	intended standoff - 5 cm											
	APXS raster spot 2												
	3374MH0001520011200410C00	410	13984	7.0	5.1	-0.2	0.2	31.4	0.6	1608	1198	5.0	3.8
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200455R00				*range map product:*		3375MH0004400001200456S00			
mhli00152	**medium-resolution stereo-2**	intended standoff - 5 cm											
	APXS raster spot 2												
	3374MH0001520011200420C00	420	13979	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200453R00				*range map product:*		3375MH0004400001200454S00			
mhli00419	**high resolution view**	intended standoff - 1 cm											
	APXS raster spot 2												
	3374MH0004190011200430C00	430	15053	2.9	1.0	-0.1	0.1	17.2	0.2	1608	1198	2.8	2.1
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200451R00				*range map product:*		3375MH0004400001200452S00			
mhli00152	**medium-resolution view**	intended standoff - 5 cm											
	APXS raster spot 1												
	3374MH0001520011200440C00	440	13955	7.1	5.2	-0.2	0.2	32.1	0.6	1608	1198	5.2	3.8
	corresponding focus merge products:	*best focus product:*		3375MH0004400001200449R00				*range map product:*		3375MH0004400001200450S00			

last update: 04_February_2022

Sol 3376 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Kokadai													
mhli00190	**context view**	intended standoff - 25 cm											
	3376MH0001900011200480C00	480	13016	26.6	24.7	-1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00173	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3376MH0001730011200482C00	482	14005	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3376MH0001930001200515R00				*range map product:*	3376MH0001930001200516S00				
mhli00173	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3376MH0001730011200492C00	492	14005	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3376MH0001930001200513R00				*range map product:*	3376MH0001930001200514S00				
mhli00716	**high resolution view**	intended standoff - 1 cm											
	3376MH0007160011200502C00	502	15142	2.8	0.9	0.0	0.1	16.6	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3376MH0001930001200511R00				*range map product:*	3376MH0001930001200512S00				

last update: 07_February_2022

Sol 3378 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
REMS UV sensor													
mhli00095	**standard viewing position**	intended standoff: ~15 cm											
	3378MH0000950011200518C00	518	13259	16.7	14.8	-0.7	0.8	65.8	2.7	1608	1198	10.6	7.9
target named Erico													
mhli00190	**context view**	intended standoff - 25 cm											
	3378MH0001900011200520C00	520	13021	26.3	24.4	-1.7	2.0	99.4	6.5	1608	1198	16.0	11.9
target named Aji													
mhli00190	**context view**	intended standoff - 25 cm											
	3378MH0001900011200522C00	522	13021	26.3	24.4	-1.7	2.0	99.4	6.5	1608	1198	16.0	11.9
mhli00224	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3378MH0002240011200524C00	524	14022	6.7	4.8	-0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3378MH0001530001200569R00				*range map product:*	3378MH0001530001200570S00				
mhli00224	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3378MH0002240011200534C00	534	14028	6.7	4.8	-0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3378MH0001530001200567R00				*range map product:*	3378MH0001530001200568S00				
target named Erico													
mhli00299	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3378MH0002990011200544C00	544	14030	6.7	4.8	-0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3378MH0001530001200565R00				*range map product:*	3378MH0001530001200566S00				
mhli00299	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3378MH0002990011200554C00	554	14029	6.7	4.8	-0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3378MH0001530001200563R00				*range map product:*	3378MH0001530001200564S00				

last update: 15_September_2022

Sol 3381 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named El_Dorado													
mhli00190	**context view**	intended standoff - 25 cm											
	3381MH0001900011200572C00	572	13022	26.2	24.3	-1.7	2.0	99.2	6.5	1608	1198	16.0	11.9
mhli00182	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3381MH0001820011200574C00	574	14053	6.5	4.6	-0.2	0.1	29.8	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3381MH0001930001200607R00				*range map product:*		3381MH0001930001200608S00			
mhli00182	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3381MH0001820011200584C00	584	14055	6.5	4.6	-0.2	0.1	29.8	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3381MH0001930001200605R00				*range map product:*		3381MH0001930001200606S00			
mhli00426	**high resolution view**	intended standoff - 1 cm											
	3381MH0004260011200594C00	594	15281	2.5	0.6	0.0	0.1	15.7	0.2	1608	1198	2.5	1.9
	corresponding focus merge products:	*best focus product:*		3381MH0001930001200603R00				*range map product:*		3381MH0001930001200604S00			

last update: 11_February_2022

Sol 3383 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Tantallon_Castle													
mhli00190	**context view**	intended standoff - 25 cm											
	3383MH0001900011200610C00	610	13017	26.5	24.6	-1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00173	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3383MH0001730011200612C00	612	14004	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3383MH0002650001200633R00				*range map product:*		3383MH0002650001200634S00			
mhli00173	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3383MH0001730011200622C00	622	14007	6.8	4.9	-0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3383MH0002650001200631R00				*range map product:*		3383MH0002650001200632S00			

last update: 14_February_2022

Sol 3385 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Kintradwell - after DRT													
mhli00706	context view	intended standoff - 25 cm											
	3385MH0007060011200636C00	636	13020	26.3	24.4	-1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00763	medium-resolution stereo-1	intended standoff - 5 cm											
	APXS raster spot 2												
	3385MH0007630011200639C00	639	14031	6.6	4.7	-0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3386MH0001530001200688R00		*range map product:*			3386MH0001530001200689S00				
mhli00763	medium-resolution stereo-2	intended standoff - 5 cm											
	APXS raster spot 2												
	3385MH0007630011200650C00	650	14031	6.6	4.7	-0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3386MH0001530001200686R00		*range map product:*			3386MH0001530001200687S00				
mhli00785	high resolution view	intended standoff - 1 cm											
	APXS raster spot 2												
	3385MH0007850011200661C00	661	15192	2.7	0.8	0.0	0.1	16.3	0.2	1608	1198	2.6	1.9
	corresponding focus merge products:	*best focus product:*		3386MH0001530001200684R00		*range map product:*			3386MH0001530001200685S00				
mhli00763	medium-resolution view	intended standoff - 5 cm											
	APXS raster spot 1												
	3385MH0007630011200672C00	672	14021	6.7	4.8	-0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3386MH0001530001200682R00		*range map product:*			3386MH0001530001200683S00				

last update: 17_February_2022

Sol 3387 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Loch_Garten - before DRT													
mhli00190	**context view**	intended standoff - 25 cm											
	3387MH0001900011200691C00	691	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00122	**medium-resolution view**	intended standoff - 5 cm											
	3387MH0001220011200693C00	693	14026	6.7	4.8	-0.2	0.1	30.4	0.5	1608	1198	4.9	3.6
target named Loch_Garten - after DRT													
mhli00706	**context view**	intended standoff - 25 cm											
	3387MH0007060011200695C00	695	13021	26.3	24.4	-1.7	2.0	99.4	6.5	1608	1198	16.0	11.9
mhli00763	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3387MH0007630011200698C00	698	14020	6.7	4.8	-0.2	0.1	30.5	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3387MH0001930001200734R00				*range map product:*	3387MH0001930001200735S00				
mhli00763	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3387MH0007630011200709C00	709	14030	6.7	4.8	-0.2	0.1	30.3	0.5	1608	1198	4.9	3.6
	corresponding focus merge products:	*best focus product:*		3387MH0001930001200732R00				*range map product:*	3387MH0001930001200733S00				
mhli00603	**high resolution view**	intended standoff - 1 cm											
	3387MH0006030011200720C00	720	15168	2.7	0.8	0.0	0.1	16.4	0.2	1608	1198	2.6	2.0
	corresponding focus merge products:	*best focus product:*		3387MH0001930001200730R00				*range map product:*	3387MH0001930001200731S00				

last update: 17_February_2022

Sol 3388 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
MAHLI calibration target													
Note: one can also use features in these images to determine scale; the scale information presented here is based on motor count, not analysis of the images.													
mhli00371	**bar target - 5 cm working distance**												
	3388MH0003710011200737C00	737	14379	4.9	3.0	-0.1	0.1	24.1	0.3	1608	1198	3.9	2.9
mhli00372	**cent target - 5 cm working distance**												
	3388MH0003720011200739C00	739	14375	4.9	3.0	-0.1	0.1	24.1	0.4	1608	1198	3.9	2.9
mhli00374	**calibration target + front left wheel + surface - 30 cm working distance**												
	autofocus on calibration target												
	3388MH0003740011200741C00	741	12963	30.2	28.3	-2.3	2.6	113.3	8.6	1608	1198	18.2	13.6
	manual infinity focus												
	3388MH0003740021200742C00	742	12552	(infinity)	(infinity)	(infinity)	(infinity)	(infinity)	(infinity)	1608	1198	(infinity)	(infinity)
APXS calibration target													
Note: one can also use features in the image(s) to determine scale; the scale information presented here is based on motor count, not analysis of the image(s).													
mhli00373	**6.9 cm working distance**												
	3388MH0003730011200744C00	744	13952	7.2	5.3	-0.2	0.2	32.1	0.6	1608	1198	5.2	3.9
target named Tappington													
mhli00190	**context view**	intended standoff - 25 cm											
	3388MH0001900011200746C00	746	13036	25.4	23.5	-1.6	1.8	96.3	6.1	1608	1198	15.5	11.5
mhli00182	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3388MH0001820011200748C00	748	14227	5.6	3.7	-0.1	0.1	26.5	0.4	1608	1198	4.3	3.2
	corresponding focus merge products:	*best focus product:*		3388MH0001630001200824R00		*range map product:*			3388MH0001630001200825S00				
mhli00182	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3388MH0001820011200758C00	758	14230	5.5	3.6	-0.1	0.1	26.4	0.4	1608	1198	4.2	3.2
	corresponding focus merge products:	*best focus product:*		3388MH0001630001200822R00		*range map product:*			3388MH0001630001200823S00				
target named Loch_Coruisk - after DRT													
mhli00706	**context view**	intended standoff - 25 cm											
	3388MH0007060011200768C00	768	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00723	**medium-resolution stereo-1**	intended standoff - 5 cm											
	APXS raster spot 2												
	3388MH0007230011200771C00	771	13990	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3388MH0001630001200820R00		*range map product:*			3388MH0001630001200821S00				
mhli00723	**medium-resolution stereo-2**	intended standoff - 5 cm											
	APXS raster spot 2												
	3388MH0007230011200782C00	782	13992	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3388MH0001630001200818R00		*range map product:*			3388MH0001630001200819S00				
mhli00658	**high resolution view**	intended standoff - 1 cm											
	APXS raster spot 2												
	3388MH0006580011200793C00	793	15063	2.9	1.0	-0.1	0.1	17.1	0.2	1608	1198	2.8	2.1
	corresponding focus merge products:	*best focus product:*		3388MH0001630001200816R00		*range map product:*			3388MH0001630001200817S00				
mhli00723	**medium-resolution view**	intended standoff - 5 cm											
	APXS raster spot 1												
	3388MH0007230011200804C00	804	13991	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3388MH0001630001200814R00		*range map product:*			3388MH0001630001200815S00				

last update: 18_February_2022

Sol 3389 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
CheMin sample inlet - at night with its cover open - deep imaging to check cleanliness state of mesh, funnel, funnel throat													
intended working distance to mesh is 12.4 cm; to funnel throat is 16.3 cm - for scale, note that mesh diameter is 3.5 cm													
mhli00312	**image focused at funnel throat (~4 cm below mesh) - position 1 of 3 to inspect funnel throat**												
	manual focus	**intended distance to funnel throat: 16.3 cm**											
	3389MH0003120001200826C00	826	13272	16.4	14.5	-0.7	0.7	64.6	2.6	1024	1024	6.6	6.6
	image focused at mesh												
	manual focus	**intended distance to mesh: 12.4 cm**											
	3389MH0003120011200827C00	827	13458	12.5	10.6	-0.4	0.4	51.0	1.5	1024	1024	5.2	5.2
mhli00326	**image focused at funnel throat (~4 cm below mesh) - position 2 of 3 to inspect funnel throat**												
	manual focus	**intended distance to funnel throat: 16.3 cm**											
	3389MH0003260001200828C00	828	13272	16.4	14.5	-0.7	0.7	64.6	2.6	1024	1024	6.6	6.6
mhli00326	**image focused at funnel throat (~4 cm below mesh) - position 3 of 3 to inspect funnel throat**												
	manual focus	**intended distance to funnel throat: 16.3 cm**											
	3389MH0003260001200829C00	829	13272	16.4	14.5	-0.7	0.7	64.6	2.6	1024	1024	6.6	6.6
CheMin sample inlet - at night with its cover open - overview of entire inlet													
intended working distance to inlet is ~19 cm - for scale, note that mesh diameter is 3.5 cm													
mhli00228	**manual focus**	**intended distance: ~19 cm**											
	3389MH0002280001200830C00	830	13182	19.1	17.2	-0.9	1.0	74.0	3.4	1608	1198	11.9	8.9

last update: 22_February_2022

Sol 3392 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Nithsdale													
mhli00190	**context view**	intended standoff - 25 cm											
	3392MH0001900011200832C00	832	13028	25.9	24.0	-1.7	1.9	98.0	6.3	1608	1198	15.8	11.7
mhli00173	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3392MH0001730011200834C00	834	14160	5.9	4.0	-0.1	0.1	27.7	0.4	1608	1198	4.4	3.3
	corresponding focus merge products:	*best focus product:*		3393MH0002270001200899R00				*range map product:*	3393MH0002270001200900S00				
mhli00173	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3392MH0001730011200844C00	844	14148	6.0	4.1	-0.1	0.1	27.9	0.5	1608	1198	4.5	3.3
	corresponding focus merge products:	*best focus product:*		3393MH0002270001200897R00				*range map product:*	3393MH0002270001200898S00				
target named Foss_Mine - quantitative relief model (QRM) data													
mhli00190	**context view**	intended standoff - 25 cm											
	3392MH0001900011200854C00	854	13017	26.5	24.6	-1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00182	**med res - stereo-1 & relief model position 1**	intended standoff - 5 cm											
	3392MH0001820011200856C00	856	14001	6.8	4.9	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3393MH0002270001200895R00				*range map product:*	3393MH0002270001200896S00				
mhli00182	**med res - stereo-2 & relief model position 2**	intended standoff - 5 cm											
	3392MH0001820011200866C00	866	13999	6.9	5.0	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3393MH0002270001200893R00				*range map product:*	3393MH0002270001200894S00				
mhli00705	**med res - relief model position 3**	intended standoff - 5 cm											
	3392MH0000705011200876C00	876	13998	6.9	5.0	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
mhli00705	**med res - relief model position 4**	intended standoff - 5 cm											
	3392MH0000705011200878C00	878	14001	6.8	4.9	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
mhli00705	**med res - relief model position 5**	intended standoff - 5 cm											
	3392MH0000705011200880C00	880	14001	6.8	4.9	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
mhli00743	**high resolution view**	intended standoff - 1 cm											
	3392MH0000743011200882C00	882	15111	2.8	0.9	-0.1	0.1	16.8	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3393MH0002270001200891R00				*range map product:*	3393MH0002270001200892S00				

last update: 28_February_2022

Sol 3395 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Galdenoch - after DRT													
mhli00706	**context view**	intended standoff - 25 cm											
	3395MH0007060011200902C00	902	13016	26.6	24.7	-1.8	2.0	100.5	6.7	1608	1198	16.2	12.0
mhli00699	**medium-resolution stereo-1**	intended standoff - 5 cm											
	APXS raster spot 2												
	3395MH0006990011200905C00	905	13968	7.1	5.2	-0.2	0.2	31.7	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3395MH0001530001200954R00				*range map product:*		3395MH0001530001200955S00			
mhli00699	**medium-resolution stereo-2**	intended standoff - 5 cm											
	APXS raster spot 2												
	3395MH0006990011200916C00	916	13976	7.0	5.1	-0.2	0.2	31.6	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3395MH0001530001200952R00				*range map product:*		3395MH0001530001200953S00			
mhli00699	**medium-resolution view**	intended standoff - 5 cm											
	APXS raster spot 1												
	3395MH0006990011200927C00	927	13979	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3395MH0001530001200950R00				*range map product:*		3395MH0001530001200951S00			
mhli00823	**high resolution view**	intended standoff - 1 cm											
	APXS raster spot 2												
	3395MH0008230011200938C00	938	14975	3.1	1.2	-0.1	0.1	17.8	0.2	1608	1198	2.9	2.1
	corresponding focus merge products:	*best focus product:*		3395MH0001530001200948R00				*range map product:*		3395MH0001530001200949S00			

last update: 28_February_2022

Sol 3396 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Scousburgh - before DRT													
mhli00190	**context view**	**intended standoff - 25 cm**											
	3396MH0001900011200957C00	957	13020	26.3	24.4	-1.7	2.0	99.6	6.5	1608	1198	16.0	11.9
mhli00122	**medium-resolution view**	**intended standoff - 5 cm**											
	3396MH0001220011200959C00	959	13999	6.9	5.0	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
target named Scousburgh - after DRT													
mhli00706	**context view**	**intended standoff - 25 cm**											
	3396MH0007060011200961C00	961	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00763	**medium-resolution stereo-1**	**intended standoff - 5 cm**											
	3396MH0007630011200964C00	964	13998	6.9	5.0	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3397MH0001630001201038R00				*range map product:*		3397MH0001630001201039S00			
mhli00763	**medium-resolution stereo-2**	**intended standoff - 5 cm**											
	3396MH0007630011200975C00	975	13997	6.9	5.0	-0.2	0.2	31.1	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3397MH0001630001201036R00				*range map product:*		3397MH0001630001201037S00			
mhli00835	**high resolution view**	**intended standoff - 1 cm**											
	3396MH0008350011200986C00	986	15073	2.9	1.0	-0.1	0.1	17.1	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3397MH0001630001201034R00				*range map product:*		3397MH0001630001201035S00			
target named Blackthorn_Salt													
mhli00190	**context view**	**intended standoff - 25 cm**											
	3396MH0001900011200997C00	997	13017	26.5	24.6	-1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00224	**medium-resolution stereo-1**	**intended standoff - 5 cm**											
	3396MH0002240011200999C00	999	13977	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3397MH0001630001201032R00				*range map product:*		3397MH0001630001201033S00			
mhli00224	**medium-resolution stereo-2**	**intended standoff - 5 cm**											
	3396MH0002240011201009C00	1009	13978	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3397MH0001630001201030R00				*range map product:*		3397MH0001630001201031S00			
mhli00176	**high resolution view**	**intended standoff - 2 cm**											
	3396MH0001760011201019C00	1019	14625	4.0	2.1	-0.1	0.1	21.0	0.3	1608	1198	3.4	2.5
	corresponding focus merge products:	*best focus product:*		3397MH0001630001201028R00				*range map product:*		3397MH0001630001201029S00			

last update: 02_March_2022

Sol 3398 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Exnaboe													
mhli00706	**context view**	intended standoff - 25 cm											
	3398MH0007060011201041C00	1041	13014	26.7	24.8	-1.8	2.0	100.9	6.7	1608	1198	16.2	12.1
mhli00740	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3398MH0007400011201044C00	1044	14001	6.8	4.9	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3399MH0002270001201106R00				*range map product:*	3399MH0002270001201107S00				
mhli00740	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3398MH0007400011201055C00	1055	14011	6.8	4.9	-0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3399MH0002270001201104R00				*range map product:*	3399MH0002270001201105S00				
mhli00800	**high resolution view**	intended standoff - 2 cm											
	3398MH0008000011201066C00	1066	14685	3.8	1.9	-0.1	0.1	20.4	0.3	1608	1198	3.3	2.4
	corresponding focus merge products:	*best focus product:*		3399MH0002270001201102R00				*range map product:*	3399MH0002270001201103S00				
target named Stinchar_Valley													
mhli00190	**context view**	intended standoff - 25 cm											
	3398MH0001900011201077C00	1077	13023	26.2	24.3	-1.7	1.9	99.0	6.5	1608	1198	15.9	11.9
mhli00308	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3398MH0003080011201079C00	1079	14114	6.2	4.3	-0.1	0.1	28.6	0.5	1608	1198	4.6	3.4
	corresponding focus merge products:	*best focus product:*		3399MH0002270001201100R00				*range map product:*	3399MH0002270001201101S00				
mhli00308	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3398MH0003080011201089C00	1089	14107	6.2	4.3	-0.1	0.1	28.7	0.5	1608	1198	4.6	3.4
	corresponding focus merge products:	*best focus product:*		3399MH0002270001201098R00				*range map product:*	3399MH0002270001201099S00				

last update: 11_March_2022

Sol 3409 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Skaw_Granite - after DRT													
mhli00190	**context view**	intended standoff - 25 cm											
	3409MH0001900011201109C00	1109	13017	26.5	24.6	-1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00299	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3409MH0002990011201111C00	1111	13989	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3410MH0001930001201144R00				*range map product:*	3410MH0001930001201145S00				
mhli00299	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3409MH0002990011201121C00	1121	13988	6.9	5.0	-0.2	0.2	31.3	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3410MH0001930001201142R00				*range map product:*	3410MH0001930001201143S00				
mhli00426	**high resolution view**	intended standoff - 1 cm											
	3409MH0004260011201131C00	1131	15057	2.9	1.0	-0.1	0.1	17.2	0.2	1608	1198	2.8	2.1
	corresponding focus merge products:	*best focus product:*		3410MH0001930001201140R00				*range map product:*	3410MH0001930001201141S00				

last update: 16_March_2022

Sol 3413 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Appleby													
mhli00190	**context view**	intended standoff - 25 cm											
	3413MH0001900011201147C00	1147	13017	26.5	24.6	-1.8	2.0	100.3	6.6	1608	1198	16.1	12.0
mhli00173	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3413MH0001730011201149C00	1149	13994	6.9	5.0	-0.2	0.2	31.1	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3413MH0002270001201209R00				*range map product:*	3413MH0002270001201210S00				
mhli00173	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3413MH0001730011201159C00	1159	14005	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3413MH0002270001201207R00				*range map product:*	3413MH0002270001201208S00				
mhli00337	**high resolution view**	intended standoff - 2 cm											
	3413MH0003370011201169C00	1169	14674	3.9	2.0	-0.1	0.1	20.5	0.3	1608	1198	3.3	2.5
	corresponding focus merge products:	*best focus product:*		3413MH0002270001201205R00				*range map product:*	3413MH0002270001201206S00				
target named Achvarasdal													
mhli00190	**context view**	intended standoff - 25 cm											
	3413MH0001900011201179C00	1179	13052	24.5	22.6	-1.5	1.7	93.3	5.7	1608	1198	15.0	11.2
mhli00224	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3413MH0002240011201181C00	1181	14350	5.0	3.1	-0.1	0.1	24.5	0.4	1608	1198	3.9	2.9
	corresponding focus merge products:	*best focus product:*		3413MH0002270001201203R00				*range map product:*	3413MH0002270001201204S00				
mhli00224	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3413MH0002240011201191C00	1191	14354	5.0	3.1	-0.1	0.1	24.4	0.4	1608	1198	3.9	2.9
	corresponding focus merge products:	*best focus product:*		3413MH0002270001201201R00				*range map product:*	3413MH0002270001201202S00				
inspect left front rover wheel/surface interface													
mhli00262	left (port) front wheel												
	manual focus	intended distance to wheel-surface interface: ~112 cm											
	3413MH0002620001201200E01	1200	12660	~113	~111	~-27	~50	~400	~135	1608	1198	~64	~48

last update: 16_March_2022

Sol 3415 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Oosta													
mhli00190	**context view**	intended standoff - 25 cm											
	3415MH0001900011201212C00	1212	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00173	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3415MH0001730011201214C00	1214	14052	6.5	4.6	-0.2	0.1	29.8	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3415MH0001930001201247R00		*range map product:*			3415MH0001930001201248S00				
mhli00173	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3415MH0001730011201224C00	1224	14052	6.5	4.6	-0.2	0.1	29.8	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3415MH0001930001201245R00		*range map product:*			3415MH0001930001201246S00				
mhli00311	**high resolution view**	intended standoff - 2 cm											
	3415MH0003110011201234C00	1234	14807	3.5	1.6	-0.1	0.1	19.2	0.2	1608	1198	3.1	2.3
	corresponding focus merge products:	*best focus product:*		3415MH0001930001201243R00		*range map product:*			3415MH0001930001201244S00				

last update: 18_March_2022

Sol 3417 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Knott													
mhli00190	**context view**	intended standoff - 25 cm											
	3417MH0001900011201250C00	1250	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00297	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3417MH0002970011201252C00	1252	14046	6.6	4.7	-0.2	0.1	30.0	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3417MH0001930001201285R00		*range map product:*			3417MH0001930001201286S00				
mhli00297	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3417MH0002970011201262C00	1262	14049	6.5	4.6	-0.2	0.1	29.9	0.5	1608	1198	4.8	3.6
	corresponding focus merge products:	*best focus product:*		3417MH0001930001201283R00		*range map product:*			3417MH0001930001201284S00				
mhli00419	**high resolution view**	intended standoff - 1 cm											
	3417MH0004190011201272C00	1272	15272	2.5	0.6	0.0	0.1	15.8	0.2	1608	1198	2.5	1.9
	corresponding focus merge products:	*best focus product:*		3417MH0001930001201281R00		*range map product:*			3417MH0001930001201282S00				

last update: 15_September_2022

Sol 3419 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Blackadder - 9x1 mosaic from 5 cm standoff													
mhli00148	**context view**	**intended standoff - 10 cm**											
	3419MH0001480011201288C00	1288	13501	11.8	9.9	-0.4	0.4	48.6	1.4	1608	1198	7.8	5.8
mhli00173	**medium-resolution stereo-1**	**intended standoff - 5 cm**											
	APXS raster spot 2; position 1 of 9												
	3419MH0001730011201290C00	1290	14000	6.8	4.9	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201419R00				*range map product:*	3420MH0004490001201420S00				
mhli00173	**medium-resolution stereo-2**	**intended standoff - 5 cm**											
	APXS raster spot 2; position 1 of 9												
	3419MH0001730011201300C00	1300	13999	6.9	5.0	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201417R00				*range map product:*	3420MH0004490001201418S00				
mhli00743	**high resolution view**	**intended standoff - 1 cm**											
	APXS raster spot 2												
	3419MH0000743001201310C00	1310	15114	2.8	0.9	-0.1	0.1	16.8	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201415R00				*range map product:*	3420MH0004490001201416S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	APXS raster spot 1; position 2 of 9												
	3419MH0001730011201320C00	1320	14003	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201413R00				*range map product:*	3420MH0004490001201414S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	position 9 of 9												
	3419MH0001730011201330C00	1330	14194	5.7	3.8	-0.1	0.1	27.0	0.4	1608	1198	4.3	3.2
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201411R00				*range map product:*	3420MH0004490001201412S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	position 8 of 9												
	3419MH0001730011201340C00	1340	14153	5.9	4.0	-0.1	0.1	27.8	0.5	1608	1198	4.5	3.3
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201409R00				*range map product:*	3420MH0004490001201410S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	position 7 of 9												
	3419MH0001730011201350C00	1350	13992	6.9	5.0	-0.2	0.2	31.2	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201407R00				*range map product:*	3420MH0004490001201408S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	position 6 of 9												
	3419MH0001730011201360C00	1360	14107	6.2	4.3	-0.1	0.1	28.7	0.5	1608	1198	4.6	3.4
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201405R00				*range map product:*	3420MH0004490001201406S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	position 5 of 9												
	3419MH0001730011201370C00	1370	14084	6.3	4.4	-0.1	0.1	29.2	0.5	1608	1198	4.7	3.5
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201403R00				*range map product:*	3420MH0004490001201404S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	position 4 of 9												
	3419MH0001730011201380C00	1380	14001	6.8	4.9	-0.2	0.2	31.0	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201401R00				*range map product:*	3420MH0004490001201402S00				
mhli00173	**medium-resolution view**	**intended standoff - 5 cm**											
	position 3 of 9												
	3419MH0001730011201390C00	1390	14002	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3420MH0004490001201399R00				*range map product:*	3420MH0004490001201400S00				

last update: 23_March_2022

Sol 3421 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Calder - before DRT													
mhli00197	**context view**	intended standoff - 25 cm											
	3421MH0001970011201422C00	1422	13031	25.7	23.8	-1.7	1.9	97.3	6.2	1608	1198	15.7	11.7
mhli00152	**medium-resolution stereo-1**	intended standoff - 5 cm											
	APXS raster spot 1												
	3421MH0001520011201424C00	1424	14005	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3421MH0001530001201469R00		*range map product:*			3421MH0001530001201470S00				
mhli00152	**medium-resolution stereo-2**	intended standoff - 5 cm											
	APXS raster spot 1												
	3421MH0001520011201434C00	1434	14004	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3421MH0001530001201467R00		*range map product:*			3421MH0001530001201468S00				
mhli00796	**high resolution view**	intended standoff - 1 cm											
	APXS raster spot 1												
	3421MH0007960011201444C00	1444	15123	2.8	0.9	-0.1	0.1	16.7	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3421MH0001530001201465R00		*range map product:*			3421MH0001530001201466S00				
mhli00152	**medium-resolution view**	intended standoff - 5 cm											
	APXS raster spot 2												
	3421MH0001520011201454C00	1454	14007	6.8	4.9	-0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3421MH0001530001201463R00		*range map product:*			3421MH0001530001201464S00				

last update: 23_March_2022

Sol 3422 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.
Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.
Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.
Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Calder - after DRT													
mhli00190	**context view**	intended standoff - 25 cm											
	3422MH0001900011201472C00	1472	13019	26.4	24.5	-1.8	2.0	99.8	6.6	1608	1198	16.1	12.0
mhli00152	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3422MH0001520011201474C00	1474	14012	6.8	4.9	-0.2	0.2	30.7	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3422MH0001710001201564R00				*range map product:*	3422MH0001710001201565S00				
mhli00152	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3422MH0001520011201484C00	1484	14008	6.8	4.9	-0.2	0.2	30.8	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3422MH0001710001201562R00				*range map product:*	3422MH0001710001201563S00				
mhli00796	**high resolution view**	intended standoff - 1 cm											
	3422MH0007960011201494C00	1494	15138	2.8	0.9	-0.1	0.1	16.6	0.2	1608	1198	2.7	2.0
	corresponding focus merge products:	*best focus product:*		3422MH0001710001201560R00				*range map product:*	3422MH0001710001201561S00				
target named Scandal_Beck													
mhli00190	**context view**	intended standoff - 25 cm											
	3422MH0001900011201504C00	1504	13028	25.9	24.0	-1.7	1.9	98.0	6.3	1608	1198	15.8	11.7
mhli00782	**intermediate-resolution view**	intended standoff - 15 cm											
	3422MH0007820011201506C00	1506	13293	15.9	14.0	-0.7	0.7	62.7	2.4	1608	1198	10.1	7.5
	corresponding focus merge products:	*best focus product:*		3422MH0001710001201558R00				*range map product:*	3422MH0001710001201559S00				
target named Ashkirk													
mhli00190	**context view**	intended standoff - 25 cm											
	3422MH0001900011201517C00	1517	13012	26.8	24.9	-1.8	2.0	101.3	6.8	1608	1198	16.3	12.1
mhli00224	**medium-resolution stereo-1**	intended standoff - 5 cm											
	3422MH0002240011201519C00	1519	13988	6.9	5.0	-0.2	0.2	31.3	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3422MH0001710001201556R00				*range map product:*	3422MH0001710001201557S00				
mhli00224	**medium-resolution stereo-2**	intended standoff - 5 cm											
	3422MH0002240011201529C00	1529	13970	7.0	5.1	-0.2	0.2	31.7	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3422MH0001710001201554R00				*range map product:*	3422MH0001710001201555S00				
mhli00307	**high resolution view**	intended standoff - 2.5 cm											
	3422MH0003070011201539C00	1539	14461	4.6	2.7	-0.1	0.1	23.0	0.3	1608	1198	3.7	2.8
	corresponding focus merge products:	*best focus product:*		3422MH0001710001201552R00				*range map product:*	3422MH0001710001201553S00				
target named Breakyneck													
mhli00619	**context view stereo-1**	intended standoff - 25 cm											
	3422MH0006190011201549C00	1549	13022	26.2	24.3	-1.7	2.0	99.2	6.5	1608	1198	16.0	11.9
mhli00619	**context view stereo-2**	intended standoff - 25 cm											
	3422MH0006190011201551C00	1551	13020	26.3	24.4	-1.7	2.0	99.6	6.5	1608	1198	16.0	11.9

last update: 25_March_2022

Sol 3423 - MAHLI Image Range & Scale Information*

*Note that other images might have been acquired; this table does not describe all images; it describes each camera positioning.

Working distance is a photography term; it is the range from the MAHLI front lens element (sapphire window) to the target.

Standoff distance is measured from the plane defined by the tips of the MAHLI contact sensor probes to the target.

Range, Scale, and DOF are computed from Motor Count using the equations from version 2 of Edgett et al. (2015, https://doi.org/10.13140/RG.2.1.3798.5447).

Sequence	Image ID*	MSL:CAMERA_PRODUCT_ID (CDPID)	Motor Count	Range or Working Distance from motor mount (cm)	Standoff (MAHLI Toolframe +X) from motor count (cm)	Depth of Field estimate		Pixel Scale (µm/pixel)	Pixel Scale uncertainty (± µm/pixel)	Illuminated Pixels on CCD (approximate)		Image Dimensions (cm) (approximate)	
						near (cm)	far (cm)			horiz-ontal	vertical	horizontal (CCD columns)	vertical (CCD rows)
target named Redscarhead													
mhli00190	**context view**	**intended standoff - 25 cm**											
	3423MH0001900011201567C00	1567	13014	26.7	24.8	-1.8	2.0	100.9	6.7	1608	1198	16.2	12.1
mhli00224	**medium-resolution stereo-1**	**intended standoff - 5 cm**											
	3423MH0002240011201569C00	1569	13979	7.0	5.1	-0.2	0.2	31.5	0.6	1608	1198	5.1	3.8
	corresponding focus merge products:	*best focus product:*		3424MH0002270001201626R00		*range map product:*			3424MH0002270001201627S00				
mhli00224	**medium-resolution stereo-2**	**intended standoff - 5 cm**											
	3423MH0002240011201579C00	1579	13984	7.0	5.1	-0.2	0.2	31.4	0.6	1608	1198	5.0	3.8
	corresponding focus merge products:	*best focus product:*		3424MH0002270001201624R00		*range map product:*			3424MH0002270001201625S00				
target named Breakyneck													
mhli00297	**medium-resolution stereo-1**	**intended standoff - 5 cm**											
	3423MH0002970011201589C00	1589	14002	6.8	4.9	-0.2	0.2	30.9	0.6	1608	1198	5.0	3.7
	corresponding focus merge products:	*best focus product:*		3424MH0002270001201622R00		*range map product:*			3424MH0002270001201623S00				
mhli00297	**medium-resolution stereo-2**	**intended standoff - 5 cm**											
	3423MH0002970011201599C00	1599	14016	6.7	4.8	-0.2	0.2	30.6	0.5	1608	1198	4.9	3.7
	corresponding focus merge products:	*best focus product:*		3424MH0002270001201620R00		*range map product:*			3424MH0002270001201621S00				
mhli00523	**high resolution view**	**intended standoff - 1 cm**											
	3423MH0005230011201609C00	1609	15164	2.7	0.8	0.0	0.1	16.4	0.2	1608	1198	2.6	2.0
	corresponding focus merge products:	*best focus product:*		3424MH0002270001201618R00		*range map product:*			3424MH0002270001201619S00				

5 Focus merge product information

5.1 Purpose and description

The MAHLI *Focus Merge Product Information Sheets* provide information about the best focus and range map products created by focus merges performed onboard the MAHLI instrument.

The information includes:

1. thumbnail images representing the appearance of each best focus and range map product;
2. a brief title or description of the image target and purpose;
3. the Sol and date (UTC) that the merged parent images were acquired;
4. the Sol on which the focus merge took place,
5. image IDs for the focus merge products and a corresponding full-frame image;
6. the MAHLI command sequence that acquired the parent images and the command sequence that created the focus merge products;
7. the commanded stack depth; that is, the number of parent images acquired in a given focus stack;
8. the type of focus stack (relative or absolute; see definitions in **Section 7**);
9. a list of the thumbnail image IDs for the parent images acquired in the focus stack (because, in some cases, these are the only versions of the focus stack images that are received on Earth);
10. the focus position (stepper motor count) for each parent image in the focus stack;
11. the range and range uncertainty determined from the focus position (motor count) of each parent image; and
12. the grayscale DN value corresponding to each parent image motor count and range in the focus merge range map product.

Further, for each parent image, the *Focus Merge Product Information Sheets* state whether any of the full-size images (Individual Focus Stack Images) were received on Earth, listing:

13. the image ID of the full-size parent or child image, if received on Earth;
14. the date on which the full-size image was received (applicable only to *Focus Merge Product Information Sheets* for the period between Sol 0 and 946 after that, with the exception of Sol 930, this practice was abandoned as unnecessary);
15. the compression quality of the best version of the image, if received on Earth (this practice was later abandoned as unnecessary); and

16. a statement regarding the fate of parent images not received on Earth; that is, the Sol on which the parent was deleted from the data storage inside the instrument's digital electronics assembly (DEA).

Each MAHLI *Focus Merge Product Information Sheet* is identified by the Sol on which the parent images were acquired. The onboard merge, in some cases, might have been performed on a later sol.

The parent images identified in rows that are colored orange, if they have a corresponding DN value in a yellow-colored column, are those that participated in the creation of the focus merge product. In other words, those that are in white rows (for which there is a corresponding DN in the yellow column) had no in-focus elements and thus were not incorporated into the merged product, even if they had been commanded to be merged. Which images were commanded to be merged can be determined by the yellow-colored column that indicates the corresponding DN values in the range map image product; for cases in which the commanded focus stack depth is > 8, the corresponding DN values (yellow-colored column) will indicate the 8 commanded to be merged (the instrument cannot merge > 8 but it can acquire > 8 images in a focus stack).

In cases in which the focus stack parent images were returned to Earth, the data user has the option to perform a new focus merge using software approaches available on Earth, now or in the future, which might outperform the MAHLI onboard algorithm. The user also has the opportunity, in these cases, to improve each parent image before performing the merge (*e.g.*, remove blemishes, perform flat field correction, etc.).

When a > 8 image focus stack has been acquired, the orange-colored rows can *also* indicate recommendations for images that would contain in-focus elements and could be added to a future focus merge product, whether performed onboard MAHLI or Earth after receipt of the full-size images. Those images that are recommended, but were not merged onboard, have no "Corresponding DN in Range Map" in the yellow, rightmost columns of the *Focus Merge Product Information Sheets.*

For the Sol 3290–3423 period, focus stacks that were merged onboard the instrument were acquired on **Sols 3313, 3315, 3316, 3319, 3321, 3323, 3326, 3328, 3344, 3347, 3349, 3362, 3364, 3371, 3374, 3376, 3378, 3381, 3383, 3385, 3387, 3388, 3392, 3395, 3396, 3398, 3409, 3413, 3415, 3417, 3419, 3421, 3422, 3423**. Unless otherwise stated, the onboard focus merges performed during this period were all of the "basic" type (see Edgett *et al.* 2012; Edgett *et al.* 2015).

5.2 Formulae

5.2.1 Range

When acquiring a focus stack, the MAHLI camera head is held in a fixed position. This means that the working distance (d_w) — and corresponding standoff distance (d_s) — is constant (see **Section 5.2.5**). However, each image acquired in a focus stack is done so at a different focus position; that is, a different stepper motor count position (m_{open} or m_{closed}; usually m_{open}). That motor count is related to the range (r_{fm}) between the front lens element of the camera and the in-focus elements of the image by the same empirical formula (**Equation 1**) as applied to determine working distance from motor count. In centimeters,

$r_{fm} = (a m_{open}^{-1} + b + c m_{open} + d m_{open}^{2} + e m_{open}^{3})^{-1}$, (12)

in which $a = 0.576786$, $b = -11.8479$, $c = 2.80153\times10^{-3}$, $d = -2.266488\times10^{-7}$, and $e = 6.26666\times10^{-12}$.

For each parent image in a given focus stack, this range is given in the green-colored column on the right side of each MAHLI *Focus Merge Product Information Sheet*.

5.2.2 Range uncertainty estimate

The uncertainty ($\pm r_{uncertainty}$, in centimeters) in the computed range (r_{fm}) is estimated using depth of field as related to the corresponding range (via motor count; **Equation 12**) for each merged parent image. The range uncertainty estimate is noted in the light green column on the lower right side of each MAHLI *Focus Merge Product Information Sheet*.

Focus Merge Product Information Sheets in which the relevant column is labeled "Estimated Range Uncertainty"

For MAHLI *Focus Merge Product Information Sheets* created before Sol 942, our estimate of range uncertainty was based on the older (Edgett *et al.* 2013) depth of field equations described in **Section 4.2.3**, **Equations 4, 5, and 6**, in which we substituted r_{fm} for d_w.

Focus Merge Product Information Sheets in which the relevant column is labeled "Depth of Field"

For MAHLI *Focus Merge Product Information Sheets* created starting with Sol 942, we used the refined knowledge of MAHLI depth of field, described by Edgett *et al.* (2015) and in **Equation 7** of **Section 4.2.3** to determine d_{far} and d_{near} for each focus stack parent image motor count. The resulting range uncertainty estimate ($\pm r_{uncertainty}$, in centimeters) reported in the light green column on the lower right side of the corresponding *Focus Merge Product Information Sheet* is estimated by the average of the absolute values of d_{far} and d_{near}:

$\pm r_{uncertainty} = ((-d_{near}) + d_{far})/2.$ (13)

Alternatively, particularly after Sol 1000, the depth of field is reported in the form of both the near and far (d_{far} and d_{near}) depths of field, per **Equation 7**.

5.2.3 Corresponding DN in range map product

Focus merge range map products created onboard MAHLI are returned as grayscale JPEG compressed images. The pixel values (DN) range from 0 to 255. These are assigned by the onboard software on the basis of commanded focus stack depth. The table below, from Edgett *et al.* (2015), shows the relationship between each image commanded to be focus merged and its corresponding grayscale DN value in a MAHLI range map product. In other words, if the instrument is commanded to merge eight images, DN values are assigned according to the second column in the table; if commanded to merge only four images, the corresponding DN values are those in the sixth column. Thus, each DN in a range map product can be related to a motor count position and a corresponding range via linear interpolation between these values.

Relation between commanded image participant in an onboard MAHLI focus merge and range map grayscale data value (DN)							
image commanded to be merged	**DN for 8-image merge**	**DN for 7-image merge**	**DN for 6-image merge**	**DN for 5-image merge**	**DN for 4-image merge**	**DN for 3-image merge**	**DN for 2-image merge**
1st	255	255	255	255	255	255	255
2nd	223	218	212	204	191	170	127
3rd	191	182	170	153	127	84	—
4th	159	145	127	102	63	—	—
5th	127	109	84	51	—	—	—
6th	95	72	42	—	—	—	—
7th	63	36	—	—	—	—	—
8th	31	—	—	—	—	—	—

5.2.4 Determination of which parent images participated in a given focus merge product (orange rows)

Focus merge parent images in the orange-colored rows on each of the *Focus Merge Product Information Sheets* are an indicator of the images that were actually merged. A merge of up to 8 images might be commanded, but perhaps only 3, 4, or 5 of them actually exhibit in-focus elements the get incorporated into the best focus image product.

As discussed by Edgett *et al.* (2015), the parent images that were actually merged, relative to the number commanded to be merged (indicated by the number of yellow-colored rows regarding the corresponding DN in the range map products on the right side of each *Focus Merge Product Information Sheet*), are determined by the range of grayscale DN, between 0 and 255, in the focus merge range map product. For example, if the DN range of this product is 91 to 138, then only three of 8 images commanded to be merged participated in that merge, per the DN values corresponding to an 8-image focus merge, per the table above.

5.2.5 Camera working distance and standoff distance

For a given focus stack, the distance between the MAHLI camera head and an imaged target can be determined from a corresponding image acquired via autofocusing (assuming the autofocus effort found focus). In other words, while the range between the camera and the in-focus elements of a parent image are captured by the individual parent images in the focus stack (**Section 5.2.1**), the camera acquired the stack from a fixed working distance. On the MAHLI *Focus Merge Product Information Sheets*, the corresponding autofocused image, and its stepper motor count focus position, are stated on the left side of the sheet, beneath the thumbnail images, in rows and columns colored light blue.

For some *Focus Merge Product Information Sheets*, the working distance (d_w) and standoff distance (d_s) are provided in these blue rows and columns. These were computed from the motor count position using the same formulae for d_w and d_s described in **Section 4.2** (**Equations 1 and 3**, respectively). Where these values are not given, the data user can apply **Equations 1 and 3** to the motor count, or use the corresponding full-frame image ID to identify the working distance and standoff distance using the *Range and Scale Information Sheets* for that Sol. We began to regularly provide a result for d_w and d_s starting with Sol 694; before that, the cases in which these

values are not given are a reflection of the evolution of the production and content of the MAHLI *Focus Merge Product Information Sheets* over time.

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Sol 3313 - MAHLI Onboard Focus Merge Product Information


target Camusnagaul - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3313MH0002240011104060C00				
best focus image:	3313MH0001930001104093R00	4093	motor count:	13944	range (cm):	7.2		
range map product:	3313MH0001930001104094S00	4094	acquired sequence:	mhli00224	stack type:	Relative		
acquired on date:	1-Dec-21		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	42	acquired on sol:	3313	focus merged on sol:	3313			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3313MH0002240021104061C00	4061	13776	8.59	-0.2	0.2	37.1	0.8	255	1
3313MH0002240021104062C00	4062	13818	8.21	-0.2	0.2	35.8	0.8	223	2
3313MH0002240021104063C00	4063	13860	7.86	-0.2	0.2	34.6	0.7	191	3
3313MH0002240021104064C00	4064	13902	7.53	-0.2	0.2	33.4	0.7	159	4
3313MH0002240021104065C00	4065	13944	7.23	-0.2	0.2	32.3	0.6	127	5
3313MH0002240021104066C00	4066	13986	6.94	-0.2	0.2	31.3	0.6	85	6
3313MH0002240021104067C00	4067	14028	6.66	-0.2	0.2	30.4	0.6	63	7
3313MH0002240021104068C00	4068	14070	6.41	-0.2	0.1	29.4	0.5	31	8

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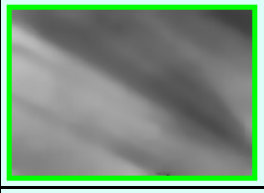
Sol 3313 - MAHLI Onboard Focus Merge Product Information

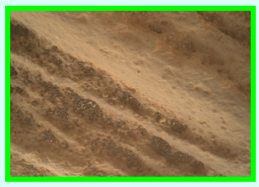
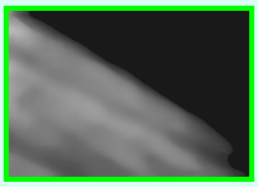
target Camusnagaul - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3313MH0002240011104070C00				
best focus image:	3313MH0001930001104091R00	4091	motor count:	13968	range (cm):	7.1		
range map product:	3313MH0001930001104092S00	4092	acquired sequence:	mhli00224	stack type:	Relative		
acquired on date:	1-Dec-21		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	42	acquired on sol:	3313	focus merged on sol:	3313			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3313MH0002240021104071C00	4071	13800	8.37	-0.2	0.2	36.4	0.8	255	1
3313MH0002240021104072C00	4072	13842	8.01	-0.2	0.2	35.1	0.7	223	2
3313MH0002240021104073C00	4073	13884	7.67	-0.2	0.2	33.9	0.7	191	3
3313MH0002240021104074C00	4074	13926	7.36	-0.2	0.2	32.8	0.6	159	4
3313MH0002240021104075C00	4075	13968	7.06	-0.2	0.2	31.7	0.6	127	5
3313MH0002240021104076C00	4076	14010	6.78	-0.2	0.2	30.8	0.6	85	6
3313MH0002240021104077C00	4077	14052	6.51	-0.2	0.1	29.8	0.5	63	7
3313MH0002240021104078C00	4078	14094	6.27	-0.1	0.1	29.0	0.5	31	8

updated: 01_December_2021

Sol 3313 - MAHLI Onboard Focus Merge Product Information

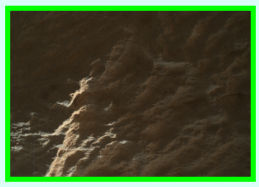
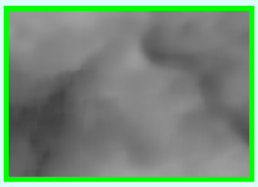
target Camusnagaul - ~1 cm standoff

			CDPID	corresponding frame:	3313MH0003860011104080C00			
best focus image:	3313MH0001930001104089R00		4089	motor count:	14888	range (cm):	3.3	
range map product:	3313MH0001930001104090S00		4090	acquired sequence:	mhli00386	stack type:	Relative	
acquired on date:	1-Dec-21			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	54	acquired on sol:	3313	focus merged on sol:	3313			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3313MH0003860021104081C00	4081	14672	3.87	-0.1	0.1	20.5	0.3	255	1
3313MH0003860021104082C00	4082	14726	3.71	-0.1	0.1	20.0	0.3	223	2
3313MH0003860021104083C00	4083	14780	3.56	-0.1	0.1	19.4	0.3	191	3
3313MH0003860021104084C00	4084	14834	3.42	-0.1	0.1	19.0	0.2	159	4
3313MH0003860021104085C00	4085	14888	3.29	-0.1	0.1	18.5	0.2	127	5
3313MH0003860021104086C00	4086	14942	3.17	-0.1	0.1	18.0	0.2	85	6
3313MH0003860021104087C00	4087	14996	3.05	-0.1	0.1	17.6	0.2	63	7
3313MH0003860021104088C00	4088	15050	2.93	-0.1	0.1	17.2	0.2	31	8

updated: 06_December_2021

Sol 3315 - MAHLI Onboard Focus Merge Product Information

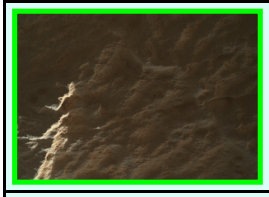
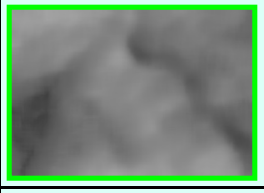
target Yarrow_Stone - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3315MH0006990011104103C00			
best focus image:	3315MH0001930001104161R00	4161	motor count:	13967	range (cm):	7.1	
range map product:	3315MH0001930001104162S00	4162	acquired sequence:	mhli00699	stack type:	Relative	
acquired on date:	3-Dec-21		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	30	acquired on sol:	3315	focus merged on sol:	3315		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3315MH0006990031104105C00	4105	13847	7.97	-0.2	0.2	34.9	0.7	255	1
3315MH0006990031104106C00	4106	13877	7.73	-0.2	0.2	34.1	0.7	223	2
3315MH0006990031104107C00	4107	13907	7.50	-0.2	0.2	33.3	0.7	191	3
3315MH0006990031104108C00	4108	13937	7.28	-0.2	0.2	32.5	0.6	159	4
3315MH0006990031104109C00	4109	13967	7.07	-0.2	0.2	31.8	0.6	127	5
3315MH0006990031104110C00	4110	13997	6.86	-0.2	0.2	31.1	0.6	85	6
3315MH0006990031104111C00	4111	14027	6.67	-0.2	0.2	30.4	0.6	63	7
3315MH0006990031104112C00	4112	14057	6.48	-0.2	0.1	29.7	0.5	31	8

updated: 06_December_2021

Sol 3315 - MAHLI Onboard Focus Merge Product Information

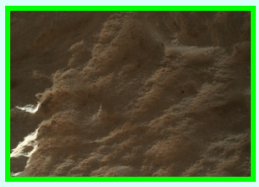
target Yarrow_Stone - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3315MH0006990011104114C00			
best focus image:	3315MH0001930001104159R00	4159	motor count:	13967	range (cm):	7.1	
range map product:	3315MH0001930001104160S00	4160	acquired sequence:	mhli00699	stack type:	Relative	
acquired on date:	3-Dec-21		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	30	acquired on sol:	3315	focus merged on sol:	3315		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3315MH0006990031104116C00	4116	13847	7.97	-0.2	0.2	34.9	0.7	255	1
3315MH0006990031104117C00	4117	13877	7.73	-0.2	0.2	34.1	0.7	223	2
3315MH0006990031104118C00	4118	13907	7.50	-0.2	0.2	33.3	0.7	191	3
3315MH0006990031104119C00	4119	13937	7.28	-0.2	0.2	32.5	0.6	159	4
3315MH0006990031104120C00	4120	13967	7.07	-0.2	0.2	31.8	0.6	127	5
3315MH0006990031104121C00	4121	13997	6.86	-0.2	0.2	31.1	0.6	85	6
3315MH0006990031104122C00	4122	14027	6.67	-0.2	0.2	30.4	0.6	63	7
3315MH0006990031104123C00	4123	14057	6.48	-0.2	0.1	29.7	0.5	31	8

updated: 06_December_2021

Sol 3315 - MAHLI Onboard Focus Merge Product Information



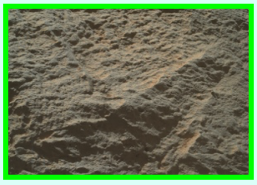
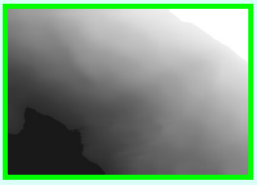

target Yarrow_Stone - ~2 cm standoff

		CDPID	corresponding frame:	3315MH0008000011104125C00			
best focus image:	3315MH0001930001104157R00	4157	motor count:	14601	range (cm):	4.1	
range map product:	3315MH0001930001104158S00	4158	acquired sequence:	mhli00800	stack type:	Relative	
acquired on date:	3-Dec-21		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	54	acquired on sol:	3315	focus merged on sol:	3315		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3315MH0008000031104127C00	4127	14385	4.86	-0.1	0.1	24.0	0.4	255	1
3315MH0008000031104128C00	4128	14439	4.65	-0.1	0.1	23.3	0.3	223	2
3315MH0008000031104129C00	4129	14493	4.45	-0.1	0.1	22.6	0.3	191	3
3315MH0008000031104130C00	4130	14547	4.26	-0.1	0.1	21.9	0.3	159	4
3315MH0008000031104131C00	4131	14601	4.08	-0.1	0.1	21.3	0.3	127	5
3315MH0008000031104132C00	4132	14655	3.92	-0.1	0.1	20.7	0.3	85	6
3315MH0008000031104133C00	4133	14709	3.76	-0.1	0.1	20.1	0.3	63	7
3315MH0008000031104134C00	4134	14763	3.61	-0.1	0.1	19.6	0.3	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information

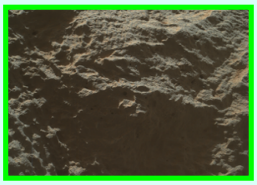
target Whaligoe_Steps - mosaic position 1 of 9 - ~15 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104164C00				
best focus image:	3318MH0004400001104362R00	4362	motor count:	13254	range (cm):	16.9		
range map product:	3318MH0004400001104363S00	4363	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104166C00	4166	13110	21.78	-1.2	1.3	83.6	4.5	255	1
3316MH0008360031104167C00	4167	13146	20.34	-1.1	1.2	78.5	3.9	223	2
3316MH0008360031104168C00	4168	13182	19.05	-1.0	1.0	74.0	3.4	191	3
3316MH0008360031104169C00	4169	13218	17.90	-0.8	0.9	69.9	3.0	159	4
3316MH0008360031104170C00	4170	13254	16.87	-0.8	0.8	66.3	2.7	127	5
3316MH0008360031104171C00	4171	13290	15.93	-0.7	0.7	63.0	2.4	85	6
3316MH0008360031104172C00	4172	13326	15.08	-0.6	0.6	60.0	2.2	63	7
3316MH0008360031104173C00	4173	13362	14.30	-0.6	0.6	57.2	2.0	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information



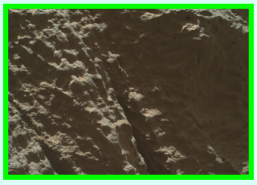

target Whaligoe_Steps - mosaic position 2 of 9 - ~13 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104175C00				
best focus image:	3318MH0004400001104360R00	4360	motor count:	13357	range (cm):	14.4		
range map product:	3318MH0004400001104361S00	4361	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104177C00	4177	13213	18.05	-0.9	0.9	70.4	3.1	255	1
3316MH0008360031104178C00	4178	13249	17.00	-0.8	0.8	66.8	2.8	223	2
3316MH0008360031104179C00	4179	13285	16.05	-0.7	0.7	63.4	2.5	191	3
3316MH0008360031104180C00	4180	13321	15.19	-0.6	0.6	60.4	2.2	159	4
3316MH0008360031104181C00	4181	13357	14.40	-0.6	0.6	57.6	2.0	127	5
3316MH0008360031104182C00	4182	13393	13.68	-0.5	0.5	55.1	1.8	85	6
3316MH0008360031104183C00	4183	13429	13.02	-0.5	0.5	52.7	1.7	63	7
3316MH0008360031104184C00	4184	13465	12.40	-0.4	0.4	50.6	1.5	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information



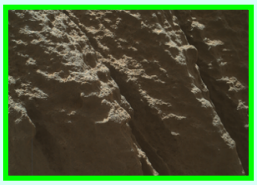

target Whaligoe_Steps - mosaic position 3 of 9 - ~12 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104186C00				
best focus image:	3318MH0004400001104358R00	4358	motor count:	13360	range (cm):	14.3		
range map product:	3318MH0004400001104359S00	4359	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104188C00	4188	13216	17.96	-0.9	0.9	70.1	3.1	255	1
3316MH0008360031104189C00	4189	13252	16.92	-0.8	0.8	66.5	2.7	223	2
3316MH0008360031104190C00	4190	13288	15.98	-0.7	0.7	63.1	2.4	191	3
3316MH0008360031104191C00	4191	13324	15.12	-0.6	0.6	60.1	2.2	159	4
3316MH0008360031104192C00	4192	13360	14.34	-0.6	0.6	57.4	2.0	127	5
3316MH0008360031104193C00	4193	13396	13.62	-0.5	0.5	54.9	1.8	85	6
3316MH0008360031104194C00	4194	13432	12.96	-0.5	0.5	52.5	1.7	63	7
3316MH0008360031104195C00	4195	13468	12.35	-0.4	0.4	50.4	1.5	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information



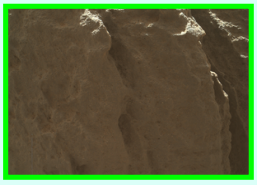

target Whaligoe_Steps - mosaic position 4 of 9 - ~11 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104197C00				
best focus image:	3318MH0004400001104356R00	4356	motor count:	13422	range (cm):	13.1		
range map product:	3318MH0004400001104357S00	4357	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104199C00	4199	13278	16.23	-0.7	0.7	64.0	2.5	255	1
3316MH0008360031104200C00	4200	13314	15.35	-0.6	0.7	60.9	2.3	223	2
3316MH0008360031104201C00	4201	13350	14.55	-0.6	0.6	58.1	2.0	191	3
3316MH0008360031104202C00	4202	13386	13.82	-0.5	0.5	55.5	1.9	159	4
3316MH0008360031104203C00	4203	13422	13.14	-0.5	0.5	53.2	1.7	127	5
3316MH0008360031104204C00	4204	13458	12.52	-0.4	0.4	51.0	1.6	85	6
3316MH0008360031104205C00	4205	13494	11.94	-0.4	0.4	48.9	1.4	63	7
3316MH0008360031104206C00	4206	13530	11.41	-0.4	0.4	47.1	1.3	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information



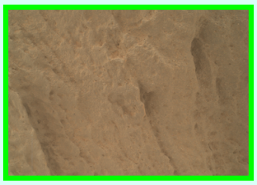
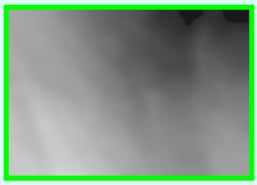

target Whaligoe_Steps - mosaic position 5 of 9 - ~10 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104208C00				
best focus image:	3318MH0004400001104354R00	4354	motor count:	13469	range (cm):	12.3		
range map product:	3318MH0004400001104355S00	4355	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104210C00	4210	13325	15.10	-0.6	0.6	60.0	2.2	255	1
3316MH0008360031104211C00	4211	13361	14.32	-0.6	0.6	57.3	2.0	223	2
3316MH0008360031104212C00	4212	13397	13.60	-0.5	0.5	54.8	1.8	191	3
3316MH0008360031104213C00	4213	13433	12.94	-0.5	0.5	52.5	1.6	159	4
3316MH0008360031104214C00	4214	13469	12.34	-0.4	0.4	50.3	1.5	127	5
3316MH0008360031104215C00	4215	13505	11.77	-0.4	0.4	48.3	1.4	85	6
3316MH0008360031104216C00	4216	13541	11.25	-0.4	0.4	46.5	1.3	63	7
3316MH0008360031104217C00	4217	13577	10.77	-0.3	0.3	44.8	1.2	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information

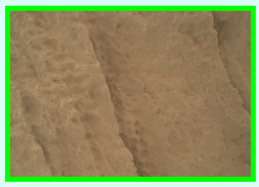
target Whaligoe_Steps - mosaic position 6 of 9 - ~12 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104219C00				
best focus image:	3318MH0004400001104352R00	4352	motor count:	13369	range (cm):	14.2		
range map product:	3318MH0004400001104353S00	4353	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104221C00	4221	13225	17.69	-0.8	0.9	69.2	3.0	255	1
3316MH0008360031104222C00	4222	13261	16.68	-0.7	0.8	65.6	2.7	223	2
3316MH0008360031104223C00	4223	13297	15.76	-0.7	0.7	62.4	2.4	191	3
3316MH0008360031104224C00	4224	13333	14.92	-0.6	0.6	59.4	2.1	159	4
3316MH0008360031104225C00	4225	13369	14.15	-0.6	0.6	56.7	1.9	127	5
3316MH0008360031104226C00	4226	13405	13.45	-0.5	0.5	54.3	1.8	85	6
3316MH0008360031104227C00	4227	13441	12.81	-0.5	0.5	52.0	1.6	63	7
3316MH0008360031104228C00	4228	13477	12.21	-0.4	0.4	49.9	1.5	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information



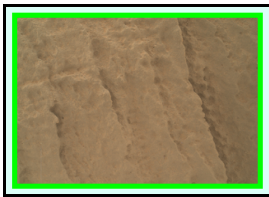

target Whaligoe_Steps - mosaic position 7 of 9 - ~14 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104230C00				
best focus image:	3318MH0004400001104350R00	4350	motor count:	13310	range (cm):	15.4		
range map product:	3318MH0004400001104351S00	4351	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104232C00	4232	13166	19.60	-1.0	1.1	75.9	3.6	255	1
3316MH0008360031104233C00	4233	13202	18.40	-0.9	0.9	71.7	3.2	223	2
3316MH0008360031104234C00	4234	13238	17.31	-0.8	0.8	67.8	2.9	191	3
3316MH0008360031104235C00	4235	13274	16.33	-0.7	0.7	64.4	2.5	159	4
3316MH0008360031104236C00	4236	13310	15.44	-0.6	0.7	61.3	2.3	127	5
3316MH0008360031104237C00	4237	13346	14.63	-0.6	0.6	58.4	2.1	85	6
3316MH0008360031104238C00	4238	13382	13.89	-0.5	0.5	55.8	1.9	63	7
3316MH0008360031104239C00	4239	13418	13.21	-0.5	0.5	53.4	1.7	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information



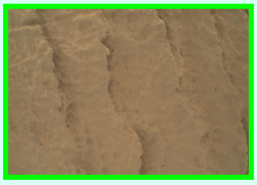

target Whaligoe_Steps - mosaic position 8 of 9 - ~14 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104241C00				
best focus image:	3318MH0004400001104348R00	4348	motor count:	13277	range (cm):	16.3		
range map product:	3318MH0004400001104349S00	4349	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104243C00	4243	13133	20.84	-1.1	1.2	80.3	4.1	255	1
3316MH0008360031104244C00	4244	13169	19.50	-1.0	1.1	75.5	3.6	223	2
3316MH0008360031104245C00	4245	13205	18.30	-0.9	0.9	71.3	3.2	191	3
3316MH0008360031104246C00	4246	13241	17.23	-0.8	0.8	67.5	2.8	159	4
3316MH0008360031104247C00	4247	13277	16.26	-0.7	0.7	64.1	2.5	127	5
3316MH0008360031104248C00	4248	13313	15.37	-0.6	0.7	61.0	2.3	85	6
3316MH0008360031104249C00	4249	13349	14.57	-0.6	0.6	58.2	2.0	63	7
3316MH0008360031104250C00	4250	13385	13.83	-0.5	0.5	55.6	1.9	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information




target Whaligoe_Steps - mosaic position 9 of 9 - ~16 cm standoff

		CDPID	corresponding frame:	3316MH0008360011104252C00				
best focus image:	3318MH0004400001104346R00	4346	motor count:	13225	range (cm):	17.7		
range map product:	3318MH0004400001104347S00	4347	acquired sequence:	mhli00836	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	36	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008360031104254C00	4254	13081	23.09	-1.4	1.5	88.2	5.0	255	1
3316MH0008360031104255C00	4255	13117	21.49	-1.2	1.3	82.5	4.4	223	2
3316MH0008360031104256C00	4256	13153	20.08	-1.1	1.1	77.6	3.8	191	3
3316MH0008360031104257C00	4257	13189	18.82	-0.9	1.0	73.1	3.4	159	4
3316MH0008360031104258C00	4258	13225	17.69	-0.8	0.9	69.2	3.0	127	5
3316MH0008360031104259C00	4259	13261	16.68	-0.7	0.8	65.6	2.7	85	6
3316MH0008360031104260C00	4260	13297	15.76	-0.7	0.7	62.4	2.4	63	7
3316MH0008360031104261C00	4261	13333	14.92	-0.6	0.6	59.4	2.1	31	8

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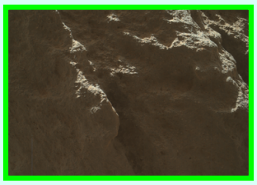
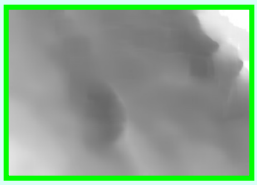
Sol 3316 - MAHLI Onboard Focus Merge Product Information

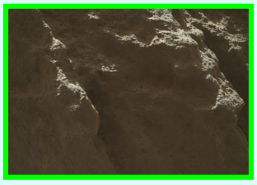
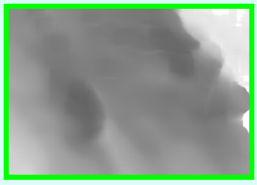
target Whaligoe_Steps - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3316MH0007080011104266C00				
best focus image:	3318MH0004400001104344R00	4344	motor count:	13988	range (cm):	6.9		
range map product:	3318MH0004400001104345S00	4345	acquired sequence:	mhli00708	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	60	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0007080031104268C00	4268	13748	8.85	-0.2	0.2	38.0	0.8	255	1
3316MH0007080031104269C00	4269	13808	8.30	-0.2	0.2	36.1	0.8	223	2
3316MH0007080031104270C00	4270	13868	7.80	-0.2	0.2	34.4	0.7	191	3
3316MH0007080031104271C00	4271	13928	7.34	-0.2	0.2	32.7	0.6	159	4
3316MH0007080031104272C00	4272	13988	6.92	-0.2	0.2	31.3	0.6	127	5
3316MH0007080031104273C00	4273	14048	6.54	-0.2	0.1	29.9	0.5	85	6
3316MH0007080031104274C00	4274	14108	6.18	-0.1	0.1	28.7	0.5	63	7
3316MH0007080031104275C00	4275	14168	5.86	-0.1	0.1	27.5	0.4	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information

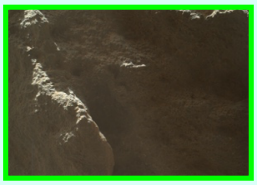
target Whaligoe_Steps - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3316MH0007080011104277C00			
best focus image:	3318MH0004400001104342R00		4342	motor count:	13981	range (cm):	7.0	
range map product:	3318MH0004400001104343S00		4343	acquired sequence:	mhli00708	stack type:	Relative	
acquired on date:	4-Dec-21			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	60	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0007080031104279C00	4279	13741	8.92	-0.3	0.2	38.3	0.9	255	1
3316MH0007080031104280C00	4280	13801	8.36	-0.2	0.2	36.3	0.8	223	2
3316MH0007080031104281C00	4281	13861	7.85	-0.2	0.2	34.5	0.7	191	3
3316MH0007080031104282C00	4282	13921	7.39	-0.2	0.2	32.9	0.6	159	4
3316MH0007080031104283C00	4283	13981	6.97	-0.2	0.2	31.4	0.6	127	5
3316MH0007080031104284C00	4284	14041	6.58	-0.2	0.2	30.1	0.5	85	6
3316MH0007080031104285C00	4285	14101	6.22	-0.1	0.1	28.8	0.5	63	7
3316MH0007080031104286C00	4286	14161	5.89	-0.1	0.1	27.6	0.4	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information



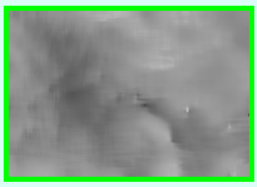

target Whaligoe_Steps - ~1 cm standoff

			CDPID	corresponding frame:	3316MH0008370011104288C00			
best focus image:	3318MH0004400001104340R00		4340	motor count:	15095	range (cm):	2.8	
range map product:	3318MH0004400001104341S00		4341	acquired sequence:	mhli00837	stack type:	Relative	
acquired on date:	4-Dec-21			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	96	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0008370031104290C00	4290	14711	3.75	-0.1	0.1	20.1	0.3	255	1
3316MH0008370031104291C00	4291	14807	3.49	-0.1	0.1	19.2	0.3	223	2
3316MH0008370031104292C00	4292	14903	3.26	-0.1	0.1	18.4	0.2	191	3
3316MH0008370031104293C00	4293	14999	3.04	-0.1	0.1	17.6	0.2	159	4
3316MH0008370031104294C00	4294	15095	2.84	-0.1	0.1	16.9	0.2	127	5
3316MH0008370031104295C00	4295	15191	2.66	-0.1	0.1	16.3	0.2	85	6
3316MH0008370031104296C00	4296	15287	2.50	0.0	0.1	15.7	0.2	63	7
3316MH0008370031104297C00	4297	15383	2.35	0.0	0.1	15.2	0.2	31	8

updated: 21_December_2021

Sol 3316 - MAHLI Onboard Focus Merge Product Information

target Laurentia - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3316MH0007630011104302C00				
best focus image:	3318MH0004400001104338R00	4338	motor count:	14028	range (cm):	6.7		
range map product:	3318MH0004400001104339S00	4339	acquired sequence:	mhli00763	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	24	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0007630031104304C00	4304	13932	7.31	-0.2	0.2	32.6	0.6	255	1
3316MH0007630031104305C00	4305	13956	7.14	-0.2	0.2	32.0	0.6	223	2
3316MH0007630031104306C00	4306	13980	6.98	-0.2	0.2	31.5	0.6	191	3
3316MH0007630031104307C00	4307	14004	6.82	-0.2	0.2	30.9	0.6	159	4
3316MH0007630031104308C00	4308	14028	6.66	-0.2	0.2	30.4	0.6	127	5
3316MH0007630031104309C00	4309	14052	6.51	-0.2	0.1	29.8	0.5	85	6
3316MH0007630031104310C00	4310	14076	6.37	-0.2	0.1	29.3	0.5	63	7
3316MH0007630031104311C00	4311	14100	6.23	-0.1	0.1	28.8	0.5	31	8

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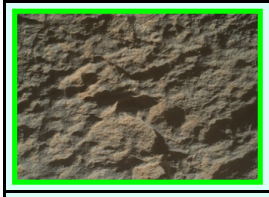
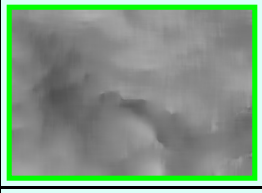
Sol 3316 - MAHLI Onboard Focus Merge Product Information

target Laurentia - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3316MH0007630011104313C00				
best focus image:	3318MH0004400001104336R00	4336	motor count:	14023	range (cm):	6.7		
range map product:	3318MH0004400001104337S00	4337	acquired sequence:	mhli00763	stack type:	Relative		
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	24	acquired on sol:	3316	focus merged on sol:	3318			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0007630031104315C00	4315	13927	7.35	-0.2	0.2	32.8	0.6	255	1
3316MH0007630031104316C00	4316	13951	7.18	-0.2	0.2	32.2	0.6	223	2
3316MH0007630031104317C00	4317	13975	7.01	-0.2	0.2	31.6	0.6	191	3
3316MH0007630031104318C00	4318	13999	6.85	-0.2	0.2	31.0	0.6	159	4
3316MH0007630031104319C00	4319	14023	6.70	-0.2	0.2	30.5	0.6	127	5
3316MH0007630031104320C00	4320	14047	6.55	-0.2	0.1	29.9	0.5	85	6
3316MH0007630031104321C00	4321	14071	6.40	-0.2	0.1	29.4	0.5	63	7
3316MH0007630031104322C00	4322	14095	6.26	-0.1	0.1	28.9	0.5	31	8

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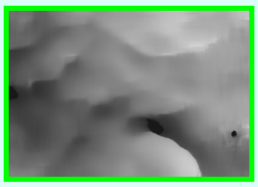
Sol 3316 - MAHLI Onboard Focus Merge Product Information



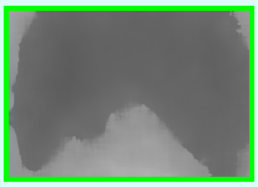
target Laurentia - ~1 cm standoff

		CDPID	corresponding frame:	3316MH0007940011104324C00			
best focus image:	3318MH0004400001104334R00	4334	motor count:	15184	range (cm):	2.7	
range map product:	3318MH0004400001104335S00	4335	acquired sequence:	mhli00794	stack type:	Relative	
acquired on date:	4-Dec-21		merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	48	acquired on sol:	3316	focus merged on sol:	3318		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3316MH0007940031104326C00	4326	14992	3.06	-0.1	0.1	17.7	0.2	255	1
3316MH0007940031104327C00	4327	15040	2.95	-0.1	0.1	17.3	0.2	223	2
3316MH0007940031104328C00	4328	15088	2.86	-0.1	0.1	17.0	0.2	191	3
3316MH0007940031104329C00	4329	15136	2.76	-0.1	0.1	16.6	0.2	159	4
3316MH0007940031104330C00	4330	15184	2.68	-0.1	0.1	16.3	0.2	127	5
3316MH0007940031104331C00	4331	15232	2.59	-0.1	0.1	16.0	0.2	85	6
3316MH0007940031104332C00	4332	15280	2.51	0.0	0.1	15.7	0.2	63	7
3316MH0007940031104333C00	4333	15328	2.43	0.0	0.1	15.5	0.2	31	8

updated: 21_December_2021

Sol 3319 - MAHLI Onboard Focus Merge Product Information

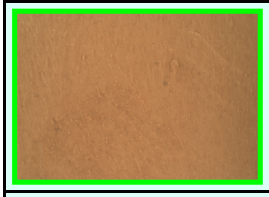
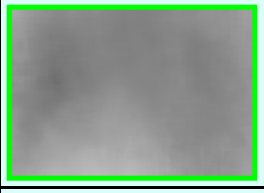
target Duirinish - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3319MH0001680011104367C00				
best focus image:	3319MH0001930001104400R00	4400	motor count:	14027	range (cm):	6.7		
range map product:	3319MH0001930001104401S00	4401	acquired sequence:	mhli00168	stack type:	Relative		
acquired on date:	7-Dec-21		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	18	acquired on sol:	3319	focus merged on sol:	3319			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3319MH0001680021104368C00	4368	13955	7.15	-0.2	0.2	32.1	0.6	255	1
3319MH0001680021104369C00	4369	13973	7.02	-0.2	0.2	31.6	0.6	223	2
3319MH0001680021104370C00	4370	13991	6.90	-0.2	0.2	31.2	0.6	191	3
3319MH0001680021104371C00	4371	14009	6.79	-0.2	0.2	30.8	0.6	159	4
3319MH0001680021104372C00	4372	14027	6.67	-0.2	0.2	30.4	0.6	127	5
3319MH0001680021104373C00	4373	14045	6.56	-0.2	0.1	30.0	0.5	85	6
3319MH0001680021104374C00	4374	14063	6.45	-0.2	0.1	29.6	0.5	63	7
3319MH0001680021104375C00	4375	14081	6.34	-0.2	0.1	29.2	0.5	31	8

updated: 21_December_2021

Sol 3319 - MAHLI Onboard Focus Merge Product Information

target Duirinish - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3319MH0001680011104377C00				
best focus image:	3319MH0001930001104398R00	4398	motor count:	14036	range (cm):	6.6		
range map product:	3319MH0001930001104399S00	4399	acquired sequence:	mhli00168	stack type:	Relative		
acquired on date:	7-Dec-21		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	18	acquired on sol:	3319	focus merged on sol:	3319			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3319MH0001680021104378C00	4378	13964	7.09	-0.2	0.2	31.8	0.6	255	1
3319MH0001680021104379C00	4379	13982	6.96	-0.2	0.2	31.4	0.6	223	2
3319MH0001680021104380C00	4380	14000	6.84	-0.2	0.2	31.0	0.6	191	3
3319MH0001680021104381C00	4381	14018	6.73	-0.2	0.2	30.6	0.6	159	4
3319MH0001680021104382C00	4382	14036	6.61	-0.2	0.2	30.2	0.5	127	5
3319MH0001680021104383C00	4383	14054	6.50	-0.2	0.1	29.8	0.5	85	6
3319MH0001680021104384C00	4384	14072	6.39	-0.2	0.1	29.4	0.5	63	7
3319MH0001680021104385C00	4385	14090	6.29	-0.1	0.1	29.0	0.5	31	8

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Sol 3319 - MAHLI Onboard Focus Merge Product Information


target Duirinish - ~1 cm standoff

		CDPID	corresponding frame:	3319MH0007430011104387C00			
best focus image:	3319MH0001930001104396R00	4396	motor count:	15189	range (cm):	2.7	
range map product:	3319MH0001930001104397S00	4397	acquired sequence:	mhli00743	stack type:	Relative	
acquired on date:	7-Dec-21		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	36	acquired on sol:	3319	focus merged on sol:	3319		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3319MH0007430021104388C00	4388	15045	2.94	-0.1	0.1	17.3	0.2	255	1
3319MH0007430021104389C00	4389	15081	2.87	-0.1	0.1	17.0	0.2	223	2
3319MH0007430021104390C00	4390	15117	2.80	-0.1	0.1	16.8	0.2	191	3
3319MH0007430021104391C00	4391	15153	2.73	-0.1	0.1	16.5	0.2	159	4
3319MH0007430021104392C00	4392	15189	2.67	-0.1	0.1	16.3	0.2	127	5
3319MH0007430021104393C00	4393	15225	2.60	-0.1	0.1	16.1	0.2	85	6
3319MH0007430021104394C00	4394	15261	2.54	-0.1	0.1	15.8	0.2	63	7
3319MH0007430021104395C00	4395	15297	2.48	0.0	0.1	15.6	0.2	31	8

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Sol 3321 - MAHLI Onboard Focus Merge Product Information

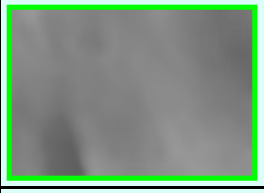

target Cladh_Hallan - after DRT - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3321MH0007230011104410C00			
best focus image:	3322MH0001930001104446R00		4446	motor count:	13980	range (cm):	7.0	
range map product:	3322MH0001930001104447S00		4447	acquired sequence:	mhli00723	stack type:	Relative	
acquired on date:	9-Dec-21			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	36	acquired on sol:	3321	focus merged on sol:	3322			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3321MH0007230031104412C00	4412	13836	8.06	-0.2	0.2	35.3	0.7	255	1
3321MH0007230031104413C00	4413	13872	7.77	-0.2	0.2	34.2	0.7	223	2
3321MH0007230031104414C00	4414	13908	7.49	-0.2	0.2	33.3	0.7	191	3
3321MH0007230031104415C00	4415	13944	7.23	-0.2	0.2	32.3	0.6	159	4
3321MH0007230031104416C00	4416	13980	6.98	-0.2	0.2	31.5	0.6	127	5
3321MH0007230031104417C00	4417	14016	6.74	-0.2	0.2	30.6	0.6	85	6
3321MH0007230031104418C00	4418	14052	6.51	-0.2	0.1	29.8	0.5	63	7
3321MH0007230031104419C00	4419	14088	6.30	-0.1	0.1	29.1	0.5	31	8

updated: 21_December_2021

Sol 3321 - MAHLI Onboard Focus Merge Product Information

target Cladh_Hallan - after DRT - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3321MH0007230011104421C00			
best focus image:	3322MH0001930001104444R00		4444	motor count:	13986	range (cm):	6.9	
range map product:	3322MH0001930001104445S00		4445	acquired sequence:	mhli00723	stack type:	Relative	
acquired on date:	9-Dec-21			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	36	acquired on sol:	3321	focus merged on sol:	3322			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3321MH0007230031104423C00	4423	13842	8.01	-0.2	0.2	35.1	0.7	255	1
3321MH0007230031104424C00	4424	13878	7.72	-0.2	0.2	34.1	0.7	223	2
3321MH0007230031104425C00	4425	13914	7.44	-0.2	0.2	33.1	0.7	191	3
3321MH0007230031104426C00	4426	13950	7.18	-0.2	0.2	32.2	0.6	159	4
3321MH0007230031104427C00	4427	13986	6.94	-0.2	0.2	31.3	0.6	127	5
3321MH0007230031104428C00	4428	14022	6.70	-0.2	0.2	30.5	0.6	85	6
3321MH0007230031104429C00	4429	14058	6.48	-0.2	0.1	29.7	0.5	63	7
3321MH0007230031104430C00	4430	14094	6.27	-0.1	0.1	29.0	0.5	31	8

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Sol 3321 - MAHLI Onboard Focus Merge Product Information


target Cladh_Hallan - after DRT - ~2 cm standoff

			CDPID	corresponding frame:	3321MH0007460011104432C00			
best focus image:	3322MH0001930001104442R00		4442	motor count:	14635	range (cm):	4.0	
range map product:	3322MH0001930001104443S00		4443	acquired sequence:	mhli00746	stack type:	Relative	
acquired on date:	9-Dec-21			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	48	acquired on sol:	3321	focus merged on sol:	3322			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3321MH0007460031104434C00	4434	14443	4.63	-0.1	0.1	23.2	0.3	255	1
3321MH0007460031104435C00	4435	14491	4.45	-0.1	0.1	22.6	0.3	223	2
3321MH0007460031104436C00	4436	14539	4.29	-0.1	0.1	22.0	0.3	191	3
3321MH0007460031104437C00	4437	14587	4.13	-0.1	0.1	21.4	0.3	159	4
3321MH0007460031104438C00	4438	14635	3.98	-0.1	0.1	20.9	0.3	127	5
3321MH0007460031104439C00	4439	14683	3.83	-0.1	0.1	20.4	0.3	85	6
3321MH0007460031104440C00	4440	14731	3.70	-0.1	0.1	19.9	0.3	63	7
3321MH0007460031104441C00	4441	14779	3.57	-0.1	0.1	19.5	0.3	31	8

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Sol 3323 - MAHLI Onboard Focus Merge Product Information

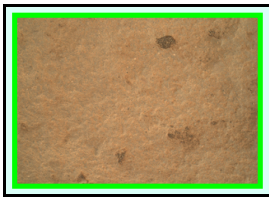

target Helens_Bay - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:		3323MH0002990011104451C00		
best focus image:	3324MH0002270001104510R00		4510	motor count:		14024	range (cm):	6.7
range map product:	3324MH0002270001104511S00		4511	acquired sequence:		mhli00299	stack type:	Relative
acquired on date:	11-Dec-21			merge sequence:		mhli00227	merge type:	Basic
motor count interval:	36		acquired on sol:	3323		focus merged on sol:	3324	

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3323MH0002990021104452C00	4452	13880	7.70	-0.2	0.2	34.0	0.7	255	1
3323MH0002990021104453C00	4453	13916	7.43	-0.2	0.2	33.1	0.6	223	2
3323MH0002990021104454C00	4454	13952	7.17	-0.2	0.2	32.1	0.6	191	3
3323MH0002990021104455C00	4455	13988	6.92	-0.2	0.2	31.3	0.6	159	4
3323MH0002990021104456C00	4456	14024	6.69	-0.2	0.2	30.4	0.6	127	5
3323MH0002990021104457C00	4457	14060	6.47	-0.2	0.1	29.7	0.5	85	6
3323MH0002990021104458C00	4458	14096	6.25	-0.1	0.1	28.9	0.5	63	7
3323MH0002990021104459C00	4459	14132	6.05	-0.1	0.1	28.2	0.5	31	8

updated: 21_December_2021

Sol 3323 - MAHLI Onboard Focus Merge Product Information




target Helens_Bay - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:		3323MH0002990011104461C00		
best focus image:	3324MH0002270001104508R00		4508	motor count:		14032	range (cm):	6.6
range map product:	3324MH0002270001104509S00		4509	acquired sequence:		mhli00299	stack type:	Relative
acquired on date:	11-Dec-21			merge sequence:		mhli00227	merge type:	Basic
motor count interval:	36		acquired on sol:	3323		focus merged on sol:	3324	

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3323MH0002990021104462C00	4462	13888	7.64	-0.2	0.2	33.8	0.7	255	1
3323MH0002990021104463C00	4463	13924	7.37	-0.2	0.2	32.8	0.6	223	2
3323MH0002990021104464C00	4464	13960	7.11	-0.2	0.2	31.9	0.6	191	3
3323MH0002990021104465C00	4465	13996	6.87	-0.2	0.2	31.1	0.6	159	4
3323MH0002990021104466C00	4466	14032	6.64	-0.2	0.2	30.3	0.6	127	5
3323MH0002990021104467C00	4467	14068	6.42	-0.2	0.1	29.5	0.5	85	6
3323MH0002990021104468C00	4468	14104	6.21	-0.1	0.1	28.8	0.5	63	7
3323MH0002990021104469C00	4469	14140	6.01	-0.1	0.1	28.0	0.5	31	8

updated: 21_December_2021

Sol 3323 - MAHLI Onboard Focus Merge Product Information

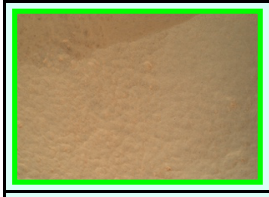
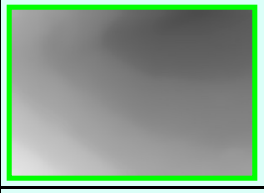

target Helens_Bay - ~1 cm standoff

		CDPID	corresponding frame:	3323MH0008380011104471C00				
best focus image:	3324MH0002270001104506R00	4506	motor count:	15146	range (cm):	2.7		
range map product:	3324MH0002270001104507S00	4507	acquired sequence:	mhli00838	stack type:	Relative		
acquired on date:	11-Dec-21		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	66	acquired on sol:	3323	focus merged on sol:	3324			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3323MH0008380021104472C00	4472	14882	3.31	-0.1	0.1	18.5	0.2	255	1
3323MH0008380021104473C00	4473	14948	3.15	-0.1	0.1	18.0	0.2	223	2
3323MH0008380021104474C00	4474	15014	3.01	-0.1	0.1	17.5	0.2	191	3
3323MH0008380021104475C00	4475	15080	2.87	-0.1	0.1	17.0	0.2	159	4
3323MH0008380021104476C00	4476	15146	2.75	-0.1	0.1	16.6	0.2	127	5
3323MH0008380021104477C00	4477	15212	2.63	-0.1	0.1	16.1	0.2	85	6
3323MH0008380021104478C00	4478	15278	2.51	0.0	0.1	15.7	0.2	63	7
3323MH0008380021104479C00	4479	15344	2.41	0.0	0.1	15.4	0.2	31	8

updated: 21_December_2021

Sol 3323 - MAHLI Onboard Focus Merge Product Information

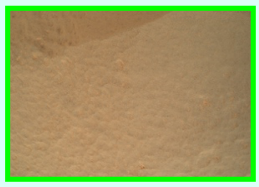
target Lakehead - stereo-1 - ~4 cm standoff

		CDPID	corresponding frame:	3323MH0006730011104483C00				
best focus image:	3324MH0002270001104504R00	4504	motor count:	14121	range (cm):	6.1		
range map product:	3324MH0002270001104505S00	4505	acquired sequence:	mhli00673	stack type:	Relative		
acquired on date:	11-Dec-21		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	84	acquired on sol:	3323	focus merged on sol:	3324			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3323MH0006730021104484C00	4484	13785	8.50	-0.2	0.2	36.8	0.8	255	1
3323MH0006730021104485C00	4485	13869	7.79	-0.2	0.2	34.3	0.7	223	2
3323MH0006730021104486C00	4486	13953	7.16	-0.2	0.2	32.1	0.6	191	3
3323MH0006730021104487C00	4487	14037	6.61	-0.2	0.2	30.2	0.5	159	4
3323MH0006730021104488C00	4488	14121	6.11	-0.1	0.1	28.4	0.5	127	5
3323MH0006730021104489C00	4489	14205	5.67	-0.1	0.1	26.9	0.4	85	6
3323MH0006730021104490C00	4490	14289	5.27	-0.1	0.1	25.4	0.4	63	7
3323MH0006730021104491C00	4491	14373	4.91	-0.1	0.1	24.2	0.4	31	8

updated: 21_December_2021

Sol 3323 - MAHLI Onboard Focus Merge Product Information




target Lakehead - stereo-2 - ~4 cm standoff

			CDPID	corresponding frame:	3323MH0006730011104493C00			
best focus image:	3324MH0002270001104502R00		4502	motor count:	14138	range (cm):	6.0	
range map product:	3324MH0002270001104503S00		4503	acquired sequence:	mhli00673	stack type:	Relative	
acquired on date:	11-Dec-21			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	84	acquired on sol:	3323	focus merged on sol:	3324			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3323MH0006730021104494C00	4494	13802	8.35	-0.2	0.2	36.3	0.8	255	1
3323MH0006730021104495C00	4495	13886	7.66	-0.2	0.2	33.9	0.7	223	2
3323MH0006730021104496C00	4496	13970	7.05	-0.2	0.2	31.7	0.6	191	3
3323MH0006730021104497C00	4497	14054	6.50	-0.2	0.1	29.8	0.5	159	4
3323MH0006730021104498C00	4498	14138	6.02	-0.1	0.1	28.1	0.5	127	5
3323MH0006730021104499C00	4499	14222	5.58	-0.1	0.1	26.6	0.4	85	6
3323MH0006730021104500C00	4500	14306	5.19	-0.1	0.1	25.2	0.4	63	7
3323MH0006730021104501C00	4501	14390	4.84	-0.1	0.1	23.9	0.4	31	8

updated: 22_December_2021

Sol 3326 - MAHLI Onboard Focus Merge Product Information


target Portgower - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3326MH0003060011104515C00				
best focus image:	3326MH0002650001104536R00	4536	motor count:	14000	range (cm):	6.8		
range map product:	3326MH0002650001104537S00	4537	acquired sequence:	mhli00306	stack type:	Relative		
acquired on date:	14-Dec-21		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	54	acquired on sol:	3326	focus merged on sol:	3326			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3326MH0003060021104516C00	4516	13784	8.51	-0.2	0.2	36.9	0.8	255	1
3326MH0003060021104517C00	4517	13838	8.04	-0.2	0.2	35.2	0.7	223	2
3326MH0003060021104518C00	4518	13892	7.61	-0.2	0.2	33.7	0.7	191	3
3326MH0003060021104519C00	4519	13946	7.21	-0.2	0.2	32.3	0.6	159	4
3326MH0003060021104520C00	4520	14000	6.84	-0.2	0.2	31.0	0.6	127	5
3326MH0003060021104521C00	4521	14054	6.50	-0.2	0.1	29.8	0.5	85	6
3326MH0003060021104522C00	4522	14108	6.18	-0.1	0.1	28.7	0.5	63	7
3326MH0003060021104523C00	4523	14162	5.89	-0.1	0.1	27.6	0.4	31	8

updated: 22_December_2021

Sol 3326 - MAHLI Onboard Focus Merge Product Information


target Portgower - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3326MH0003060011104525C00				
best focus image:	3326MH0002650001104534R00	4534	motor count:	14002	range (cm):	6.8		
range map product:	3326MH0002650001104535S00	4535	acquired sequence:	mhli00306	stack type:	Relative		
acquired on date:	14-Dec-21		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	54	acquired on sol:	3326	focus merged on sol:	3326			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3326MH0003060021104526C00	4526	13786	8.49	-0.2	0.2	36.8	0.8	255	1
3326MH0003060021104527C00	4527	13840	8.03	-0.2	0.2	35.2	0.7	223	2
3326MH0003060021104528C00	4528	13894	7.60	-0.2	0.2	33.6	0.7	191	3
3326MH0003060021104529C00	4529	13948	7.20	-0.2	0.2	32.2	0.6	159	4
3326MH0003060021104530C00	4530	14002	6.83	-0.2	0.2	30.9	0.6	127	5
3326MH0003060021104531C00	4531	14056	6.49	-0.2	0.1	29.7	0.5	85	6
3326MH0003060021104532C00	4532	14110	6.17	-0.1	0.1	28.6	0.5	63	7
3326MH0003060021104533C00	4533	14164	5.88	-0.1	0.1	27.6	0.4	31	8

updated: 22_December_2021

Sol 3328 - MAHLI Onboard Focus Merge Product Information


target Korskellie - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3328MH0002990011104541C00				
best focus image:	3329MH0001930001104574R00	4574	motor count:	14009	range (cm):	6.8		
range map product:	3329MH0001930001104575S00	4575	acquired sequence:	mhli00299	stack type:	Relative		
acquired on date:	16-Dec-21		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	36	acquired on sol:	3328	focus merged on sol:	3329			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3328MH0002990021104542C00	4542	13865	7.82	-0.2	0.2	34.4	0.7	255	1
3328MH0002990021104543C00	4543	13901	7.54	-0.2	0.2	33.4	0.7	223	2
3328MH0002990021104544C00	4544	13937	7.28	-0.2	0.2	32.5	0.6	191	3
3328MH0002990021104545C00	4545	13973	7.02	-0.2	0.2	31.6	0.6	159	4
3328MH0002990021104546C00	4546	14009	6.79	-0.2	0.2	30.8	0.6	127	5
3328MH0002990021104547C00	4547	14045	6.56	-0.2	0.1	30.0	0.5	85	6
3328MH0002990021104548C00	4548	14081	6.34	-0.2	0.1	29.2	0.5	63	7
3328MH0002990021104549C00	4549	14117	6.13	-0.1	0.1	28.5	0.5	31	8

updated: 22_December_2021

Sol 3328 - MAHLI Onboard Focus Merge Product Information


target Korskellie - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3328MH0002990011104551C00				
best focus image:	3329MH0001930001104572R00	4572	motor count:	14010	range (cm):	6.8		
range map product:	3329MH0001930001104573S00	4573	acquired sequence:	mhli00299	stack type:	Relative		
acquired on date:	16-Dec-21		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	36	acquired on sol:	3328	focus merged on sol:	3329			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3328MH0002990021104552C00	4552	13866	7.81	-0.2	0.2	34.4	0.7	255	1
3328MH0002990021104553C00	4553	13902	7.53	-0.2	0.2	33.4	0.7	223	2
3328MH0002990021104554C00	4554	13938	7.27	-0.2	0.2	32.5	0.6	191	3
3328MH0002990021104555C00	4555	13974	7.02	-0.2	0.2	31.6	0.6	159	4
3328MH0002990021104556C00	4556	14010	6.78	-0.2	0.2	30.8	0.6	127	5
3328MH0002990021104557C00	4557	14046	6.55	-0.2	0.1	30.0	0.5	85	6
3328MH0002990021104558C00	4558	14082	6.33	-0.2	0.1	29.2	0.5	63	7
3328MH0002990021104559C00	4559	14118	6.13	-0.1	0.1	28.5	0.5	31	8

updated: 22_December_2021

Sol 3328 - MAHLI Onboard Focus Merge Product Information


target Korskellie - ~2 cm standoff

			CDPID	corresponding frame:	3328MH0001740011104561C00			
best focus image:	3329MH0001930001104570R00		4570	motor count:	14699	range (cm):	3.8	
range map product:	3329MH0001930001104571S00		4571	acquired sequence:	mhli00174	stack type:	Relative	
acquired on date:	16-Dec-21			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	60	acquired on sol:	3328	focus merged on sol:	3329			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3328MH0001740021104562C00	4562	14459	4.57	-0.1	0.1	23.0	0.3	255	1
3328MH0001740021104563C00	4563	14519	4.36	-0.1	0.1	22.2	0.3	223	2
3328MH0001740021104564C00	4564	14579	4.15	-0.1	0.1	21.5	0.3	191	3
3328MH0001740021104565C00	4565	14639	3.96	-0.1	0.1	20.9	0.3	159	4
3328MH0001740021104566C00	4566	14699	3.79	-0.1	0.1	20.2	0.3	127	5
3328MH0001740021104567C00	4567	14759	3.62	-0.1	0.1	19.6	0.3	85	6
3328MH0001740021104568C00	4568	14819	3.46	-0.1	0.1	19.1	0.3	63	7
3328MH0001740021104569C00	4569	14879	3.31	-0.1	0.1	18.6	0.2	31	8

updated: 05_January_2022

Sol 3344 - MAHLI Onboard Focus Merge Product Information

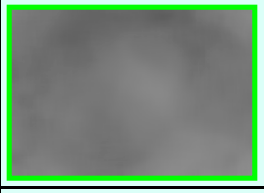

target Maes_Howe - after DRT - APXS spot 1 - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3344MH0001730011104587C00				
best focus image:	3345MH0001530001104632R00	4632	motor count:	14005	range (cm):	6.8		
range map product:	3345MH0001530001104633S00	4633	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	2-Jan-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	30	acquired on sol:	3344	focus merged on sol:	3345			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3344MH0001730021104588C00	4588	13885	7.66	-0.2	0.2	33.9	0.7	255	1
3344MH0001730021104589C00	4589	13915	7.44	-0.2	0.2	33.1	0.6	223	2
3344MH0001730021104590C00	4590	13945	7.22	-0.2	0.2	32.3	0.6	191	3
3344MH0001730021104591C00	4591	13975	7.01	-0.2	0.2	31.6	0.6	159	4
3344MH0001730021104592C00	4592	14005	6.81	-0.2	0.2	30.9	0.6	127	5
3344MH0001730021104593C00	4593	14035	6.62	-0.2	0.2	30.2	0.6	85	6
3344MH0001730021104594C00	4594	14065	6.44	-0.2	0.1	29.6	0.5	63	7
3344MH0001730021104595C00	4595	14095	6.26	-0.1	0.1	28.9	0.5	31	8

updated: 05_January_2022

Sol 3344 - MAHLI Onboard Focus Merge Product Information

target Maes_Howe - after DRT - APXS spot 1 - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3344MH0001730011104597C00				
best focus image:	3345MH0001530001104630R00	4630	motor count:	14006	range (cm):	6.8		
range map product:	3345MH0001530001104631S00	4631	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	2-Jan-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	30	acquired on sol:	3344	focus merged on sol:	3345			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3344MH0001730021104598C00	4598	13886	7.66	-0.2	0.2	33.9	0.7	255	1
3344MH0001730021104599C00	4599	13916	7.43	-0.2	0.2	33.1	0.6	223	2
3344MH0001730021104600C00	4600	13946	7.21	-0.2	0.2	32.3	0.6	191	3
3344MH0001730021104601C00	4601	13976	7.00	-0.2	0.2	31.6	0.6	159	4
3344MH0001730021104602C00	4602	14006	6.80	-0.2	0.2	30.9	0.6	127	5
3344MH0001730021104603C00	4603	14036	6.61	-0.2	0.2	30.2	0.5	85	6
3344MH0001730021104604C00	4604	14066	6.43	-0.2	0.1	29.5	0.5	63	7
3344MH0001730021104605C00	4605	14096	6.25	-0.1	0.1	28.9	0.5	31	8

updated: 05_January_2022

Sol 3344 - MAHLI Onboard Focus Merge Product Information

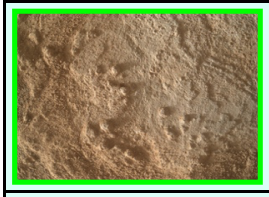

target Maes_Howe - after DRT - APXS spot 1 - ~2 cm standoff

			CDPID	corresponding frame:	3344MH0003350011104607C00			
best focus image:	3345MH0001530001104628R00		4628	motor count:	14698	range (cm):	3.8	
range map product:	3345MH0001530001104629S00		4629	acquired sequence:	mhli00335	stack type:	Relative	
acquired on date:	2-Jan-22			merge sequence:	mhli00153	merge type:	Basic	
motor count interval:	54	acquired on sol:	3344	focus merged on sol:	3345			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3344MH0003350021104608C00	4608	14482	4.49	-0.1	0.1	22.7	0.3	255	1
3344MH0003350021104609C00	4609	14536	4.30	-0.1	0.1	22.0	0.3	223	2
3344MH0003350021104610C00	4610	14590	4.12	-0.1	0.1	21.4	0.3	191	3
3344MH0003350021104611C00	4611	14644	3.95	-0.1	0.1	20.8	0.3	159	4
3344MH0003350021104612C00	4612	14698	3.79	-0.1	0.1	20.2	0.3	127	5
3344MH0003350021104613C00	4613	14752	3.64	-0.1	0.1	19.7	0.3	85	6
3344MH0003350021104614C00	4614	14806	3.50	-0.1	0.1	19.2	0.3	63	7
3344MH0003350021104615C00	4615	14860	3.36	-0.1	0.1	18.7	0.2	31	8

updated: 05_January_2022

Sol 3344 - MAHLI Onboard Focus Merge Product Information




target Maes_Howe - after DRT - APXS spot 2 - ~5 cm standoff

			CDPID	corresponding frame:	3344MH0001730011104617C00			
best focus image:	3345MH0001530001104626R00		4626	motor count:	14008	range (cm):	6.8	
range map product:	3345MH0001530001104627S00		4627	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	2-Jan-22			merge sequence:	mhli00153	merge type:	Basic	
motor count interval:	30	acquired on sol:	3344	focus merged on sol:	3345			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3344MH0001730021104618C00	4618	13888	7.64	-0.2	0.2	33.8	0.7	255	1
3344MH0001730021104619C00	4619	13918	7.42	-0.2	0.2	33.0	0.6	223	2
3344MH0001730021104620C00	4620	13948	7.20	-0.2	0.2	32.2	0.6	191	3
3344MH0001730021104621C00	4621	13978	6.99	-0.2	0.2	31.5	0.6	159	4
3344MH0001730021104622C00	4622	14008	6.79	-0.2	0.2	30.8	0.6	127	5
3344MH0001730021104623C00	4623	14038	6.60	-0.2	0.2	30.1	0.5	85	6
3344MH0001730021104624C00	4624	14068	6.42	-0.2	0.1	29.5	0.5	63	7
3344MH0001730021104625C00	4625	14098	6.24	-0.1	0.1	28.9	0.5	31	8

updated: 10_January_2022

Sol 3347 - MAHLI Onboard Focus Merge Product Information

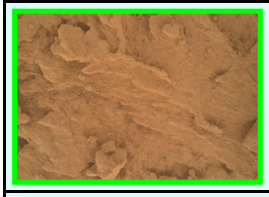
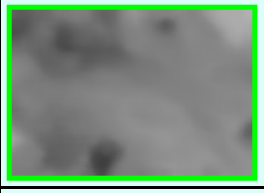

target Verde - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3347MH0001730011104637C00				
best focus image:	3347MH0002650001104658R00	4658	motor count:	13989	range (cm):	6.9		
range map product:	3347MH0002650001104659S00	4659	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	5-Jan-22		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	30	acquired on sol:	3347	focus merged on sol:	3347			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3347MH0001730021104638C00	4638	13869	7.79	-0.2	0.2	34.3	0.7	255	1
3347MH0001730021104639C00	4639	13899	7.56	-0.2	0.2	33.5	0.7	223	2
3347MH0001730021104640C00	4640	13929	7.33	-0.2	0.2	32.7	0.6	191	3
3347MH0001730021104641C00	4641	13959	7.12	-0.2	0.2	32.0	0.6	159	4
3347MH0001730021104642C00	4642	13989	6.92	-0.2	0.2	31.2	0.6	127	5
3347MH0001730021104643C00	4643	14019	6.72	-0.2	0.2	30.6	0.6	85	6
3347MH0001730021104644C00	4644	14049	6.53	-0.2	0.1	29.9	0.5	63	7
3347MH0001730021104645C00	4645	14079	6.35	-0.2	0.1	29.3	0.5	31	8

updated: 10_January_2022

Sol 3347 - MAHLI Onboard Focus Merge Product Information

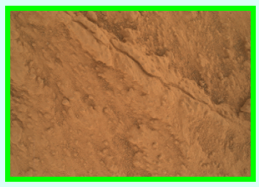
target Verde - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3347MH0001730011104647C00				
best focus image:	3347MH0002650001104656R00	4656	motor count:	13989	range (cm):	6.9		
range map product:	3347MH0002650001104657S00	4657	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	5-Jan-22		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	30	acquired on sol:	3347	focus merged on sol:	3347			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3347MH0001730021104648C00	4648	13869	7.79	-0.2	0.2	34.3	0.7	255	1
3347MH0001730021104649C01-Partial	4649	13899	7.56	-0.2	0.2	33.5	0.7	223	2
3347MH0001730021104650I01	4650	13929	7.33	-0.2	0.2	32.7	0.6	191	3
3347MH0001730021104651I01	4651	13959	7.12	-0.2	0.2	32.0	0.6	159	4
3347MH0001730021104652I01	4652	13989	6.92	-0.2	0.2	31.2	0.6	127	5
3347MH0001730021104653I01	4653	14019	6.72	-0.2	0.2	30.6	0.6	85	6
3347MH0001730021104654I01	4654	14049	6.53	-0.2	0.1	29.9	0.5	63	7
3347MH0001730021104655I01	4655	14079	6.35	-0.2	0.1	29.3	0.5	31	8

updated: 08_January_2022

Sol 3349 - MAHLI Onboard Focus Merge Product Information



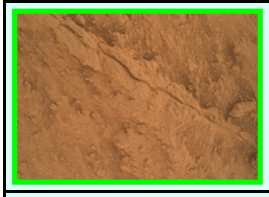

target El_Fosso - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3349MH0002990011104663C00				
best focus image:	3349MH0002650001004684R00	4684	motor count:	14039	range (cm):	6.6		
range map product:	3349MH0002650001004685S00	4685	acquired sequence:	mhli00299	stack type:	Relative		
acquired on date:	7-Jan-22		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	36	acquired on sol:	3349	focus merged on sol:	3349			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3349MH0002990021104664I01	4664	13895	7.59	-0.2	0.2	33.6	0.7	255	1
3349MH0002990021104665I01	4665	13931	7.32	-0.2	0.2	32.7	0.6	223	2
3349MH0002990021004666I01	4666	13967	7.07	-0.2	0.2	31.8	0.6	191	3
3349MH0002990021004667I01	4667	14003	6.82	-0.2	0.2	30.9	0.6	159	4
3349MH0002990021004668I01	4668	14039	6.59	-0.2	0.2	30.1	0.5	127	5
3349MH0002990021004669I01	4669	14075	6.38	-0.2	0.1	29.3	0.5	85	6
3349MH0002990021004670I01	4670	14111	6.17	-0.1	0.1	28.6	0.5	63	7
3349MH0002990021004671I01	4671	14147	5.97	-0.1	0.1	27.9	0.5	31	8

updated: 08_January_2022

Sol 3349 - MAHLI Onboard Focus Merge Product Information



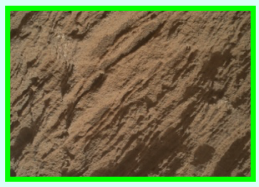

target El_Fosso - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3349MH0002990011004673C00				
best focus image:	3349MH0002650001004682R00	4682	motor count:	14037	range (cm):	6.6		
range map product:	3349MH0002650001004683S00	4683	acquired sequence:	mhli00299	stack type:	Relative		
acquired on date:	7-Jan-22		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	36	acquired on sol:	3349	focus merged on sol:	3349			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3349MH0002990021004674I01	4674	13893	7.60	-0.2	0.2	33.7	0.7	255	1
3349MH0002990021004675I01	4675	13929	7.33	-0.2	0.2	32.7	0.6	223	2
3349MH0002990021004676I01	4676	13965	7.08	-0.2	0.2	31.8	0.6	191	3
3349MH0002990021004677I01	4677	14001	6.84	-0.2	0.2	31.0	0.6	159	4
3349MH0002990021004678I01	4678	14037	6.61	-0.2	0.2	30.2	0.5	127	5
3349MH0002990021004679I01	4679	14073	6.39	-0.2	0.1	29.4	0.5	85	6
3349MH0002990021004680I01	4680	14109	6.18	-0.1	0.1	28.7	0.5	63	7
3349MH0002990021004681I01	4681	14145	5.98	-0.1	0.1	28.0	0.5	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information



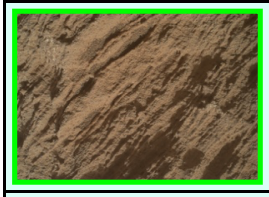
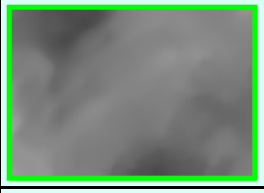

target Coati - stereo-1 - ~55 mm standoff

		CDPID	corresponding frame:	3362MH0007140011200005C00			
best focus image:	3363MH0001700001200101R00	101	motor count:	13913	range (cm):	7.5	
range map product:	3363MH0001700001200102S00	102	acquired sequence:	mhli00714	stack type:	Relative	
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic	
motor count interval:	66	acquired on sol:	3362	focus merged on sol:	3363		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0007140031200007C00	7	13649	9.89	-0.3	0.3	41.7	1.0	255	1
3362MH0007140031200008C00	8	13715	9.18	-0.3	0.3	39.2	0.9	223	2
3362MH0007140031200009C00	9	13781	8.54	-0.2	0.2	37.0	0.8	191	3
3362MH0007140031200010C00	10	13847	7.97	-0.2	0.2	34.9	0.7	159	4
3362MH0007140031200011C00	11	13913	7.45	-0.2	0.2	33.1	0.7	127	5
3362MH0007140031200012C00	12	13979	6.98	-0.2	0.2	31.5	0.6	85	6
3362MH0007140031200013C00	13	14045	6.56	-0.2	0.1	30.0	0.5	63	7
3362MH0007140031200014C00	14	14111	6.17	-0.1	0.1	28.6	0.5	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information

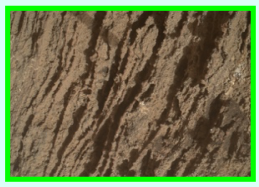
target Coati - stereo-2 - ~55 mm standoff

		CDPID	corresponding frame:	3362MH0007140011200016C00			
best focus image:	3363MH0001700001200099R00	99	motor count:	13911	range (cm):	7.5	
range map product:	3363MH0001700001200100S00	100	acquired sequence:	mhli00714	stack type:	Relative	
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic	
motor count interval:	66	acquired on sol:	3362	focus merged on sol:	3363		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0007140031200018C00	18	13647	9.91	-0.3	0.3	41.8	1.0	255	1
3362MH0007140031200019C00	19	13713	9.20	-0.3	0.3	39.3	0.9	223	2
3362MH0007140031200020C00	20	13779	8.56	-0.2	0.2	37.0	0.8	191	3
3362MH0007140031200021C00	21	13845	7.98	-0.2	0.2	35.0	0.7	159	4
3362MH0007140031200022C00	22	13911	7.47	-0.2	0.2	33.2	0.7	127	5
3362MH0007140031200023C00	23	13977	7.00	-0.2	0.2	31.5	0.6	85	6
3362MH0007140031200024C00	24	14043	6.57	-0.2	0.1	30.0	0.5	63	7
3362MH0007140031200025C00	25	14109	6.18	-0.1	0.1	28.7	0.5	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information



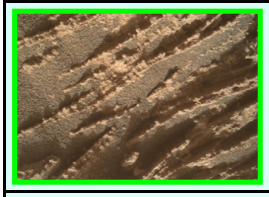
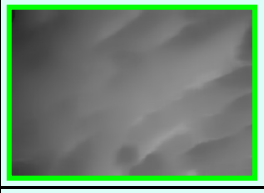

target Morok - ~65 mm standoff

		CDPID	corresponding frame:	3362MH0007140011200027C00				
best focus image:	3363MH0001700001200097R00	97	motor count:	13791	range (cm):	8.4		
range map product:	3363MH0001700001200098S00	98	acquired sequence:	mhli00714	stack type:	Relative		
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic		
motor count interval:	66	acquired on sol:	3362	focus merged on sol:	3363			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0007140031200029C00	29	13527	11.45	-0.4	0.4	47.2	1.3	255	1
3362MH0007140031200030C00	30	13593	10.56	-0.3	0.3	44.1	1.1	223	2
3362MH0007140031200031C00	31	13659	9.77	-0.3	0.3	41.3	1.0	191	3
3362MH0007140031200032C00	32	13725	9.07	-0.3	0.2	38.8	0.9	159	4
3362MH0007140031200033C00	33	13791	8.45	-0.2	0.2	36.6	0.8	127	5
3362MH0007140031200034C00	34	13857	7.89	-0.2	0.2	34.7	0.7	85	6
3362MH0007140031200035C00	35	13923	7.38	-0.2	0.2	32.9	0.6	63	7
3362MH0007140031200036C00	36	13989	6.92	-0.2	0.2	31.2	0.6	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information

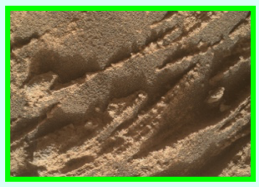
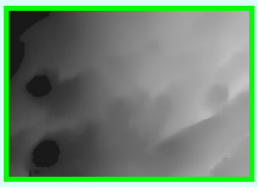
target Caroni - mosaic position 1 of 5 - ~7 cm standoff

		CDPID	corresponding frame:	3362MH0001520011200038C00				
best focus image:	3363MH0001700001200095R00	95	motor count:	13760	range (cm):	8.7		
range map product:	3363MH0001700001200096S00	96	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic		
motor count interval:	48	acquired on sol:	3362	focus merged on sol:	3363			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0001520021200039C00	39	13568	10.88	-0.3	0.3	45.2	1.2	255	1
3362MH0001520021200040C00	40	13616	10.27	-0.3	0.3	43.1	1.1	223	2
3362MH0001520021200041C00	41	13664	9.72	-0.3	0.3	41.1	1.0	191	3
3362MH0001520021200042C00	42	13712	9.21	-0.3	0.3	39.3	0.9	159	4
3362MH0001520021200043C00	43	13760	8.73	-0.2	0.2	37.6	0.8	127	5
3362MH0001520021200044C00	44	13808	8.30	-0.2	0.2	36.1	0.8	85	6
3362MH0001520021200045C00	45	13856	7.89	-0.2	0.2	34.7	0.7	63	7
3362MH0001520021200046C00	46	13904	7.52	-0.2	0.2	33.4	0.7	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information

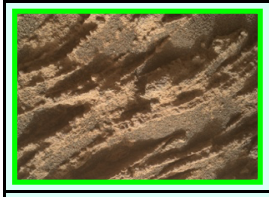
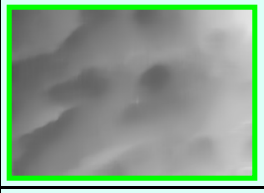
target Caroni - mosaic position 2 of 5 - ~65 mm standoff

		CDPID	corresponding frame:	3362MH0001520011200048C00				
best focus image:	3363MH0001700001200093R00	93	motor count:	13825	range (cm):	8.2		
range map product:	3363MH0001700001200094S00	94	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic		
motor count interval:	48	acquired on sol:	3362	focus merged on sol:	3363			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0001520021200049C00	49	13633	10.07	-0.3	0.3	42.4	1.0	255	1
3362MH0001520021200050C00	50	13681	9.53	-0.3	0.3	40.5	1.0	223	2
3362MH0001520021200051C00	51	13729	9.03	-0.3	0.2	38.7	0.9	191	3
3362MH0001520021200052C00	52	13777	8.58	-0.2	0.2	37.1	0.8	159	4
3362MH0001520021200053C00	53	13825	8.15	-0.2	0.2	35.6	0.7	127	5
3362MH0001520021200054C00	54	13873	7.76	-0.2	0.2	34.2	0.7	85	6
3362MH0001520021200055C00	55	13921	7.39	-0.2	0.2	32.9	0.6	63	7
3362MH0001520021200056C00	56	13969	7.05	-0.2	0.2	31.7	0.6	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information

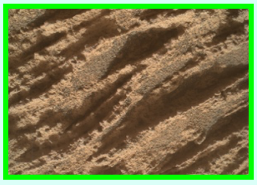
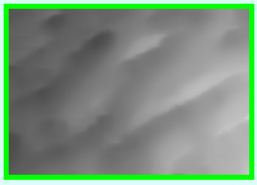
target Caroni - mosaic position 3 of 5 - ~55 mm standoff

		CDPID	corresponding frame:	3362MH0001520011200058C00				
best focus image:	3363MH0001700001200091R00	91	motor count:	13929	range (cm):	7.3		
range map product:	3363MH0001700001200092S00	92	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic		
motor count interval:	48	acquired on sol:	3362	focus merged on sol:	3363			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0001520021200059C00	59	13737	8.96	-0.3	0.2	38.4	0.9	255	1
3362MH0001520021200060C00	60	13785	8.50	-0.2	0.2	36.8	0.8	223	2
3362MH0001520021200061C00	61	13833	8.08	-0.2	0.2	35.4	0.7	191	3
3362MH0001520021200062C00	62	13881	7.70	-0.2	0.2	34.0	0.7	159	4
3362MH0001520021200063C00	63	13929	7.33	-0.2	0.2	32.7	0.6	127	5
3362MH0001520021200064C00	64	13977	7.00	-0.2	0.2	31.5	0.6	85	6
3362MH0001520021200065C00	65	14025	6.68	-0.2	0.2	30.4	0.6	63	7
3362MH0001520021200066C00	66	14073	6.39	-0.2	0.1	29.4	0.5	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information

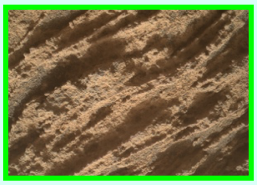
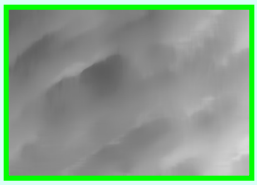
target Caroni - mosaic position 4 of 5 - ~55 mm standoff

		CDPID	corresponding frame:	3362MH0001520011200068C00				
best focus image:	3363MH0001700001200089R00	89	motor count:	13950	range (cm):	7.2		
range map product:	3363MH0001700001200090S00	90	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic		
motor count interval:	48	acquired on sol:	3362	focus merged on sol:	3363			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0001520021200069C00	69	13758	8.75	-0.2	0.2	37.7	0.8	255	1
3362MH0001520021200070C00	70	13806	8.32	-0.2	0.2	36.2	0.8	223	2
3362MH0001520021200071C00	71	13854	7.91	-0.2	0.2	34.7	0.7	191	3
3362MH0001520021200072C00	72	13902	7.53	-0.2	0.2	33.4	0.7	159	4
3362MH0001520021200073C00	73	13950	7.18	-0.2	0.2	32.2	0.6	127	5
3362MH0001520021200074C00	74	13998	6.86	-0.2	0.2	31.0	0.6	85	6
3362MH0001520021200075C00	75	14046	6.55	-0.2	0.1	30.0	0.5	63	7
3362MH0001520021200076C00	76	14094	6.27	-0.1	0.1	29.0	0.5	31	8

updated: 29_January_2022

Sol 3362 - MAHLI Onboard Focus Merge Product Information

target Caroni - mosaic position 5 of 5 - ~5 cm standoff

		CDPID	corresponding frame:	3362MH0001520011200078C00				
best focus image:	3363MH0001700001200087R00	87	motor count:	14005	range (cm):	6.8		
range map product:	3363MH0001700001200088S00	88	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	20-Jan-22		merge sequence:	mhli00170	merge type:	Basic		
motor count interval:	48	acquired on sol:	3362	focus merged on sol:	3363			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3362MH0001520021200079C00	79	13813	8.25	-0.2	0.2	36.0	0.8	255	1
3362MH0001520021200080C00	80	13861	7.85	-0.2	0.2	34.5	0.7	223	2
3362MH0001520021200081C00	81	13909	7.48	-0.2	0.2	33.2	0.7	191	3
3362MH0001520021200082C00	82	13957	7.14	-0.2	0.2	32.0	0.6	159	4
3362MH0001520021200083C00	83	14005	6.81	-0.2	0.2	30.9	0.6	127	5
3362MH0001520021200084C00	84	14053	6.51	-0.2	0.1	29.8	0.5	85	6
3362MH0001520021200085C00	85	14101	6.22	-0.1	0.1	28.8	0.5	63	7
3362MH0001520021200086C00	86	14149	5.96	-0.1	0.1	27.9	0.5	31	8

updated: 31_January_2022

Sol 3364 - MAHLI Onboard Focus Merge Product Information


target Mazaruni - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3364MH0002990011200106C00				
best focus image:	3365MH0001530001200153R00	153	motor count:	13960	range (cm):	7.1		
range map product:	3365MH0001530001200154S00	154	acquired sequence:	mhli00299	stack type:	Relative		
acquired on date:	22-Jan-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	36	acquired on sol:	3364	focus merged on sol:	3365			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3364MH0002990021200107C00	107	13816	8.23	-0.2	0.2	35.9	0.8	255	1
3364MH0002990021200108C00	108	13852	7.93	-0.2	0.2	34.8	0.7	223	2
3364MH0002990021200109C00	109	13888	7.64	-0.2	0.2	33.8	0.7	191	3
3364MH0002990021200110C00	110	13924	7.37	-0.2	0.2	32.8	0.6	159	4
3364MH0002990021200111C00	111	13960	7.11	-0.2	0.2	31.9	0.6	127	5
3364MH0002990021200112C00	112	13996	6.87	-0.2	0.2	31.1	0.6	85	6
3364MH0002990021200113C00	113	14032	6.64	-0.2	0.2	30.3	0.6	63	7
3364MH0002990021200114C00	114	14068	6.42	-0.2	0.1	29.5	0.5	31	8

updated: 31_January_2022

Sol 3364 - MAHLI Onboard Focus Merge Product Information


target Mazaruni - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3364MH0002990011200116C00				
best focus image:	3365MH0001530001200151R00	151	motor count:	13989	range (cm):	6.9		
range map product:	3365MH0001530001200152S00	152	acquired sequence:	mhli00299	stack type:	Relative		
acquired on date:	22-Jan-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	36	acquired on sol:	3364	focus merged on sol:	3365			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3364MH0002990021200117C00	117	13845	7.98	-0.2	0.2	35.0	0.7	255	1
3364MH0002990021200118C00	118	13881	7.70	-0.2	0.2	34.0	0.7	223	2
3364MH0002990021200119C00	119	13917	7.42	-0.2	0.2	33.0	0.6	191	3
3364MH0002990021200120C00	120	13953	7.16	-0.2	0.2	32.1	0.6	159	4
3364MH0002990021200121C00	121	13989	6.92	-0.2	0.2	31.2	0.6	127	5
3364MH0002990021200122C00	122	14025	6.68	-0.2	0.2	30.4	0.6	85	6
3364MH0002990021200123C00	123	14061	6.46	-0.2	0.1	29.6	0.5	63	7
3364MH0002990021200124C00	124	14097	6.25	-0.1	0.1	28.9	0.5	31	8

updated: 31_January_2022

Sol 3364 - MAHLI Onboard Focus Merge Product Information

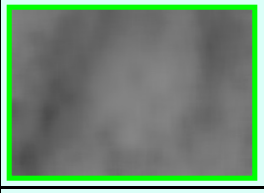

target Formoso - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3364MH0001680011200128C00				
best focus image:	3365MH0001530001200149R00	149	motor count:	14024	range (cm):	6.7		
range map product:	3365MH0001530001200150S00	150	acquired sequence:	mhli00168	stack type:	Relative		
acquired on date:	22-Jan-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	18	acquired on sol:	3364	focus merged on sol:	3365			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3364MH0001680021200129C00	129	13952	7.17	-0.2	0.2	32.1	0.6	255	1
3364MH0001680021200130C00	130	13970	7.05	-0.2	0.2	31.7	0.6	223	2
3364MH0001680021200131C00	131	13988	6.92	-0.2	0.2	31.3	0.6	191	3
3364MH0001680021200132C00	132	14006	6.80	-0.2	0.2	30.9	0.6	159	4
3364MH0001680021200133C00	133	14024	6.69	-0.2	0.2	30.4	0.6	127	5
3364MH0001680021200134C00	134	14042	6.58	-0.2	0.2	30.0	0.5	85	6
3364MH0001680021200135C00	135	14060	6.47	-0.2	0.1	29.7	0.5	63	7
3364MH0001680021200136C00	136	14078	6.36	-0.2	0.1	29.3	0.5	31	8

updated: 31_January_2022

Sol 3364 - MAHLI Onboard Focus Merge Product Information

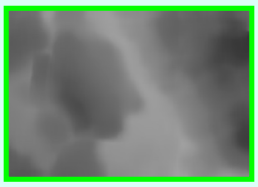
target Formoso - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3364MH0001680011200138C00				
best focus image:	3365MH0001530001200147R00	147	motor count:	14010	range (cm):	6.8		
range map product:	3365MH0001530001200148S00	148	acquired sequence:	mhli00168	stack type:	Relative		
acquired on date:	22-Jan-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	18	acquired on sol:	3364	focus merged on sol:	3365			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3364MH0001680021200139C00	139	13938	7.27	-0.2	0.2	32.5	0.6	255	1
3364MH0001680021200140C00	140	13956	7.14	-0.2	0.2	32.0	0.6	223	2
3364MH0001680021200141C00	141	13974	7.02	-0.2	0.2	31.6	0.6	191	3
3364MH0001680021200142C00	142	13992	6.90	-0.2	0.2	31.2	0.6	159	4
3364MH0001680021200143C00	143	14010	6.78	-0.2	0.2	30.8	0.6	127	5
3364MH0001680021200144C00	144	14028	6.66	-0.2	0.2	30.4	0.6	85	6
3364MH0001680021200145C00	145	14046	6.55	-0.2	0.1	30.0	0.5	63	7
3364MH0001680021200146C00	146	14064	6.44	-0.2	0.1	29.6	0.5	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information

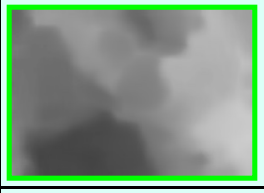
target The_Test - mosaic position 1 of 6 - ~5 cm standoff

			CDPID	corresponding frame:	3371MH0007080011200176C00			
best focus image:	3372MH0005360001200295R00		295	motor count:	13999	range (cm):	6.9	
range map product:	3372MH0005360001200296S00		296	acquired sequence:	mhli00708	stack type:	Relative	
acquired on date:	29-Jan-22			merge sequence:	mhli00536	merge type:	Basic	
motor count interval:	60		acquired on sol:	3371	focus merged on sol:	3372		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0007080031200178C00	178	13759	8.74	-0.2	0.2	37.7	0.8	255	1
3371MH0007080031200179C00	179	13819	8.20	-0.2	0.2	35.8	0.7	223	2
3371MH0007080031200180C00	180	13879	7.71	-0.2	0.2	34.0	0.7	191	3
3371MH0007080031200181C00	181	13939	7.26	-0.2	0.2	32.5	0.6	159	4
3371MH0007080031200182C00	182	13999	6.85	-0.2	0.2	31.0	0.6	127	5
3371MH0007080031200183C00	183	14059	6.47	-0.2	0.1	29.7	0.5	85	6
3371MH0007080031200184C00	184	14119	6.12	-0.1	0.1	28.5	0.5	63	7
3371MH0007080031200185C00	185	14179	5.80	-0.1	0.1	27.3	0.4	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information

target The_Test - mosaic position 2 of 6 - ~45 mm standoff

			CDPID	corresponding frame:	3371MH0007080011200187C00			
best focus image:	3372MH0005360001200293R00		293	motor count:	14051	range (cm):	6.5	
range map product:	3372MH0005360001200294S00		294	acquired sequence:	mhli00708	stack type:	Relative	
acquired on date:	29-Jan-22			merge sequence:	mhli00536	merge type:	Basic	
motor count interval:	60		acquired on sol:	3371	focus merged on sol:	3372		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0007080031200189C00	189	13811	8.27	-0.2	0.2	36.0	0.8	255	1
3371MH0007080031200190C00	190	13871	7.77	-0.2	0.2	34.3	0.7	223	2
3371MH0007080031200191C00	191	13931	7.32	-0.2	0.2	32.7	0.6	191	3
3371MH0007080031200192C00	192	13991	6.90	-0.2	0.2	31.2	0.6	159	4
3371MH0007080031200193C00	193	14051	6.52	-0.2	0.1	29.9	0.5	127	5
3371MH0007080031200194C00	194	14111	6.17	-0.1	0.1	28.6	0.5	85	6
3371MH0007080031200195C00	195	14171	5.84	-0.1	0.1	27.5	0.4	63	7
3371MH0007080031200196C00	196	14231	5.54	-0.1	0.1	26.4	0.4	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information

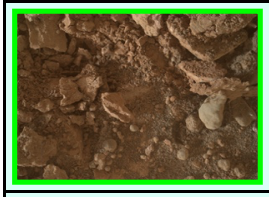
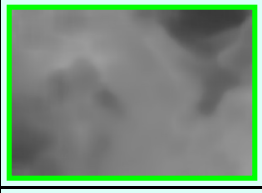

target The_Test - mosaic position 3 of 6 - ~4 cm standoff

		CDPID	corresponding frame:	3371MH0007080011200198C00				
best focus image:	3372MH0005360001200291R00	291	motor count:	14157	range (cm):	5.9		
range map product:	3372MH0005360001200292S00	292	acquired sequence:	mhli00708	stack type:	Relative		
acquired on date:	29-Jan-22		merge sequence:	mhli00536	merge type:	Basic		
motor count interval:	60	acquired on sol:	3371	focus merged on sol:	3372			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0007080031200200C00	200	13917	7.42	-0.2	0.2	33.0	0.6	255	1
3371MH0007080031200201C00	201	13977	7.00	-0.2	0.2	31.5	0.6	223	2
3371MH0007080031200202C00	202	14037	6.61	-0.2	0.2	30.2	0.5	191	3
3371MH0007080031200203C00	203	14097	6.25	-0.1	0.1	28.9	0.5	159	4
3371MH0007080031200204C00	204	14157	5.92	-0.1	0.1	27.7	0.4	127	5
3371MH0007080031200205C00	205	14217	5.61	-0.1	0.1	26.6	0.4	85	6
3371MH0007080031200206C00	206	14277	5.32	-0.1	0.1	25.6	0.4	63	7
3371MH0007080031200207C00	207	14337	5.06	-0.1	0.1	24.7	0.4	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information

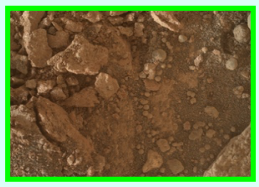
target The_Test - mosaic position 4 of 6 - ~45 mm standoff

		CDPID	corresponding frame:	3371MH0007080011200209C00				
best focus image:	3372MH0005360001200289R00	289	motor count:	14039	range (cm):	6.6		
range map product:	3372MH0005360001200290S00	290	acquired sequence:	mhli00708	stack type:	Relative		
acquired on date:	29-Jan-22		merge sequence:	mhli00536	merge type:	Basic		
motor count interval:	60	acquired on sol:	3371	focus merged on sol:	3372			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0007080031200211C00	211	13799	8.38	-0.2	0.2	36.4	0.8	255	1
3371MH0007080031200212C00	212	13859	7.87	-0.2	0.2	34.6	0.7	223	2
3371MH0007080031200213C00	213	13919	7.41	-0.2	0.2	33.0	0.6	191	3
3371MH0007080031200214C00	214	13979	6.98	-0.2	0.2	31.5	0.6	159	4
3371MH0007080031200215C00	215	14039	6.59	-0.2	0.2	30.1	0.5	127	5
3371MH0007080031200216C00	216	14099	6.24	-0.1	0.1	28.9	0.5	85	6
3371MH0007080031200217C00	217	14159	5.91	-0.1	0.1	27.7	0.4	63	7
3371MH0007080031200218C00	218	14219	5.60	-0.1	0.1	26.6	0.4	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information




target The_Test - mosaic position 5 of 6 - ~45 mm standoff

		CDPID	corresponding frame:	3371MH0007080011200220C00				
best focus image:	3372MH0005360001200287R00	287	motor count:	14063	range (cm):	6.4		
range map product:	3372MH0005360001200288S00	288	acquired sequence:	mhli00708	stack type:	Relative		
acquired on date:	29-Jan-22		merge sequence:	mhli00536	merge type:	Basic		
motor count interval:	60	acquired on sol:	3371	focus merged on sol:	3372			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0007080031200222C00	222	13823	8.17	-0.2	0.2	35.7	0.7	255	1
3371MH0007080031200223C00	223	13883	7.68	-0.2	0.2	33.9	0.7	223	2
3371MH0007080031200224C00	224	13943	7.23	-0.2	0.2	32.4	0.6	191	3
3371MH0007080031200225C00	225	14003	6.82	-0.2	0.2	30.9	0.6	159	4
3371MH0007080031200226C00	226	14063	6.45	-0.2	0.1	29.6	0.5	127	5
3371MH0007080031200227C00	227	14123	6.10	-0.1	0.1	28.4	0.5	85	6
3371MH0007080031200228C00	228	14183	5.78	-0.1	0.1	27.2	0.4	63	7
3371MH0007080031200229C00	229	14243	5.48	-0.1	0.1	26.2	0.4	31	8

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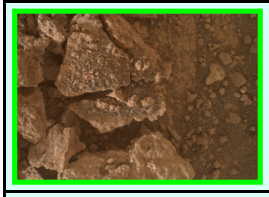
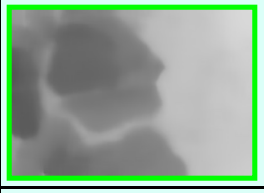
Sol 3371 - MAHLI Onboard Focus Merge Product Information

target The_Test - mosaic position 6 of 6 - ~4 cm standoff

		CDPID	corresponding frame:	3371MH0007080011200231C00				
best focus image:	3372MH0005360001200285R00	285	motor count:	14185	range (cm):	5.8		
range map product:	3372MH0005360001200286S00	286	acquired sequence:	mhli00708	stack type:	Relative		
acquired on date:	29-Jan-22		merge sequence:	mhli00536	merge type:	Basic		
motor count interval:	60	acquired on sol:	3371	focus merged on sol:	3372			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0007080031200233C00	233	13945	7.22	-0.2	0.2	32.3	0.6	255	1
3371MH0007080031200234C00	234	14005	6.81	-0.2	0.2	30.9	0.6	223	2
3371MH0007080031200235C00	235	14065	6.44	-0.2	0.1	29.6	0.5	191	3
3371MH0007080031200236C00	236	14125	6.09	-0.1	0.1	28.3	0.5	159	4
3371MH0007080031200237C00	237	14185	5.77	-0.1	0.1	27.2	0.4	127	5
3371MH0007080031200238C00	238	14245	5.47	-0.1	0.1	26.2	0.4	85	6
3371MH0007080031200239C00	239	14305	5.20	-0.1	0.1	25.2	0.4	63	7
3371MH0007080031200240C00	240	14365	4.94	-0.1	0.1	24.3	0.4	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information

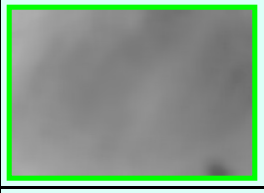

target Suapi - after DRT - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3371MH0001730011200244C00				
best focus image:	3372MH0005360001200283R00	283	motor count:	13954	range (cm):	7.2		
range map product:	3372MH0005360001200284S00	284	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	29-Jan-22		merge sequence:	mhli00536	merge type:	Basic		
motor count interval:	30	acquired on sol:	3371	focus merged on sol:	3372			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0001730021200245C00	245	13834	8.08	-0.2	0.2	35.3	0.7	255	1
3371MH0001730021200246C00	246	13864	7.83	-0.2	0.2	34.5	0.7	223	2
3371MH0001730021200247C00	247	13894	7.60	-0.2	0.2	33.6	0.7	191	3
3371MH0001730021200248C00	248	13924	7.37	-0.2	0.2	32.8	0.6	159	4
3371MH0001730021200249C00	249	13954	7.16	-0.2	0.2	32.1	0.6	127	5
3371MH0001730021200250C00	250	13984	6.95	-0.2	0.2	31.4	0.6	85	6
3371MH0001730021200251C00	251	14014	6.75	-0.2	0.2	30.7	0.6	63	7
3371MH0001730021200252C00	252	14044	6.56	-0.2	0.1	30.0	0.5	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information

target Suapi - after DRT - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3371MH0001730011200254C00				
best focus image:	3372MH0005360001200281R00	281	motor count:	13983	range (cm):	7.0		
range map product:	3372MH0005360001200282S00	282	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	29-Jan-22		merge sequence:	mhli00536	merge type:	Basic		
motor count interval:	30	acquired on sol:	3371	focus merged on sol:	3372			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0001730021200255C00	255	13863	7.84	-0.2	0.2	34.5	0.7	255	1
3371MH0001730021200256C00	256	13893	7.60	-0.2	0.2	33.7	0.7	223	2
3371MH0001730021200257C00	257	13923	7.38	-0.2	0.2	32.9	0.6	191	3
3371MH0001730021200258C00	258	13953	7.16	-0.2	0.2	32.1	0.6	159	4
3371MH0001730021200259C00	259	13983	6.96	-0.2	0.2	31.4	0.6	127	5
3371MH0001730021200260C00	260	14013	6.76	-0.2	0.2	30.7	0.6	85	6
3371MH0001730021200261C00	261	14043	6.57	-0.2	0.1	30.0	0.5	63	7
3371MH0001730021200262C00	262	14073	6.39	-0.2	0.1	29.4	0.5	31	8

updated: 05_February_2022

Sol 3371 - MAHLI Onboard Focus Merge Product Information

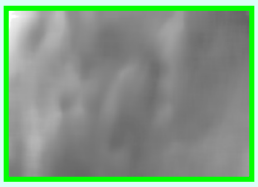

target Suapi - after DRT - ~1 cm standoff

		CDPID	corresponding frame:	3371MH0004260011200270C00			
best focus image:	3372MH0005360001200279R00	279	motor count:	15021	range (cm):	3.0	
range map product:	3372MH0005360001200280S00	280	acquired sequence:	mhli00426	stack type:	Relative	
acquired on date:	29-Jan-22		merge sequence:	mhli00536	merge type:	Basic	
motor count interval:	48	acquired on sol:	3371	focus merged on sol:	3372		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3371MH0004260021200271C00	271	14829	3.44	-0.1	0.1	19.0	0.2	255	1
3371MH0004260021200272C00	272	14877	3.32	-0.1	0.1	18.6	0.2	223	2
3371MH0004260021200273C00	273	14925	3.21	-0.1	0.1	18.2	0.2	191	3
3371MH0004260021200274C00	274	14973	3.10	-0.1	0.1	17.8	0.2	159	4
3371MH0004260021200275C00	275	15021	2.99	-0.1	0.1	17.4	0.2	127	5
3371MH0004260021200276C00	276	15069	2.90	-0.1	0.1	17.1	0.2	85	6
3371MH0004260021200277C00	277	15117	2.80	-0.1	0.1	16.8	0.2	63	7
3371MH0004260021200278C00	278	15165	2.71	-0.1	0.1	16.4	0.2	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

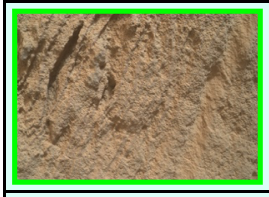
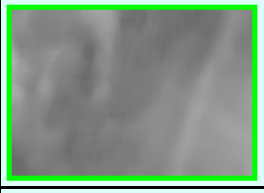
target Toron - mosaic position 1 of 11 - ~14 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200298C00				
best focus image:	3375MH0004400001200477R00	477	motor count:	13276	range (cm):	16.3		
range map product:	3375MH0004400001200478S00	478	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200299C00	299	13204	18.33	-0.9	0.9	71.4	3.2	255	1
3374MH0008410021200300C00	300	13222	17.78	-0.8	0.9	69.5	3.0	223	2
3374MH0008410021200301C00	301	13240	17.26	-0.8	0.8	67.6	2.8	191	3
3374MH0008410021200302C00	302	13258	16.76	-0.8	0.8	65.9	2.7	159	4
3374MH0008410021200303C00	303	13276	16.28	-0.7	0.7	64.2	2.5	127	5
3374MH0008410021200304C00	304	13294	15.83	-0.7	0.7	62.6	2.4	85	6
3374MH0008410021200305C00	305	13312	15.40	-0.6	0.7	61.1	2.3	63	7
3374MH0008410021200306C00	306	13330	14.99	-0.6	0.6	59.7	2.2	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

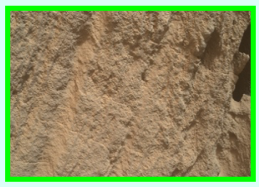
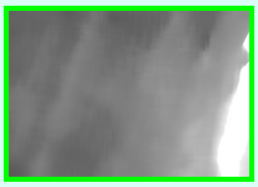
target Toron - mosaic position 2 of 11 - ~14 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200308C00				
best focus image:	3375MH0004400001200475R00	475	motor count:	13278	range (cm):	16.2		
range map product:	3375MH0004400001200476S00	476	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200309C00	309	13206	18.27	-0.9	0.9	71.2	3.2	255	1
3374MH0008410021200310C00	310	13224	17.72	-0.8	0.9	69.3	3.0	223	2
3374MH0008410021200311C00	311	13242	17.20	-0.8	0.8	67.4	2.8	191	3
3374MH0008410021200312C00	312	13260	16.70	-0.7	0.8	65.7	2.7	159	4
3374MH0008410021200313C00	313	13278	16.23	-0.7	0.7	64.0	2.5	127	5
3374MH0008410021200314C00	314	13296	15.78	-0.7	0.7	62.4	2.4	85	6
3374MH0008410021200315C00	315	13314	15.35	-0.6	0.7	60.9	2.3	63	7
3374MH0008410021200316C00	316	13332	14.94	-0.6	0.6	59.5	2.1	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

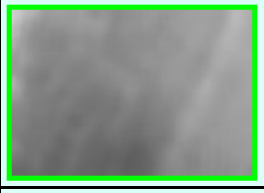
target Toron - mosaic position 3 of 11 - ~15 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200318C00				
best focus image:	3375MH0004400001200473R00	473	motor count:	13262	range (cm):	16.6		
range map product:	3375MH0004400001200474S00	474	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200319C00	319	13190	18.78	-0.9	1.0	73.0	3.3	255	1
3374MH0008410021200320C00	320	13208	18.21	-0.9	0.9	71.0	3.1	223	2
3374MH0008410021200321C00	321	13226	17.66	-0.8	0.9	69.1	3.0	191	3
3374MH0008410021200322C00	322	13244	17.14	-0.8	0.8	67.2	2.8	159	4
3374MH0008410021200323C00	323	13262	16.65	-0.7	0.8	65.5	2.6	127	5
3374MH0008410021200324C00	324	13280	16.18	-0.7	0.7	63.9	2.5	85	6
3374MH0008410021200325C00	325	13298	15.73	-0.7	0.7	62.3	2.4	63	7
3374MH0008410021200326C00	326	13316	15.30	-0.6	0.6	60.8	2.2	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

target Toron - mosaic position 4 of 11 - ~14 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200328C00				
best focus image:	3375MH0004400001200471R00	471	motor count:	13297	range (cm):	15.8		
range map product:	3375MH0004400001200472S00	472	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200329C00	329	13225	17.69	-0.8	0.9	69.2	3.0	255	1
3374MH0008410021200330C00	330	13243	17.17	-0.8	0.8	67.3	2.8	223	2
3374MH0008410021200331C00	331	13261	16.68	-0.7	0.8	65.6	2.7	191	3
3374MH0008410021200332C00	332	13279	16.20	-0.7	0.7	63.9	2.5	159	4
3374MH0008410021200333C00	333	13297	15.76	-0.7	0.7	62.4	2.4	127	5
3374MH0008410021200334C00	334	13315	15.33	-0.6	0.7	60.9	2.3	85	6
3374MH0008410021200335C00	335	13333	14.92	-0.6	0.6	59.4	2.1	63	7
3374MH0008410021200336C00	336	13351	14.53	-0.6	0.6	58.0	2.0	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

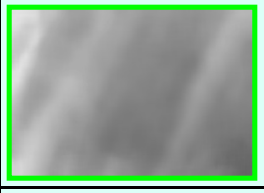

target Toron - mosaic position 5 of 11 - ~13 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200338C00				
best focus image:	3375MH0004400001200469R00	469	motor count:	13320	range (cm):	15.2		
range map product:	3375MH0004400001200470S00	470	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200339C00	339	13248	17.03	-0.8	0.8	66.8	2.8	255	1
3374MH0008410021200340C00	340	13266	16.54	-0.7	0.8	65.1	2.6	223	2
3374MH0008410021200341C00	341	13284	16.08	-0.7	0.7	63.5	2.5	191	3
3374MH0008410021200342C00	342	13302	15.64	-0.7	0.7	61.9	2.3	159	4
3374MH0008410021200343C00	343	13320	15.21	-0.6	0.6	60.4	2.2	127	5
3374MH0008410021200344C00	344	13338	14.81	-0.6	0.6	59.0	2.1	85	6
3374MH0008410021200345C00	345	13356	14.42	-0.6	0.6	57.7	2.0	63	7
3374MH0008410021200346C00	346	13374	14.05	-0.5	0.5	56.4	1.9	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

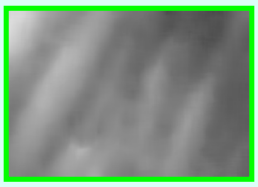
target Toron - mosaic position 6 of 11 - ~13 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200348C00				
best focus image:	3375MH0004400001200467R00	467	motor count:	13350	range (cm):	14.5		
range map product:	3375MH0004400001200468S00	468	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200349C00	349	13278	16.23	-0.7	0.7	64.0	2.5	255	1
3374MH0008410021200350C00	350	13296	15.78	-0.7	0.7	62.4	2.4	223	2
3374MH0008410021200351C00	351	13314	15.35	-0.6	0.7	60.9	2.3	191	3
3374MH0008410021200352C00	352	13332	14.94	-0.6	0.6	59.5	2.1	159	4
3374MH0008410021200353C00	353	13350	14.55	-0.6	0.6	58.1	2.0	127	5
3374MH0008410021200354C00	354	13368	14.17	-0.6	0.6	56.8	1.9	85	6
3374MH0008410021200355C00	355	13386	13.82	-0.5	0.5	55.5	1.9	63	7
3374MH0008410021200356C00	356	13404	13.47	-0.5	0.5	54.3	1.8	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

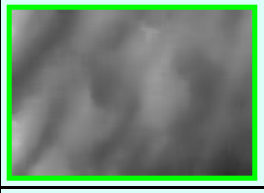
target Toron - mosaic position 7 of 11 - ~13 cm standoff

			CDPID	corresponding frame:	3374MH0008410011200358C00			
best focus image:	3375MH0004400001200465R00		465	motor count:	13333	range (cm):	14.9	
range map product:	3375MH0004400001200466S00		466	acquired sequence:	mhli00841	stack type:	Relative	
acquired on date:	2-Feb-22			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200359C00	359	13261	16.68	-0.7	0.8	65.6	2.7	255	1
3374MH0008410021200360C00	360	13279	16.20	-0.7	0.7	63.9	2.5	223	2
3374MH0008410021200361C00	361	13297	15.76	-0.7	0.7	62.4	2.4	191	3
3374MH0008410021200362C00	362	13315	15.33	-0.6	0.7	60.9	2.3	159	4
3374MH0008410021200363C00	363	13333	14.92	-0.6	0.6	59.4	2.1	127	5
3374MH0008410021200364C00	364	13351	14.53	-0.6	0.6	58.0	2.0	85	6
3374MH0008410021200365C00	365	13369	14.15	-0.6	0.6	56.7	1.9	63	7
3374MH0008410021200366C00	366	13387	13.80	-0.5	0.5	55.5	1.9	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

target Toron - mosaic position 8 of 11 - ~13 cm standoff

			CDPID	corresponding frame:	3374MH0008410011200368C00			
best focus image:	3375MH0004400001200463R00		463	motor count:	13327	range (cm):	15.1	
range map product:	3375MH0004400001200464S00		464	acquired sequence:	mhli00841	stack type:	Relative	
acquired on date:	2-Feb-22			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200369C00	369	13255	16.84	-0.8	0.8	66.2	2.7	255	1
3374MH0008410021200370C00	370	13273	16.36	-0.7	0.7	64.5	2.6	223	2
3374MH0008410021200371C00	371	13291	15.90	-0.7	0.7	62.9	2.4	191	3
3374MH0008410021200372C00	372	13309	15.47	-0.6	0.7	61.4	2.3	159	4
3374MH0008410021200373C00	373	13327	15.05	-0.6	0.6	59.9	2.2	127	5
3374MH0008410021200374C00	374	13345	14.66	-0.6	0.6	58.5	2.1	85	6
3374MH0008410021200375C00	375	13363	14.28	-0.6	0.6	57.2	2.0	63	7
3374MH0008410021200376C00	376	13381	13.91	-0.5	0.5	55.9	1.9	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

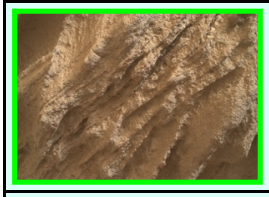
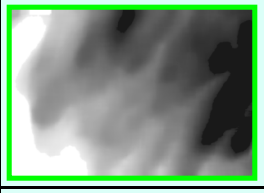

target Toron - mosaic position 9 of 11 - ~13 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200378C00				
best focus image:	3375MH0004400001200461R00	461	motor count:	13342	range (cm):	14.7		
range map product:	3375MH0004400001200462S00	462	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200379C00	379	13270	16.44	-0.7	0.7	64.8	2.6	255	1
3374MH0008410021200380C00	380	13288	15.98	-0.7	0.7	63.1	2.4	223	2
3374MH0008410021200381C00	381	13306	15.54	-0.7	0.7	61.6	2.3	191	3
3374MH0008410021200382C00	382	13324	15.12	-0.6	0.6	60.1	2.2	159	4
3374MH0008410021200383C00	383	13342	14.72	-0.6	0.6	58.7	2.1	127	5
3374MH0008410021200384C00	384	13360	14.34	-0.6	0.6	57.4	2.0	85	6
3374MH0008410021200385C00	385	13378	13.97	-0.5	0.5	56.1	1.9	63	7
3374MH0008410021200386C00	386	13396	13.62	-0.5	0.5	54.9	1.8	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

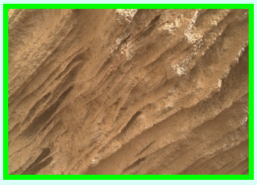
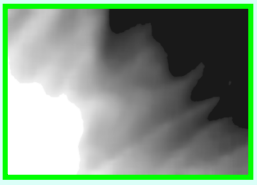
target Toron - mosaic position 10 of 11 - ~13 cm standoff

		CDPID	corresponding frame:	3374MH0008410011200388C00				
best focus image:	3375MH0004400001200459R00	459	motor count:	13315	range (cm):	15.3		
range map product:	3375MH0004400001200460S00	460	acquired sequence:	mhli00841	stack type:	Relative		
acquired on date:	2-Feb-22		merge sequence:	mhli00440	merge type:	Basic		
motor count interval:	18	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200389C00	389	13243	17.17	-0.8	0.8	67.3	2.8	255	1
3374MH0008410021200390C00	390	13261	16.68	-0.7	0.8	65.6	2.7	223	2
3374MH0008410021200391C00	391	13279	16.20	-0.7	0.7	63.9	2.5	191	3
3374MH0008410021200392C00	392	13297	15.76	-0.7	0.7	62.4	2.4	159	4
3374MH0008410021200393C00	393	13315	15.33	-0.6	0.7	60.9	2.3	127	5
3374MH0008410021200394C00	394	13333	14.92	-0.6	0.6	59.4	2.1	85	6
3374MH0008410021200395C00	395	13351	14.53	-0.6	0.6	58.0	2.0	63	7
3374MH0008410021200396C00	396	13369	14.15	-0.6	0.6	56.7	1.9	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

target Toron - mosaic position 11 of 11 - ~16 cm standoff

			CDPID	corresponding frame:	3374MH0008410011200398C00			
best focus image:	3375MH0004400001200457R00		457	motor count:	13232	range (cm):	17.5	
range map product:	3375MH0004400001200458S00		458	acquired sequence:	mhli00841	stack type:	Relative	
acquired on date:	2-Feb-22			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	18		acquired on sol:	3374	focus merged on sol:	3375		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0008410021200399C00	399	13160	19.82	-1.0	1.1	76.7	3.7	255	1
3374MH0008410021200400C00	400	13178	19.19	-1.0	1.0	74.4	3.5	223	2
3374MH0008410021200401C00	401	13196	18.59	-0.9	1.0	72.3	3.3	191	3
3374MH0008410021200402C00	402	13214	18.02	-0.9	0.9	70.3	3.1	159	4
3374MH0008410021200403C00	403	13232	17.49	-0.8	0.8	68.4	2.9	127	5
3374MH0008410021200404C00	404	13250	16.98	-0.8	0.8	66.7	2.7	85	6
3374MH0008410021200405C00	405	13268	16.49	-0.7	0.8	64.9	2.6	63	7
3374MH0008410021200406C00	406	13286	16.03	-0.7	0.7	63.3	2.5	31	8

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Sol 3374 - MAHLI Onboard Focus Merge Product Information


target Surumu - APXS spot 2 - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3374MH0001520011200410C00			
best focus image:	3375MH0004400001200455R00		455	motor count:	13984	range (cm):	7.0	
range map product:	3375MH0004400001200456S00		456	acquired sequence:	mhli00152	stack type:	Relative	
acquired on date:	2-Feb-22			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	48		acquired on sol:	3374	focus merged on sol:	3375		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0001520021200411C00	411	13792	8.44	-0.2	0.2	36.6	0.8	255	1
3374MH0001520021200412C00	412	13840	8.03	-0.2	0.2	35.2	0.7	223	2
3374MH0001520021200413C00	413	13888	7.64	-0.2	0.2	33.8	0.7	191	3
3374MH0001520021200414C00	414	13936	7.28	-0.2	0.2	32.5	0.6	159	4
3374MH0001520021200415C00	415	13984	6.95	-0.2	0.2	31.4	0.6	127	5
3374MH0001520021200416C00	416	14032	6.64	-0.2	0.2	30.3	0.6	85	6
3374MH0001520021200417C00	417	14080	6.35	-0.2	0.1	29.2	0.5	63	7
3374MH0001520021200418C00	418	14128	6.07	-0.1	0.1	28.3	0.5	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

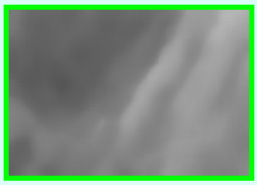

target Surumu - APXS spot 2 - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3374MH0001520011200420C00			
best focus image:	3375MH0004400001200453R00		453	motor count:	13979	range (cm):	7.0	
range map product:	3375MH0004400001200454S00		454	acquired sequence:	mhli00152	stack type:	Relative	
acquired on date:	2-Feb-22			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	48	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0001520021200421C00	421	13787	8.48	-0.2	0.2	36.8	0.8	255	1
3374MH0001520021200422C00	422	13835	8.07	-0.2	0.2	35.3	0.7	223	2
3374MH0001520021200423C00	423	13883	7.68	-0.2	0.2	33.9	0.7	191	3
3374MH0001520021200424C00	424	13931	7.32	-0.2	0.2	32.7	0.6	159	4
3374MH0001520021200425C00	425	13979	6.98	-0.2	0.2	31.5	0.6	127	5
3374MH0001520021200426C00	426	14027	6.67	-0.2	0.2	30.4	0.6	85	6
3374MH0001520021200427C00	427	14075	6.38	-0.2	0.1	29.3	0.5	63	7
3374MH0001520021200428C00	428	14123	6.10	-0.1	0.1	28.4	0.5	31	8

updated: 23_February_2022

Sol 3374 - MAHLI Onboard Focus Merge Product Information

target Surumu - APXS spot 2 - ~1 cm standoff

			CDPID	corresponding frame:	3374MH0004190011200430C00			
best focus image:	3375MH0004400001200451R00		451	motor count:	15053	range (cm):	2.9	
range map product:	3375MH0004400001200452S00		452	acquired sequence:	mhli00419	stack type:	Relative	
acquired on date:	2-Feb-22			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	72	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0004190021200431C00	431	14765	3.60	-0.1	0.1	19.6	0.3	255	1
3374MH0004190021200432C00	432	14837	3.42	-0.1	0.1	18.9	0.2	223	2
3374MH0004190021200433C00	433	14909	3.24	-0.1	0.1	18.3	0.2	191	3
3374MH0004190021200434C00	434	14981	3.08	-0.1	0.1	17.7	0.2	159	4
3374MH0004190021200435C00	435	15053	2.93	-0.1	0.1	17.2	0.2	127	5
3374MH0004190021200436C00	436	15125	2.79	-0.1	0.1	16.7	0.2	85	6
3374MH0004190021200437C00	437	15197	2.65	-0.1	0.1	16.2	0.2	63	7
3374MH0004190021200438C00	438	15269	2.53	-0.1	0.1	15.8	0.2	31	8

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Sol 3374 - MAHLI Onboard Focus Merge Product Information


target Surumu - APXS spot 1 - ~5 cm standoff

			CDPID	corresponding frame:	3374MH0001520011200440C00			
best focus image:	3375MH0004400001200449R00		449	motor count:	13955	range (cm):	7.1	
range map product:	3375MH0004400001200450S00		450	acquired sequence:	mhli00152	stack type:	Relative	
acquired on date:	2-Feb-22			merge sequence:	mhli00440	merge type:	Basic	
motor count interval:	48	acquired on sol:	3374	focus merged on sol:	3375			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3374MH0001520021200441C00	441	13763	8.71	-0.2	0.2	37.5	0.8	255	1
3374MH0001520021200442C00	442	13811	8.27	-0.2	0.2	36.0	0.8	223	2
3374MH0001520021200443C00	443	13859	7.87	-0.2	0.2	34.6	0.7	191	3
3374MH0001520021200444C00	444	13907	7.50	-0.2	0.2	33.3	0.7	159	4
3374MH0001520021200445C00	445	13955	7.15	-0.2	0.2	32.1	0.6	127	5
3374MH0001520021200446C00	446	14003	6.82	-0.2	0.2	30.9	0.6	85	6
3374MH0001520021200447C00	447	14051	6.52	-0.2	0.1	29.9	0.5	63	7
3374MH0001520021200448C00	448	14099	6.24	-0.1	0.1	28.9	0.5	31	8

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Sol 3376 - MAHLI Onboard Focus Merge Product Information

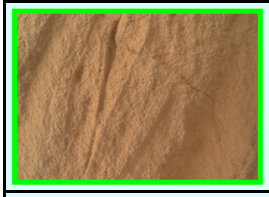
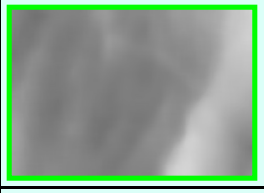

target Kokadai - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3376MH0001730011200482C00				
best focus image:	3376MH0001930001200515R00	515	motor count:	14005	range (cm):	6.8		
range map product:	3376MH0001930001200516S00	516	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	3-Feb-22		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	30	acquired on sol:	3376	focus merged on sol:	3376			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3376MH0001730021200483C00	483	13885	7.66	-0.2	0.2	33.9	0.7	255	1
3376MH0001730021200484C00	484	13915	7.44	-0.2	0.2	33.1	0.6	223	2
3376MH0001730021200485C00	485	13945	7.22	-0.2	0.2	32.3	0.6	191	3
3376MH0001730021200486C00	486	13975	7.01	-0.2	0.2	31.6	0.6	159	4
3376MH0001730021200487C00	487	14005	6.81	-0.2	0.2	30.9	0.6	127	5
3376MH0001730021200488C00	488	14035	6.62	-0.2	0.2	30.2	0.6	85	6
3376MH0001730021200489C00	489	14065	6.44	-0.2	0.1	29.6	0.5	63	7
3376MH0001730021200490C00	490	14095	6.26	-0.1	0.1	28.9	0.5	31	8

updated: 23_February_2022

Sol 3376 - MAHLI Onboard Focus Merge Product Information

target Kokadai - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3376MH0001730011200492C00				
best focus image:	3376MH0001930001200513R00	513	motor count:	14005	range (cm):	6.8		
range map product:	3376MH0001930001200514S00	514	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	3-Feb-22		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	30	acquired on sol:	3376	focus merged on sol:	3376			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3376MH0001730021200493C00	493	13885	7.66	-0.2	0.2	33.9	0.7	255	1
3376MH0001730021200494C00	494	13915	7.44	-0.2	0.2	33.1	0.6	223	2
3376MH0001730021200495C00	495	13945	7.22	-0.2	0.2	32.3	0.6	191	3
3376MH0001730021200496C00	496	13975	7.01	-0.2	0.2	31.6	0.6	159	4
3376MH0001730021200497C00	497	14005	6.81	-0.2	0.2	30.9	0.6	127	5
3376MH0001730021200498C00	498	14035	6.62	-0.2	0.2	30.2	0.6	85	6
3376MH0001730021200499C00	499	14065	6.44	-0.2	0.1	29.6	0.5	63	7
3376MH0001730021200500C00	500	14095	6.26	-0.1	0.1	28.9	0.5	31	8

updated: 23_February_2022

Sol 3376 - MAHLI Onboard Focus Merge Product Information


target Kokadai - ~1 cm standoff

			CDPID	corresponding frame:	3376MH0007160011200502C00			
best focus image:	3376MH0001930001200511R00		511	motor count:	15142	range (cm):	2.8	
range map product:	3376MH0001930001200512S00		512	acquired sequence:	mhli00716	stack type:	Relative	
acquired on date:	3-Feb-22			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	60	acquired on sol:	3376	focus merged on sol:	3376			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3376MH0007160021200503C00	503	14902	3.26	-0.1	0.1	18.4	0.2	255	1
3376MH0007160021200504C00	504	14962	3.12	-0.1	0.1	17.9	0.2	223	2
3376MH0007160021200505C00	505	15022	2.99	-0.1	0.1	17.4	0.2	191	3
3376MH0007160021200506C00	506	15082	2.87	-0.1	0.1	17.0	0.2	159	4
3376MH0007160021200507C00	507	15142	2.75	-0.1	0.1	16.6	0.2	127	5
3376MH0007160021200508C00	508	15202	2.64	-0.1	0.1	16.2	0.2	85	6
3376MH0007160021200509C00	509	15262	2.54	-0.1	0.1	15.8	0.2	63	7
3376MH0007160021200510C00	510	15322	2.44	0.0	0.1	15.5	0.2	31	8

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Sol 3378 - MAHLI Onboard Focus Merge Product Information

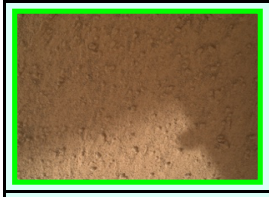

target Aji - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3378MH0002240011200524C00				
best focus image:	3378MH0001530001200569R00	569	motor count:	14022	range (cm):	6.7		
range map product:	3378MH0001530001200570S00	570	acquired sequence:	mhli00224	stack type:	Relative		
acquired on date:	6-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	42	acquired on sol:	3378	focus merged on sol:	3378			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3378MH0002240021200525C00	525	13854	7.91	-0.2	0.2	34.7	0.7	255	1
3378MH0002240021200526C00	526	13896	7.58	-0.2	0.2	33.6	0.7	223	2
3378MH0002240021200527C00	527	13938	7.27	-0.2	0.2	32.5	0.6	191	3
3378MH0002240021200528C00	528	13980	6.98	-0.2	0.2	31.5	0.6	159	4
3378MH0002240021200529C00	529	14022	6.70	-0.2	0.2	30.5	0.6	127	5
3378MH0002240021200530C00	530	14064	6.44	-0.2	0.1	29.6	0.5	85	6
3378MH0002240021200531C00	531	14106	6.20	-0.1	0.1	28.7	0.5	63	7
3378MH0002240021200532C00	532	14148	5.96	-0.1	0.1	27.9	0.5	31	8

updated: 18_April_2022

Sol 3378 - MAHLI Onboard Focus Merge Product Information




target Aji - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3378MH0002240011200534C00				
best focus image:	3378MH0001530001200567R00	567	motor count:	14028	range (cm):	6.7		
range map product:	3378MH0001530001200568S00	568	acquired sequence:	mhli00224	stack type:	Relative		
acquired on date:	6-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	42	acquired on sol:	3378	focus merged on sol:	3378			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3378MH0002240021200535C00	535	13860	7.86	-0.2	0.2	34.6	0.7	255	1
3378MH0002240021200536C00	536	13902	7.53	-0.2	0.2	33.4	0.7	223	2
3378MH0002240021200537C00	537	13944	7.23	-0.2	0.2	32.3	0.6	191	3
3378MH0002240021200538C00	538	13986	6.94	-0.2	0.2	31.3	0.6	159	4
3378MH0002240021200539C00	539	14028	6.66	-0.2	0.2	30.4	0.6	127	5
3378MH0002240021200540C00	540	14070	6.41	-0.2	0.1	29.4	0.5	85	6
3378MH0002240021200541C00	541	14112	6.16	-0.1	0.1	28.6	0.5	63	7
3378MH0002240021200542C00	542	14154	5.93	-0.1	0.1	27.8	0.5	31	8

updated: 18_April_2022

Sol 3378 - MAHLI Onboard Focus Merge Product Information


target Erico - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3378MH0002990011200544C00			
best focus image:	3378MH0001530001200565R00		565	motor count:	14030	range (cm):	6.7	
range map product:	3378MH0001530001200566S00		566	acquired sequence:	mhli00299	stack type:	Relative	
acquired on date:	6-Feb-22			merge sequence:	mhli00153	merge type:	Basic	
motor count interval:	36	acquired on sol:	3378	focus merged on sol:	3378			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3378MH0002990021200545C00	545	13886	7.66	-0.2	0.2	33.9	0.7	255	1
3378MH0002990021200546C00	546	13922	7.39	-0.2	0.2	32.9	0.6	223	2
3378MH0002990021200547C00	547	13958	7.13	-0.2	0.2	32.0	0.6	191	3
3378MH0002990021200548C00	548	13994	6.88	-0.2	0.2	31.1	0.6	159	4
3378MH0002990021200549C00	549	14030	6.65	-0.2	0.2	30.3	0.6	127	5
3378MH0002990021200550C00	550	14066	6.43	-0.2	0.1	29.5	0.5	85	6
3378MH0002990021200551C00	551	14102	6.22	-0.1	0.1	28.8	0.5	63	7
3378MH0002990021200552C00	552	14138	6.02	-0.1	0.1	28.1	0.5	31	8

updated: 18_April_2022

Sol 3378 - MAHLI Onboard Focus Merge Product Information


target Erico - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3378MH0002990011200554C00			
best focus image:	3378MH0001530001200563R00		563	motor count:	14029	range (cm):	6.7	
range map product:	3378MH0001530001200564S00		564	acquired sequence:	mhli00299	stack type:	Relative	
acquired on date:	6-Feb-22			merge sequence:	mhli00153	merge type:	Basic	
motor count interval:	36	acquired on sol:	3378	focus merged on sol:	3378			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3378MH0002990021200555C00	555	13885	7.66	-0.2	0.2	33.9	0.7	255	1
3378MH0002990021200556C00	556	13921	7.39	-0.2	0.2	32.9	0.6	223	2
3378MH0002990021200557C00	557	13957	7.14	-0.2	0.2	32.0	0.6	191	3
3378MH0002990021200558C00	558	13993	6.89	-0.2	0.2	31.2	0.6	159	4
3378MH0002990021200559C00	559	14029	6.66	-0.2	0.2	30.3	0.6	127	5
3378MH0002990021200560C00	560	14065	6.44	-0.2	0.1	29.6	0.5	85	6
3378MH0002990021200561C00	561	14101	6.22	-0.1	0.1	28.8	0.5	63	7
3378MH0002990021200562C00	562	14137	6.02	-0.1	0.1	28.1	0.5	31	8

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Sol 3381 - MAHLI Onboard Focus Merge Product Information

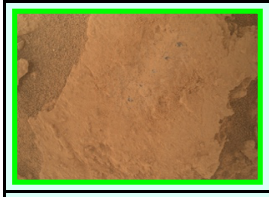
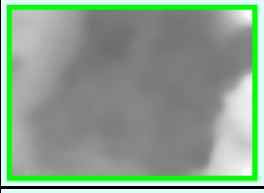

target El_Dorado - stereo-1 - ~45 mm standoff

		CDPID	corresponding frame:	3381MH0001820011200574C00				
best focus image:	3381MH0001930001200607R00	607	motor count:	14053	range (cm):	6.5		
range map product:	3381MH0001930001200608S00	608	acquired sequence:	mhli00182	stack type:	Relative		
acquired on date:	9-Feb-22		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	24	acquired on sol:	3381	focus merged on sol:	3381			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3381MH0001820021200575C00	575	13957	7.14	-0.2	0.2	32.0	0.6	255	1
3381MH0001820021200576C00	576	13981	6.97	-0.2	0.2	31.4	0.6	223	2
3381MH0001820021200577C00	577	14005	6.81	-0.2	0.2	30.9	0.6	191	3
3381MH0001820021200578C00	578	14029	6.66	-0.2	0.2	30.3	0.6	159	4
3381MH0001820021200579C00	579	14053	6.51	-0.2	0.1	29.8	0.5	127	5
3381MH0001820021200580C00	580	14077	6.36	-0.2	0.1	29.3	0.5	85	6
3381MH0001820021200581C00	581	14101	6.22	-0.1	0.1	28.8	0.5	63	7
3381MH0001820021200582C00	582	14125	6.09	-0.1	0.1	28.3	0.5	31	8

updated: 12_April_2022

Sol 3381 - MAHLI Onboard Focus Merge Product Information

target El_Dorado - stereo-2 - ~45 mm standoff

		CDPID	corresponding frame:	3381MH0001820011200584C00				
best focus image:	3381MH0001930001200605R00	605	motor count:	14055	range (cm):	6.5		
range map product:	3381MH0001930001200606S00	606	acquired sequence:	mhli00182	stack type:	Relative		
acquired on date:	9-Feb-22		merge sequence:	mhli00193	merge type:	Basic		
motor count interval:	24	acquired on sol:	3381	focus merged on sol:	3381			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3381MH0001820021200585C00	585	13959	7.12	-0.2	0.2	32.0	0.6	255	1
3381MH0001820021200586C00	586	13983	6.96	-0.2	0.2	31.4	0.6	223	2
3381MH0001820021200587C00	587	14007	6.80	-0.2	0.2	30.8	0.6	191	3
3381MH0001820021200588C00	588	14031	6.64	-0.2	0.2	30.3	0.6	159	4
3381MH0001820021200589C00	589	14055	6.50	-0.2	0.1	29.8	0.5	127	5
3381MH0001820021200590C00	590	14079	6.35	-0.2	0.1	29.3	0.5	85	6
3381MH0001820021200591C00	591	14103	6.21	-0.1	0.1	28.8	0.5	63	7
3381MH0001820021200592C00	592	14127	6.08	-0.1	0.1	28.3	0.5	31	8

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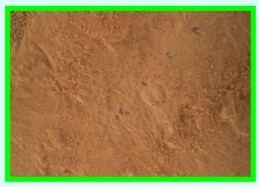
Sol 3381 - MAHLI Onboard Focus Merge Product Information




target El_Dorado - ~6 mm standoff

		CDPID	corresponding frame:	3381MH0004260011200594C00			
best focus image:	3381MH0001930001200603R00	603	motor count:	15281	range (cm):	2.5	
range map product:	3381MH0001930001200604S00	604	acquired sequence:	mhli00426	stack type:	Relative	
acquired on date:	9-Feb-22		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	48	acquired on sol:	3381	focus merged on sol:	3381		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3381MH0004260021200595C00	595	15089	2.86	-0.1	0.1	17.0	0.2	255	1
3381MH0004260021200596C00	596	15137	2.76	-0.1	0.1	16.6	0.2	223	2
3381MH0004260021200597C00	597	15185	2.67	-0.1	0.1	16.3	0.2	191	3
3381MH0004260021200598C00	598	15233	2.59	-0.1	0.1	16.0	0.2	159	4
3381MH0004260021200599C00	599	15281	2.51	0.0	0.1	15.7	0.2	127	5
3381MH0004260021200600C00	600	15329	2.43	0.0	0.1	15.5	0.2	85	6
3381MH0004260021200601C00	601	15377	2.35	0.0	0.1	15.2	0.2	63	7
3381MH0004260021200602C00	602	15425	2.28	0.0	0.1	14.9	0.2	31	8

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Sol 3383 - MAHLI Onboard Focus Merge Product Information


target Tantallon_Castle - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3383MH0001730011200612C00				
best focus image:	3383MH0002650001200633R00	633	motor count:	14004	range (cm):	6.8		
range map product:	3383MH0002650001200634S00	634	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	11-Feb-22		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	30	acquired on sol:	3383	focus merged on sol:	3383			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3383MH0001730021200613C00	613	13884	7.67	-0.2	0.2	33.9	0.7	255	1
3383MH0001730021200614C00	614	13914	7.44	-0.2	0.2	33.1	0.7	223	2
3383MH0001730021200615C00	615	13944	7.23	-0.2	0.2	32.3	0.6	191	3
3383MH0001730021200616C00	616	13974	7.02	-0.2	0.2	31.6	0.6	159	4
3383MH0001730021200617C00	617	14004	6.82	-0.2	0.2	30.9	0.6	127	5
3383MH0001730021200618C00	618	14034	6.63	-0.2	0.2	30.2	0.6	85	6
3383MH0001730021200619C00	619	14064	6.44	-0.2	0.1	29.6	0.5	63	7
3383MH0001730021200620C00	620	14094	6.27	-0.1	0.1	29.0	0.5	31	8

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Sol 3383 - MAHLI Onboard Focus Merge Product Information


target Tantallon_Castle - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3383MH0001730011200622C00				
best focus image:	3383MH0002650001200631R00	631	motor count:	14007	range (cm):	6.8		
range map product:	3383MH0002650001200632S00	632	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	11-Feb-22		merge sequence:	mhli00265	merge type:	Basic		
motor count interval:	30	acquired on sol:	3383	focus merged on sol:	3383			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3383MH0001730021200623C00	623	13887	7.65	-0.2	0.2	33.8	0.7	255	1
3383MH0001730021200624C00	624	13917	7.42	-0.2	0.2	33.0	0.6	223	2
3383MH0001730021200625C00	625	13947	7.21	-0.2	0.2	32.3	0.6	191	3
3383MH0001730021200626C00	626	13977	7.00	-0.2	0.2	31.5	0.6	159	4
3383MH0001730021200627C00	627	14007	6.80	-0.2	0.2	30.8	0.6	127	5
3383MH0001730021200628C00	628	14037	6.61	-0.2	0.2	30.2	0.5	85	6
3383MH0001730021200629C00	629	14067	6.42	-0.2	0.1	29.5	0.5	63	7
3383MH0001730021200630C00	630	14097	6.25	-0.1	0.1	28.9	0.5	31	8

updated: 12_April_2022

Sol 3385 - MAHLI Onboard Focus Merge Product Information


target Kintradwell - after DRT - APXS spot 2 - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3385MH0007630011200639C00				
best focus image:	3386MH0001530001200688R00	688	motor count:	14031	range (cm):	6.6		
range map product:	3386MH0001530001200689S00	689	acquired sequence:	mhli00763	stack type:	Relative		
acquired on date:	13-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	24	acquired on sol:	3385	focus merged on sol:	3386			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3385MH0007630031200641C00	641	13935	7.29	-0.2	0.2	32.6	0.6	255	1
3385MH0007630031200642C00	642	13959	7.12	-0.2	0.2	32.0	0.6	223	2
3385MH0007630031200643C00	643	13983	6.96	-0.2	0.2	31.4	0.6	191	3
3385MH0007630031200644C00	644	14007	6.80	-0.2	0.2	30.8	0.6	159	4
3385MH0007630031200645C00	645	14031	6.64	-0.2	0.2	30.3	0.6	127	5
3385MH0007630031200646C00	646	14055	6.50	-0.2	0.1	29.8	0.5	85	6
3385MH0007630031200647C00	647	14079	6.35	-0.2	0.1	29.3	0.5	63	7
3385MH0007630031200648C00	648	14103	6.21	-0.1	0.1	28.8	0.5	31	8

updated: 12_April_2022

Sol 3385 - MAHLI Onboard Focus Merge Product Information


target Kintradwell - after DRT - APXS spot 2 - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3385MH0007630011200650C00				
best focus image:	3386MH0001530001200686R00	686	motor count:	14031	range (cm):	6.6		
range map product:	3386MH0001530001200687S00	687	acquired sequence:	mhli00763	stack type:	Relative		
acquired on date:	13-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	24	acquired on sol:	3385	focus merged on sol:	3386			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3385MH0007630031200652C00	652	13935	7.29	-0.2	0.2	32.6	0.6	255	1
3385MH0007630031200653C00	653	13959	7.12	-0.2	0.2	32.0	0.6	223	2
3385MH0007630031200654C00	654	13983	6.96	-0.2	0.2	31.4	0.6	191	3
3385MH0007630031200655C00	655	14007	6.80	-0.2	0.2	30.8	0.6	159	4
3385MH0007630031200656C00	656	14031	6.64	-0.2	0.2	30.3	0.6	127	5
3385MH0007630031200657C00	657	14055	6.50	-0.2	0.1	29.8	0.5	85	6
3385MH0007630031200658C00	658	14079	6.35	-0.2	0.1	29.3	0.5	63	7
3385MH0007630031200659C00	659	14103	6.21	-0.1	0.1	28.8	0.5	31	8

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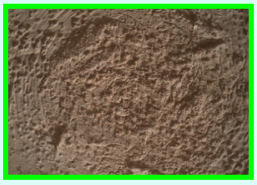
Sol 3385 - MAHLI Onboard Focus Merge Product Information




target Kintradwell - after DRT - APXS spot 2 - ~1 cm standoff

		CDPID	corresponding frame:	3385MH0007850011200661C00				
best focus image:	3386MH0001530001200684R00	684	motor count:	15192	range (cm):	2.7		
range map product:	3386MH0001530001200685S00	685	acquired sequence:	mhli00785	stack type:	Relative		
acquired on date:	13-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	42	acquired on sol:	3385	focus merged on sol:	3386			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3385MH0007850031200663C00	663	15024	2.99	-0.1	0.1	17.4	0.2	255	1
3385MH0007850031200664C00	664	15066	2.90	-0.1	0.1	17.1	0.2	223	2
3385MH0007850031200665C00	665	15108	2.82	-0.1	0.1	16.8	0.2	191	3
3385MH0007850031200666C00	666	15150	2.74	-0.1	0.1	16.5	0.2	159	4
3385MH0007850031200667C00	667	15192	2.66	-0.1	0.1	16.3	0.2	127	5
3385MH0007850031200668C00	668	15234	2.59	-0.1	0.1	16.0	0.2	85	6
3385MH0007850031200669C00	669	15276	2.52	-0.1	0.1	15.8	0.2	63	7
3385MH0007850031200670C00	670	15318	2.45	0.0	0.1	15.5	0.2	31	8

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Sol 3385 - MAHLI Onboard Focus Merge Product Information


target Kintradwell - after DRT - APXS spot 1 - ~5 cm standoff

		CDPID	corresponding frame:	3385MH0007630011200672C00				
best focus image:	3386MH0001530001200682R00	682	motor count:	14021	range (cm):	6.7		
range map product:	3386MH0001530001200683S00	683	acquired sequence:	mhli00763	stack type:	Relative		
acquired on date:	13-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	24	acquired on sol:	3385	focus merged on sol:	3386			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3385MH0007630031200674C00	674	13925	7.36	-0.2	0.2	32.8	0.6	255	1
3385MH0007630031200675C00	675	13949	7.19	-0.2	0.2	32.2	0.6	223	2
3385MH0007630031200676C00	676	13973	7.02	-0.2	0.2	31.6	0.6	191	3
3385MH0007630031200677C00	677	13997	6.86	-0.2	0.2	31.1	0.6	159	4
3385MH0007630031200678C00	678	14021	6.71	-0.2	0.2	30.5	0.6	127	5
3385MH0007630031200679C00	679	14045	6.56	-0.2	0.1	30.0	0.5	85	6
3385MH0007630031200680C00	680	14069	6.41	-0.2	0.1	29.5	0.5	63	7
3385MH0007630031200681C00	681	14093	6.27	-0.1	0.1	29.0	0.5	31	8

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Sol 3387 - MAHLI Onboard Focus Merge Product Information


target Loch_Garten - after DRT - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3387MH0007630011200698C00			
best focus image:	3387MH0001930001200734R00		734	motor count:	14020	range (cm):	6.7	
range map product:	3387MH0001930001200735S00		735	acquired sequence:	mhli00763	stack type:	Relative	
acquired on date:	15-Feb-22			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	24	acquired on sol:	3387	focus merged on sol:	3387			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3387MH0007630031200700C00	700	13924	7.37	-0.2	0.2	32.8	0.6	255	1
3387MH0007630031200701C00	701	13948	7.20	-0.2	0.2	32.2	0.6	223	2
3387MH0007630031200702C00	702	13972	7.03	-0.2	0.2	31.7	0.6	191	3
3387MH0007630031200703C00	703	13996	6.87	-0.2	0.2	31.1	0.6	159	4
3387MH0007630031200704C00	704	14020	6.71	-0.2	0.2	30.5	0.6	127	5
3387MH0007630031200705C00	705	14044	6.56	-0.2	0.1	30.0	0.5	85	6
3387MH0007630031200706C00	706	14068	6.42	-0.2	0.1	29.5	0.5	63	7
3387MH0007630031200707C00	707	14092	6.28	-0.1	0.1	29.0	0.5	31	8

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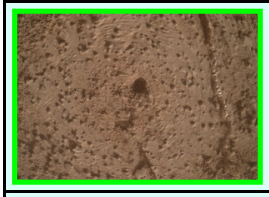
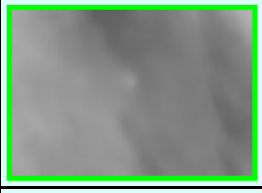
Sol 3387 - MAHLI Onboard Focus Merge Product Information

target Loch_Garten - after DRT - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3387MH0007630011200709C00			
best focus image:	3387MH0001930001200732R00		732	motor count:	14030	range (cm):	6.7	
range map product:	3387MH0001930001200733S00		733	acquired sequence:	mhli00763	stack type:	Relative	
acquired on date:	15-Feb-22			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	24	acquired on sol:	3387	focus merged on sol:	3387			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3387MH0007630031200711C00	711	13934	7.30	-0.2	0.2	32.6	0.6	255	1
3387MH0007630031200712C00	712	13958	7.13	-0.2	0.2	32.0	0.6	223	2
3387MH0007630031200713C00	713	13982	6.96	-0.2	0.2	31.4	0.6	191	3
3387MH0007630031200714C00	714	14006	6.80	-0.2	0.2	30.9	0.6	159	4
3387MH0007630031200715C00	715	14030	6.65	-0.2	0.2	30.3	0.6	127	5
3387MH0007630031200716C00	716	14054	6.50	-0.2	0.1	29.8	0.5	85	6
3387MH0007630031200717C00	717	14078	6.36	-0.2	0.1	29.3	0.5	63	7
3387MH0007630031200718C00	718	14102	6.22	-0.1	0.1	28.8	0.5	31	8

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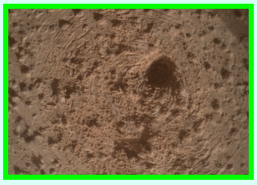
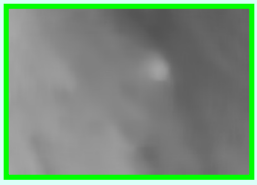
Sol 3387 - MAHLI Onboard Focus Merge Product Information

target Loch_Garten - after DRT - ~1 cm standoff

		CDPID	corresponding frame:	3387MH0006030011200720C00			
best focus image:	3387MH0001930001200730R00	730	motor count:	15168	range (cm):	2.7	
range map product:	3387MH0001930001200731S00	731	acquired sequence:	mhli00603	stack type:	Relative	
acquired on date:	15-Feb-22		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	54	acquired on sol:	3387	focus merged on sol:	3387		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3387MH0006030031200722C00	722	14952	3.14	-0.1	0.1	18.0	0.2	255	1
3387MH0006030031200723C00	723	15006	3.03	-0.1	0.1	17.6	0.2	223	2
3387MH0006030031200724C00	724	15060	2.91	-0.1	0.1	17.2	0.2	191	3
3387MH0006030031200725C00	725	15114	2.81	-0.1	0.1	16.8	0.2	159	4
3387MH0006030031200726C00	726	15168	2.71	-0.1	0.1	16.4	0.2	127	5
3387MH0006030031200727C00	727	15222	2.61	-0.1	0.1	16.1	0.2	85	6
3387MH0006030031200728C00	728	15276	2.52	-0.1	0.1	15.8	0.2	63	7
3387MH0006030031200729C00	729	15330	2.43	0.0	0.1	15.4	0.2	31	8

updated: 07_October_2022

Sol 3388 - MAHLI Onboard Focus Merge Product Information

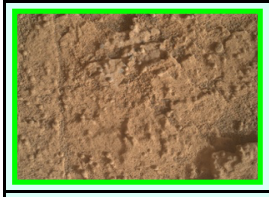
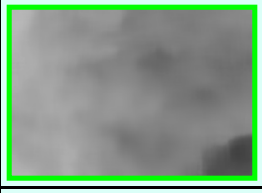

target Tappington - stereo-1 - ~35 mm standoff

		CDPID	corresponding frame:	3388MH0001820011200748C00				
best focus image:	3388MH0001630001200824R00	824	motor count:	14227	range (cm):	5.6		
range map product:	3388MH0001630001200825S00	825	acquired sequence:	mhli00182	stack type:	Relative		
acquired on date:	16-Feb-22		merge sequence:	mhli00163	merge type:	Basic		
motor count interval:	24	acquired on sol:	3388	focus merged on sol:	3388			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3388MH0001820021200749C00	749	14131	6.06	-0.1	0.1	28.2	0.5	255	1
3388MH0001820021200750C00	750	14155	5.93	-0.1	0.1	27.8	0.5	223	2
3388MH0001820021200751C00	751	14179	5.80	-0.1	0.1	27.3	0.4	191	3
3388MH0001820021200752C00	752	14203	5.68	-0.1	0.1	26.9	0.4	159	4
3388MH0001820021200753C00	753	14227	5.56	-0.1	0.1	26.5	0.4	127	5
3388MH0001820021200754C00	754	14251	5.44	-0.1	0.1	26.1	0.4	85	6
3388MH0001820021200755C00	755	14275	5.33	-0.1	0.1	25.7	0.4	63	7
3388MH0001820021200756C00	756	14299	5.22	-0.1	0.1	25.3	0.4	31	8

updated: 07_October_2022

Sol 3388 - MAHLI Onboard Focus Merge Product Information

target Tappington - stereo-2 - ~35 mm standoff

		CDPID	corresponding frame:	3388MH0001820011200758C00				
best focus image:	3388MH0001630001200822R00	822	motor count:	14230	range (cm):	5.5		
range map product:	3388MH0001630001200823S00	823	acquired sequence:	mhli00182	stack type:	Relative		
acquired on date:	16-Feb-22		merge sequence:	mhli00163	merge type:	Basic		
motor count interval:	24	acquired on sol:	3388	focus merged on sol:	3388			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3388MH0001820021200759C00	759	14134	6.04	-0.1	0.1	28.2	0.5	255	1
3388MH0001820021200760C00	760	14158	5.91	-0.1	0.1	27.7	0.4	223	2
3388MH0001820021200761C00	761	14182	5.78	-0.1	0.1	27.3	0.4	191	3
3388MH0001820021200762C00	762	14206	5.66	-0.1	0.1	26.8	0.4	159	4
3388MH0001820021200763C00	763	14230	5.54	-0.1	0.1	26.4	0.4	127	5
3388MH0001820021200764C00	764	14254	5.43	-0.1	0.1	26.0	0.4	85	6
3388MH0001820021200765C00	765	14278	5.32	-0.1	0.1	25.6	0.4	63	7
3388MH0001820021200766C00	766	14302	5.21	-0.1	0.1	25.2	0.4	31	8

updated: 07_October_2022

Sol 3388 - MAHLI Onboard Focus Merge Product Information

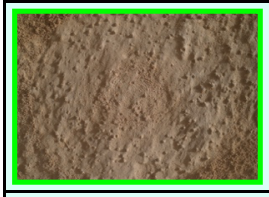

target Loch_Coruisk- after DRT - APXS spot 2 - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3388MH0007230011200771C00				
best focus image:	3388MH0001630001200820R00	820	motor count:	13990	range (cm):	6.9		
range map product:	3388MH0001630001200821S00	821	acquired sequence:	mhli00723	stack type:	Relative		
acquired on date:	16-Feb-22		merge sequence:	mhli00163	merge type:	Basic		
motor count interval:	36	acquired on sol:	3388	focus merged on sol:	3388			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3388MH0007230031200773C00	773	13846	7.98	-0.2	0.2	35.0	0.7	255	1
3388MH0007230031200774C00	774	13882	7.69	-0.2	0.2	34.0	0.7	223	2
3388MH0007230031200775C00	775	13918	7.42	-0.2	0.2	33.0	0.6	191	3
3388MH0007230031200776C00	776	13954	7.16	-0.2	0.2	32.1	0.6	159	4
3388MH0007230031200777C00	777	13990	6.91	-0.2	0.2	31.2	0.6	127	5
3388MH0007230031200778C00	778	14026	6.68	-0.2	0.2	30.4	0.6	85	6
3388MH0007230031200779C00	779	14062	6.45	-0.2	0.1	29.6	0.5	63	7
3388MH0007230031200780C00	780	14098	6.24	-0.1	0.1	28.9	0.5	31	8

updated: 07_October_2022

Sol 3388 - MAHLI Onboard Focus Merge Product Information




target Loch_Coruisk- after DRT - APXS spot 2 - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3388MH0007230011200782C00				
best focus image:	3388MH0001630001200818R00	818	motor count:	13992	range (cm):	6.9		
range map product:	3388MH0001630001200819S00	819	acquired sequence:	mhli00723	stack type:	Relative		
acquired on date:	16-Feb-22		merge sequence:	mhli00163	merge type:	Basic		
motor count interval:	36	acquired on sol:	3388	focus merged on sol:	3388			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3388MH0007230031200784C00	784	13848	7.96	-0.2	0.2	34.9	0.7	255	1
3388MH0007230031200785C00	785	13884	7.67	-0.2	0.2	33.9	0.7	223	2
3388MH0007230031200786C00	786	13920	7.40	-0.2	0.2	32.9	0.6	191	3
3388MH0007230031200787C00	787	13956	7.14	-0.2	0.2	32.0	0.6	159	4
3388MH0007230031200788C00	788	13992	6.90	-0.2	0.2	31.2	0.6	127	5
3388MH0007230031200789C00	789	14028	6.66	-0.2	0.2	30.4	0.6	85	6
3388MH0007230031200790C00	790	14064	6.44	-0.2	0.1	29.6	0.5	63	7
3388MH0007230031200791C00	791	14100	6.23	-0.1	0.1	28.8	0.5	31	8

updated: 07_October_2022

Sol 3388 - MAHLI Onboard Focus Merge Product Information


target Loch_Coruisk- after DRT - APXS spot 2 - ~1 cm standoff

		CDPID	corresponding frame:	3388MH0006580011200793C00				
best focus image:	3388MH0001630001200816R00	816	motor count:	15063	range (cm):	2.9		
range map product:	3388MH0001630001200817S00	817	acquired sequence:	mhli00658	stack type:	Relative		
acquired on date:	16-Feb-22		merge sequence:	mhli00163	merge type:	Basic		
motor count interval:	72	acquired on sol:	3388	focus merged on sol:	3388			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3388MH0006580031200795C00	795	14775	3.58	-0.1	0.1	19.5	0.3	255	1
3388MH0006580031200796C00	796	14847	3.39	-0.1	0.1	18.8	0.2	223	2
3388MH0006580031200797C00	797	14919	3.22	-0.1	0.1	18.2	0.2	191	3
3388MH0006580031200798C00	798	14991	3.06	-0.1	0.1	17.7	0.2	159	4
3388MH0006580031200799C00	799	15063	2.91	-0.1	0.1	17.1	0.2	127	5
3388MH0006580031200800C00	800	15135	2.77	-0.1	0.1	16.6	0.2	85	6
3388MH0006580031200801C00	801	15207	2.63	-0.1	0.1	16.2	0.2	63	7
3388MH0006580031200802C00	802	15279	2.51	0.0	0.1	15.7	0.2	31	8

updated: 07_October_2022

Sol 3388 - MAHLI Onboard Focus Merge Product Information

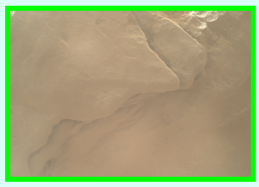

target Loch_Coruisk- after DRT - APXS spot 1 - ~5 cm standoff

		CDPID	corresponding frame:	3388MH0007230011200804C00				
best focus image:	3388MH0001630001200814R00	814	motor count:	13991	range (cm):	6.9		
range map product:	3388MH0001630001200815S00	815	acquired sequence:	mhli00723	stack type:	Relative		
acquired on date:	16-Feb-22		merge sequence:	mhli00163	merge type:	Basic		
motor count interval:	36	acquired on sol:	3388	focus merged on sol:	3388			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3388MH0007230031200806C00	806	13847	7.97	-0.2	0.2	34.9	0.7	255	1
3388MH0007230031200807C00	807	13883	7.68	-0.2	0.2	33.9	0.7	223	2
3388MH0007230031200808C00	808	13919	7.41	-0.2	0.2	33.0	0.6	191	3
3388MH0007230031200809C00	809	13955	7.15	-0.2	0.2	32.1	0.6	159	4
3388MH0007230031200810C00	810	13991	6.90	-0.2	0.2	31.2	0.6	127	5
3388MH0007230031200811C00	811	14027	6.67	-0.2	0.2	30.4	0.6	85	6
3388MH0007230031200812C00	812	14063	6.45	-0.2	0.1	29.6	0.5	63	7
3388MH0007230031200813C00	813	14099	6.24	-0.1	0.1	28.9	0.5	31	8

updated: 18_April_2022

Sol 3392 - MAHLI Onboard Focus Merge Product Information



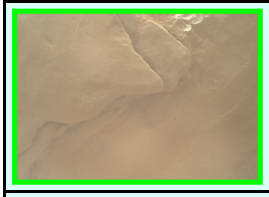
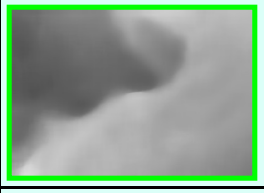

target Nithsdale - stereo-1 - ~4 cm standoff

		CDPID	corresponding frame:	3392MH0001730011200834C00				
best focus image:	3393MH0002270001200899R00	899	motor count:	14160	range (cm):	5.9		
range map product:	3393MH0002270001200900S00	900	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	20-Feb-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	30	acquired on sol:	3392	focus merged on sol:	3393			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3392MH0001730021200835C00	835	14040	6.59	-0.2	0.2	30.1	0.5	255	1
3392MH0001730021200836C00	836	14070	6.41	-0.2	0.1	29.4	0.5	223	2
3392MH0001730021200837C00	837	14100	6.23	-0.1	0.1	28.8	0.5	191	3
3392MH0001730021200838C00	838	14130	6.06	-0.1	0.1	28.2	0.5	159	4
3392MH0001730021200839C00	839	14160	5.90	-0.1	0.1	27.7	0.4	127	5
3392MH0001730021200840C00	840	14190	5.74	-0.1	0.1	27.1	0.4	85	6
3392MH0001730021200841C00	841	14220	5.59	-0.1	0.1	26.6	0.4	63	7
3392MH0001730021200842C00	842	14250	5.45	-0.1	0.1	26.1	0.4	31	8

updated: 18_April_2022

Sol 3392 - MAHLI Onboard Focus Merge Product Information

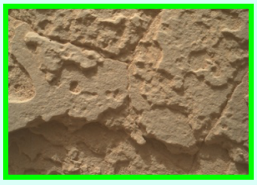
target Nithsdale - stereo-2 - ~4 cm standoff

		CDPID	corresponding frame:	3392MH0001730011200844C00				
best focus image:	3393MH0002270001200897R00	897	motor count:	14148	range (cm):	6.0		
range map product:	3393MH0002270001200898S00	898	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	20-Feb-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	30	acquired on sol:	3392	focus merged on sol:	3393			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3392MH0001730021200845C00	845	14028	6.66	-0.2	0.2	30.4	0.6	255	1
3392MH0001730021200846C00	846	14058	6.48	-0.2	0.1	29.7	0.5	223	2
3392MH0001730021200847C00	847	14088	6.30	-0.1	0.1	29.1	0.5	191	3
3392MH0001730021200848C00	848	14118	6.13	-0.1	0.1	28.5	0.5	159	4
3392MH0001730021200849C00	849	14148	5.96	-0.1	0.1	27.9	0.5	127	5
3392MH0001730021200850C00	850	14178	5.81	-0.1	0.1	27.3	0.4	85	6
3392MH0001730021200851C00	851	14208	5.65	-0.1	0.1	26.8	0.4	63	7
3392MH0001730021200852C00	852	14238	5.51	-0.1	0.1	26.3	0.4	31	8

updated: 18_April_2022

Sol 3392 - MAHLI Onboard Focus Merge Product Information



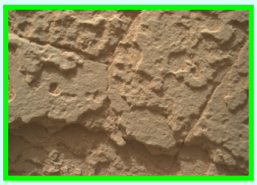

target Foss_Mine - stereo-1 - relief model position 1 - ~5 cm standoff

			CDPID	corresponding frame:	3392MH0001820011200856C00			
best focus image:	3393MH0002270001200895R00		895	motor count:	14001	range (cm):	6.8	
range map product:	3393MH0002270001200896S00		896	acquired sequence:	mhli00182	stack type:	Relative	
acquired on date:	20-Feb-22			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	24	acquired on sol:	3392	focus merged on sol:	3393			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3392MH0001820021200857C00	857	13905	7.51	-0.2	0.2	33.3	0.7	255	1
3392MH0001820021200858C00	858	13929	7.33	-0.2	0.2	32.7	0.6	223	2
3392MH0001820021200859C00	859	13953	7.16	-0.2	0.2	32.1	0.6	191	3
3392MH0001820021200860C00	860	13977	7.00	-0.2	0.2	31.5	0.6	159	4
3392MH0001820021200861C00	861	14001	6.84	-0.2	0.2	31.0	0.6	127	5
3392MH0001820021200862C00	862	14025	6.68	-0.2	0.2	30.4	0.6	85	6
3392MH0001820021200863C00	863	14049	6.53	-0.2	0.1	29.9	0.5	63	7
3392MH0001820021200864C00	864	14073	6.39	-0.2	0.1	29.4	0.5	31	8

updated: 18_April_2022

Sol 3392 - MAHLI Onboard Focus Merge Product Information



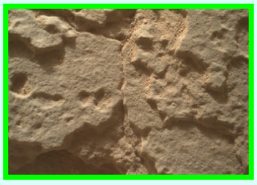

target Foss_Mine - stereo-2 - relief model position 2 - ~5 cm standoff

			CDPID	corresponding frame:	3392MH0001820011200866C00			
best focus image:	3393MH0002270001200893R00		893	motor count:	13999	range (cm):	6.9	
range map product:	3393MH0002270001200894S00		894	acquired sequence:	mhli00182	stack type:	Relative	
acquired on date:	20-Feb-22			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	24	acquired on sol:	3392	focus merged on sol:	3393			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3392MH0001820021200867C00	867	13903	7.53	-0.2	0.2	33.4	0.7	255	1
3392MH0001820021200868C00	868	13927	7.35	-0.2	0.2	32.8	0.6	223	2
3392MH0001820021200869C00	869	13951	7.18	-0.2	0.2	32.2	0.6	191	3
3392MH0001820021200870C00	870	13975	7.01	-0.2	0.2	31.6	0.6	159	4
3392MH0001820021200871C00	871	13999	6.85	-0.2	0.2	31.0	0.6	127	5
3392MH0001820021200872C00	872	14023	6.70	-0.2	0.2	30.5	0.6	85	6
3392MH0001820021200873C00	873	14047	6.55	-0.2	0.1	29.9	0.5	63	7
3392MH0001820021200874C00	874	14071	6.40	-0.2	0.1	29.4	0.5	31	8

updated: 18_April_2022

Sol 3392 - MAHLI Onboard Focus Merge Product Information




target Foss_Mine - ~1 cm standoff

		CDPID	corresponding frame:	3392MH0007430011200882C00			
best focus image:	3393MH0002270001200891R00	891	motor count:	15111	range (cm):	2.8	
range map product:	3393MH0002270001200892S00	892	acquired sequence:	mhli00743	stack type:	Relative	
acquired on date:	20-Feb-22		merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	36	acquired on sol:	3392	focus merged on sol:	3393		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3392MH0007430021200883C00	883	14967	3.11	-0.1	0.1	17.8	0.2	255	1
3392MH0007430021200884C00	884	15003	3.03	-0.1	0.1	17.6	0.2	223	2
3392MH0007430021200885C00	885	15039	2.96	-0.1	0.1	17.3	0.2	191	3
3392MH0007430021200886C00	886	15075	2.88	-0.1	0.1	17.1	0.2	159	4
3392MH0007430021200887C00	887	15111	2.81	-0.1	0.1	16.8	0.2	127	5
3392MH0007430021200888C00	888	15147	2.74	-0.1	0.1	16.6	0.2	85	6
3392MH0007430021200889C00	889	15183	2.68	-0.1	0.1	16.3	0.2	63	7
3392MH0007430021200890C00	890	15219	2.61	-0.1	0.1	16.1	0.2	31	8

updated: 18_April_2022

Sol 3395 - MAHLI Onboard Focus Merge Product Information


target Galdenoch - after DRT - APXS spot 2 - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3395MH0006990011200905C00				
best focus image:	3395MH0001530001200954R00	954	motor count:	13968	range (cm):	7.1		
range map product:	3395MH0001530001200955S00	955	acquired sequence:	mhli00699	stack type:	Relative		
acquired on date:	23-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	30	acquired on sol:	3395	focus merged on sol:	3395			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3395MH0006990031200907C00	907	13848	7.96	-0.2	0.2	34.9	0.7	255	1
3395MH0006990031200908C00	908	13878	7.72	-0.2	0.2	34.1	0.7	223	2
3395MH0006990031200909C00	909	13908	7.49	-0.2	0.2	33.3	0.7	191	3
3395MH0006990031200910C00	910	13938	7.27	-0.2	0.2	32.5	0.6	159	4
3395MH0006990031200911C00	911	13968	7.06	-0.2	0.2	31.7	0.6	127	5
3395MH0006990031200912C00	912	13998	6.86	-0.2	0.2	31.0	0.6	85	6
3395MH0006990031200913C00	913	14028	6.66	-0.2	0.2	30.4	0.6	63	7
3395MH0006990031200914C00	914	14058	6.48	-0.2	0.1	29.7	0.5	31	8

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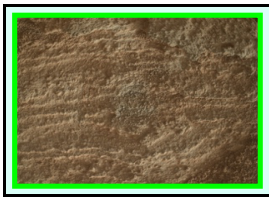
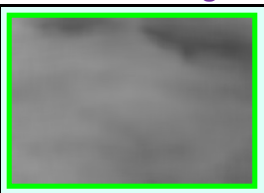
Sol 3395 - MAHLI Onboard Focus Merge Product Information

target Galdenoch - after DRT - APXS spot 2 - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3395MH0006990011200916C00				
best focus image:	3395MH0001530001200952R00	952	motor count:	13976	range (cm):	7.0		
range map product:	3395MH0001530001200953S00	953	acquired sequence:	mhli00699	stack type:	Relative		
acquired on date:	23-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	30	acquired on sol:	3395	focus merged on sol:	3395			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3395MH0006990031200918C00	918	13856	7.89	-0.2	0.2	34.7	0.7	255	1
3395MH0006990031200919C00	919	13886	7.66	-0.2	0.2	33.9	0.7	223	2
3395MH0006990031200920C00	920	13916	7.43	-0.2	0.2	33.1	0.6	191	3
3395MH0006990031200921C00	921	13946	7.21	-0.2	0.2	32.3	0.6	159	4
3395MH0006990031200922C00	922	13976	7.00	-0.2	0.2	31.6	0.6	127	5
3395MH0006990031200923C00	923	14006	6.80	-0.2	0.2	30.9	0.6	85	6
3395MH0006990031200924C00	924	14036	6.61	-0.2	0.2	30.2	0.5	63	7
3395MH0006990031200925C00	925	14066	6.43	-0.2	0.1	29.5	0.5	31	8

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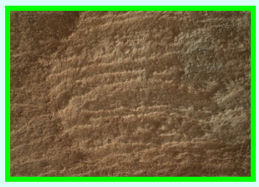
Sol 3395 - MAHLI Onboard Focus Merge Product Information




target Galdenoch - after DRT - APXS spot 1 - ~5 cm standoff

		CDPID	corresponding frame:	3395MH0006990011200927C00				
best focus image:	3395MH0001530001200950R00	950	motor count:	13979	range (cm):	7.0		
range map product:	3395MH0001530001200951S00	951	acquired sequence:	mhli00699	stack type:	Relative		
acquired on date:	23-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	30	acquired on sol:	3395	focus merged on sol:	3395			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3395MH0006990031200929C00	929	13859	7.87	-0.2	0.2	34.6	0.7	255	1
3395MH0006990031200930C00	930	13889	7.63	-0.2	0.2	33.8	0.7	223	2
3395MH0006990031200931C00	931	13919	7.41	-0.2	0.2	33.0	0.6	191	3
3395MH0006990031200932C00	932	13949	7.19	-0.2	0.2	32.2	0.6	159	4
3395MH0006990031200933C00	933	13979	6.98	-0.2	0.2	31.5	0.6	127	5
3395MH0006990031200934C00	934	14009	6.79	-0.2	0.2	30.8	0.6	85	6
3395MH0006990031200935C00	935	14039	6.59	-0.2	0.2	30.1	0.5	63	7
3395MH0006990031200936C00	936	14069	6.41	-0.2	0.1	29.5	0.5	31	8

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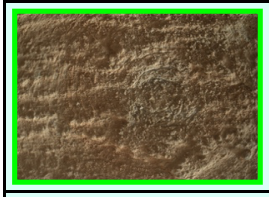
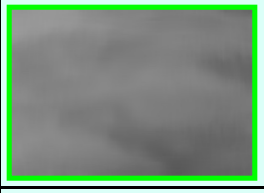
Sol 3395 - MAHLI Onboard Focus Merge Product Information

target Galdenoch - after DRT - APXS spot 2 - ~1 cm standoff

		CDPID	corresponding frame:	3395MH0008230011200938C00				
best focus image:	3395MH0001530001200948R00	948	motor count:	14975	range (cm):	3.1		
range map product:	3395MH0001530001200949S00	949	acquired sequence:	mhli00823	stack type:	Relative		
acquired on date:	23-Feb-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	60	acquired on sol:	3395	focus merged on sol:	3395			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3395MH0008230031200940C00	940	14735	3.69	-0.1	0.1	19.9	0.3	255	1
3395MH0008230031200941C00	941	14795	3.52	-0.1	0.1	19.3	0.3	223	2
3395MH0008230031200942C00	942	14855	3.37	-0.1	0.1	18.8	0.2	191	3
3395MH0008230031200943C00	943	14915	3.23	-0.1	0.1	18.3	0.2	159	4
3395MH0008230031200944C00	944	14975	3.09	-0.1	0.1	17.8	0.2	127	5
3395MH0008230031200945C00	945	15035	2.96	-0.1	0.1	17.3	0.2	85	6
3395MH0008230031200946C00	946	15095	2.84	-0.1	0.1	16.9	0.2	63	7
3395MH0008230031200947C00	947	15155	2.73	-0.1	0.1	16.5	0.2	31	8

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Sol 3396 - MAHLI Onboard Focus Merge Product Information


target Scousburgh - after DRT - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3396MH0007630011200964C00			
best focus image:	3397MH0001630001201038R00		1038	motor count:	13998	range (cm):	6.9	
range map product:	3397MH0001630001201039S00		1039	acquired sequence:	mhli00763	stack type:	Relative	
acquired on date:	24-Feb-22			merge sequence:	mhli00163	merge type:	Basic	
motor count interval:	24	acquired on sol:	3396	focus merged on sol:	3397			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3396MH0007630031200966C00	966	13902	7.53	-0.2	0.2	33.4	0.7	255	1
3396MH0007630031200967C00	967	13926	7.36	-0.2	0.2	32.8	0.6	223	2
3396MH0007630031200968C00	968	13950	7.18	-0.2	0.2	32.2	0.6	191	3
3396MH0007630031200969C00	969	13974	7.02	-0.2	0.2	31.6	0.6	159	4
3396MH0007630031200970C00	970	13998	6.86	-0.2	0.2	31.0	0.6	127	5
3396MH0007630031200971C00	971	14022	6.70	-0.2	0.2	30.5	0.6	85	6
3396MH0007630031200972C00	972	14046	6.55	-0.2	0.1	30.0	0.5	63	7
3396MH0007630031200973C00	973	14070	6.41	-0.2	0.1	29.4	0.5	31	8

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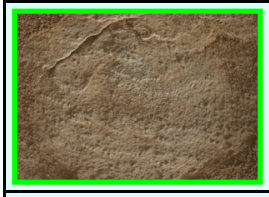
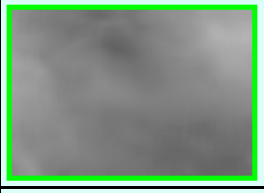
Sol 3396 - MAHLI Onboard Focus Merge Product Information

target Scousburgh - after DRT - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3396MH0007630011200975C00			
best focus image:	3397MH0001630001201036R00		1036	motor count:	13997	range (cm):	6.9	
range map product:	3397MH0001630001201037S00		1037	acquired sequence:	mhli00763	stack type:	Relative	
acquired on date:	24-Feb-22			merge sequence:	mhli00163	merge type:	Basic	
motor count interval:	24	acquired on sol:	3396	focus merged on sol:	3397			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3396MH0007630031200977C00	977	13901	7.54	-0.2	0.2	33.4	0.7	255	1
3396MH0007630031200978C00	978	13925	7.36	-0.2	0.2	32.8	0.6	223	2
3396MH0007630031200979C00	979	13949	7.19	-0.2	0.2	32.2	0.6	191	3
3396MH0007630031200980C00	980	13973	7.02	-0.2	0.2	31.6	0.6	159	4
3396MH0007630031200981C00	981	13997	6.86	-0.2	0.2	31.1	0.6	127	5
3396MH0007630031200982C00	982	14021	6.71	-0.2	0.2	30.5	0.6	85	6
3396MH0007630031200983C00	983	14045	6.56	-0.2	0.1	30.0	0.5	63	7
3396MH0007630031200984C00	984	14069	6.41	-0.2	0.1	29.5	0.5	31	8

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Sol 3396 - MAHLI Onboard Focus Merge Product Information


target Scousburgh - after DRT - ~1 cm standoff

		CDPID	corresponding frame:	3396MH0008350011200986C00			
best focus image:	3397MH0001630001201034R00	1034	motor count:	15073	range (cm):	2.9	
range map product:	3397MH0001630001201035S00	1035	acquired sequence:	mhli00835	stack type:	Relative	
acquired on date:	24-Feb-22		merge sequence:	mhli00163	merge type:	Basic	
motor count interval:	30	acquired on sol:	3396	focus merged on sol:	3397		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3396MH0008350031200988C00	988	14953	3.14	-0.1	0.1	18.0	0.2	255	1
3396MH0008350031200989C00	989	14983	3.08	-0.1	0.1	17.7	0.2	223	2
3396MH0008350031200990C00	990	15013	3.01	-0.1	0.1	17.5	0.2	191	3
3396MH0008350031200991C00	991	15043	2.95	-0.1	0.1	17.3	0.2	159	4
3396MH0008350031200992C00	992	15073	2.89	-0.1	0.1	17.1	0.2	127	5
3396MH0008350031200993C00	993	15103	2.83	-0.1	0.1	16.9	0.2	85	6
3396MH0008350031200994C00	994	15133	2.77	-0.1	0.1	16.7	0.2	63	7
3396MH0008350031200995C00	995	15163	2.71	-0.1	0.1	16.5	0.2	31	8

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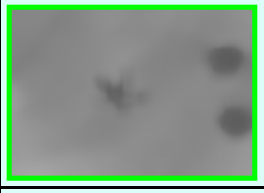
Sol 3396 - MAHLI Onboard Focus Merge Product Information

target Blackthorn_Salt - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3396MH0002240011200999C00			
best focus image:	3397MH0001630001201032R00	1032	motor count:	13977	range (cm):	7.0	
range map product:	3397MH0001630001201033S00	1033	acquired sequence:	mhli00224	stack type:	Relative	
acquired on date:	24-Feb-22		merge sequence:	mhli00163	merge type:	Basic	
motor count interval:	42	acquired on sol:	3396	focus merged on sol:	3397		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3396MH0002240021201000C00	1000	13809	8.29	-0.2	0.2	36.1	0.8	255	1
3396MH0002240021201001C00	1001	13851	7.94	-0.2	0.2	34.8	0.7	223	2
3396MH0002240021201002C00	1002	13893	7.60	-0.2	0.2	33.7	0.7	191	3
3396MH0002240021201003C00	1003	13935	7.29	-0.2	0.2	32.6	0.6	159	4
3396MH0002240021201004C00	1004	13977	7.00	-0.2	0.2	31.5	0.6	127	5
3396MH0002240021201005C00	1005	14019	6.72	-0.2	0.2	30.6	0.6	85	6
3396MH0002240021201006C00	1006	14061	6.46	-0.2	0.1	29.6	0.5	63	7
3396MH0002240021201007C00	1007	14103	6.21	-0.1	0.1	28.8	0.5	31	8

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Sol 3396 - MAHLI Onboard Focus Merge Product Information


target Blackthorn_Salt - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3396MH0002240011201009C00			
best focus image:	3397MH0001630001201030R00		1030	motor count:	13978	range (cm):	7.0	
range map product:	3397MH0001630001201031S00		1031	acquired sequence:	mhli00224	stack type:	Relative	
acquired on date:	24-Feb-22			merge sequence:	mhli00163	merge type:	Basic	
motor count interval:	42	acquired on sol:	3396	focus merged on sol:	3397			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3396MH0002240021201010C00	1010	13810	8.28	-0.2	0.2	36.1	0.8	255	1
3396MH0002240021201011C00	1011	13852	7.93	-0.2	0.2	34.8	0.7	223	2
3396MH0002240021201012C00	1012	13894	7.60	-0.2	0.2	33.6	0.7	191	3
3396MH0002240021201013C00	1013	13936	7.28	-0.2	0.2	32.5	0.6	159	4
3396MH0002240021201014C00	1014	13978	6.99	-0.2	0.2	31.5	0.6	127	5
3396MH0002240021201015C00	1015	14020	6.71	-0.2	0.2	30.5	0.6	85	6
3396MH0002240021201016C00	1016	14062	6.45	-0.2	0.1	29.6	0.5	63	7
3396MH0002240021201017C00	1017	14104	6.21	-0.1	0.1	28.8	0.5	31	8

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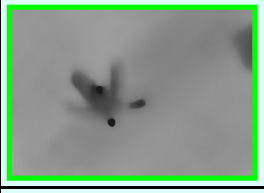
Sol 3396 - MAHLI Onboard Focus Merge Product Information

target Blackthorn_Salt - ~2 cm standoff

			CDPID	corresponding frame:	3396MH0001760011201019C00			
best focus image:	3397MH0001630001201028R00		1028	motor count:	14625	range (cm):	4.0	
range map product:	3397MH0001630001201029S00		1029	acquired sequence:	mhli00176	stack type:	Relative	
acquired on date:	24-Feb-22			merge sequence:	mhli00163	merge type:	Basic	
motor count interval:	48	acquired on sol:	3396	focus merged on sol:	3397			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3396MH0001760021201020C00	1020	14433	4.67	-0.1	0.1	23.3	0.3	255	1
3396MH0001760021201021C00	1021	14481	4.49	-0.1	0.1	22.7	0.3	223	2
3396MH0001760021201022C00	1022	14529	4.32	-0.1	0.1	22.1	0.3	191	3
3396MH0001760021201023C00	1023	14577	4.16	-0.1	0.1	21.5	0.3	159	4
3396MH0001760021201024C00	1024	14625	4.01	-0.1	0.1	21.0	0.3	127	5
3396MH0001760021201025C00	1025	14673	3.86	-0.1	0.1	20.5	0.3	85	6
3396MH0001760021201026C00	1026	14721	3.72	-0.1	0.1	20.0	0.3	63	7
3396MH0001760021201027C00	1027	14769	3.59	-0.1	0.1	19.5	0.3	31	8

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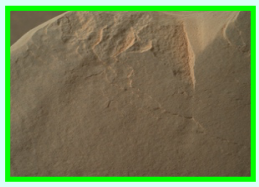
Sol 3398 - MAHLI Onboard Focus Merge Product Information




target Exnaboe - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3398MH0007400011201044C00				
best focus image:	3399MH0002270001201106R00	1106	motor count:	14001	range (cm):	6.8		
range map product:	3399MH0002270001201107S00	1107	acquired sequence:	mhli00740	stack type:	Relative		
acquired on date:	26-Feb-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	54	acquired on sol:	3398	focus merged on sol:	3399			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3398MH0007400031201046C00	1046	13785	8.50	-0.2	0.2	36.8	0.8	255	1
3398MH0007400031201047C00	1047	13839	8.03	-0.2	0.2	35.2	0.7	223	2
3398MH0007400031201048C00	1048	13893	7.60	-0.2	0.2	33.7	0.7	191	3
3398MH0007400031201049C00	1049	13947	7.21	-0.2	0.2	32.3	0.6	159	4
3398MH0007400031201050C00	1050	14001	6.84	-0.2	0.2	31.0	0.6	127	5
3398MH0007400031201051C00	1051	14055	6.50	-0.2	0.1	29.8	0.5	85	6
3398MH0007400031201052C00	1052	14109	6.18	-0.1	0.1	28.7	0.5	63	7
3398MH0007400031201053C00	1053	14163	5.88	-0.1	0.1	27.6	0.4	31	8

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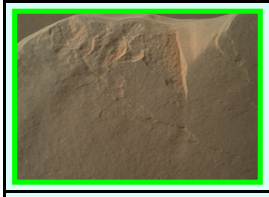
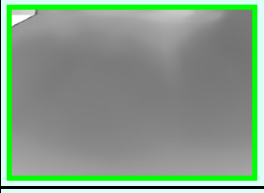
Sol 3398 - MAHLI Onboard Focus Merge Product Information

target Exnaboe - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3398MH0007400011201055C00				
best focus image:	3399MH0002270001201104R00	1104	motor count:	14011	range (cm):	6.8		
range map product:	3399MH0002270001201105S00	1105	acquired sequence:	mhli00740	stack type:	Relative		
acquired on date:	26-Feb-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	54	acquired on sol:	3398	focus merged on sol:	3399			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3398MH0007400031201057C00	1057	13795	8.41	-0.2	0.2	36.5	0.8	255	1
3398MH0007400031201058C00	1058	13849	7.95	-0.2	0.2	34.9	0.7	223	2
3398MH0007400031201059C00	1059	13903	7.53	-0.2	0.2	33.4	0.7	191	3
3398MH0007400031201060C00	1060	13957	7.14	-0.2	0.2	32.0	0.6	159	4
3398MH0007400031201061C00	1061	14011	6.77	-0.2	0.2	30.7	0.6	127	5
3398MH0007400031201062C00	1062	14065	6.44	-0.2	0.1	29.6	0.5	85	6
3398MH0007400031201063C00	1063	14119	6.12	-0.1	0.1	28.5	0.5	63	7
3398MH0007400031201064C00	1064	14173	5.83	-0.1	0.1	27.4	0.4	31	8

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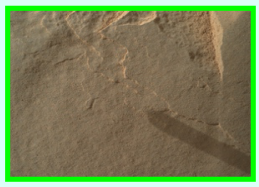
Sol 3398 - MAHLI Onboard Focus Merge Product Information




target Exnaboe - ~2 cm standoff

		CDPID	corresponding frame:	3398MH0008000011201066C00				
best focus image:	3399MH0002270001201102R00	1102	motor count:	14685	range (cm):	3.8		
range map product:	3399MH0002270001201103S00	1103	acquired sequence:	mhli00800	stack type:	Relative		
acquired on date:	26-Feb-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	54	acquired on sol:	3398	focus merged on sol:	3399			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3398MH0008000031201068C00	1068	14469	4.53	-0.1	0.1	22.9	0.3	255	1
3398MH0008000031201069C00	1069	14523	4.34	-0.1	0.1	22.2	0.3	223	2
3398MH0008000031201070C00	1070	14577	4.16	-0.1	0.1	21.5	0.3	191	3
3398MH0008000031201071C00	1071	14631	3.99	-0.1	0.1	20.9	0.3	159	4
3398MH0008000031201072C00	1072	14685	3.83	-0.1	0.1	20.4	0.3	127	5
3398MH0008000031201073C00	1073	14739	3.67	-0.1	0.1	19.8	0.3	85	6
3398MH0008000031201074C00	1074	14793	3.53	-0.1	0.1	19.3	0.3	63	7
3398MH0008000031201075C00	1075	14847	3.39	-0.1	0.1	18.8	0.2	31	8

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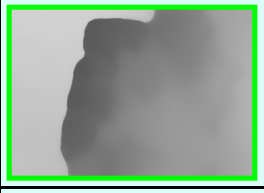
Sol 3398 - MAHLI Onboard Focus Merge Product Information

target Stinchar_Valley - stereo-1 - ~45 mm standoff

		CDPID	corresponding frame:	3398MH0003080011201079C00				
best focus image:	3399MH0002270001201100R00	1100	motor count:	14114	range (cm):	6.2		
range map product:	3399MH0002270001201101S00	1101	acquired sequence:	mhli00308	stack type:	Relative		
acquired on date:	26-Feb-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	66	acquired on sol:	3398	focus merged on sol:	3399			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3398MH0003080021201080C00	1080	13850	7.94	-0.2	0.2	34.9	0.7	255	1
3398MH0003080021201081C00	1081	13916	7.43	-0.2	0.2	33.1	0.6	223	2
3398MH0003080021201082C00	1082	13982	6.96	-0.2	0.2	31.4	0.6	191	3
3398MH0003080021201083C00	1083	14048	6.54	-0.2	0.1	29.9	0.5	159	4
3398MH0003080021201084C00	1084	14114	6.15	-0.1	0.1	28.6	0.5	127	5
3398MH0003080021201085C00	1085	14180	5.80	-0.1	0.1	27.3	0.4	85	6
3398MH0003080021201086C00	1086	14246	5.47	-0.1	0.1	26.1	0.4	63	7
3398MH0003080021201087C00	1087	14312	5.17	-0.1	0.1	25.1	0.4	31	8

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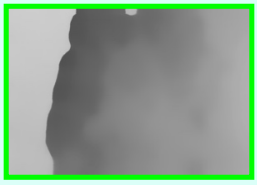
Sol 3398 - MAHLI Onboard Focus Merge Product Information

target Stinchar_Valley - stereo-2 - ~45 mm standoff

		CDPID	corresponding frame:	3398MH0003080011201089C00			
best focus image:	3399MH0002270001201098R00	1098	motor count:	14107	range (cm):	6.2	
range map product:	3399MH0002270001201099S00	1099	acquired sequence:	mhli00308	stack type:	Relative	
acquired on date:	26-Feb-22		merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	66	acquired on sol:	3398	focus merged on sol:	3399		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3398MH0003080021201090C00	1090	13843	8.00	-0.2	0.2	35.1	0.7	255	1
3398MH0003080021201091C00	1091	13909	7.48	-0.2	0.2	33.2	0.7	223	2
3398MH0003080021201092C00	1092	13975	7.01	-0.2	0.2	31.6	0.6	191	3
3398MH0003080021201093C00	1093	14041	6.58	-0.2	0.2	30.1	0.5	159	4
3398MH0003080021201094C00	1094	14107	6.19	-0.1	0.1	28.7	0.5	127	5
3398MH0003080021201095C00	1095	14173	5.83	-0.1	0.1	27.4	0.4	85	6
3398MH0003080021201096C00	1096	14239	5.50	-0.1	0.1	26.3	0.4	63	7
3398MH0003080021201097C00	1097	14305	5.20	-0.1	0.1	25.2	0.4	31	8

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Sol 3409 - MAHLI Onboard Focus Merge Product Information


target Skaw_Granite - after DRT - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3409MH0002990011201111C00			
best focus image:	3410MH0001930001201144R00		1144	motor count:	13989	range (cm):	6.9	
range map product:	3410MH0001930001201145S00		1145	acquired sequence:	mhli00299	stack type:	Relative	
acquired on date:	10-Mar-22			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	36		acquired on sol:	3409	focus merged on sol:	3410		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3409MH0002990021201112C00	1112	13845	7.98	-0.2	0.2	35.0	0.7	255	1
3409MH0002990021201113C00	1113	13881	7.70	-0.2	0.2	34.0	0.7	223	2
3409MH0002990021201114C00	1114	13917	7.42	-0.2	0.2	33.0	0.6	191	3
3409MH0002990021201115C00	1115	13953	7.16	-0.2	0.2	32.1	0.6	159	4
3409MH0002990021201116C00	1116	13989	6.92	-0.2	0.2	31.2	0.6	127	5
3409MH0002990021201117C00	1117	14025	6.68	-0.2	0.2	30.4	0.6	85	6
3409MH0002990021201118C00	1118	14061	6.46	-0.2	0.1	29.6	0.5	63	7
3409MH0002990021201119C00	1119	14097	6.25	-0.1	0.1	28.9	0.5	31	8

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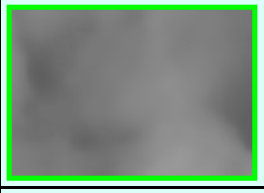
Sol 3409 - MAHLI Onboard Focus Merge Product Information

target Skaw_Granite - after DRT - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3409MH0002990011201121C00			
best focus image:	3410MH0001930001201142R00		1142	motor count:	13988	range (cm):	6.9	
range map product:	3410MH0001930001201143S00		1143	acquired sequence:	mhli00299	stack type:	Relative	
acquired on date:	10-Mar-22			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	36		acquired on sol:	3409	focus merged on sol:	3410		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3409MH0002990021201122C00	1122	13844	7.99	-0.2	0.2	35.0	0.7	255	1
3409MH0002990021201123C00	1123	13880	7.70	-0.2	0.2	34.0	0.7	223	2
3409MH0002990021201124C00	1124	13916	7.43	-0.2	0.2	33.1	0.6	191	3
3409MH0002990021201125C00	1125	13952	7.17	-0.2	0.2	32.1	0.6	159	4
3409MH0002990021201126C00	1126	13988	6.92	-0.2	0.2	31.3	0.6	127	5
3409MH0002990021201127C00	1127	14024	6.69	-0.2	0.2	30.4	0.6	85	6
3409MH0002990021201128C00	1128	14060	6.47	-0.2	0.1	29.7	0.5	63	7
3409MH0002990021201129C00	1129	14096	6.25	-0.1	0.1	28.9	0.5	31	8

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Sol 3409 - MAHLI Onboard Focus Merge Product Information

target Skaw_Granite - after DRT - ~1 cm standoff

		CDPID	corresponding frame:	3409MH0004260011201131C00			
best focus image:	3410MH0001930001201140R00	1140	motor count:	15057	range (cm):	2.9	
range map product:	3410MH0001930001201141S00	1141	acquired sequence:	mhli00426	stack type:	Relative	
acquired on date:	10-Mar-22		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	48	acquired on sol:	3409	focus merged on sol:	3410		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3409MH0004260021201132C00	1132	14865	3.35	-0.1	0.1	18.7	0.2	255	1
3409MH0004260021201133C00	1133	14913	3.23	-0.1	0.1	18.3	0.2	223	2
3409MH0004260021201134C00	1134	14961	3.12	-0.1	0.1	17.9	0.2	191	3
3409MH0004260021201135C00	1135	15009	3.02	-0.1	0.1	17.5	0.2	159	4
3409MH0004260021201136C00	1136	15057	2.92	-0.1	0.1	17.2	0.2	127	5
3409MH0004260021201137C00	1137	15105	2.82	-0.1	0.1	16.8	0.2	85	6
3409MH0004260021201138C00	1138	15153	2.73	-0.1	0.1	16.5	0.2	63	7
3409MH0004260021201139C00	1139	15201	2.65	-0.1	0.1	16.2	0.2	31	8

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Sol 3413 - MAHLI Onboard Focus Merge Product Information

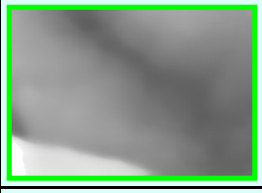

target Appleby - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3413MH0001730011201149C00			
best focus image:	3413MH0002270001201209R00	1209	motor count:	13994	range (cm):	6.9	
range map product:	3413MH0002270001201210S00	1210	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	13-Mar-22		merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	30	acquired on sol:	3413	focus merged on sol:	3413		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3413MH0001730021201150C00	1150	13874	7.75	-0.2	0.2	34.2	0.7	255	1
3413MH0001730021201151C00	1151	13904	7.52	-0.2	0.2	33.4	0.7	223	2
3413MH0001730021201152C00	1152	13934	7.30	-0.2	0.2	32.6	0.6	191	3
3413MH0001730021201153C00	1153	13964	7.09	-0.2	0.2	31.8	0.6	159	4
3413MH0001730021201154C00	1154	13994	6.88	-0.2	0.2	31.1	0.6	127	5
3413MH0001730021201155C00	1155	14024	6.69	-0.2	0.2	30.4	0.6	85	6
3413MH0001730021201156C00	1156	14054	6.50	-0.2	0.1	29.8	0.5	63	7
3413MH0001730021201157C00	1157	14084	6.32	-0.1	0.1	29.2	0.5	31	8

updated: 21_April_2022

Sol 3413 - MAHLI Onboard Focus Merge Product Information

target Appleby - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3413MH0001730011201159C00			
best focus image:	3413MH0002270001201207R00	1207	motor count:	14005	range (cm):	6.8	
range map product:	3413MH0002270001201208S00	1208	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	13-Mar-22		merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	30	acquired on sol:	3413	focus merged on sol:	3413		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3413MH0001730021201160C00	1160	13885	7.66	-0.2	0.2	33.9	0.7	255	1
3413MH0001730021201161C00	1161	13915	7.44	-0.2	0.2	33.1	0.6	223	2
3413MH0001730021201162C00	1162	13945	7.22	-0.2	0.2	32.3	0.6	191	3
3413MH0001730021201163C00	1163	13975	7.01	-0.2	0.2	31.6	0.6	159	4
3413MH0001730021201164C00	1164	14005	6.81	-0.2	0.2	30.9	0.6	127	5
3413MH0001730021201165C00	1165	14035	6.62	-0.2	0.2	30.2	0.6	85	6
3413MH0001730021201166C00	1166	14065	6.44	-0.2	0.1	29.6	0.5	63	7
3413MH0001730021201167C00	1167	14095	6.26	-0.1	0.1	28.9	0.5	31	8

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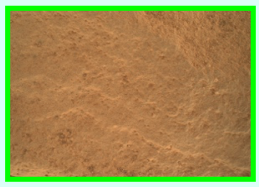
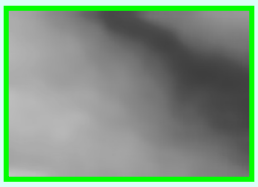
Sol 3413 - MAHLI Onboard Focus Merge Product Information

target Appleby - ~2 cm standoff

		CDPID	corresponding frame:	3413MH0003370011201169C00				
best focus image:	3413MH0002270001201205R00	1205	motor count:	14674	range (cm):	3.9		
range map product:	3413MH0002270001201206S00	1206	acquired sequence:	mhli00337	stack type:	Relative		
acquired on date:	13-Mar-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	42	acquired on sol:	3413	focus merged on sol:	3413			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3413MH0003370021201170C00	1170	14506	4.40	-0.1	0.1	22.4	0.3	255	1
3413MH0003370021201171C00	1171	14548	4.26	-0.1	0.1	21.9	0.3	223	2
3413MH0003370021201172C00	1172	14590	4.12	-0.1	0.1	21.4	0.3	191	3
3413MH0003370021201173C00	1173	14632	3.99	-0.1	0.1	20.9	0.3	159	4
3413MH0003370021201174C00	1174	14674	3.86	-0.1	0.1	20.5	0.3	127	5
3413MH0003370021201175C00	1175	14716	3.74	-0.1	0.1	20.1	0.3	85	6
3413MH0003370021201176C00	1176	14758	3.62	-0.1	0.1	19.7	0.3	63	7
3413MH0003370021201177C00	1177	14800	3.51	-0.1	0.1	19.3	0.3	31	8

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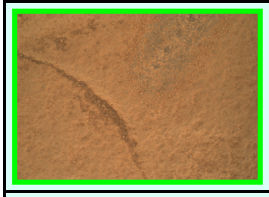
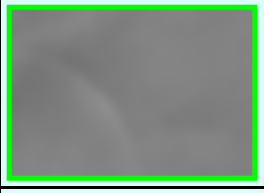
Sol 3413 - MAHLI Onboard Focus Merge Product Information

target Achvarasdal - stereo-1 - ~3 cm standoff

		CDPID	corresponding frame:	3413MH0002240011201181C00				
best focus image:	3413MH0002270001201203R00	1203	motor count:	14350	range (cm):	5.0		
range map product:	3413MH0002270001201204S00	1204	acquired sequence:	mhli00224	stack type:	Relative		
acquired on date:	13-Mar-22		merge sequence:	mhli00227	merge type:	Basic		
motor count interval:	42	acquired on sol:	3413	focus merged on sol:	3413			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3413MH0002240021201182C00	1182	14182	5.78	-0.1	0.1	27.3	0.4	255	1
3413MH0002240021201183C00	1183	14224	5.57	-0.1	0.1	26.5	0.4	223	2
3413MH0002240021201184C00	1184	14266	5.37	-0.1	0.1	25.8	0.4	191	3
3413MH0002240021201185C00	1185	14308	5.18	-0.1	0.1	25.1	0.4	159	4
3413MH0002240021201186C00	1186	14350	5.00	-0.1	0.1	24.5	0.4	127	5
3413MH0002240021201187C00	1187	14392	4.83	-0.1	0.1	23.9	0.4	85	6
3413MH0002240021201188C00	1188	14434	4.67	-0.1	0.1	23.3	0.3	63	7
3413MH0002240021201189C00	1189	14476	4.51	-0.1	0.1	22.8	0.3	31	8

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Sol 3413 - MAHLI Onboard Focus Merge Product Information

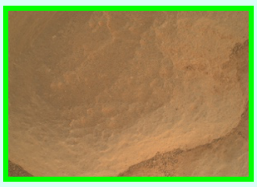

target Achvarasdal - stereo-2 - ~3 cm standoff

			CDPID	corresponding frame:	3413MH0002240011201191C00			
best focus image:	3413MH0002270001201201R00		1201	motor count:	14354	range (cm):	5.0	
range map product:	3413MH0002270001201202S00		1202	acquired sequence:	mhli00224	stack type:	Relative	
acquired on date:	13-Mar-22			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	42	acquired on sol:	3413	focus merged on sol:	3413			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3413MH0002240021201192C00	1192	14186	5.76	-0.1	0.1	27.2	0.4	255	1
3413MH0002240021201193C00	1193	14228	5.55	-0.1	0.1	26.5	0.4	223	2
3413MH0002240021201194C00	1194	14270	5.35	-0.1	0.1	25.8	0.4	191	3
3413MH0002240021201195C00	1195	14312	5.17	-0.1	0.1	25.1	0.4	159	4
3413MH0002240021201196C00	1196	14354	4.99	-0.1	0.1	24.4	0.4	127	5
3413MH0002240021201197C00	1197	14396	4.81	-0.1	0.1	23.8	0.4	85	6
3413MH0002240021201198C00	1198	14438	4.65	-0.1	0.1	23.3	0.3	63	7
3413MH0002240021201199C00	1199	14480	4.49	-0.1	0.1	22.7	0.3	31	8

updated: 21_April_2022

Sol 3415 - MAHLI Onboard Focus Merge Product Information



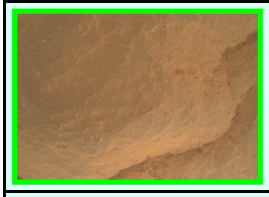
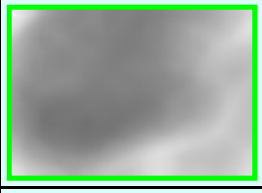

target Oosta - stereo-1 - ~45 mm standoff

		CDPID	corresponding frame:	3415MH0001730011201214C00			
best focus image:	3415MH0001930001201247R00	1247	motor count:	14052	range (cm):	6.5	
range map product:	3415MH0001930001201248S00	1248	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	15-Mar-22		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	30	acquired on sol:	3415	focus merged on sol:	3415		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3415MH0001730021201215C00	1215	13932	7.31	-0.2	0.2	32.6	0.6	255	1
3415MH0001730021201216C00	1216	13962	7.10	-0.2	0.2	31.9	0.6	223	2
3415MH0001730021201217C00	1217	13992	6.90	-0.2	0.2	31.2	0.6	191	3
3415MH0001730021201218C00	1218	14022	6.70	-0.2	0.2	30.5	0.6	159	4
3415MH0001730021201219C00	1219	14052	6.51	-0.2	0.1	29.8	0.5	127	5
3415MH0001730021201220C00	1220	14082	6.33	-0.2	0.1	29.2	0.5	85	6
3415MH0001730021201221C00	1221	14112	6.16	-0.1	0.1	28.6	0.5	63	7
3415MH0001730021201222C00	1222	14142	6.00	-0.1	0.1	28.0	0.5	31	8

updated: 21_April_2022

Sol 3415 - MAHLI Onboard Focus Merge Product Information

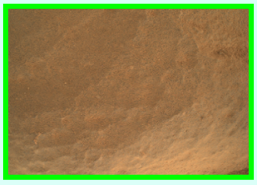
target Oosta - stereo-2 - ~45 mm standoff

		CDPID	corresponding frame:	3415MH0001730011201224C00			
best focus image:	3415MH0001930001201245R00	1245	motor count:	14052	range (cm):	6.5	
range map product:	3415MH0001930001201246S00	1246	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	15-Mar-22		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	30	acquired on sol:	3415	focus merged on sol:	3415		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3415MH0001730021201225C00	1225	13932	7.31	-0.2	0.2	32.6	0.6	255	1
3415MH0001730021201226C00	1226	13962	7.10	-0.2	0.2	31.9	0.6	223	2
3415MH0001730021201227C00	1227	13992	6.90	-0.2	0.2	31.2	0.6	191	3
3415MH0001730021201228C00	1228	14022	6.70	-0.2	0.2	30.5	0.6	159	4
3415MH0001730021201229C00	1229	14052	6.51	-0.2	0.1	29.8	0.5	127	5
3415MH0001730021201230C00	1230	14082	6.33	-0.2	0.1	29.2	0.5	85	6
3415MH0001730021201231C00	1231	14112	6.16	-0.1	0.1	28.6	0.5	63	7
3415MH0001730021201232C00	1232	14142	6.00	-0.1	0.1	28.0	0.5	31	8

updated: 21_April_2022

Sol 3415 - MAHLI Onboard Focus Merge Product Information




target Oosta - ~15 mm standoff

			CDPID	corresponding frame:	3415MH0003110011201234C00			
best focus image:	3415MH0001930001201243R00		1243	motor count:	14807	range (cm):	3.5	
range map product:	3415MH0001930001201244S00		1244	acquired sequence:	mhli00311	stack type:	Relative	
acquired on date:	15-Mar-22			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	66	acquired on sol:	3415	focus merged on sol:	3415			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3415MH0003110021201235C00	1235	14543	4.27	-0.1	0.1	21.9	0.3	255	1
3415MH0003110021201236C00	1236	14609	4.06	-0.1	0.1	21.2	0.3	223	2
3415MH0003110021201237C00	1237	14675	3.86	-0.1	0.1	20.5	0.3	191	3
3415MH0003110021201238C00	1238	14741	3.67	-0.1	0.1	19.8	0.3	159	4
3415MH0003110021201239C00	1239	14807	3.49	-0.1	0.1	19.2	0.3	127	5
3415MH0003110021201240C00	1240	14873	3.33	-0.1	0.1	18.6	0.2	85	6
3415MH0003110021201241C00	1241	14939	3.17	-0.1	0.1	18.1	0.2	63	7
3415MH0003110021201242C00	1242	15005	3.03	-0.1	0.1	17.6	0.2	31	8

updated: 21_April_2022

Sol 3417 - MAHLI Onboard Focus Merge Product Information

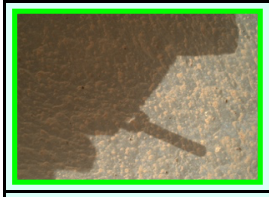

target Knott - stereo-1 - ~45 mm standoff

		CDPID	corresponding frame:	3417MH0002970011201252C00			
best focus image:	3417MH0001930001201285R00	1285	motor count:	14046	range (cm):	6.6	
range map product:	3417MH0001930001201286S00	1286	acquired sequence:	mhli00297	stack type:	Relative	
acquired on date:	18-Mar-22		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	60	acquired on sol:	3417	focus merged on sol:	3417		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3417MH0002970021201253C00	1253	13806	8.32	-0.2	0.2	36.2	0.8	255	1
3417MH0002970021201254C00	1254	13866	7.81	-0.2	0.2	34.4	0.7	223	2
3417MH0002970021201255C00	1255	13926	7.36	-0.2	0.2	32.8	0.6	191	3
3417MH0002970021201256C00	1256	13986	6.94	-0.2	0.2	31.3	0.6	159	4
3417MH0002970021201257C00	1257	14046	6.55	-0.2	0.1	30.0	0.5	127	5
3417MH0002970021201258C00	1258	14106	6.20	-0.1	0.1	28.7	0.5	85	6
3417MH0002970021201259C00	1259	14166	5.87	-0.1	0.1	27.6	0.4	63	7
3417MH0002970021201260C00	1260	14226	5.56	-0.1	0.1	26.5	0.4	31	8

updated: 21_April_2022

Sol 3417 - MAHLI Onboard Focus Merge Product Information



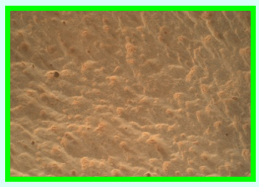

target Knott - stereo-2 - ~45 mm standoff

		CDPID	corresponding frame:	3417MH0002970011201262C00			
best focus image:	3417MH0001930001201283R00	1283	motor count:	14049	range (cm):	6.5	
range map product:	3417MH0001930001201284S00	1284	acquired sequence:	mhli00297	stack type:	Relative	
acquired on date:	18-Mar-22		merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	60	acquired on sol:	3417	focus merged on sol:	3417		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3417MH0002970021201263C00	1263	13809	8.29	-0.2	0.2	36.1	0.8	255	1
3417MH0002970021201264C00	1264	13869	7.79	-0.2	0.2	34.3	0.7	223	2
3417MH0002970021201265C00	1265	13929	7.33	-0.2	0.2	32.7	0.6	191	3
3417MH0002970021201266C00	1266	13989	6.92	-0.2	0.2	31.2	0.6	159	4
3417MH0002970021201267C00	1267	14049	6.53	-0.2	0.1	29.9	0.5	127	5
3417MH0002970021201268C00	1268	14109	6.18	-0.1	0.1	28.7	0.5	85	6
3417MH0002970021201269C00	1269	14169	5.85	-0.1	0.1	27.5	0.4	63	7
3417MH0002970021201270C00	1270	14229	5.55	-0.1	0.1	26.4	0.4	31	8

updated: 21_April_2022

Sol 3417 - MAHLI Onboard Focus Merge Product Information




target Knott - ~6 mm standoff

			CDPID	corresponding frame:	3417MH0004190011201272C00			
best focus image:	3417MH0001930001201281R00		1281	motor count:	15272	range (cm):	2.5	
range map product:	3417MH0001930001201282S00		1282	acquired sequence:	mhli00419	stack type:	Relative	
acquired on date:	18-Mar-22			merge sequence:	mhli00193	merge type:	Basic	
motor count interval:	72	acquired on sol:	3417	focus merged on sol:	3417			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3417MH0004190021201273C00	1273	14984	3.07	-0.1	0.1	17.7	0.2	255	1
3417MH0004190021201274C00	1274	15056	2.92	-0.1	0.1	17.2	0.2	223	2
3417MH0004190021201275C00	1275	15128	2.78	-0.1	0.1	16.7	0.2	191	3
3417MH0004190021201276C00	1276	15200	2.65	-0.1	0.1	16.2	0.2	159	4
3417MH0004190021201277C00	1277	15272	2.52	-0.1	0.1	15.8	0.2	127	5
3417MH0004190021201278C00	1278	15344	2.41	0.0	0.1	15.4	0.2	85	6
3417MH0004190021201279C00	1279	15416	2.30	0.0	0.1	15.0	0.2	63	7
3417MH0004190021201280C00	1280	15488	2.19	0.0	0.0	14.6	0.1	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information


target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3419MH0001730011201290C00			
best focus image:	3420MH0004490001201419R00	1419	motor count:	14000	range (cm):	6.8	
range map product:	3420MH0004490001201420S00	1420	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic	
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201291C00	1291	13880	7.70	-0.2	0.2	34.0	0.7	255	1
3419MH0001730021201292C00	1292	13910	7.47	-0.2	0.2	33.2	0.7	223	2
3419MH0001730021201293C00	1293	13940	7.26	-0.2	0.2	32.4	0.6	191	3
3419MH0001730021201294C00	1294	13970	7.05	-0.2	0.2	31.7	0.6	159	4
3419MH0001730021201295C00	1295	14000	6.84	-0.2	0.2	31.0	0.6	127	5
3419MH0001730021201296C00	1296	14030	6.65	-0.2	0.2	30.3	0.6	85	6
3419MH0001730021201297C00	1297	14060	6.47	-0.2	0.1	29.7	0.5	63	7
3419MH0001730021201298C00	1298	14090	6.29	-0.1	0.1	29.0	0.5	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information


target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3419MH0001730011201300C00			
best focus image:	3420MH0004490001201417R00	1417	motor count:	13999	range (cm):	6.9	
range map product:	3420MH0004490001201418S00	1418	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic	
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201301C00	1301	13879	7.71	-0.2	0.2	34.0	0.7	255	1
3419MH0001730021201302C00	1302	13909	7.48	-0.2	0.2	33.2	0.7	223	2
3419MH0001730021201303C00	1303	13939	7.26	-0.2	0.2	32.5	0.6	191	3
3419MH0001730021201304C00	1304	13969	7.05	-0.2	0.2	31.7	0.6	159	4
3419MH0001730021201305C00	1305	13999	6.85	-0.2	0.2	31.0	0.6	127	5
3419MH0001730021201306C00	1306	14029	6.66	-0.2	0.2	30.3	0.6	85	6
3419MH0001730021201307C00	1307	14059	6.47	-0.2	0.1	29.7	0.5	63	7
3419MH0001730021201308C00	1308	14089	6.29	-0.1	0.1	29.1	0.5	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information

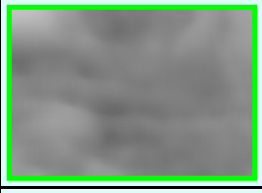

target Blackadder - APXS spot 2 - ~1 cm standoff

		CDPID	corresponding frame:	3419MH0007430011201310C00			
best focus image:	3420MH0004490001201415R00	1415	motor count:	15114	range (cm):	2.8	
range map product:	3420MH0004490001201416S00	1416	acquired sequence:	mhli00743	stack type:	Relative	
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic	
motor count interval:	36	acquired on sol:	3419	focus merged on sol:	3420		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0007430021201311C00	1311	14970	3.10	-0.1	0.1	17.8	0.2	255	1
3419MH0007430021201312C00	1312	15006	3.03	-0.1	0.1	17.6	0.2	223	2
3419MH0007430021201313C00	1313	15042	2.95	-0.1	0.1	17.3	0.2	191	3
3419MH0007430021201314C00	1314	15078	2.88	-0.1	0.1	17.0	0.2	159	4
3419MH0007430021201315C00	1315	15114	2.81	-0.1	0.1	16.8	0.2	127	5
3419MH0007430021201316C00	1316	15150	2.74	-0.1	0.1	16.5	0.2	85	6
3419MH0007430021201317C00	1317	15186	2.67	-0.1	0.1	16.3	0.2	63	7
3419MH0007430021201318C00	1318	15222	2.61	-0.1	0.1	16.1	0.2	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information

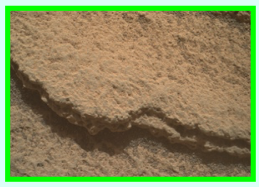
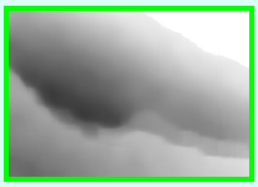
target Blackadder - APXS spot 1 - mosaic position 2 of 9 - ~5 cm standoff

		CDPID	corresponding frame:	3419MH0001730011201320C00			
best focus image:	3420MH0004490001201413R00	1413	motor count:	14003	range (cm):	6.8	
range map product:	3420MH0004490001201414S00	1414	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic	
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201321C00	1321	13883	7.68	-0.2	0.2	33.9	0.7	255	1
3419MH0001730021201322C00	1322	13913	7.45	-0.2	0.2	33.1	0.7	223	2
3419MH0001730021201323C00	1323	13943	7.23	-0.2	0.2	32.4	0.6	191	3
3419MH0001730021201324C00	1324	13973	7.02	-0.2	0.2	31.6	0.6	159	4
3419MH0001730021201325C00	1325	14003	6.82	-0.2	0.2	30.9	0.6	127	5
3419MH0001730021201326C00	1326	14033	6.63	-0.2	0.2	30.2	0.6	85	6
3419MH0001730021201327C00	1327	14063	6.45	-0.2	0.1	29.6	0.5	63	7
3419MH0001730021201328C00	1328	14093	6.27	-0.1	0.1	29.0	0.5	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information

target Blackadder - mosaic position 9 of 9 - ~4 cm standoff

			CDPID	corresponding frame:	3419MH0001730011201330C00			
best focus image:	3420MH0004490001201411R00		1411	motor count:	14194	range (cm):	5.7	
range map product:	3420MH0004490001201412S00		1412	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	20-Mar-22			merge sequence:	mhli00449	merge type:	Basic	
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201331C00	1331	14074	6.38	-0.2	0.1	29.4	0.5	255	1
3419MH0001730021201332C00	1332	14104	6.21	-0.1	0.1	28.8	0.5	223	2
3419MH0001730021201333C00	1333	14134	6.04	-0.1	0.1	28.2	0.5	191	3
3419MH0001730021201334C00	1334	14164	5.88	-0.1	0.1	27.6	0.4	159	4
3419MH0001730021201335C00	1335	14194	5.72	-0.1	0.1	27.0	0.4	127	5
3419MH0001730021201336C00	1336	14224	5.57	-0.1	0.1	26.5	0.4	85	6
3419MH0001730021201337C00	1337	14254	5.43	-0.1	0.1	26.0	0.4	63	7
3419MH0001730021201338C00	1338	14284	5.29	-0.1	0.1	25.5	0.4	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information


target Blackadder - mosaic position 8 of 9 - ~4 cm standoff

			CDPID	corresponding frame:	3419MH0001730011201340C00			
best focus image:	3420MH0004490001201409R00		1409	motor count:	14153	range (cm):	5.9	
range map product:	3420MH0004490001201410S00		1410	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	20-Mar-22			merge sequence:	mhli00449	merge type:	Basic	
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201341C00	1341	14033	6.63	-0.2	0.2	30.2	0.6	255	1
3419MH0001730021201342C00	1342	14063	6.45	-0.2	0.1	29.6	0.5	223	2
3419MH0001730021201343C00	1343	14093	6.27	-0.1	0.1	29.0	0.5	191	3
3419MH0001730021201344C00	1344	14123	6.10	-0.1	0.1	28.4	0.5	159	4
3419MH0001730021201345C00	1345	14153	5.94	-0.1	0.1	27.8	0.5	127	5
3419MH0001730021201346C00	1346	14183	5.78	-0.1	0.1	27.2	0.4	85	6
3419MH0001730021201347C00	1347	14213	5.63	-0.1	0.1	26.7	0.4	63	7
3419MH0001730021201348C00	1348	14243	5.48	-0.1	0.1	26.2	0.4	31	8

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Sol 3419 - MAHLI Onboard Focus Merge Product Information

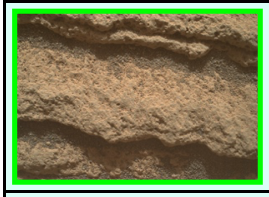

target Blackadder - mosaic position 7 of 9 - ~5 cm standoff

		CDPID	corresponding frame:	3419MH0001730011201350C00				
best focus image:	3420MH0004490001201407R00	1407	motor count:	14112	range (cm):	6.2		
range map product:	3420MH0004490001201408S00	1408	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic		
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201351C00	1351	13992	6.90	-0.2	0.2	31.2	0.6	255	1
3419MH0001730021201352C00	1352	14022	6.70	-0.2	0.2	30.5	0.6	223	2
3419MH0001730021201353C00	1353	14052	6.51	-0.2	0.1	29.8	0.5	191	3
3419MH0001730021201354C00	1354	14082	6.33	-0.2	0.1	29.2	0.5	159	4
3419MH0001730021201355C00	1355	14112	6.16	-0.1	0.1	28.6	0.5	127	5
3419MH0001730021201356C00	1356	14142	6.00	-0.1	0.1	28.0	0.5	85	6
3419MH0001730021201357C00	1357	14172	5.84	-0.1	0.1	27.4	0.4	63	7
3419MH0001730021201358C00	1358	14202	5.68	-0.1	0.1	26.9	0.4	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information



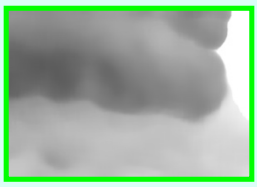

target Blackadder - mosaic position 6 of 9 - ~45 mm standoff

		CDPID	corresponding frame:	3419MH0001730011201360C00				
best focus image:	3420MH0004490001201405R00	1405	motor count:	14107	range (cm):	6.2		
range map product:	3420MH0004490001201406S00	1406	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic		
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201361C00	1361	13987	6.93	-0.2	0.2	31.3	0.6	255	1
3419MH0001730021201362C00	1362	14017	6.73	-0.2	0.2	30.6	0.6	223	2
3419MH0001730021201363C00	1363	14047	6.55	-0.2	0.1	29.9	0.5	191	3
3419MH0001730021201364C00	1364	14077	6.36	-0.2	0.1	29.3	0.5	159	4
3419MH0001730021201365C00	1365	14107	6.19	-0.1	0.1	28.7	0.5	127	5
3419MH0001730021201366C00	1366	14137	6.02	-0.1	0.1	28.1	0.5	85	6
3419MH0001730021201367C00	1367	14167	5.86	-0.1	0.1	27.5	0.4	63	7
3419MH0001730021201368C00	1368	14197	5.71	-0.1	0.1	27.0	0.4	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information

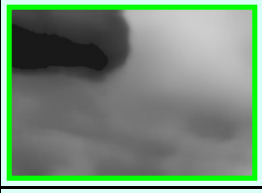
target Blackadder - mosaic position 5 of 9 - ~45 mm standoff

		CDPID	corresponding frame:	3419MH0001730011201370C00				
best focus image:	3420MH0004490001201403R00	1403	motor count:	14084	range (cm):	6.3		
range map product:	3420MH0004490001201404S00	1404	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic		
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201371C00	1371	13964	7.09	-0.2	0.2	31.8	0.6	255	1
3419MH0001730021201372C00	1372	13994	6.88	-0.2	0.2	31.1	0.6	223	2
3419MH0001730021201373C00	1373	14024	6.69	-0.2	0.2	30.4	0.6	191	3
3419MH0001730021201374C00	1374	14054	6.50	-0.2	0.1	29.8	0.5	159	4
3419MH0001730021201375C00	1375	14084	6.32	-0.1	0.1	29.2	0.5	127	5
3419MH0001730021201376C00	1376	14114	6.15	-0.1	0.1	28.6	0.5	85	6
3419MH0001730021201377C00	1377	14144	5.99	-0.1	0.1	28.0	0.5	63	7
3419MH0001730021201378C00	1378	14174	5.83	-0.1	0.1	27.4	0.4	31	8

updated: 27_April_2022

Sol 3419 - MAHLI Onboard Focus Merge Product Information

target Blackadder - mosaic position 4 of 9 - ~5 cm standoff

		CDPID	corresponding frame:	3419MH0001730011201380C00				
best focus image:	3420MH0004490001201401R00	1401	motor count:	14001	range (cm):	6.8		
range map product:	3420MH0004490001201402S00	1402	acquired sequence:	mhli00173	stack type:	Relative		
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic		
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201381C00	1381	13881	7.70	-0.2	0.2	34.0	0.7	255	1
3419MH0001730021201382C00	1382	13911	7.47	-0.2	0.2	33.2	0.7	223	2
3419MH0001730021201383C00	1383	13941	7.25	-0.2	0.2	32.4	0.6	191	3
3419MH0001730021201384C00	1384	13971	7.04	-0.2	0.2	31.7	0.6	159	4
3419MH0001730021201385C00	1385	14001	6.84	-0.2	0.2	31.0	0.6	127	5
3419MH0001730021201386C00	1386	14031	6.64	-0.2	0.2	30.3	0.6	85	6
3419MH0001730021201387C00	1387	14061	6.46	-0.2	0.1	29.6	0.5	63	7
3419MH0001730021201388C00	1388	14091	6.28	-0.1	0.1	29.0	0.5	31	8

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Sol 3419 - MAHLI Onboard Focus Merge Product Information


target Blackadder - mosaic position 3 of 9 - ~5 cm standoff

		CDPID	corresponding frame:	3419MH0001730011201390C00			
best focus image:	3420MH0004490001201399R00	1399	motor count:	14002	range (cm):	6.8	
range map product:	3420MH0004490001201400S00	1400	acquired sequence:	mhli00173	stack type:	Relative	
acquired on date:	20-Mar-22		merge sequence:	mhli00449	merge type:	Basic	
motor count interval:	30	acquired on sol:	3419	focus merged on sol:	3420		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3419MH0001730021201391C00	1391	13882	7.69	-0.2	0.2	34.0	0.7	255	1
3419MH0001730021201392C00	1392	13912	7.46	-0.2	0.2	33.2	0.7	223	2
3419MH0001730021201393C00	1393	13942	7.24	-0.2	0.2	32.4	0.6	191	3
3419MH0001730021201394C00	1394	13972	7.03	-0.2	0.2	31.7	0.6	159	4
3419MH0001730021201395C00	1395	14002	6.83	-0.2	0.2	30.9	0.6	127	5
3419MH0001730021201396C00	1396	14032	6.64	-0.2	0.2	30.3	0.6	85	6
3419MH0001730021201397C00	1397	14062	6.45	-0.2	0.1	29.6	0.5	63	7
3419MH0001730021201398C00	1398	14092	6.28	-0.1	0.1	29.0	0.5	31	8

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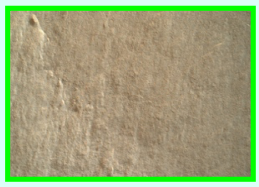
Sol 3421 - MAHLI Onboard Focus Merge Product Information




target Calder - before DRT - APXS spot 1 - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3421MH0001520011201424C00				
best focus image:	3421MH0001530001201469R00	1469	motor count:	14005	range (cm):	6.8		
range map product:	3421MH0001530001201470S00	1470	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	22-Mar-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	48	acquired on sol:	3421	focus merged on sol:	3421			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3421MH0001520021201425C00	1425	13813	8.25	-0.2	0.2	36.0	0.8	255	1
3421MH0001520021201426C00	1426	13861	7.85	-0.2	0.2	34.5	0.7	223	2
3421MH0001520021201427C00	1427	13909	7.48	-0.2	0.2	33.2	0.7	191	3
3421MH0001520021201428C00	1428	13957	7.14	-0.2	0.2	32.0	0.6	159	4
3421MH0001520021201429C00	1429	14005	6.81	-0.2	0.2	30.9	0.6	127	5
3421MH0001520021201430C00	1430	14053	6.51	-0.2	0.1	29.8	0.5	85	6
3421MH0001520021201431C00	1431	14101	6.22	-0.1	0.1	28.8	0.5	63	7
3421MH0001520021201432C00	1432	14149	5.96	-0.1	0.1	27.9	0.5	31	8

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Sol 3421 - MAHLI Onboard Focus Merge Product Information


target Calder - before DRT - APXS spot 1 - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3421MH0001520011201434C00				
best focus image:	3421MH0001530001201467R00	1467	motor count:	14004	range (cm):	6.8		
range map product:	3421MH0001530001201468S00	1468	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	22-Mar-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	48	acquired on sol:	3421	focus merged on sol:	3421			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3421MH0001520021201435C00	1435	13812	8.26	-0.2	0.2	36.0	0.8	255	1
3421MH0001520021201436C00	1436	13860	7.86	-0.2	0.2	34.6	0.7	223	2
3421MH0001520021201437C00	1437	13908	7.49	-0.2	0.2	33.3	0.7	191	3
3421MH0001520021201438C00	1438	13956	7.14	-0.2	0.2	32.0	0.6	159	4
3421MH0001520021201439C00	1439	14004	6.82	-0.2	0.2	30.9	0.6	127	5
3421MH0001520021201440C00	1440	14052	6.51	-0.2	0.1	29.8	0.5	85	6
3421MH0001520021201441C00	1441	14100	6.23	-0.1	0.1	28.8	0.5	63	7
3421MH0001520021201442C00	1442	14148	5.96	-0.1	0.1	27.9	0.5	31	8

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Sol 3421 - MAHLI Onboard Focus Merge Product Information


target Calder - before DRT - APXS spot 1 - ~1 cm standoff

		CDPID	corresponding frame:	3421MH0007960011201444C00				
best focus image:	3421MH0001530001201465R00	1465	motor count:	15123	range (cm):	2.8		
range map product:	3421MH0001530001201466S00	1466	acquired sequence:	mhli00796	stack type:	Relative		
acquired on date:	22-Mar-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	42	acquired on sol:	3421	focus merged on sol:	3421			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3421MH0007960021201445C00	1445	14955	3.14	-0.1	0.1	17.9	0.2	255	1
3421MH0007960021201446C00	1446	14997	3.05	-0.1	0.1	17.6	0.2	223	2
3421MH0007960021201447C00	1447	15039	2.96	-0.1	0.1	17.3	0.2	191	3
3421MH0007960021201448C00	1448	15081	2.87	-0.1	0.1	17.0	0.2	159	4
3421MH0007960021201449C00	1449	15123	2.79	-0.1	0.1	16.7	0.2	127	5
3421MH0007960021201450C00	1450	15165	2.71	-0.1	0.1	16.4	0.2	85	6
3421MH0007960021201451C00	1451	15207	2.63	-0.1	0.1	16.2	0.2	63	7
3421MH0007960021201452C00	1452	15249	2.56	-0.1	0.1	15.9	0.2	31	8

updated: 25_April_2022

Sol 3421 - MAHLI Onboard Focus Merge Product Information


target Calder - before DRT - APXS spot 2 - ~5 cm standoff

		CDPID	corresponding frame:	3421MH0001520011201454C00				
best focus image:	3421MH0001530001201463R00	1463	motor count:	14007	range (cm):	6.8		
range map product:	3421MH0001530001201464S00	1464	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	22-Mar-22		merge sequence:	mhli00153	merge type:	Basic		
motor count interval:	48	acquired on sol:	3421	focus merged on sol:	3421			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3421MH0001520021201455C00	1455	13815	8.24	-0.2	0.2	35.9	0.8	255	1
3421MH0001520021201456C00	1456	13863	7.84	-0.2	0.2	34.5	0.7	223	2
3421MH0001520021201457C00	1457	13911	7.47	-0.2	0.2	33.2	0.7	191	3
3421MH0001520021201458C00	1458	13959	7.12	-0.2	0.2	32.0	0.6	159	4
3421MH0001520021201459C00	1459	14007	6.80	-0.2	0.2	30.8	0.6	127	5
3421MH0001520021201460C00	1460	14055	6.50	-0.2	0.1	29.8	0.5	85	6
3421MH0001520021201461C00	1461	14103	6.21	-0.1	0.1	28.8	0.5	63	7
3421MH0001520021201462C00	1462	14151	5.95	-0.1	0.1	27.8	0.5	31	8

updated: 25_April_2022

Sol 3422 - MAHLI Onboard Focus Merge Product Information

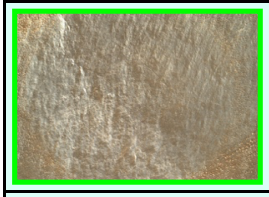

target Calder - after DRT - stereo-1 - ~5 cm standoff

		CDPID	corresponding frame:	3422MH0001520011201474C00				
best focus image:	3422MH0001710001201564R00	1564	motor count:	14012	range (cm):	6.8		
range map product:	3422MH0001710001201565S00	1565	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	23-Mar-22		merge sequence:	mhli00171	merge type:	Basic		
motor count interval:	48	acquired on sol:	3422	focus merged on sol:	3422			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3422MH0001520021201475C00	1475	13820	8.19	-0.2	0.2	35.7	0.7	255	1
3422MH0001520021201476C00	1476	13868	7.80	-0.2	0.2	34.4	0.7	223	2
3422MH0001520021201477C00	1477	13916	7.43	-0.2	0.2	33.1	0.6	191	3
3422MH0001520021201478C00	1478	13964	7.09	-0.2	0.2	31.8	0.6	159	4
3422MH0001520021201479C00	1479	14012	6.77	-0.2	0.2	30.7	0.6	127	5
3422MH0001520021201480C00	1480	14060	6.47	-0.2	0.1	29.7	0.5	85	6
3422MH0001520021201481C00	1481	14108	6.18	-0.1	0.1	28.7	0.5	63	7
3422MH0001520021201482C00	1482	14156	5.92	-0.1	0.1	27.7	0.5	31	8

updated: 25_April_2022

Sol 3422 - MAHLI Onboard Focus Merge Product Information




target Calder - after DRT - stereo-2 - ~5 cm standoff

		CDPID	corresponding frame:	3422MH0001520011201484C00				
best focus image:	3422MH0001710001201562R00	1562	motor count:	14008	range (cm):	6.8		
range map product:	3422MH0001710001201563S00	1563	acquired sequence:	mhli00152	stack type:	Relative		
acquired on date:	23-Mar-22		merge sequence:	mhli00171	merge type:	Basic		
motor count interval:	48	acquired on sol:	3422	focus merged on sol:	3422			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3422MH0001520021201485C00	1485	13816	8.23	-0.2	0.2	35.9	0.8	255	1
3422MH0001520021201486C00	1486	13864	7.83	-0.2	0.2	34.5	0.7	223	2
3422MH0001520021201487C00	1487	13912	7.46	-0.2	0.2	33.2	0.7	191	3
3422MH0001520021201488C00	1488	13960	7.11	-0.2	0.2	31.9	0.6	159	4
3422MH0001520021201489C00	1489	14008	6.79	-0.2	0.2	30.8	0.6	127	5
3422MH0001520021201490C00	1490	14056	6.49	-0.2	0.1	29.7	0.5	85	6
3422MH0001520021201491C00	1491	14104	6.21	-0.1	0.1	28.8	0.5	63	7
3422MH0001520021201492C00	1492	14152	5.94	-0.1	0.1	27.8	0.5	31	8

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Sol 3422 - MAHLI Onboard Focus Merge Product Information

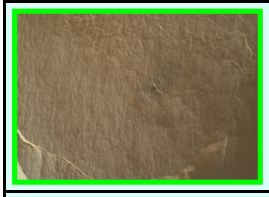

target Calder - after DRT - ~1 cm standoff

		CDPID	corresponding frame:	3422MH0007960011201494C00				
best focus image:	3422MH0001710001201560R00	1560	motor count:	15138	range (cm):	2.8		
range map product:	3422MH0001710001201561S00	1561	acquired sequence:	mhli00796	stack type:	Relative		
acquired on date:	23-Mar-22		merge sequence:	mhli00171	merge type:	Basic		
motor count interval:	42	acquired on sol:	3422	focus merged on sol:	3422			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3422MH0007960021201495C00	1495	14970	3.10	-0.1	0.1	17.8	0.2	255	1
3422MH0007960021201496C00	1496	15012	3.01	-0.1	0.1	17.5	0.2	223	2
3422MH0007960021201497C00	1497	15054	2.93	-0.1	0.1	17.2	0.2	191	3
3422MH0007960021201498C00	1498	15096	2.84	-0.1	0.1	16.9	0.2	159	4
3422MH0007960021201499C00	1499	15138	2.76	-0.1	0.1	16.6	0.2	127	5
3422MH0007960021201500C00	1500	15180	2.68	-0.1	0.1	16.3	0.2	85	6
3422MH0007960021201501C00	1501	15222	2.61	-0.1	0.1	16.1	0.2	63	7
3422MH0007960021201502C00	1502	15264	2.54	-0.1	0.1	15.8	0.2	31	8

updated: 25_April_2022

Sol 3422 - MAHLI Onboard Focus Merge Product Information



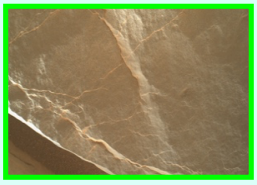
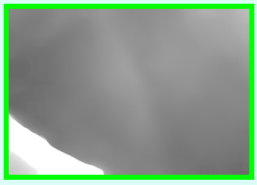

target Scandal_Beck - ~14 cm standoff

		CDPID	corresponding frame:	3422MH0007820011201506C00				
best focus image:	3422MH0001710001201558R00	1558	motor count:	13293	range (cm):	15.9		
range map product:	3422MH0001710001201559S00	1559	acquired sequence:	mhli00782	stack type:	Relative		
acquired on date:	23-Mar-22		merge sequence:	mhli00171	merge type:	Basic		
motor count interval:	36	acquired on sol:	3422	focus merged on sol:	3422			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3422MH0007820031201508C00	1508	13149	20.22	-1.1	1.1	78.1	3.9	255	1
3422MH0007820031201509C00	1509	13185	18.95	-0.9	1.0	73.6	3.4	223	2
3422MH0007820031201510C00	1510	13221	17.81	-0.8	0.9	69.6	3.0	191	3
3422MH0007820031201511C00	1511	13257	16.78	-0.8	0.8	66.0	2.7	159	4
3422MH0007820031201512C00	1512	13293	15.85	-0.7	0.7	62.7	2.4	127	5
3422MH0007820031201513C00	1513	13329	15.01	-0.6	0.6	59.7	2.2	85	6
3422MH0007820031201514C00	1514	13365	14.24	-0.6	0.6	57.0	2.0	63	7
3422MH0007820031201515C00	1515	13401	13.53	-0.5	0.5	54.5	1.8	31	8

updated: 25_April_2022

Sol 3422 - MAHLI Onboard Focus Merge Product Information

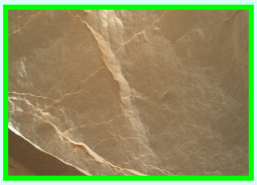
target Ashkirk - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3422MH0002240011201519C00			
best focus image:	3422MH0001710001201556R00		1556	motor count:	13988	range (cm):	6.9	
range map product:	3422MH0001710001201557S00		1557	acquired sequence:	mhli00224	stack type:	Relative	
acquired on date:	23-Mar-22			merge sequence:	mhli00171	merge type:	Basic	
motor count interval:	42	acquired on sol:	3422	focus merged on sol:	3422			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3422MH0002240021201520C00	1520	13820	8.19	-0.2	0.2	35.7	0.7	255	1
3422MH0002240021201521C00	1521	13862	7.85	-0.2	0.2	34.5	0.7	223	2
3422MH0002240021201522C00	1522	13904	7.52	-0.2	0.2	33.4	0.7	191	3
3422MH0002240021201523C00	1523	13946	7.21	-0.2	0.2	32.3	0.6	159	4
3422MH0002240021201524C00	1524	13988	6.92	-0.2	0.2	31.3	0.6	127	5
3422MH0002240021201525C00	1525	14030	6.65	-0.2	0.2	30.3	0.6	85	6
3422MH0002240021201526C00	1526	14072	6.39	-0.2	0.1	29.4	0.5	63	7
3422MH0002240021201527C00	1527	14114	6.15	-0.1	0.1	28.6	0.5	31	8

updated: 25_April_2022

Sol 3422 - MAHLI Onboard Focus Merge Product Information




target Ashkirk - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3422MH0002240011201529C00			
best focus image:	3422MH0001710001201554R00		1554	motor count:	13970	range (cm):	7.0	
range map product:	3422MH0001710001201555S00		1555	acquired sequence:	mhli00224	stack type:	Relative	
acquired on date:	23-Mar-22			merge sequence:	mhli00171	merge type:	Basic	
motor count interval:	42	acquired on sol:	3422	focus merged on sol:	3422			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3422MH0002240021201530C00	1530	13802	8.35	-0.2	0.2	36.3	0.8	255	1
3422MH0002240021201531C00	1531	13844	7.99	-0.2	0.2	35.0	0.7	223	2
3422MH0002240021201532C00	1532	13886	7.66	-0.2	0.2	33.9	0.7	191	3
3422MH0002240021201533C00	1533	13928	7.34	-0.2	0.2	32.7	0.6	159	4
3422MH0002240021201534C00	1534	13970	7.05	-0.2	0.2	31.7	0.6	127	5
3422MH0002240021201535C00	1535	14012	6.77	-0.2	0.2	30.7	0.6	85	6
3422MH0002240021201536C00	1536	14054	6.50	-0.2	0.1	29.8	0.5	63	7
3422MH0002240021201537C00	1537	14096	6.25	-0.1	0.1	28.9	0.5	31	8

updated: 25_April_2022

Sol 3422 - MAHLI Onboard Focus Merge Product Information

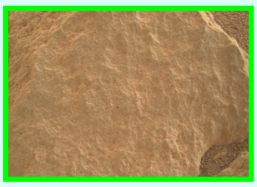
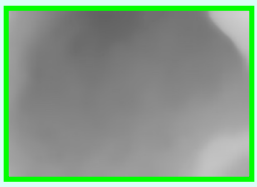

target Ashkirk - ~25 mm standoff

			CDPID	corresponding frame:	3422MH0003070011201539C00			
best focus image:	3422MH0001710001201552R00		1552	motor count:	14461	range (cm):	4.6	
range map product:	3422MH0001710001201553S00		1553	acquired sequence:	mhli00307	stack type:	Relative	
acquired on date:	23-Mar-22			merge sequence:	mhli00171	merge type:	Basic	
motor count interval:	72	acquired on sol:	3422	focus merged on sol:	3422			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3422MH0003070021201540C00	1540	14173	5.83	-0.1	0.1	27.4	0.4	255	1
3422MH0003070021201541C00	1541	14245	5.47	-0.1	0.1	26.2	0.4	223	2
3422MH0003070021201542C00	1542	14317	5.14	-0.1	0.1	25.0	0.4	191	3
3422MH0003070021201543C00	1543	14389	4.84	-0.1	0.1	23.9	0.4	159	4
3422MH0003070021201544C00	1544	14461	4.56	-0.1	0.1	23.0	0.3	127	5
3422MH0003070021201545C00	1545	14533	4.31	-0.1	0.1	22.1	0.3	85	6
3422MH0003070021201546C00	1546	14605	4.07	-0.1	0.1	21.2	0.3	63	7
3422MH0003070021201547C00	1547	14677	3.85	-0.1	0.1	20.5	0.3	31	8

updated: 06_June_2022

Sol 3423 - MAHLI Onboard Focus Merge Product Information

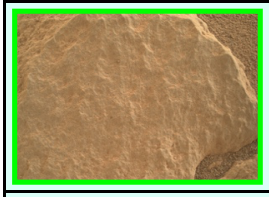
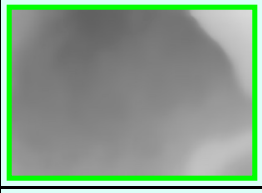
target Redscarhead - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3423MH0002240011201569C00			
best focus image:	3424MH0002270001201626R00		1626	motor count:	13979	range (cm):	7.0	
range map product:	3424MH0002270001201627S00		1627	acquired sequence:	mhli00224	stack type:	Relative	
acquired on date:	24-Mar-22			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	42		acquired on sol:	3423	focus merged on sol:	3424		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3423MH0002240021201570C00	1570	13811	8.27	-0.2	0.2	36.0	0.8	255	1
3423MH0002240021201571C00	1571	13853	7.92	-0.2	0.2	34.8	0.7	223	2
3423MH0002240021201572C00	1572	13895	7.59	-0.2	0.2	33.6	0.7	191	3
3423MH0002240021201573C00	1573	13937	7.28	-0.2	0.2	32.5	0.6	159	4
3423MH0002240021201574C00	1574	13979	6.98	-0.2	0.2	31.5	0.6	127	5
3423MH0002240021201575C00	1575	14021	6.71	-0.2	0.2	30.5	0.6	85	6
3423MH0002240021201576C00	1576	14063	6.45	-0.2	0.1	29.6	0.5	63	7
3423MH0002240021201577C00	1577	14105	6.20	-0.1	0.1	28.7	0.5	31	8

updated: 06_June_2022

Sol 3423 - MAHLI Onboard Focus Merge Product Information

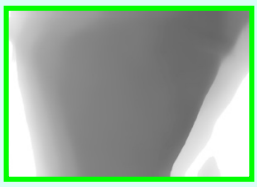
target Redscarhead - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3423MH0002240011201579C00			
best focus image:	3424MH0002270001201624R00		1624	motor count:	13984	range (cm):	7.0	
range map product:	3424MH0002270001201625S00		1625	acquired sequence:	mhli00224	stack type:	Relative	
acquired on date:	24-Mar-22			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	42		acquired on sol:	3423	focus merged on sol:	3424		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3423MH0002240021201580C00	1580	13816	8.23	-0.2	0.2	35.9	0.8	255	1
3423MH0002240021201581C00	1581	13858	7.88	-0.2	0.2	34.6	0.7	223	2
3423MH0002240021201582C00	1582	13900	7.55	-0.2	0.2	33.5	0.7	191	3
3423MH0002240021201583C00	1583	13942	7.24	-0.2	0.2	32.4	0.6	159	4
3423MH0002240021201584C00	1584	13984	6.95	-0.2	0.2	31.4	0.6	127	5
3423MH0002240021201585C00	1585	14026	6.68	-0.2	0.2	30.4	0.6	85	6
3423MH0002240021201586C00	1586	14068	6.42	-0.2	0.1	29.5	0.5	63	7
3423MH0002240021201587C00	1587	14110	6.17	-0.1	0.1	28.6	0.5	31	8

updated: 06_June_2022

Sol 3423 - MAHLI Onboard Focus Merge Product Information

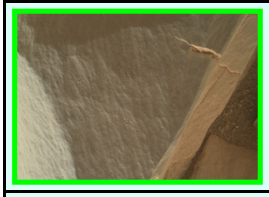
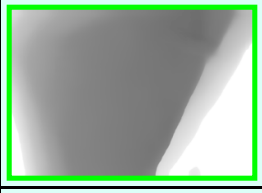
target Breakyneck - stereo-1 - ~5 cm standoff

			CDPID	corresponding frame:	3423MH0002970011201589C00			
best focus image:	3424MH0002270001201622R00		1622	motor count:	14002	range (cm):	6.8	
range map product:	3424MH0002270001201623S00		1623	acquired sequence:	mhli00297	stack type:	Relative	
acquired on date:	24-Mar-22			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	60	acquired on sol:	3423	focus merged on sol:	3424			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3423MH0002970021201590C00	1590	13762	8.72	-0.2	0.2	37.6	0.8	255	1
3423MH0002970021201591C00	1591	13822	8.18	-0.2	0.2	35.7	0.7	223	2
3423MH0002970021201592C00	1592	13882	7.69	-0.2	0.2	34.0	0.7	191	3
3423MH0002970021201593C00	1593	13942	7.24	-0.2	0.2	32.4	0.6	159	4
3423MH0002970021201594C00	1594	14002	6.83	-0.2	0.2	30.9	0.6	127	5
3423MH0002970021201595C00	1595	14062	6.45	-0.2	0.1	29.6	0.5	85	6
3423MH0002970021201596C00	1596	14122	6.11	-0.1	0.1	28.4	0.5	63	7
3423MH0002970021201597C00	1597	14182	5.78	-0.1	0.1	27.3	0.4	31	8

updated: 06_June_2022

Sol 3423 - MAHLI Onboard Focus Merge Product Information

target Breakyneck - stereo-2 - ~5 cm standoff

			CDPID	corresponding frame:	3423MH0002970011201599C00			
best focus image:	3424MH0002270001201620R00		1620	motor count:	14016	range (cm):	6.7	
range map product:	3424MH0002270001201621S00		1621	acquired sequence:	mhli00297	stack type:	Relative	
acquired on date:	24-Mar-22			merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	60	acquired on sol:	3423	focus merged on sol:	3424			

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3423MH0002970021201600C00	1600	13776	8.59	-0.2	0.2	37.1	0.8	255	1
3423MH0002970021201601C00	1601	13836	8.06	-0.2	0.2	35.3	0.7	223	2
3423MH0002970021201602C00	1602	13896	7.58	-0.2	0.2	33.6	0.7	191	3
3423MH0002970021201603C00	1603	13956	7.14	-0.2	0.2	32.0	0.6	159	4
3423MH0002970021201604C00	1604	14016	6.74	-0.2	0.2	30.6	0.6	127	5
3423MH0002970021201605C00	1605	14076	6.37	-0.2	0.1	29.3	0.5	85	6
3423MH0002970021201606C00	1606	14136	6.03	-0.1	0.1	28.1	0.5	63	7
3423MH0002970021201607C00	1607	14196	5.71	-0.1	0.1	27.0	0.4	31	8

updated: 06_June_2022

Sol 3423 - MAHLI Onboard Focus Merge Product Information


target Breakyneck - ~1 cm standoff

		CDPID	corresponding frame:	3423MH0005230011201609C00			
best focus image:	3424MH0002270001201618R00	1618	motor count:	15164	range (cm):	2.7	
range map product:	3424MH0002270001201619S00	1619	acquired sequence:	mhli00523	stack type:	Relative	
acquired on date:	24-Mar-22		merge sequence:	mhli00227	merge type:	Basic	
motor count interval:	84	acquired on sol:	3423	focus merged on sol:	3424		

Individual Focus Stack Images	CDPID	motor count	range (cm)	range uncertainty (cm)		pixel scale (µm/pixel)	pixel scale uncertainty (µm/pixel)	DN in range map	image n of 8
				near	far				
3423MH0005230021201610C00	1610	14828	3.44	-0.1	0.1	19.0	0.2	255	1
3423MH0005230021201611C00	1611	14912	3.24	-0.1	0.1	18.3	0.2	223	2
3423MH0005230021201612C00	1612	14996	3.05	-0.1	0.1	17.6	0.2	191	3
3423MH0005230021201613C00	1613	15080	2.87	-0.1	0.1	17.0	0.2	159	4
3423MH0005230021201614C00	1614	15164	2.71	-0.1	0.1	16.4	0.2	127	5
3423MH0005230021201615C00	1615	15248	2.56	-0.1	0.1	15.9	0.2	85	6
3423MH0005230021201616C00	1616	15332	2.42	0.0	0.1	15.4	0.2	63	7
3423MH0005230021201617C00	1617	15416	2.30	0.0	0.1	15.0	0.2	31	8

6 Image comment, purpose, RATIONALE_DESC

A RATIONALE_DESC accompanies each MAHLI image and each focus merge product archived with the NASA PDS. It is found in in each archived image label file (.LBL).

The RATIONALE_DESC is a text description of the purpose (rationale) behind the acquisition of each MAHLI parent image.

For onboard focus merge products, the RATIONALE_DESC includes information regarding when the merge was performed and which parent images were merged. This information is not automatically tracked by the instrument or ground data system and thus requires human intervention; this is the only pathway by which this information is conveyed to the data user through the NASA PDS archival products.

The MAHLI Team drafts each RATIONALE_DESC as the data are acquired and returned to Earth. Final editing of each RATIONALE_DESC is performed a few months before the data are archived with the NASA PDS. In some cases, an error might be detected in a RATIONALE_DESC some time after the data are first archived; in such a case, the corrections are made in a later release of MAHLI data to the PDS (as long as the mission continues and funding is available to do so).

The pages that follow capture the RATIONALE_DESC for each MAHLI image acquired and lists the ID for the best available image or focus merge product returned to Earth. Note that the RATIONALE_DESC also applies to any other child images spawned by a given parent image and thus there might be additional images, not listed here, that correspond to a given RATIONALE_DESC. In some cases, it was only necessary to return a thumbnail image; the IDs for these are given in orange text. As noted earlier, purple text indicates Image IDs for which the last two characters might differ from those in the NASA PDS archives.

Note that the text on the pages that follow is tiny. We highly recommend that the reader view this document electronically (*i.e.*, PDF file on a computer screen) and magnify the view ≥ 400%.

The *MAHLI Image Comment Sheets* that follow include data acquired Sol 3290–3423. During this period, the instrument obtained images and/or performed focus merges on **Sols 3301, 3303, 3312, 3313, 3315, 3316, 3318, 3319, 3320, 3321, 3322, 3323, 3324, 3326, 3328, 3329, 3330, 3344, 3345, 3347, 3349, 3353, 3362, 3363, 3364, 3365, 3369, 3371, 3372, 3374, 3375, 3376, 3378, 3381, 3383, 3385, 3386, 3387, 3388, 3389, 3392, 3393, 3395, 3396, 3397, 3398, 3399, 3409, 3410, 3413, 3415, 3417, 3419, 3420, 3421, 3422, 3423**.

updated: 22_November_2021

Sol 3301 - MAHLI Images

acquired/performed date(s):	19-Nov-21	
camera positions:	6	**Image ID:**
total parent images:	13	black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received
focus merges performed:	0	**CDPID:**
total focus merge products:	0	Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels
total parent images + focus merge products:	13	

summary of MAHLI activities: MAHLI imaged the Zechstein sample discard pile, the surfaces surrounding SAM inlet #2, with the inlet cover open, a follow-up to Zechstein sample drop-offs and the Zechstein drill hole.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789 012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
mhli00197	Zechstein sample discard pile ~25 cm standoff	3301MH0001970001103957C00	3957	autofocus sub-frame for Zechstein sample discard pile - APXS spot 1 - standoff near 25 cm
		3301MH0001970011103958C00	3958	Zechstein sample discard pile - APXS spot 1 - standoff near 25 cm
mhli00122	Zechstein sample discard pile APXS spot 1 ~45 mm standoff	3301MH0001220001103959C00	3959	autofocus sub-frame for Zechstein sample discard pile - APXS spot 1 - standoff near 45 mm
		3301MH0001220011103960C00	3960	Zechstein sample discard pile - APXS spot 1 - standoff near 45 mm
mhli00122	Zechstein sample discard pile APXS spot 2 ~45 mm standoff	3301MH0001220001103961C00	3961	autofocus sub-frame for Zechstein sample discard pile - APXS spot 2 - standoff near 45 mm
		3301MH0001220011103962C00	3962	Zechstein sample discard pile - APXS spot 2 - standoff near 45 mm
mhli00779	SAM Inlet 2 ~ 20 cm standoff	3301MH0007790011103963C00	3963	SAM inlet 2 cover open after sample drop-off - inspect surface surrounding inlet perimeter - manual focus assuming 231 mm working distance
		3301MH0007790021103964C00	3964	autofocus sub-frame for SAM inlet 2 cover open after sample drop-off - inspect surface surrounding inlet perimeter - standoff near 20 cm
		3301MH0007790031103965C00	3965	SAM inlet 2 cover open after sample drop-off - inspect surface surrounding inlet perimeter - standoff near 20 cm
mhli00197	Zechstein drill hole drilled on Sol 3289 ~25 cm standoff	3301MH0001970001103966C00	3966	autofocus sub-frame for drill hole in rock named Zechstein - drilled sol 3289 - standoff near 25 cm
		3301MH0001970011103967C00	3967	drill hole in rock named Zechstein - drilled sol 3289 - standoff near 25 cm
mhli00774	Zechstein drill hole drilled on Sol 3289 ~10 cm standoff	3301MH0007740001103968C00	3968	autofocus sub-frame for drill hole in rock named Zechstein - drilled sol 3289 - sub-frame positioned to focus on surface outside hole - standoff near 10 cm
		3301MH0007740011103969C00	3969	drill hole in rock named Zechstein - drilled sol 3289 - focus based on preceding autofocus sub-frame - standoff near 10 cm

updated: 24_November_2021

Sol 3303 - MAHLI Images

acquired/performed date(s):	20-Nov-21
camera positions:	83
total parent images:	85
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	85

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the Zechstein Sample Discard Pile and a rover self-portrait was acquired to document the Zechstein drill site.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00122	Zechstein sample discard pile APXS spot 2 ~55 mm standoff	3303MH0001220001103970C00	3970	autofocus sub-frame for Zechstein sample discard pile - APXS spot 2 - standoff near 55 mm
		3303MH0001220011103971C00	3971	Zechstein sample discard pile - APXS spot 2 - standoff near 55 mm
mhli00122	Zechstein sample discard pile APXS spot 1 ~55 mm standoff	3303MH0001220001103972C00	3972	autofocus sub-frame for Zechstein sample discard pile - APXS spot 1 - standoff near 55 mm
		3303MH0001220011103973C00	3973	Zechstein sample discard pile - APXS spot 1 - standoff near 55 mm
mhli00390	Rover Self-Portrait	3303MH0003900011103974C00	3974	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103975C00	3975	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103976C00	3976	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103977C00	3977	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103978C00	3978	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103979C00	3979	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103980C00	3980	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103981C00	3981	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103982C00	3982	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103983C00	3983	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103984C00	3984	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103985C00	3985	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103986C00	3986	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103987C00	3987	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103988C00	3988	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103989C00	3989	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103990C00	3990	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103991C00	3991	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103992C00	3992	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103993C00	3993	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103994C00	3994	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103995C00	3995	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103996C00	3996	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103997C00	3997	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103998C00	3998	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011103999C00	3999	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104000C00	4000	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104001C00	4001	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104002C00	4002	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104003C00	4003	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104004C00	4004	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104005C00	4005	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104006C00	4006	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104007C00	4007	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104008C00	4008	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104009C00	4009	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104010C00	4010	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104011C00	4011	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104012C00	4012	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104013C00	4013	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104014C00	4014	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104015C00	4015	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104016C00	4016	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104017C00	4017	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104018C00	4018	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104019C00	4019	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104020C00	4020	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104021C00	4021	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104022C00	4022	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104023C00	4023	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104024C00	4024	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104025C00	4025	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104026C00	4026	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104027C00	4027	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104028C00	4028	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104029C00	4029	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104030C00	4030	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104031C00	4031	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104032C00	4032	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104033C00	4033	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104034C00	4034	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104035C00	4035	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104036C00	4036	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104037C00	4037	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104038C00	4038	Curiosity self-portrait mosaic at the Zechstein drill site

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mhli00390	Rover Self-Portrait	3303MH0003900011104039C00	4039	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104040C00	4040	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104041C00	4041	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104042C00	4042	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104043C00	4043	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104044C00	4044	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104045C00	4045	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104046C00	4046	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104047C00	4047	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104048C00	4048	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104049C00	4049	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104050C00	4050	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104051C00	4051	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104052C00	4052	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104053C00	4053	Curiosity self-portrait mosaic at the Zechstein drill site
mhli00390		3303MH0003900011104054C00	4054	Curiosity self-portrait mosaic at the Zechstein drill site

updated: 30_November_2021

Sol 3312 - MAHLI Images

acquired/performed date(s):	30-Nov-21
camera positions:	1
total parent images:	2
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	2

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the Zechstein Drill Cuttings.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00122	Zechstein drill cuttings ~ 55 mm standoff	3312MH0001220001104055C00	4055	autofocus sub-frame for Zechstein drill cuttings - standoff near 55 mm
		3312MH0001220011104056C00	4056	Zechstein drill cuttings - standoff near 55 mm

updated: 01_December_2021

Sol 3313 - MAHLI Images

acquired/performed date(s):	1-Dec-21
camera positions:	4
total parent images:	32
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	38

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Camusnagaul and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Camusnagaul ~25 cm standoff	3313MH0001900011104057C00	4057	autofocus sub-frame for target Camusnagaul - standoff near 25 cm
		3313MH0001900011104058C00	4058	target Camusnagaul - standoff near 25 cm
mhli00224	Camusnagaul stereo-1 ~5 cm standoff	3313MH0002240001104059C00	4059	autofocus sub-frame for target Camusnagaul - stereo-1 - standoff near 5 cm
		3313MH0002240011104060C00	4060	target Camusnagaul - stereo-1 - standoff near 5 cm
		3313MH0002240021104061C00	4061	target Camusnagaul - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3313MH0002240021104062C00	4062	target Camusnagaul - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3313MH0002240021104063C00	4063	target Camusnagaul - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3313MH0002240021104064C00	4064	target Camusnagaul - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3313MH0002240021104065C00	4065	target Camusnagaul - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3313MH0002240021104066C00	4066	target Camusnagaul - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3313MH0002240021104067C00	4067	target Camusnagaul - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3313MH0002240021104068C00	4068	target Camusnagaul - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00224	Camusnagaul stereo-2 ~5 cm standoff	3313MH0002240001104069C00	4069	autofocus sub-frame for target Camusnagaul - stereo-2 - standoff near 5 cm
		3313MH0002240011104070C00	4070	target Camusnagaul - stereo-2 - standoff near 5 cm
		3313MH0002240021104071C00	4071	target Camusnagaul - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3313MH0002240021104072C00	4072	target Camusnagaul - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3313MH0002240021104073C00	4073	target Camusnagaul - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3313MH0002240021104074C00	4074	target Camusnagaul - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3313MH0002240021104075C00	4075	target Camusnagaul - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3313MH0002240021104076C00	4076	target Camusnagaul - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3313MH0002240021104077C00	4077	target Camusnagaul - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3313MH0002240021104078C00	4078	target Camusnagaul - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00386	Camusnagaul ~1 cm standoff	3313MH0003860001104079C00	4079	autofocus sub-frame for target Camusnagaul - standoff near 1 cm
		3313MH0003860011104080C00	4080	target Camusnagaul - standoff near 1 cm
		3313MH0003860021104081C00	4081	target Camusnagaul - standoff near 1 cm - image 1 in 8-image relative focus stack
		3313MH0003860021104082C00	4082	target Camusnagaul - standoff near 1 cm - image 2 in 8-image relative focus stack
		3313MH0003860021104083C00	4083	target Camusnagaul - standoff near 1 cm - image 3 in 8-image relative focus stack
		3313MH0003860021104084C00	4084	target Camusnagaul - standoff near 1 cm - image 4 in 8-image relative focus stack
		3313MH0003860021104085C00	4085	target Camusnagaul - standoff near 1 cm - image 5 in 8-image relative focus stack
		3313MH0003860021104086C00	4086	target Camusnagaul - standoff near 1 cm - image 6 in 8-image relative focus stack
		3313MH0003860021104087C00	4087	target Camusnagaul - standoff near 1 cm - image 7 in 8-image relative focus stack
		3313MH0003860021104088C00	4088	target Camusnagaul - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3313MH0001930001104089R00	4089	target Camusnagaul - standoff near 1 cm - focus stack acquired sol 3313 with MSL CAMERA_PRODUCT_IDs 4081-4088 - best focus image product
		3313MH0001930001104090S00	4090	target Camusnagaul - standoff near 1 cm - focus stack acquired sol 3313 with MSL CAMERA_PRODUCT_IDs 4081-4088 - range map product
		3313MH0001930001104091R00	4091	target Camusnagaul - stereo-2 - standoff near 5 cm - focus stack acquired sol 3313 with MSL CAMERA_PRODUCT_IDs 4071-4078 - best focus image product
		3313MH0001930001104092S00	4092	target Camusnagaul - stereo-2 - standoff near 5 cm - focus stack acquired sol 3313 with MSL CAMERA_PRODUCT_IDs 4071-4078 - range map product
		3313MH0001930001104093R00	4093	target Camusnagaul - stereo-1 - standoff near 5 cm - focus stack acquired sol 3313 with MSL CAMERA_PRODUCT_IDs 4061-4068 - best focus image product
		3313MH0001930001104094S00	4094	target Camusnagaul - stereo-1 - standoff near 5 cm - focus stack acquired sol 3313 with MSL CAMERA_PRODUCT_IDs 4061-4068 - range map product

updated: 15_September_2022

Sol 3315 - MAHLI Images

acquired/performed date(s):	3-Dec-21
camera positions:	10
total parent images:	62
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	68

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Arainn, Whaligoe_Steps and Yarrow_Stone. MAHLI also imaged the sky, with the dust cover open and closed for flat fielding. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00197	Arainn ~25 cm standoff	3315MH0001970001104095C00	4095	autofocus sub-frame for target Arainn - standoff near 25 cm
		3315MH0001970011104096C00	4096	target Arainn - standoff near 25 cm
mhli00197	Whaligoe_Steps ~25 cm standoff	3315MH0001970001104097C00	4097	autofocus sub-frame for target Whaligoe_Steps - standoff near 25 cm
		3315MH0001970011104098C00	4098	target Whaligoe_Steps - standoff near 25 cm
mhli00706	Yarrow_Stone ~25 cm standoff	3315MH0000706001104099C00	4099	autofocus sub-frame for target Yarrow_Stone - standoff near 25 cm
		3315MH0000706011104100C00	4100	target Yarrow_Stone - standoff near 25 cm
		3315MH0000706021104101C00	4101	target Yarrow_Stone - standoff near 25 cm - alternative auto-exposure
mhli00699	Yarrow_Stone stereo-1 ~5 cm standoff	3315MH0000699001104102C00	4102	autofocus sub-frame for target Yarrow_Stone - stereo-1 - standoff near 5 cm
		3315MH0000699011104103C00	4103	target Yarrow_Stone - stereo-1 - standoff near 5 cm
		3315MH0000699021104104C00	4104	target Yarrow_Stone - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3315MH0000699031104105C00	4105	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3315MH0000699031104106C00	4106	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3315MH0000699031104107C00	4107	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3315MH0000699031104108C00	4108	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3315MH0000699031104109C00	4109	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3315MH0000699031104110C00	4110	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3315MH0000699031104111C00	4111	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3315MH0000699031104112C00	4112	target Yarrow_Stone - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00699	Yarrow_Stone stereo-2 ~5 cm standoff	3315MH0000699001104113C00	4113	autofocus sub-frame for target Yarrow_Stone - stereo-2 - standoff near 5 cm
		3315MH0000699011104114C00	4114	target Yarrow_Stone - stereo-2 - standoff near 5 cm
		3315MH0000699021104115C00	4115	target Yarrow_Stone - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3315MH0000699031104116C00	4116	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3315MH0000699031104117C00	4117	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3315MH0000699031104118C00	4118	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3315MH0000699031104119C00	4119	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3315MH0000699031104120C00	4120	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3315MH0000699031104121C00	4121	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3315MH0000699031104122C00	4122	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3315MH0000699031104123C00	4123	target Yarrow_Stone - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00800	Yarrow_Stone ~2 cm standoff	3315MH0000800001104124C00	4124	autofocus sub-frame for target Yarrow_Stone - standoff near 2 cm
		3315MH0000800011104125C00	4125	target Yarrow_Stone - standoff near 2 cm
		3315MH0000800021104126C00	4126	target Yarrow_Stone - standoff near 2 cm - alternative auto-exposure
		3315MH0000800031104127C00	4127	target Yarrow_Stone - standoff near 2 cm - image 1 in 8-image relative focus stack
		3315MH0000800031104128C00	4128	target Yarrow_Stone - standoff near 2 cm - image 2 in 8-image relative focus stack
		3315MH0000800031104129C00	4129	target Yarrow_Stone - standoff near 2 cm - image 3 in 8-image relative focus stack
		3315MH0000800031104130C00	4130	target Yarrow_Stone - standoff near 2 cm - image 4 in 8-image relative focus stack
		3315MH0000800031104131C00	4131	target Yarrow_Stone - standoff near 2 cm - image 5 in 8-image relative focus stack
		3315MH0000800031104132C00	4132	target Yarrow_Stone - standoff near 2 cm - image 6 in 8-image relative focus stack
		3315MH0000800031104133C00	4133	target Yarrow_Stone - standoff near 2 cm - image 7 in 8-image relative focus stack
		3315MH0000800031104134C00	4134	target Yarrow_Stone - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00712	sky flats - dust cover closed - MAHLI looking at the sky opposite the sun at +108.4° azimuth, +30° elevation, away from the rover deck	3315MH0007120001104135C00	4135	MAHLI sky flat field image - dust cover closed - manual focus at motor count 0 - close focus position - focus as if for working distance 21 mm
		3315MH0007120011104136C00	4136	MAHLI sky flat field image - dust cover closed - manual focus at motor count 2412 - focus as if for working distance of 39 mm
		3315MH0007120021104137C00	4137	MAHLI sky flat field image - dust cover closed - manual focus at motor count 3078 - focus as if for working distance of 69 mm
		3315MH0007120031104138C00	4138	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4062 - focus as if for working distance of 268 mm
		3315MH0007120041104139C00	4139	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4488 - near infinity focus
mhli00453	sky flats - MAHLI looking at the sky opposite the sun at +108.4° azimuth, +30° elevation, away from the rover deck	3315MH0004530001104140C00	4140	MAHLI sky flat field image - dust cover open - manual focus at motor count 15996 - close focus position - focus as if for working distance 21 mm
		3315MH0004530011104141C00	4141	MAHLI sky flat field image - dust cover open - manual focus at motor count 14664 - focus as if for working distance of 39 mm
		3315MH0004530021104142C00	4142	MAHLI sky flat field image - dust cover open - manual focus at motor count 13998 - focus as if for working distance of 69 mm
		3315MH0004530031104143C00	4143	MAHLI sky flat field image - dust cover open - manual focus at motor count 13014 - focus as if for working distance of 267 mm
		3315MH0004530041104144C00	4144	MAHLI sky flat field image - dust cover open - manual focus at motor count 12750 - focus as if for working distance of 633 mm
		3315MH0004530051104145C00	4145	MAHLI sky flat field image - dust cover open - manual focus at motor count 12552 - near infinity focus
mhli00453	sky flats - MAHLI looking at the sky opposite the sun at +108.4° azimuth, +30° elevation, away from the rover deck camera rotated 180° relative to the preceding set of sky flats	3315MH0004530001104146C00	4146	MAHLI sky flat field image - dust cover open - manual focus at motor count 15996 - close focus position - focus as if for working distance 21 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0004530011104147C00	4147	MAHLI sky flat field image - dust cover open - manual focus at motor count 14664 - focus as if for working distance of 39 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0004530021104148C00	4148	MAHLI sky flat field image - dust cover open - manual focus at motor count 13998 - focus as if for working distance of 69 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0004530031104149C00	4149	MAHLI sky flat field image - dust cover open - manual focus at motor count 13014 - focus as if for working distance of 267 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0004530041104150C00	4150	MAHLI sky flat field image - dust cover open - manual focus at motor count 12750 - focus as if for working distance of 633 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0004530051104151C00	4151	MAHLI sky flat field image - dust cover open - manual focus at motor count 12552 - near infinity focus - camera head rotated 180-degrees relative to previous acquired this same sol
mhli00712	sky flats - dust cover closed - MAHLI looking at the sky opposite the sun at +108.4° azimuth, +30° elevation, away from the rover deck camera rotated 180° relative to the preceding set of sky flats	3315MH0007120001104152C00	4152	MAHLI sky flat field image - dust cover closed - manual focus at motor count 0 - close focus position - focus as if for working distance 21 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0007120011104153C00	4153	MAHLI sky flat field image - dust cover closed - manual focus at motor count 2412 - focus as if for working distance of 39 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0007120021104154C00	4154	MAHLI sky flat field image - dust cover closed - manual focus at motor count 3078 - focus as if for working distance of 69 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0007120031104155C00	4155	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4062 - focus as if for working distance of 268 mm - camera head rotated 180-degrees relative to previous acquired this same sol
		3315MH0007120041104156C00	4156	MAHLI sky flat field image - dust cover closed - manual focus at motor count 4488 - near infinity focus - camera head rotated 180-degrees relative to previous acquired this same sol
mhli00193	Focus Merges	3315MH0001930001104157R00	4157	target Yarrow_Stone - standoff near 2 cm - focus stack acquired sol 3315 with MSL CAMERA_PRODUCT_IDs 4127-4134 - best focus image product
		3315MH0001930001104158S00	4158	target Yarrow_Stone - standoff near 2 cm - focus stack acquired sol 3315 with MSL CAMERA_PRODUCT_IDs 4127-4134 - range map product
		3315MH0001930001104159R00	4159	target Yarrow_Stone - stereo-2 - standoff near 5 cm - focus stack acquired sol 3315 with MSL CAMERA_PRODUCT_IDs 4116-4123 - best focus image product
		3315MH0001930001104160S00	4160	target Yarrow_Stone - stereo-2 - standoff near 5 cm - focus stack acquired sol 3315 with MSL CAMERA_PRODUCT_IDs 4116-4123 - range map product
		3315MH0001930001104161R00	4161	target Yarrow_Stone - stereo-1 - standoff near 5 cm - focus stack acquired sol 3315 with MSL CAMERA_PRODUCT_IDs 4105-4112 - best focus image product
		3315MH0001930001104162S00	4162	target Yarrow_Stone - stereo-1 - standoff near 5 cm - focus stack acquired sol 3315 with MSL CAMERA_PRODUCT_IDs 4105-4112 - range map product

updated: 21_December_2021

Sol 3316 - MAHLI Images

acquired/performed date(s):	4-Dec-21
camera positions:	17
total parent images:	171
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	171

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Whaligoe_Steps, which includes a 9x1 mosaic, and the target Laurentia.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00836	Whaligoe_Steps mosaic position 1 of 9 ~10 cm standoff	3316MH0008360001104163C00	4163	autofocus sub-frame for target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360011104164C00	4164	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360022104165C00	4165	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - alternative auto-exposure
		3316MH0008360031104166C00	4166	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 1 in 8-image relative focus stack
		3316MH0008360031104167C00	4167	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 2 in 8-image relative focus stack
		3316MH0008360031104168C00	4168	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 3 in 8-image relative focus stack
		3316MH0008360031104169C00	4169	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 4 in 8-image relative focus stack
		3316MH0008360031104170C00	4170	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 5 in 8-image relative focus stack
		3316MH0008360031104171C00	4171	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 6 in 8-image relative focus stack
		3316MH0008360031104172C00	4172	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 7 in 8-image relative focus stack
		3316MH0008360031104173C00	4173	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - image 8 in 8-image relative focus stack
mhli00836	Whaligoe_Steps mosaic position 2 of 9 ~10 cm standoff	3316MH0008360001104174C00	4174	autofocus sub-frame for target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360011104175C00	4175	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360022104176C00	4176	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - alternative auto-exposure
		3316MH0008360031104177C00	4177	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 1 in 8-image relative focus stack
		3316MH0008360031104178C00	4178	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 2 in 8-image relative focus stack
		3316MH0008360031104179C00	4179	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 3 in 8-image relative focus stack
		3316MH0008360031104180C00	4180	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 4 in 8-image relative focus stack
		3316MH0008360031104181C00	4181	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 5 in 8-image relative focus stack
		3316MH0008360031104182C00	4182	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 6 in 8-image relative focus stack
		3316MH0008360031104183C00	4183	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 7 in 8-image relative focus stack
		3316MH0008360031104184C00	4184	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - image 8 in 8-image relative focus stack
mhli00836	Whaligoe_Steps mosaic position 3 of 9 ~10 cm standoff	3316MH0008360001104185C00	4185	autofocus sub-frame for target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360011104186C00	4186	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360022104187C00	4187	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - alternative auto-exposure
		3316MH0008360031104188C00	4188	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 1 in 8-image relative focus stack
		3316MH0008360031104189C00	4189	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 2 in 8-image relative focus stack
		3316MH0008360031104190C00	4190	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 3 in 8-image relative focus stack
		3316MH0008360031104191C00	4191	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 4 in 8-image relative focus stack
		3316MH0008360031104192C00	4192	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 5 in 8-image relative focus stack
		3316MH0008360031104193C00	4193	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 6 in 8-image relative focus stack
		3316MH0008360031104194C00	4194	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 7 in 8-image relative focus stack
		3316MH0008360031104195C00	4195	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - image 8 in 8-image relative focus stack
mhli00836	Whaligoe_Steps mosaic position 4 of 9 ~10 cm standoff	3316MH0008360001104196C00	4196	autofocus sub-frame for target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360011104197C00	4197	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360022104198C00	4198	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - alternative auto-exposure
		3316MH0008360031104199C00	4199	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 1 in 8-image relative focus stack
		3316MH0008360031104200C00	4200	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 2 in 8-image relative focus stack
		3316MH0008360031104201C00	4201	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 3 in 8-image relative focus stack
		3316MH0008360031104202C00	4202	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 4 in 8-image relative focus stack
		3316MH0008360031104203C00	4203	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 5 in 8-image relative focus stack
		3316MH0008360031104204C00	4204	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 6 in 8-image relative focus stack
		3316MH0008360031104205C00	4205	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 7 in 8-image relative focus stack
		3316MH0008360031104206C00	4206	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - image 8 in 8-image relative focus stack
mhli00836	Whaligoe_Steps mosaic position 5 of 9 ~10 cm standoff	3316MH0008360001104207C00	4207	autofocus sub-frame for target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360011104208C00	4208	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360022104209C00	4209	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - alternative auto-exposure
		3316MH0008360031104210C00	4210	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 1 in 8-image relative focus stack
		3316MH0008360031104211C00	4211	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 2 in 8-image relative focus stack
		3316MH0008360031104212C00	4212	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 3 in 8-image relative focus stack
		3316MH0008360031104213C00	4213	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 4 in 8-image relative focus stack
		3316MH0008360031104214C00	4214	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 5 in 8-image relative focus stack
		3316MH0008360031104215C00	4215	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 6 in 8-image relative focus stack
		3316MH0008360031104216C00	4216	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 7 in 8-image relative focus stack
		3316MH0008360031104217C00	4217	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - image 8 in 8-image relative focus stack
mhli00836	Whaligoe_Steps mosaic position 6 of 9 ~10 cm standoff	3316MH0008360001104218C00	4218	autofocus sub-frame for target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360011104219C00	4219	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm
		3316MH0008360022104220C00	4220	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - alternative auto-exposure
		3316MH0008360031104221C00	4221	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 1 in 8-image relative focus stack
		3316MH0008360031104222C00	4222	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 2 in 8-image relative focus stack
		3316MH0008360031104223C00	4223	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 3 in 8-image relative focus stack
		3316MH0008360031104224C00	4224	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 4 in 8-image relative focus stack
		3316MH0008360031104225C00	4225	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 5 in 8-image relative focus stack
		3316MH0008360031104226C00	4226	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 6 in 8-image relative focus stack
		3316MH0008360031104227C00	4227	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 7 in 8-image relative focus stack
		3316MH0008360031104228C00	4228	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - image 8 in 8-image relative focus stack

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mhli00836	Whaligoe_Steps mosaic position 7 of 9 ~10 cm standoff	3316MH0008360001104229C00	4229	autofocus sub-frame for target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm
		3316MH0008360011104230C00	4230	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm
		3316MH0008360021104231C00	4231	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – alternative auto-exposure
		3316MH0008360031104232C00	4232	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 1 in 8-image relative focus stack
		3316MH0008360031104233C00	4233	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 2 in 8-image relative focus stack
		3316MH0008360031104234C00	4234	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 3 in 8-image relative focus stack
		3316MH0008360031104235C00	4235	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 4 in 8-image relative focus stack
		3316MH0008360031104236C00	4236	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 5 in 8-image relative focus stack
		3316MH0008360031104237C00	4237	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 6 in 8-image relative focus stack
		3316MH0008360031104238C00	4238	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 7 in 8-image relative focus stack
		3316MH0008360031104239C00	4239	target Whaligoe_Steps – mosaic position 7 of 9 – standoff between 10 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00836	Whaligoe_Steps mosaic position 8 of 9 ~10 cm standoff	3316MH0008360001104240C00	4240	autofocus sub-frame for target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm
		3316MH0008360011104241C00	4241	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm
		3316MH0008360021104242C00	4242	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – alternative auto-exposure
		3316MH0008360031104243C00	4243	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 1 in 8-image relative focus stack
		3316MH0008360031104244C00	4244	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 2 in 8-image relative focus stack
		3316MH0008360031104245C00	4245	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 3 in 8-image relative focus stack
		3316MH0008360031104246C00	4246	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 4 in 8-image relative focus stack
		3316MH0008360031104247C00	4247	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 5 in 8-image relative focus stack
		3316MH0008360031104248C00	4248	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 6 in 8-image relative focus stack
		3316MH0008360031104249C00	4249	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 7 in 8-image relative focus stack
		3316MH0008360031104250C00	4250	target Whaligoe_Steps – mosaic position 8 of 9 – standoff between 10 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00836	Whaligoe_Steps mosaic position 9 of 9 ~10 cm standoff	3316MH0008360001104251C00	4251	autofocus sub-frame for target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm
		3316MH0008360011104252C00	4252	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm
		3316MH0008360021104253C00	4253	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – alternative auto-exposure
		3316MH0008360031104254C00	4254	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 1 in 8-image relative focus stack
		3316MH0008360031104255C00	4255	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 2 in 8-image relative focus stack
		3316MH0008360031104256C00	4256	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 3 in 8-image relative focus stack
		3316MH0008360031104257C00	4257	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 4 in 8-image relative focus stack
		3316MH0008360031104258C00	4258	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 5 in 8-image relative focus stack
		3316MH0008360031104259C00	4259	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 6 in 8-image relative focus stack
		3316MH0008360031104260C00	4260	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 7 in 8-image relative focus stack
		3316MH0008360031104261C00	4261	target Whaligoe_Steps – mosaic position 9 of 9 – standoff between 10 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00706	Whaligoe_Steps ~25 cm standoff	3316MH0007060001104262C00	4262	autofocus sub-frame for target Whaligoe_Steps – standoff near 25 cm
		3316MH0007060011104263C00	4263	target Whaligoe_Steps – standoff near 25 cm
		3316MH0007060021104264C00	4264	target Whaligoe_Steps – standoff near 25 cm – alternative auto-exposure
mhli00708	Whaligoe_Steps stereo-1 ~5 cm standoff	3316MH0007080001104265C00	4265	autofocus sub-frame for target Whaligoe_Steps – stereo-1 – standoff near 5 cm
		3316MH0007080011104266C00	4266	target Whaligoe_Steps – stereo-1 – standoff near 5 cm
		3316MH0007080021104267C00	4267	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – alternative auto-exposure
		3316MH0007080031104268C00	4268	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3316MH0007080031104269C00	4269	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3316MH0007080031104270C00	4270	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3316MH0007080031104271C00	4271	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3316MH0007080031104272C00	4272	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3316MH0007080031104273C00	4273	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3316MH0007080031104274C00	4274	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3316MH0007080031104275C00	4275	target Whaligoe_Steps – stereo-1 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00708	Whaligoe_Steps stereo-2 ~5 cm standoff	3316MH0007080001104276C00	4276	autofocus sub-frame for target Whaligoe_Steps – stereo-2 – standoff near 5 cm
		3316MH0007080011104277C00	4277	target Whaligoe_Steps – stereo-2 – standoff near 5 cm
		3316MH0007080021104278C00	4278	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – alternative auto-exposure
		3316MH0007080031104279C00	4279	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3316MH0007080031104280C00	4280	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3316MH0007080031104281C00	4281	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3316MH0007080031104282C00	4282	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3316MH0007080031104283C00	4283	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3316MH0007080031104284C00	4284	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3316MH0007080031104285C00	4285	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3316MH0007080031104286C00	4286	target Whaligoe_Steps – stereo-2 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00837	Whaligoe_Steps ~1 cm standoff	3316MH0008370001104287C00	4287	autofocus sub-frame for target Whaligoe_Steps – standoff near 1 cm
		3316MH0008370011104288C00	4288	target Whaligoe_Steps – standoff near 1 cm
		3316MH0008370021104289C00	4289	target Whaligoe_Steps – standoff near 1 cm – alternative auto-exposure
		3316MH0008370031104290C00	4290	target Whaligoe_Steps – standoff near 1 cm – image 1 in 8-image relative focus stack
		3316MH0008370031104291C00	4291	target Whaligoe_Steps – standoff near 1 cm – image 2 in 8-image relative focus stack
		3316MH0008370031104292C00	4292	target Whaligoe_Steps – standoff near 1 cm – image 3 in 8-image relative focus stack
		3316MH0008370031104293C00	4293	target Whaligoe_Steps – standoff near 1 cm – image 4 in 8-image relative focus stack
		3316MH0008370031104294C00	4294	target Whaligoe_Steps – standoff near 1 cm – image 5 in 8-image relative focus stack
		3316MH0008370031104295C00	4295	target Whaligoe_Steps – standoff near 1 cm – image 6 in 8-image relative focus stack
		3316MH0008370031104296C00	4296	target Whaligoe_Steps – standoff near 1 cm – image 7 in 8-image relative focus stack
		3316MH0008370031104297C00	4297	target Whaligoe_Steps – standoff near 1 cm – image 8 in 8-image relative focus stack
mhli00706	Laurentia ~25 cm standoff	3316MH0007060001104298C00	4298	autofocus sub-frame for target Laurentia – standoff near 25 cm
		3316MH0007060011104299C00	4299	target Laurentia – standoff near 25 cm
		3316MH0007060021104300C00	4300	target Laurentia – standoff near 25 cm – alternative auto-exposure

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mhli00763	Laurentia stereo-1 ~5 cm standoff	3316MH00076300011104301C00	4301	autofocus sub-frame for target Laurentia - stereo-1 - standoff near 5 cm
		3316MH00076300111104302C00	4302	target Laurentia - stereo-1 - standoff near 5 cm
		3316MH00076300211104303C00	4303	target Laurentia - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3316MH00076300311104304C00	4304	target Laurentia - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3316MH00076300311104305C00	4305	target Laurentia - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3316MH00076300311104306C00	4306	target Laurentia - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3316MH00076300311104307C00	4307	target Laurentia - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3316MH00076300311104308C00	4308	target Laurentia - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3316MH00076300311104309C00	4309	target Laurentia - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3316MH00076300311104310C00	4310	target Laurentia - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3316MH00076300311104311C00	4311	target Laurentia - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Laurentia stereo-2 ~5 cm standoff	3316MH00076300011104312C00	4312	autofocus sub-frame for target Laurentia - stereo-2 - standoff near 5 cm
		3316MH00076300111104313C00	4313	target Laurentia - stereo-2 - standoff near 5 cm
		3316MH00076300211104314C00	4314	target Laurentia - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3316MH00076300311104315C00	4315	target Laurentia - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3316MH00076300311104316C00	4316	target Laurentia - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3316MH00076300311104317C00	4317	target Laurentia - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3316MH00076300311104318C00	4318	target Laurentia - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3316MH00076300311104319C00	4319	target Laurentia - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3316MH00076300311104320C00	4320	target Laurentia - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3316MH00076300311104321C00	4321	target Laurentia - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3316MH00076300311104322C00	4322	target Laurentia - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00794	Laurentia ~1 cm standoff	3316MH00079400011104323C00	4323	autofocus sub-frame for target Laurentia - standoff near 1 cm
		3316MH00079400111104324C00	4324	target Laurentia - standoff near 1 cm
		3316MH00079400211104325C00	4325	target Laurentia - standoff near 1 cm - alternative auto-exposure
		3316MH00079400311104326C00	4326	target Laurentia - standoff near 1 cm - image 1 in 8-image relative focus stack
		3316MH00079400311104327C00	4327	target Laurentia - standoff near 1 cm - image 2 in 8-image relative focus stack
		3316MH00079400311104328C00	4328	target Laurentia - standoff near 1 cm - image 3 in 8-image relative focus stack
		3316MH00079400311104329C00	4329	target Laurentia - standoff near 1 cm - image 4 in 8-image relative focus stack
		3316MH00079400311104330C00	4330	target Laurentia - standoff near 1 cm - image 5 in 8-image relative focus stack
		3316MH00079400311104331C00	4331	target Laurentia - standoff near 1 cm - image 6 in 8-image relative focus stack
		3316MH00079400311104332C00	4332	target Laurentia - standoff near 1 cm - image 7 in 8-image relative focus stack
		3316MH00079400311104333C00	4333	target Laurentia - standoff near 1 cm - image 8 in 8-image relative focus stack

updated: 06_December_2021

Sol 3318 - MAHLI Images

acquired/performed date(s):	6-Dec-21
camera positions:	0
total parent images:	0
focus merges performed:	15
total focus merge products:	30
total parent images + focus merge products:	30

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3316 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00440	Focus Merges	3318MH0004400001104334R00	4334	target Laurentia - standoff near 1 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4326-4333 - best focus image product
		3318MH0004400001104335S00	4335	target Laurentia - standoff near 1 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4326-4333 - range map product
		3318MH0004400001104336R00	4336	target Laurentia - stereo-2 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4315-4322 - best focus image product
		3318MH0004400001104337S00	4337	target Laurentia - stereo-2 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4315-4322 - range map product
		3318MH0004400001104338R00	4338	target Laurentia - stereo-1 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4304-4311 - best focus image product
		3318MH0004400001104339S00	4339	target Laurentia - stereo-1 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4304-4311 - range map product
		3318MH0004400001104340R00	4340	target Whaligoe_Steps - standoff near 1 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4290-4297 - best focus image product
		3318MH0004400001104341S00	4341	target Whaligoe_Steps - standoff near 1 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4290-4297 - range map product
		3318MH0004400001104342R00	4342	target Whaligoe_Steps - stereo-2 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4279-4286 - best focus image product
		3318MH0004400001104343S00	4343	target Whaligoe_Steps - stereo-2 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4279-4286 - range map product
		3318MH0004400001104344R00	4344	target Whaligoe_Steps - stereo-1 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4268-4275 - best focus image product
		3318MH0004400001104345S00	4345	target Whaligoe_Steps - stereo-1 - standoff near 5 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4268-4275 - range map product
		3318MH0004400001104346R00	4346	target Whaligoe_Steps - mosaic position 9 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4254-4261 - best focus image product
		3318MH0004400001104347S00	4347	target Whaligoe_Steps - mosaic position 9 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4254-4261 - range map product
		3318MH0004400001104348R00	4348	target Whaligoe_Steps - mosaic position 8 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4243-4250 - best focus image product
		3318MH0004400001104349S00	4349	target Whaligoe_Steps - mosaic position 8 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4243-4250 - range map product
		3318MH0004400001104350R00	4350	target Whaligoe_Steps - mosaic position 7 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4232-4239 - best focus image product
		3318MH0004400001104351S00	4351	target Whaligoe_Steps - mosaic position 7 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4232-4239 - range map product
		3318MH0004400001104352R00	4352	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4221-4228 - best focus image product
		3318MH0004400001104353S00	4353	target Whaligoe_Steps - mosaic position 6 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4221-4228 - range map product
		3318MH0004400001104354R00	4354	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4210-4217 - best focus image product
		3318MH0004400001104355S00	4355	target Whaligoe_Steps - mosaic position 5 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4210-4217 - range map product
		3318MH0004400001104356R00	4356	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4199-4206 - best focus image product
		3318MH0004400001104357S00	4357	target Whaligoe_Steps - mosaic position 4 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4199-4206 - range map product
		3318MH0004400001104358R00	4358	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4188-4195 - best focus image product
		3318MH0004400001104359S00	4359	target Whaligoe_Steps - mosaic position 3 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4188-4195 - range map product
		3318MH0004400001104360R00	4360	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4177-4184 - best focus image product
		3318MH0004400001104361S00	4361	target Whaligoe_Steps - mosaic position 2 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4177-4184 - range map product
		3318MH0004400001104362R00	4362	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4166-4173 - best focus image product
		3318MH0004400001104363S00	4363	target Whaligoe_Steps - mosaic position 1 of 9 - standoff between 10 cm and 16 cm - focus stack acquired sol 3316 with MSL CAMERA_PRODUCT_IDs 4166-4173 - range map product

updated: 21_December_2021

Sol 3319 - MAHLI Images

acquired/performed date(s):	7-Dec-21
camera positions:	4
total parent images:	32
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	38

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Duirinish and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Duirinish ~25 cm standoff	3319MH0001900001104364C00	4364	autofocus sub-frame for target Duirinish - standoff near 25 cm
		3319MH0001900011104365C00	4365	target Duirinish - standoff near 25 cm
mhli00168	Duirinish stereo-1 ~5 cm standoff	3319MH0001680001104366C00	4366	autofocus sub-frame for target Duirinish - stereo-1 - standoff near 5 cm
		3319MH0001680011104367C00	4367	target Duirinish - stereo-1 - standoff near 5 cm
		3319MH0001680021104368C00	4368	target Duirinish - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3319MH0001680021104369C00	4369	target Duirinish - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3319MH0001680021104370C00	4370	target Duirinish - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3319MH0001680021104371C00	4371	target Duirinish - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3319MH0001680021104372C00	4372	target Duirinish - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3319MH0001680021104373C00	4373	target Duirinish - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3319MH0001680021104374C00	4374	target Duirinish - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3319MH0001680021104375C00	4375	target Duirinish - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00168	Duirinish stereo-2 ~5 cm standoff	3319MH0001680001104376C00	4376	autofocus sub-frame for target Duirinish - stereo-2 - standoff near 5 cm
		3319MH0001680011104377C00	4377	target Duirinish - stereo-2 - standoff near 5 cm
		3319MH0001680021104378C00	4378	target Duirinish - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3319MH0001680021104379C00	4379	target Duirinish - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3319MH0001680021104380C00	4380	target Duirinish - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3319MH0001680021104381C00	4381	target Duirinish - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3319MH0001680021104382C00	4382	target Duirinish - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3319MH0001680021104383C00	4383	target Duirinish - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3319MH0001680021104384C00	4384	target Duirinish - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3319MH0001680021104385C00	4385	target Duirinish - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00743	Duirinish ~1 cm standoff	3319MH0007430001104386C00	4386	autofocus sub-frame for target Duirinish - standoff near 1 cm
		3319MH0007430011104387C00	4387	target Duirinish - standoff near 1 cm
		3319MH0007430021104388C00	4388	target Duirinish - standoff near 1 cm - image 1 in 8-image relative focus stack
		3319MH0007430021104389C00	4389	target Duirinish - standoff near 1 cm - image 2 in 8-image relative focus stack
		3319MH0007430021104390C00	4390	target Duirinish - standoff near 1 cm - image 3 in 8-image relative focus stack
		3319MH0007430021104391C00	4391	target Duirinish - standoff near 1 cm - image 4 in 8-image relative focus stack
		3319MH0007430021104392C00	4392	target Duirinish - standoff near 1 cm - image 5 in 8-image relative focus stack
		3319MH0007430021104393C00	4393	target Duirinish - standoff near 1 cm - image 6 in 8-image relative focus stack
		3319MH0007430021104394C00	4394	target Duirinish - standoff near 1 cm - image 7 in 8-image relative focus stack
		3319MH0007430021104395C00	4395	target Duirinish - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3319MH0001930001104396R00	4396	target Duirinish - standoff near 1 cm - focus stack acquired sol 3319 with MSL CAMERA_PRODUCT_IDs 4388-4395 - best focus image product
		3319MH0001930001104397S00	4397	target Duirinish - standoff near 1 cm - focus stack acquired sol 3319 with MSL CAMERA_PRODUCT_IDs 4388-4395 - range map product
		3319MH0001930001104398R00	4398	target Duirinish - stereo-2 - standoff near 5 cm - focus stack acquired sol 3319 with MSL CAMERA_PRODUCT_IDs 4378-4385 - best focus image product
		3319MH0001930001104399S00	4399	target Duirinish - stereo-2 - standoff near 5 cm - focus stack acquired sol 3319 with MSL CAMERA_PRODUCT_IDs 4378-4385 - range map product
		3319MH0001930001104400R00	4400	target Duirinish - stereo-1 - standoff near 5 cm - focus stack acquired sol 3319 with MSL CAMERA_PRODUCT_IDs 4368-4375 - best focus image product
		3319MH0001930001104401S00	4401	target Duirinish - stereo-1 - standoff near 5 cm - focus stack acquired sol 3319 with MSL CAMERA_PRODUCT_IDs 4368-4375 - range map product

updated: 15_September_2022

Sol 3320 - MAHLI Images

acquired/performed date(s):	8-Dec-21
camera positions:	4
total parent images:	4
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	4

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI acquired wheel inspection images of the 6 rover wheels.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00261	Right Rear & Middle Wheel	3320MH0002610011104402E01	4402	rover right rear and middle wheel inspection - manual focus assumes standoff about 317 cm
mhli00259	Right Front Wheel	3320MH0002590001104403E01	4403	rover right front wheel inspection - manual focus assumes standoff about 135 cm
mhli00264	Left Rear & Middle Wheel	3320MH0002640001104404E03	4404	rover left rear and middle wheel inspection - manual focus assumes standoff about 318 cm
mhli00262	Left Front Wheel	3320MH0002620001104405E01	4405	rover left front wheel inspection - manual focus assumes standoff about 137 cm

updated: 21_December_2021

Sol 3321 - MAHLI Images

acquired/performed date(s):	9-Dec-21
camera positions:	4
total parent images:	36
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	36

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT brushed target Cladh_Hallan.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Cladh_Hallan after DRT ~25 cm standoff	3321MH0007060001104406C00	4406	autofocus sub-frame for target Cladh_Hallan - after dust removal tool (DRT) - standoff near 25 cm
		3321MH0007060011104407C00	4407	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 25 cm
		3321MH0007060021104408C00	4408	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00723	Cladh_Hallan after DRT stereo-1 ~5 cm standoff	3321MH0007230001104409C00	4409	autofocus sub-frame for target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3321MH0007230011104410C00	4410	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3321MH0007230021104411C00	4411	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3321MH0007230031104412C00	4412	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3321MH0007230031104413C00	4413	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3321MH0007230031104414C00	4414	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3321MH0007230031104415C00	4415	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3321MH0007230031104416C00	4416	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3321MH0007230031104417C00	4417	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3321MH0007230031104418C00	4418	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3321MH0007230031104419C00	4419	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00723	Cladh_Hallan after DRT stereo-2 ~5 cm standoff	3321MH0007230001104420C00	4420	autofocus sub-frame for target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3321MH0007230011104421C00	4421	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3321MH0007230021104422C00	4422	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3321MH0007230031104423C00	4423	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3321MH0007230031104424C00	4424	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3321MH0007230031104425C00	4425	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3321MH0007230031104426C00	4426	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3321MH0007230031104427C00	4427	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3321MH0007230031104428C00	4428	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3321MH0007230031104429C00	4429	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3321MH0007230031104430C00	4430	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00746	Cladh_Hallan after DRT ~2 cm standoff	3321MH0007460001104431C00	4431	autofocus sub-frame for target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm
		3321MH0007460011104432C00	4432	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm
		3321MH0007460021104433C00	4433	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - alternative auto-exposure
		3321MH0007460031104434C00	4434	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 1 in 8-image relative focus stack
		3321MH0007460031104435C00	4435	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 2 in 8-image relative focus stack
		3321MH0007460031104436C00	4436	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 3 in 8-image relative focus stack
		3321MH0007460031104437C00	4437	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 4 in 8-image relative focus stack
		3321MH0007460031104438C00	4438	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 5 in 8-image relative focus stack
		3321MH0007460031104439C00	4439	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 6 in 8-image relative focus stack
		3321MH0007460031104440C00	4440	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 7 in 8-image relative focus stack
		3321MH0007460031104441C00	4441	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - image 8 in 8-image relative focus stack

updated: 10_December_2021

Sol 3322 - MAHLI Images

acquired/performed date(s):	10-Dec-21
camera positions:	0
total parent images:	0
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	6

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3321 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00193	Focus Merges	3322MH0001930001104442R00	4442	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3321 with MSL CAMERA_PRODUCT_IDs 4434-4441 - best focus image product
		3322MH0001930001104443S00	4443	target Cladh_Hallan - after dust removal tool (DRT) - standoff near 2 cm - focus stack acquired sol 3321 with MSL CAMERA_PRODUCT_IDs 4434-4441 - range map product
		3322MH0001930001104444R00	4444	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3321 with MSL CAMERA_PRODUCT_IDs 4423-4430 - best focus image product
		3322MH0001930001104445S00	4445	target Cladh_Hallan - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3321 with MSL CAMERA_PRODUCT_IDs 4423-4430 - range map product
		3322MH0001930001104446R00	4446	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3321 with MSL CAMERA_PRODUCT_IDs 4412-4419 - best focus image product
		3322MH0001930001104447S00	4447	target Cladh_Hallan - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3321 with MSL CAMERA_PRODUCT_IDs 4412-4419 - range map product

updated: 21_December_2021

Sol 3323 - MAHLI Images

acquired/performed date(s):	11-Dec-21
camera positions:	7
total parent images:	54
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	54

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Helens_Bay and Lakehead.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Helens_Bay ~25 cm standoff	3323MH0001900001104448C00	4448	autofocus sub-frame for target Helens_Bay - standoff near 25 cm
		3323MH0001900011104449C00	4449	target Helens_Bay - standoff near 25 cm
mhli00299	Helens_Bay stereo-1 ~5 cm standoff	3323MH0002990001104450C00	4450	autofocus sub-frame for target Helens_Bay - stereo-1 - standoff near 5 cm
		3323MH0002990011104451C00	4451	target Helens_Bay - stereo-1 - standoff near 5 cm
		3323MH0002990021104452C00	4452	target Helens_Bay - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3323MH0002990021104453C00	4453	target Helens_Bay - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3323MH0002990021104454C00	4454	target Helens_Bay - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3323MH0002990021104455C00	4455	target Helens_Bay - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3323MH0002990021104456C00	4456	target Helens_Bay - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3323MH0002990021104457C00	4457	target Helens_Bay - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3323MH0002990021104458C00	4458	target Helens_Bay - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3323MH0002990021104459C00	4459	target Helens_Bay - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00299	Helens_Bay stereo-2 ~5 cm standoff	3323MH0002990001104460C00	4460	autofocus sub-frame for target Helens_Bay - stereo-2 - standoff near 5 cm
		3323MH0002990011104461C00	4461	target Helens_Bay - stereo-2 - standoff near 5 cm
		3323MH0002990021104462C00	4462	target Helens_Bay - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3323MH0002990021104463C00	4463	target Helens_Bay - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3323MH0002990021104464C00	4464	target Helens_Bay - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3323MH0002990021104465C00	4465	target Helens_Bay - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3323MH0002990021104466C00	4466	target Helens_Bay - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3323MH0002990021104467C00	4467	target Helens_Bay - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3323MH0002990021104468C00	4468	target Helens_Bay - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3323MH0002990021104469C00	4469	target Helens_Bay - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00838	Helens_Bay ~1 cm standoff	3323MH0008380001104470C00	4470	autofocus sub-frame for target Helens_Bay - standoff near 1 cm
		3323MH0008380011104471C00	4471	target Helens_Bay - standoff near 1 cm
		3323MH0008380021104472C00	4472	target Helens_Bay - standoff near 1 cm - image 1 in 8-image relative focus stack
		3323MH0008380021104473C00	4473	target Helens_Bay - standoff near 1 cm - image 2 in 8-image relative focus stack
		3323MH0008380021104474C00	4474	target Helens_Bay - standoff near 1 cm - image 3 in 8-image relative focus stack
		3323MH0008380021104475C00	4475	target Helens_Bay - standoff near 1 cm - image 4 in 8-image relative focus stack
		3323MH0008380021104476C00	4476	target Helens_Bay - standoff near 1 cm - image 5 in 8-image relative focus stack
		3323MH0008380021104477C00	4477	target Helens_Bay - standoff near 1 cm - image 6 in 8-image relative focus stack
		3323MH0008380021104478C00	4478	target Helens_Bay - standoff near 1 cm - image 7 in 8-image relative focus stack
		3323MH0008380021104479C00	4479	target Helens_Bay - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00190	Lakehead ~25 cm standoff	3323MH0001900001104480C00	4480	autofocus sub-frame for target Lakehead - standoff near 25 cm
		3323MH0001900011104481C00	4481	target Lakehead - standoff near 25 cm
mhli00673	Lakehead stereo-1 ~4 cm standoff	3323MH0006730001104482C00	4482	autofocus sub-frame for target Lakehead - stereo-1 - standoff near 4 cm
		3323MH0006730011104483C00	4483	target Lakehead - stereo-1 - standoff near 4 cm
		3323MH0006730021104484C00	4484	target Lakehead - stereo-1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3323MH0006730021104485C00	4485	target Lakehead - stereo-1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3323MH0006730021104486C00	4486	target Lakehead - stereo-1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3323MH0006730021104487C00	4487	target Lakehead - stereo-1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3323MH0006730021104488C00	4488	target Lakehead - stereo-1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3323MH0006730021104489C00	4489	target Lakehead - stereo-1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3323MH0006730021104490C00	4490	target Lakehead - stereo-1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3323MH0006730021104491C00	4491	target Lakehead - stereo-1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00673	Lakehead stereo-2 ~4 cm standoff	3323MH0006730001104492C00	4492	autofocus sub-frame for target Lakehead - stereo-2 - standoff near 4 cm
		3323MH0006730011104493C00	4493	target Lakehead - stereo-2 - standoff near 4 cm
		3323MH0006730021104494C00	4494	target Lakehead - stereo-2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3323MH0006730021104495C00	4495	target Lakehead - stereo-2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3323MH0006730021104496C00	4496	target Lakehead - stereo-2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3323MH0006730021104497C00	4497	target Lakehead - stereo-2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3323MH0006730021104498C00	4498	target Lakehead - stereo-2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3323MH0006730021104499C00	4499	target Lakehead - stereo-2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3323MH0006730021104500C00	4500	target Lakehead - stereo-2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3323MH0006730021104501C00	4501	target Lakehead - stereo-2 - standoff near 4 cm - image 8 in 8-image relative focus stack

updated: 14_December_2021

Sol 3324 - MAHLI Images

acquired/performed date(s):	12-Dec-21
camera positions:	0
total parent images:	0
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	10

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3323 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00227	Focus Merges	3324MH0002270001104502R00	4502	target Lakehead - stereo-2 - standoff near 4 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4494-4501 - best focus image product
		3324MH0002270001104503S00	4503	target Lakehead - stereo-2 - standoff near 4 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4494-4501 - range map product
		3324MH0002270001104504R00	4504	target Lakehead - stereo-1 - standoff near 4 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4484-4491 - best focus image product
		3324MH0002270001104505S00	4505	target Lakehead - stereo-1 - standoff near 4 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4484-4491 - range map product
		3324MH0002270001104506R00	4506	target Helens_Bay - standoff near 1 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4472-4479 - best focus image product
		3324MH0002270001104507S00	4507	target Helens_Bay - standoff near 1 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4472-4479 - range map product
		3324MH0002270001104508R00	4508	target Helens_Bay - stereo-2 - standoff near 5 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4462-4469 - best focus image product
		3324MH0002270001104509S00	4509	target Helens_Bay - stereo-2 - standoff near 5 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4462-4469 - range map product
		3324MH0002270001104510R00	4510	target Helens_Bay - stereo-1 - standoff near 5 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4452-4459 - best focus image product
		3324MH0002270001104511S00	4511	target Helens_Bay - stereo-1 - standoff near 5 cm - focus stack acquired sol 3323 with MSL CAMERA_PRODUCT_IDs 4452-4459 - range map product

updated: 22_December_2021

Sol 3326 - MAHLI Images

acquired/performed date(s):	14-Dec-21
camera positions:	3
total parent images:	22
focus merges performed:	2
total focus merge products:	4
total parent images + focus merge products:	26

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: **MAHLI imaged the target Portgower and the focus stack images were merged.**

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Portgower ~25 cm standoff	3326MH0001900001104512C00	4512	autofocus sub-frame for target Portgower - standoff near 25 cm
		3326MH0001900011104513C00	4513	target Portgower - standoff near 25 cm
mhli00306	Portgower stereo-1 ~5 cm standoff	3326MH0003060001104514C00	4514	autofocus sub-frame for target Portgower - stereo-1 - standoff near 5 cm
		3326MH0003060011104515C00	4515	target Portgower - stereo-1 - standoff near 5 cm
		3326MH0003060021104516C00	4516	target Portgower - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3326MH0003060021104517C00	4517	target Portgower - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3326MH0003060021104518C00	4518	target Portgower - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3326MH0003060021104519C00	4519	target Portgower - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3326MH0003060021104520C00	4520	target Portgower - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3326MH0003060021104521C00	4521	target Portgower - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3326MH0003060021104522C00	4522	target Portgower - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3326MH0003060021104523C00	4523	target Portgower - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00306	Portgower stereo-2 ~5 cm standoff	3326MH0003060001104524C00	4524	autofocus sub-frame for target Portgower - stereo-2 - standoff near 5 cm
		3326MH0003060011104525C00	4525	target Portgower - stereo-2 - standoff near 5 cm
		3326MH0003060021104526C00	4526	target Portgower - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3326MH0003060021104527C00	4527	target Portgower - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3326MH0003060021104528C00	4528	target Portgower - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3326MH0003060021104529C00	4529	target Portgower - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3326MH0003060021104530C00	4530	target Portgower - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3326MH0003060021104531C00	4531	target Portgower - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3326MH0003060021104532C00	4532	target Portgower - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3326MH0003060021104533C00	4533	target Portgower - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00265	Focus Merges	3326MH0002650001104534R00	4534	target Portgower - stereo-2 - standoff near 5 cm - focus stack acquired sol 3326 with MSL CAMERA_PRODUCT_IDs 4526-4533 - best focus image product
		3326MH0002650001104535S00	4535	target Portgower - stereo-2 - standoff near 5 cm - focus stack acquired sol 3326 with MSL CAMERA_PRODUCT_IDs 4526-4533 - range map product
		3326MH0002650001104536R00	4536	target Portgower - stereo-1 - standoff near 5 cm - focus stack acquired sol 3326 with MSL CAMERA_PRODUCT_IDs 4516-4523 - best focus image product
		3326MH0002650001104537S00	4537	target Portgower - stereo-1 - standoff near 5 cm - focus stack acquired sol 3326 with MSL CAMERA_PRODUCT_IDs 4516-4523 - range map product

updated: 22_December_2021

Sol 3328 - MAHLI Images

acquired/performed date(s):	16-Dec-21
camera positions:	4
total parent images:	32
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	32

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Korskellie.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Korskellie ~25 cm standoff	3328MH0001900001104538C00	4538	autofocus sub-frame for target Korskellie - standoff near 25 cm
		3328MH0001900011104539C00	4539	target Korskellie - standoff near 25 cm
mhli00299	Korskellie stereo-1 ~5 cm standoff	3328MH0002990001104540C00	4540	autofocus sub-frame for target Korskellie - stereo-1 - standoff near 5 cm
		3328MH0002990011104541C00	4541	target Korskellie - stereo-1 - standoff near 5 cm
		3328MH0002990021104542C00	4542	target Korskellie - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3328MH0002990021104543C00	4543	target Korskellie - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3328MH0002990021104544C00	4544	target Korskellie - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3328MH0002990021104545C00	4545	target Korskellie - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3328MH0002990021104546C00	4546	target Korskellie - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3328MH0002990021104547C00	4547	target Korskellie - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3328MH0002990021104548C00	4548	target Korskellie - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3328MH0002990021104549C00	4549	target Korskellie - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00299	Korskellie stereo-2 ~5 cm standoff	3328MH0002990001104550C00	4550	autofocus sub-frame for target Korskellie - stereo-2 - standoff near 5 cm
		3328MH0002990011104551C00	4551	target Korskellie - stereo-2 - standoff near 5 cm
		3328MH0002990021104552C00	4552	target Korskellie - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3328MH0002990021104553C00	4553	target Korskellie - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3328MH0002990021104554C00	4554	target Korskellie - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3328MH0002990021104555C00	4555	target Korskellie - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3328MH0002990021104556C00	4556	target Korskellie - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3328MH0002990021104557C00	4557	target Korskellie - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3328MH0002990021104558C00	4558	target Korskellie - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3328MH0002990021104559C00	4559	target Korskellie - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00174	Korskellie ~2 cm standoff	3328MH0001740001104560C00	4560	autofocus sub-frame for target Korskellie - standoff near 2 cm
		3328MH0001740011104561C00	4561	target Korskellie - standoff near 2 cm
		3328MH0001740021104562C00	4562	target Korskellie - standoff near 2 cm - image 1 in 8-image relative focus stack
		3328MH0001740021104563C00	4563	target Korskellie - standoff near 2 cm - image 2 in 8-image relative focus stack
		3328MH0001740021104564C00	4564	target Korskellie - standoff near 2 cm - image 3 in 8-image relative focus stack
		3328MH0001740021104565C00	4565	target Korskellie - standoff near 2 cm - image 4 in 8-image relative focus stack
		3328MH0001740021104566C00	4566	target Korskellie - standoff near 2 cm - image 5 in 8-image relative focus stack
		3328MH0001740021104567C00	4567	target Korskellie - standoff near 2 cm - image 6 in 8-image relative focus stack
		3328MH0001740021104568C00	4568	target Korskellie - standoff near 2 cm - image 7 in 8-image relative focus stack
		3328MH0001740021104569C00	4569	target Korskellie - standoff near 2 cm - image 8 in 8-image relative focus stack

updated: 20_December_2021

Sol 3329 - MAHLI Images

acquired/performed date(s):	17-Dec-21
camera positions:	0
total parent images:	0
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	6

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3328 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00193	Focus Merges	3329MH0001930001104570R00	4570	target Korskellie - standoff near 2 cm - focus stack acquired sol 3328 with MSL CAMERA_PRODUCT_IDs 4562-4569 - best focus image product
		3329MH0001930001104571S00	4571	target Korskellie - standoff near 2 cm - focus stack acquired sol 3328 with MSL CAMERA_PRODUCT_IDs 4562-4569 - range map product
		3329MH0001930001104572R00	4572	target Korskellie - stereo-2 - standoff near 5 cm - focus stack acquired sol 3328 with MSL CAMERA_PRODUCT_IDs 4452-4559 - best focus image product
		3329MH0001930001104573S00	4573	target Korskellie - stereo-2 - standoff near 5 cm - focus stack acquired sol 3328 with MSL CAMERA_PRODUCT_IDs 4452-4559 - range map product
		3329MH0001930001104574R00	4574	target Korskellie - stereo-1 - standoff near 5 cm - focus stack acquired sol 3328 with MSL CAMERA_PRODUCT_IDs 4542-4549 - best focus image product
		3329MH0001930001104575S00	4575	target Korskellie - stereo-1 - standoff near 5 cm - focus stack acquired sol 3328 with MSL CAMERA_PRODUCT_IDs 4542-4549 - range map product

updated: 22_December_2021

Sol 3330 - MAHLI Images

acquired/performed date(s):	18-Dec-21
camera positions:	4
total parent images:	8
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	8

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Aros_Park and Clochoderick with the dust cover closed.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00625	Aros_Park dust cover closed ~25 cm standoff	3330MH0006250001104576C00	4576	autofocus sub-frame for target Aros_Park - dust cover closed - standoff near 25 cm
		3330MH0006250011104577C00	4577	target Aros_Park - dust cover closed - standoff near 25 cm
mhli00553	Aros_Park dust cover closed ~3 cm standoff	3330MH0005530001104578C00	4578	autofocus sub-frame for target Aros_Park - dust cover closed - standoff near 3 cm
		3330MH0005530011104579C00	4579	target Aros_Park - dust cover closed - standoff near 3 cm
mhli00625	Clochoderick after DRT dust cover closed ~25 cm standoff	3330MH0006250001104580C00	4580	autofocus sub-frame for target Clochoderick - after dust removal tool (DRT) - dust cover closed - standoff near 25 cm
		3330MH0006250011104581C00	4581	target Clochoderick - after dust removal tool (DRT) - dust cover closed - standoff near 25 cm
mhli00553	Clochoderick after DRT dust cover closed ~5 cm standoff	3330MH0005530001104582C00	4582	autofocus sub-frame for target Clochoderick - after dust removal tool (DRT) - dust cover closed - standoff near 5 cm
		3330MH0005530011104583C00	4583	target Clochoderick - after dust removal tool (DRT) - dust cover closed - standoff near 5 cm

updated: 05_January_2022

Sol 3344 - MAHLI Images

acquired/performed date(s):	2-Jan-22
camera positions:	5
total parent images:	42
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	42

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: **MAHLI imaged the DRT-brushed target Maes_Howe.**

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Maes_Howe after DRT ~25 cm standoff	3344MH0001900001104584C00	4584	autofocus sub-frame for target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 25 cm
		3344MH0001900011104585C00	4585	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 25 cm
mhli00173	Maes_Howe after DRT APXS spot 1 stereo-1 ~5 cm standoff	3344MH0001730001104586C00	4586	autofocus sub-frame for target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm
		3344MH0001730011104587C00	4587	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm
		3344MH0001730021104588C00	4588	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3344MH0001730021104589C00	4589	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3344MH0001730021104590C00	4590	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3344MH0001730021104591C00	4591	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3344MH0001730021104592C00	4592	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3344MH0001730021104593C00	4593	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3344MH0001730021104594C00	4594	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3344MH0001730021104595C00	4595	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Maes_Howe after DRT APXS spot 1 stereo-2 ~5 cm standoff	3344MH0001730001104596C00	4596	autofocus sub-frame for target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm
		3344MH0001730011104597C00	4597	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm
		3344MH0001730021104598C00	4598	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3344MH0001730021104599C00	4599	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3344MH0001730021104600C00	4600	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3344MH0001730021104601C00	4601	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3344MH0001730021104602C00	4602	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3344MH0001730021104603C00	4603	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3344MH0001730021104604C00	4604	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3344MH0001730021104605C00	4605	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00335	Maes_Howe after DRT APXS spot 1 ~2 cm standoff	3344MH0003350001104606C00	4606	autofocus sub-frame for target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm
		3344MH0003350011104607C00	4607	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm
		3344MH0003350021104608C00	4608	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 1 in 8-image relative focus stack
		3344MH0003350021104609C00	4609	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 2 in 8-image relative focus stack
		3344MH0003350021104610C00	4610	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 3 in 8-image relative focus stack
		3344MH0003350021104611C00	4611	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 4 in 8-image relative focus stack
		3344MH0003350021104612C00	4612	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 5 in 8-image relative focus stack
		3344MH0003350021104613C00	4613	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 6 in 8-image relative focus stack
		3344MH0003350021104614C00	4614	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 7 in 8-image relative focus stack
		3344MH0003350021104615C00	4615	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00173	Maes_Howe after DRT APXS spot 2 ~5 cm standoff	3344MH0001730001104616C00	4616	autofocus sub-frame for target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3344MH0001730011104617C00	4617	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3344MH0001730021104618C00	4618	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3344MH0001730021104619C00	4619	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3344MH0001730021104620C00	4620	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3344MH0001730021104621C00	4621	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3344MH0001730021104622C00	4622	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3344MH0001730021104623C00	4623	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3344MH0001730021104624C00	4624	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3344MH0001730021104625C00	4625	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 8 in 8-image relative focus stack

updated: 03_January_2022

Sol 3345 - MAHLI Images

acquired/performed date(s):	3-Jan-22
camera positions:	0
total parent images:	0
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	8

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3344 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00153	Focus Merges	3345MH0001530001104626R00	4626	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4618-4625 - best focus image product
		3345MH0001530001104627500	4627	target Maes_Howe - after dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4618-4625 - range map product
		3345MH0001530001104628R00	4628	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4608-4615 - best focus image product
		3345MH0001530001104629500	4629	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - standoff near 2 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4608-4615 - range map product
		3345MH0001530001104630R00	4630	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4598-4605 - best focus image product
		3345MH0001530001104631500	4631	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4598-4605 - range map product
		3345MH0001530001104632R00	4632	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4588-4595 - best focus image product
		3345MH0001530001104633500	4633	target Maes_Howe - after dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3344 with MSL CAMERA_PRODUCT_IDs 4588-4595 - range map product

updated: 10_January_2022

Sol 3347 - MAHLI Images

acquired/performed date(s):	5-Jan-22
camera positions:	3
total parent images:	22
focus merges performed:	2
total focus merge products:	4
total parent images + focus merge products:	26

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Verde and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Verde ~25 cm standoff	3347MH0001900011104634C00	4634	autofocus sub-frame for target Verde – standoff near 25 cm
		3347MH0001900011104635C00	4635	target Verde – standoff near 25 cm
mhli00173	Verde stereo-1 ~5 cm standoff	3347MH0001730001104636C00	4636	autofocus sub-frame for target Verde – stereo-1 – standoff near 5 cm
		3347MH0001730011104637C00	4637	target Verde – stereo-1 – standoff near 5 cm
		3347MH0001730021104638C00	4638	target Verde – stereo-1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3347MH0001730021104639C00	4639	target Verde – stereo-1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3347MH0001730021104640C00	4640	target Verde – stereo-1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3347MH0001730021104641C00	4641	target Verde – stereo-1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3347MH0001730021104642C00	4642	target Verde – stereo-1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3347MH0001730021104643C00	4643	target Verde – stereo-1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3347MH0001730021104644C00	4644	target Verde – stereo-1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3347MH0001730021104645C00	4645	target Verde – stereo-1 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00173	Verde stereo-2 ~5 cm standoff	3347MH0001730001104646C00	4646	autofocus sub-frame for target Verde – stereo-2 – standoff near 5 cm
		3347MH0001730011104647C00	4647	target Verde – stereo-2 – standoff near 5 cm
		3347MH0001730021104648C00	4648	target Verde – stereo-2 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3347MH0001730021104649C01-Partial	4649	target Verde – stereo-2 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3347MH0001730021104650I01	4650	target Verde – stereo-2 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3347MH0001730021104651I01	4651	target Verde – stereo-2 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3347MH0001730021104652I01	4652	target Verde – stereo-2 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3347MH0001730021104653I01	4653	target Verde – stereo-2 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3347MH0001730021104654I01	4654	target Verde – stereo-2 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3347MH0001730021104655I01	4655	target Verde – stereo-2 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00265	Focus Merges	3347MH0002650001104656R00	4656	target Verde – stereo-2 – standoff near 5 cm – focus stack acquired sol 3347 with MSL CAMERA_PRODUCT_IDs 4648-4655 – best focus image product
		3347MH0002650001104657S00	4657	target Verde – stereo-2 – standoff near 5 cm – focus stack acquired sol 3347 with MSL CAMERA_PRODUCT_IDs 4648-4655 – range map product
		3347MH0002650001104658R00	4658	target Verde – stereo-1 – standoff near 5 cm – focus stack acquired sol 3347 with MSL CAMERA_PRODUCT_IDs 4638-4645 – best focus image product
		3347MH0002650001104659S00	4659	target Verde – stereo-1 – standoff near 5 cm – focus stack acquired sol 3347 with MSL CAMERA_PRODUCT_IDs 4638-4645 – range map product

updated: 08_January_2022

Sol 3349 - MAHLI Images

acquired/performed date(s):	7-Jan-22
camera positions:	3
total parent images:	22
focus merges performed:	2
total focus merge products:	4
total parent images + focus merge products:	26

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target El_Fosso and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	El_Fosso ~25 cm standoff	3349MH0001900001104660I01	4660	autofocus sub-frame for target El_Fosso - standoff near 25 cm
		3349MH0001900011104661C00	4661	target El_Fosso - standoff near 25 cm
mhli00299	El_Fosso stereo-1 ~5 cm standoff	3349MH0002990001104662I01	4662	autofocus sub-frame for target El_Fosso - stereo-1 - standoff near 5 cm
		3349MH0002990011104663C00	4663	target El_Fosso - stereo-1 - standoff near 5 cm
		3349MH0002990021104664I01	4664	target El_Fosso - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3349MH0002990021104665I01	4665	target El_Fosso - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3349MH0002990021004666I01	4666	target El_Fosso - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3349MH0002990021004667I01	4667	target El_Fosso - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3349MH0002990021004668I01	4668	target El_Fosso - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3349MH0002990021004669I01	4669	target El_Fosso - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3349MH0002990021004670I01	4670	target El_Fosso - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3349MH0002990021004671I01	4671	target El_Fosso - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00299	El_Fosso stereo-2 ~5 cm standoff	3349MH0002990001004672I01	4672	autofocus sub-frame for target El_Fosso - stereo-2 - standoff near 5 cm
		3349MH0002990011004673C00	4673	target El_Fosso - stereo-2 - standoff near 5 cm
		3349MH0002990021004674I01	4674	target El_Fosso - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3349MH0002990021004675I01	4675	target El_Fosso - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3349MH0002990021004676I01	4676	target El_Fosso - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3349MH0002990021004677I01	4677	target El_Fosso - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3349MH0002990021004678I01	4678	target El_Fosso - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3349MH0002990021004679I01	4679	target El_Fosso - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3349MH0002990021004680I01	4680	target El_Fosso - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3349MH0002990021004681I01	4681	target El_Fosso - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00265	Focus Merges	3349MH0002650001004682R00	4682	target El_Fosso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3349 with MSL CAMERA_PRODUCT_IDs 4674-4681 - best focus image product
		3349MH0002650001004683S00	4683	target El_Fosso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3349 with MSL CAMERA_PRODUCT_IDs 4674-4681 - range map product
		3349MH0002650001004684R00	4684	target El_Fosso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3349 with MSL CAMERA_PRODUCT_IDs 4664-4671 - best focus image product
		3349MH0002650001004685S00	4685	target El_Fosso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3349 with MSL CAMERA_PRODUCT_IDs 4664-4671 - range map product

updated: 14_April_2022

Sol 3353 - MAHLI Images

acquired/performed date(s):	11-Jan-22
camera positions:	8
total parent images:	8
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	8

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI attempted to image ≥ 360° of the 3 left wheels and right front wheel. Only position 1 and 2 images were acquired. An anomaly occurred when the rover was at wheel position 3 of 5, so subsequent images were not acquired. The anomaly appears to have occurred in the MAHLI DEA and became the subject of immediate investigation.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00769	Left Rear Wheel - top view **Wheel Inspection Position 1 of 5**	3353MH0007690011004686I01	4686	rover left rear wheel inspection - top view looking downward on wheel - position 1 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view **Wheel Inspection Position 1 of 5**	3353MH0007700011004687I01	4687	rover left middle wheel inspection - top view looking downward on wheel - position 1 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view **Wheel Inspection Position 1 of 5**	3353MH0007710011004688I01	4688	rover left front wheel inspection - top view looking downward on wheel - position 1 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view **Wheel Inspection Position 1 of 5**	3353MH0007720011004689I01	4689	rover right front wheel inspection - top view looking downward on wheel - position 1 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view **Wheel Inspection Position 2 of 5**	3353MH0007690011004690I01	4690	rover left rear wheel inspection - top view looking downward on wheel - position 2 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view **Wheel Inspection Position 2 of 5**	3353MH0007700011004691I01	4691	rover left middle wheel inspection - top view looking downward on wheel - position 2 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view **Wheel Inspection Position 2 of 5**	3353MH0007710011004692I01	4692	rover left front wheel inspection - top view looking downward on wheel - position 2 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view **Wheel Inspection Position 2 of 5**	3353MH0007720011004693I01	4693	rover right front wheel inspection - top view looking downward on wheel - position 2 of planned 5 but 2 actual of campaign performed on sol 3353 - manual focus assumes standoff about 124 cm

updated: 29_January_2022

Sol 3362 - MAHLI Images

acquired/performed date(s):	20-Jan-22
camera positions:	9
total parent images:	86
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	86

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: On Sol 3361, all data on the MAHLI DEA (CDPIDs 1-4693 from Sols 2993-3353) were erased from the MAHLI DEA as part of the recovery from the Sol 3353 DEA Flash issue. On Sol 3362, MAHLI imaged the targets Coati and Morok and MAHLI acquired a 5x1 mosaic of the target Caroni.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Coati ~25 cm standoff	3362MH0007060001300001C00	1	autofocus sub-frame for target Coati - standoff near 25 cm
		3362MH0007060011200002C00	2	target Coati - standoff near 25 cm
		3362MH0007060021200003C00	3	target Coati - standoff near 25 cm - alternative auto-exposure
mhli00714	Coati stereo-1 ~55 mm standoff	3362MH0007140001200004C00	4	autofocus sub-frame for target Coati - stereo-1 - standoff near 55 mm
		3362MH0007140011200005C00	5	target Coati - stereo-1 - standoff near 55 mm
		3362MH0007140021200006C00	6	target Coati - stereo-1 - standoff near 55 mm - alternative auto-exposure
		3362MH0007140031200007C00	7	target Coati - stereo-1 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3362MH0007140031200008C00	8	target Coati - stereo-1 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3362MH0007140031200009C00	9	target Coati - stereo-1 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3362MH0007140031200010C00	10	target Coati - stereo-1 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3362MH0007140031200011C00	11	target Coati - stereo-1 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3362MH0007140031200012C00	12	target Coati - stereo-1 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3362MH0007140031200013C00	13	target Coati - stereo-1 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3362MH0007140031200014C00	14	target Coati - stereo-1 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00714	Coati stereo-2 ~55 mm standoff	3362MH0007140001200015C00	15	autofocus sub-frame for target Coati - stereo-2 - standoff near 55 mm
		3362MH0007140011200016C00	16	target Coati - stereo-2 - standoff near 55 mm
		3362MH0007140021200017C00	17	target Coati - stereo-2 - standoff near 55 mm - alternative auto-exposure
		3362MH0007140031200018C00	18	target Coati - stereo-2 - standoff near 55 mm - image 1 in 8-image relative focus stack
		3362MH0007140031200019C00	19	target Coati - stereo-2 - standoff near 55 mm - image 2 in 8-image relative focus stack
		3362MH0007140031200020C00	20	target Coati - stereo-2 - standoff near 55 mm - image 3 in 8-image relative focus stack
		3362MH0007140031200021C00	21	target Coati - stereo-2 - standoff near 55 mm - image 4 in 8-image relative focus stack
		3362MH0007140031200022C00	22	target Coati - stereo-2 - standoff near 55 mm - image 5 in 8-image relative focus stack
		3362MH0007140031200023C00	23	target Coati - stereo-2 - standoff near 55 mm - image 6 in 8-image relative focus stack
		3362MH0007140031200024C00	24	target Coati - stereo-2 - standoff near 55 mm - image 7 in 8-image relative focus stack
		3362MH0007140031200025C00	25	target Coati - stereo-2 - standoff near 55 mm - image 8 in 8-image relative focus stack
mhli00714	Morok ~65 mm standoff	3362MH0007140001200026C00	26	autofocus sub-frame for target Morok - standoff near 65 mm
		3362MH0007140011200027C00	27	target Morok - standoff near 65 mm
		3362MH0007140021200028C00	28	target Morok - standoff near 65 mm - alternative auto-exposure
		3362MH0007140031200029C00	29	target Morok - standoff near 65 mm - image 1 in 8-image relative focus stack
		3362MH0007140031200030C00	30	target Morok - standoff near 65 mm - image 2 in 8-image relative focus stack
		3362MH0007140031200031C00	31	target Morok - standoff near 65 mm - image 3 in 8-image relative focus stack
		3362MH0007140031200032C00	32	target Morok - standoff near 65 mm - image 4 in 8-image relative focus stack
		3362MH0007140031200033C00	33	target Morok - standoff near 65 mm - image 5 in 8-image relative focus stack
		3362MH0007140031200034C00	34	target Morok - standoff near 65 mm - image 6 in 8-image relative focus stack
		3362MH0007140031200035C00	35	target Morok - standoff near 65 mm - image 7 in 8-image relative focus stack
		3362MH0007140031200036C00	36	target Morok - standoff near 65 mm - image 8 in 8-image relative focus stack
mhli00152	Caroni mosaic position 1 of 5 ~7 cm standoff	3362MH0001520001200037C00	37	autofocus sub-frame for target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm
		3362MH0001520011200038C00	38	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm
		3362MH0001520021200039C00	39	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 1 in 8-image relative focus stack
		3362MH0001520021200040C00	40	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 2 in 8-image relative focus stack
		3362MH0001520021200041C00	41	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 3 in 8-image relative focus stack
		3362MH0001520021200042C00	42	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 4 in 8-image relative focus stack
		3362MH0001520021200043C00	43	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 5 in 8-image relative focus stack
		3362MH0001520021200044C00	44	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 6 in 8-image relative focus stack
		3362MH0001520021200045C00	45	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 7 in 8-image relative focus stack
		3362MH0001520021200046C00	46	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - image 8 in 8-image relative focus stack
mhli00152	Caroni mosaic position 2 of 5 ~7 cm standoff	3362MH0001520001200047C00	47	autofocus sub-frame for target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm
		3362MH0001520011200048C00	48	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm
		3362MH0001520021200049C00	49	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 1 in 8-image relative focus stack
		3362MH0001520021200050C00	50	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 2 in 8-image relative focus stack
		3362MH0001520021200051C00	51	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 3 in 8-image relative focus stack
		3362MH0001520021200052C00	52	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 4 in 8-image relative focus stack
		3362MH0001520021200053C00	53	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 5 in 8-image relative focus stack
		3362MH0001520021200054C00	54	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 6 in 8-image relative focus stack
		3362MH0001520021200055C00	55	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 7 in 8-image relative focus stack
		3362MH0001520021200056C00	56	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - image 8 in 8-image relative focus stack
mhli00152	Caroni mosaic position 3 of 5 ~7 cm standoff	3362MH0001520001200057C00	57	autofocus sub-frame for target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm
		3362MH0001520011200058C00	58	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm
		3362MH0001520021200059C00	59	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 1 in 8-image relative focus stack
		3362MH0001520021200060C00	60	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 2 in 8-image relative focus stack
		3362MH0001520021200061C00	61	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 3 in 8-image relative focus stack
		3362MH0001520021200062C00	62	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 4 in 8-image relative focus stack
		3362MH0001520021200063C00	63	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 5 in 8-image relative focus stack
		3362MH0001520021200064C00	64	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 6 in 8-image relative focus stack
		3362MH0001520021200065C00	65	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 7 in 8-image relative focus stack
		3362MH0001520021200066C00	66	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00152	Caroni mosaic position 4 of 5 ~7 cm standoff	3362MH0001520001200067C00	67	autofocus sub-frame for target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm
		3362MH0001520011200068C00	68	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm
		3362MH0001520021200069C00	69	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 1 in 8-image relative focus stack
		3362MH0001520021200070C00	70	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 2 in 8-image relative focus stack
		3362MH0001520021200071C00	71	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 3 in 8-image relative focus stack
		3362MH0001520021200072C00	72	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 4 in 8-image relative focus stack
		3362MH0001520021200073C00	73	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 5 in 8-image relative focus stack
		3362MH0001520021200074C00	74	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 6 in 8-image relative focus stack
		3362MH0001520021200075C00	75	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 7 in 8-image relative focus stack
		3362MH0001520021200076C00	76	target Caroni – mosaic position 4 of 5 – standoff between 5 cm and 7 cm – image 8 in 8-image relative focus stack
mhli00152	Caroni mosaic position 5 of 5 ~7 cm standoff	3362MH0001520001200077C00	77	autofocus sub-frame for target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm
		3362MH0001520011200078C00	78	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm
		3362MH0001520021200079C00	79	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 1 in 8-image relative focus stack
		3362MH0001520021200080C00	80	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 2 in 8-image relative focus stack
		3362MH0001520021200081C00	81	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 3 in 8-image relative focus stack
		3362MH0001520021200082C00	82	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 4 in 8-image relative focus stack
		3362MH0001520021200083C00	83	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 5 in 8-image relative focus stack
		3362MH0001520021200084C00	84	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 6 in 8-image relative focus stack
		3362MH0001520021200085C00	85	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 7 in 8-image relative focus stack
		3362MH0001520021200086C00	86	target Caroni – mosaic position 5 of 5 – standoff between 5 cm and 7 cm – image 8 in 8-image relative focus stack

updated: 21_January_2022

Sol 3363 - MAHLI Images

acquired/performed date(s):	21-Jan-22
camera positions:	0
total parent images:	0
focus merges performed:	8
total focus merge products:	16
total parent images + focus merge products:	16

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: The focus merges from Sol 3362 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00170	Focus Merges	3363MH0001700001200087R00	87	target Caroni - mosaic position 5 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 79-86 - best focus image product
		3363MH0001700001200088S00	88	target Caroni - mosaic position 5 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 79-86 - range map product
		3363MH0001700001200089R00	89	target Caroni - mosaic position 4 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 69-76 - best focus image product
		3363MH0001700001200090S00	90	target Caroni - mosaic position 4 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 69-76 - range map product
		3363MH0001700001200091R00	91	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 59-66 - best focus image product
		3363MH0001700001200092S00	92	target Caroni - mosaic position 3 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 59-66 - range map product
		3363MH0001700001200093R00	93	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 49-56 - best focus image product
		3363MH0001700001200094S00	94	target Caroni - mosaic position 2 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 49-56 - range map product
		3363MH0001700001200095R00	95	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 39-46 - best focus image product
		3363MH0001700001200096S00	96	target Caroni - mosaic position 1 of 5 - standoff between 5 cm and 7 cm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 39-46 - range map product
		3363MH0001700001200097R00	97	target Morok - standoff near 65 mm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 29-36 - best focus image product
		3363MH0001700001200098S00	98	target Morok - standoff near 65 mm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 29-36 - range map product
		3363MH0001700001200099R00	99	target Coati - stereo-2 - standoff near 55 mm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 18-25 - best focus image product
		3363MH0001700001200100S00	100	target Coati - stereo-2 - standoff near 55 mm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 18-25 - range map product
		3363MH0001700001200101R00	101	target Coati - stereo-1 - standoff near 55 mm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 7-14 - best focus image product
		3363MH0001700001200102S00	102	target Coati - stereo-1 - standoff near 55 mm - focus stack acquired sol 3362 with MSL CAMERA_PRODUCT_IDs 7-14 - range map product

updated: 31_January_2022

Sol 3364 - MAHLI Images

acquired/performed date(s):	22-Jan-22
camera positions:	6
total parent images:	44
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	44

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Mazaruni and Formoso.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Mazaruni ~25 cm standoff	3364MH0001900001200103C00	103	autofocus sub-frame for target Mazaruni - standoff near 25 cm
		3364MH0001900011200104C00	104	target Mazaruni - standoff near 25 cm
mhli00299	Mazaruni stereo-1 ~5 cm standoff	3364MH0002990001200105C00	105	autofocus sub-frame for target Mazaruni - stereo-1 - standoff near 5 cm
		3364MH0002990011200106C00	106	target Mazaruni - stereo-1 - standoff near 5 cm
		3364MH0002990021200107C00	107	target Mazaruni - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3364MH0002990021200108C00	108	target Mazaruni - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3364MH0002990021200109C00	109	target Mazaruni - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3364MH0002990021200110C00	110	target Mazaruni - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3364MH0002990021200111C00	111	target Mazaruni - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3364MH0002990021200112C00	112	target Mazaruni - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3364MH0002990021200113C00	113	target Mazaruni - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3364MH0002990021200114C00	114	target Mazaruni - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00299	Mazaruni stereo-2 ~5 cm standoff	3364MH0002990001200115C00	115	autofocus sub-frame for target Mazaruni - stereo-2 - standoff near 5 cm
		3364MH0002990011200116C00	116	target Mazaruni - stereo-2 - standoff near 5 cm
		3364MH0002990021200117C00	117	target Mazaruni - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3364MH0002990021200118C00	118	target Mazaruni - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3364MH0002990021200119C00	119	target Mazaruni - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3364MH0002990021200120C00	120	target Mazaruni - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3364MH0002990021200121C00	121	target Mazaruni - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3364MH0002990021200122C00	122	target Mazaruni - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3364MH0002990021200123C00	123	target Mazaruni - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3364MH0002990021200124C00	124	target Mazaruni - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00190	Formoso ~25 cm standoff	3364MH0001900001200125C00	125	autofocus sub-frame for target Formoso - standoff near 25 cm
		3364MH0001900011200126C00	126	target Formoso - standoff near 25 cm
mhli00168	Formoso stereo-1 ~5 cm standoff	3364MH0001680001200127C00	127	autofocus sub-frame for target Formoso - stereo-1 - standoff near 5 cm
		3364MH0001680011200128C00	128	target Formoso - stereo-1 - standoff near 5 cm
		3364MH0001680021200129C00	129	target Formoso - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3364MH0001680021200130C00	130	target Formoso - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3364MH0001680021200131C00	131	target Formoso - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3364MH0001680021200132C00	132	target Formoso - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3364MH0001680021200133C00	133	target Formoso - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3364MH0001680021200134C00	134	target Formoso - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3364MH0001680021200135C00	135	target Formoso - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3364MH0001680021200136C00	136	target Formoso - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00168	Formoso stereo-2 ~5 cm standoff	3364MH0001680001200137C00	137	autofocus sub-frame for target Formoso - stereo-2 - standoff near 5 cm
		3364MH0001680011200138C00	138	target Formoso - stereo-2 - standoff near 5 cm
		3364MH0001680021200139C00	139	target Formoso - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3364MH0001680021200140C00	140	target Formoso - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3364MH0001680021200141C00	141	target Formoso - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3364MH0001680021200142C00	142	target Formoso - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3364MH0001680021200143C00	143	target Formoso - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3364MH0001680021200144C00	144	target Formoso - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3364MH0001680021200145C00	145	target Formoso - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3364MH0001680021200146C00	146	target Formoso - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack

updated: 24_January_2022

Sol 3365 - MAHLI Images

acquired/performed date(s):	~~23-Jan-22~~
camera positions:	0
total parent images:	0
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	8

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3364 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789
mhli00153	Focus Merges	3365MH0001530001200147R00	147	target Formoso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 139-146 - best focus image product
		3365MH0001530001200148S00	148	target Formoso - stereo-2 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 139-146 - range map product
		3365MH0001530001200149R00	149	target Formoso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 129-136 - best focus image product
		3365MH0001530001200150S00	150	target Formoso - stereo-1 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 129-136 - range map product
		3365MH0001530001200151R00	151	target Mazaruni - stereo-2 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 117-124 - best focus image product
		3365MH0001530001200152S00	152	target Mazaruni - stereo-2 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 117-124 - range map product
		3365MH0001530001200153R00	153	target Mazaruni - stereo-1 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 107-114 - best focus image product
		3365MH0001530001200154S00	154	target Mazaruni - stereo-1 - standoff near 5 cm - focus stack acquired sol 3364 with MSL CAMERA_PRODUCT_IDs 107-114 - range map product

updated: 15_September_2022

Sol 3369 - MAHLI Images

acquired/performed date(s):	27-Jan-22
camera positions:	20
total parent images:	20
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	20

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged ≥ 360° of the 3 left rover wheels and right front rover wheel.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00769	Left Rear Wheel - top view Wheel Inspection Position 1 of 5	3369MH0007690011200155E01	155	rover left rear wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view Wheel Inspection Position 1 of 5	3369MH0007700011200156E01	156	rover left middle wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view Wheel Inspection Position 1 of 5	3369MH0007710011200157E01	157	rover left front wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view Wheel Inspection Position 1 of 5	3369MH0007720011200158E01	158	rover right front wheel inspection - top view looking downward on wheel - position 1 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view Wheel Inspection Position 2 of 5	3369MH0007690011200159E01	159	rover left rear wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view Wheel Inspection Position 2 of 5	3369MH0007700011200160E01	160	rover left middle wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view Wheel Inspection Position 2 of 5	3369MH0007710011200161E01	161	rover left front wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view Wheel Inspection Position 2 of 5	3369MH0007720011200162E01	162	rover right front wheel inspection - top view looking downward on wheel - position 2 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view Wheel Inspection Position 3 of 5	3369MH0007690011200163E01	163	rover left rear wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view Wheel Inspection Position 3 of 5	3369MH0007700011200164E01	164	rover left middle wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view Wheel Inspection Position 3 of 5	3369MH0007710011200165E01	165	rover left front wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view Wheel Inspection Position 3 of 5	3369MH0007720011200166E01	166	rover right front wheel inspection - top view looking downward on wheel - position 3 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view Wheel Inspection Position 4 of 5	3369MH0007690011200167E01	167	rover left rear wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view Wheel Inspection Position 4 of 5	3369MH0007700011200168E01	168	rover left middle wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view Wheel Inspection Position 4 of 5	3369MH0007710011200169E01	169	rover left front wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view Wheel Inspection Position 4 of 5	3369MH0007720011200170E01	170	rover right front wheel inspection - top view looking downward on wheel - position 4 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 124 cm
mhli00769	Left Rear Wheel - top view Wheel Inspection Position 5 of 5	3369MH0007690011200171E01	171	rover left rear wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 170 cm
mhli00770	Left Middle Wheel - top view Wheel Inspection Position 5 of 5	3369MH0007700011200172E01	172	rover left middle wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 112 cm
mhli00771	Left Front Wheel - top view Wheel Inspection Position 5 of 5	3369MH0007710011200173E01	173	rover left front wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3369 - manual focus assumes standoff of about 135 cm
mhli00772	Right Front Wheel - top view Wheel Inspection Position 5 of 5	3369MH0007720011200174E01	174	rover right front wheel inspection - top view looking downward on wheel - position 5 of 5 of campaign performed on sol 3369 - manual focus assumes standoff about 124 cm

updated: 05_February_2022

Sol 3371 - MAHLI Images

acquired/performed date(s):	29-Jan-22
camera positions:	13
total parent images:	104
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	104

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI acquired a 6x1 mosaic on the target The_Test and imaged the DRT-brushed target Suapi.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00708	The_Test mosaic position 1 of 6 ~5 cm standoff	3371MH0007080001200175C00	175	autofocus sub-frame for target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080011200176C00	176	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080021200177C00	177	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – alternative auto-exposure
		3371MH0007080031200178C00	178	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 1 in 8-image relative focus stack
		3371MH0007080031200179C00	179	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 2 in 8-image relative focus stack
		3371MH0007080031200180C00	180	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 3 in 8-image relative focus stack
		3371MH0007080031200181C00	181	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 4 in 8-image relative focus stack
		3371MH0007080031200182C00	182	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 5 in 8-image relative focus stack
		3371MH0007080031200183C00	183	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 6 in 8-image relative focus stack
		3371MH0007080031200184C00	184	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 7 in 8-image relative focus stack
		3371MH0007080031200185C00	185	target The_Test – mosaic position 1 of 6 – standoff between 4 cm and 5 cm – image 8 in 8-image relative focus stack
mhli00708	The_Test mosaic position 2 of 6 ~5 cm standoff	3371MH0007080001200186C00	186	autofocus sub-frame for target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080011200187C00	187	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080021200188C00	188	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – alternative auto-exposure
		3371MH0007080031200189C00	189	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 1 in 8-image relative focus stack
		3371MH0007080031200190C00	190	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 2 in 8-image relative focus stack
		3371MH0007080031200191C00	191	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 3 in 8-image relative focus stack
		3371MH0007080031200192C00	192	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 4 in 8-image relative focus stack
		3371MH0007080031200193C00	193	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 5 in 8-image relative focus stack
		3371MH0007080031200194C00	194	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 6 in 8-image relative focus stack
		3371MH0007080031200195C00	195	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 7 in 8-image relative focus stack
		3371MH0007080031200196C00	196	target The_Test – mosaic position 2 of 6 – standoff between 4 cm and 5 cm – image 8 in 8-image relative focus stack
mhli00708	The_Test mosaic position 3 of 6 ~5 cm standoff	3371MH0007080000120197C00	197	autofocus sub-frame for target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080011200198C00	198	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080021200199C00	199	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – alternative auto-exposure
		3371MH0007080031200200C00	200	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 1 in 8-image relative focus stack
		3371MH0007080031200201C00	201	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 2 in 8-image relative focus stack
		3371MH0007080031200202C00	202	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 3 in 8-image relative focus stack
		3371MH0007080031200203C00	203	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 4 in 8-image relative focus stack
		3371MH0007080031200204C00	204	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 5 in 8-image relative focus stack
		3371MH0007080031200205C00	205	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 6 in 8-image relative focus stack
		3371MH0007080031200206C00	206	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 7 in 8-image relative focus stack
		3371MH0007080031200207C00	207	target The_Test – mosaic position 3 of 6 – standoff between 4 cm and 5 cm – image 8 in 8-image relative focus stack
mhli00708	The_Test mosaic position 4 of 6 ~5 cm standoff	3371MH0007080000120208C00	208	autofocus sub-frame for target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080011200209C00	209	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080021200210C00	210	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – alternative auto-exposure
		3371MH0007080031200211C00	211	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 1 in 8-image relative focus stack
		3371MH0007080031200212C00	212	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 2 in 8-image relative focus stack
		3371MH0007080031200213C00	213	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 3 in 8-image relative focus stack
		3371MH0007080031200214C00	214	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 4 in 8-image relative focus stack
		3371MH0007080031200215C00	215	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 5 in 8-image relative focus stack
		3371MH0007080031200216C00	216	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 6 in 8-image relative focus stack
		3371MH0007080031200217C00	217	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 7 in 8-image relative focus stack
		3371MH0007080031200218C00	218	target The_Test – mosaic position 4 of 6 – standoff between 4 cm and 5 cm – image 8 in 8-image relative focus stack
mhli00708	The_Test mosaic position 5 of 6 ~5 cm standoff	3371MH0007080000120219C00	219	autofocus sub-frame for target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080011200220C00	220	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080021200221C00	221	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – alternative auto-exposure
		3371MH0007080031200222C00	222	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 1 in 8-image relative focus stack
		3371MH0007080031200223C00	223	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 2 in 8-image relative focus stack
		3371MH0007080031200224C00	224	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 3 in 8-image relative focus stack
		3371MH0007080031200225C00	225	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 4 in 8-image relative focus stack
		3371MH0007080031200226C00	226	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 5 in 8-image relative focus stack
		3371MH0007080031200227C00	227	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 6 in 8-image relative focus stack
		3371MH0007080031200228C00	228	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 7 in 8-image relative focus stack
		3371MH0007080031200229C00	229	target The_Test – mosaic position 5 of 6 – standoff between 4 cm and 5 cm – image 8 in 8-image relative focus stack
mhli00708	The_Test mosaic position 6 of 6 ~5 cm standoff	3371MH0007080000120230C00	230	autofocus sub-frame for target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080011200231C00	231	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm
		3371MH0007080021200232C00	232	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – alternative auto-exposure
		3371MH0007080031200233C00	233	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 1 in 8-image relative focus stack
		3371MH0007080031200234C00	234	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 2 in 8-image relative focus stack
		3371MH0007080031200235C00	235	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 3 in 8-image relative focus stack
		3371MH0007080031200236C00	236	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 4 in 8-image relative focus stack
		3371MH0007080031200237C00	237	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 5 in 8-image relative focus stack
		3371MH0007080031200238C00	238	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 6 in 8-image relative focus stack
		3371MH0007080031200239C00	239	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 7 in 8-image relative focus stack
		3371MH0007080031200240C00	240	target The_Test – mosaic position 6 of 6 – standoff between 4 cm and 5 cm – image 8 in 8-image relative focus stack
mhli00190	Suapi after DRT ~25 cm standoff	3371MH0001900001200241C00	241	autofocus sub-frame for target Suapi – after dust removal tool (DRT) – standoff near 25 cm
		3371MH0001900011200242C00	242	target Suapi – after dust removal tool (DRT) – standoff near 25 cm

Continued on Next Page...

mhli00173	Suapi after DRT stereo-1 relief model position 1 ~5 cm standoff	3371MH0001730001200243C00	243	autofocus sub-frame for target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm
		3371MH0001730011200244C00	244	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm
		3371MH0001730021200245C00	245	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3371MH0001730021200246C00	246	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3371MH0001730021200247C00	247	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3371MH0001730021200248C00	248	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3371MH0001730021200249C00	249	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3371MH0001730021200250C00	250	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3371MH0001730021200251C00	251	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3371MH0001730021200252C00	252	target Suapi – after dust removal tool (DRT) – stereo-1 – relief model position 1 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00173	Suapi after DRT stereo-2 relief model position 2 ~5 cm standoff	3371MH0001730001200253C00	253	autofocus sub-frame for target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm
		3371MH0001730011200254C00	254	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm
		3371MH0001730021200255C00	255	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3371MH0001730021200256C00	256	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3371MH0001730021200257C00	257	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3371MH0001730021200258C00	258	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3371MH0001730021200259C00	259	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3371MH0001730021200260C00	260	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3371MH0001730021200261C00	261	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3371MH0001730021200262C00	262	target Suapi – after dust removal tool (DRT) – stereo-2 – relief model position 2 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00705	Suapi after DRT relief model position 3 ~5 cm standoff	3371MH0007050001200263C00	263	autofocus sub-frame for target Suapi – after dust removal tool (DRT) – relief model position 3 – standoff near 5 cm
		3371MH0007050011200264C00	264	target Suapi – after dust removal tool (DRT) – relief model position 3 – standoff near 5 cm
mhli00705	Suapi after DRT relief model position 4 ~5 cm standoff	3371MH0007050001200265C00	265	autofocus sub-frame for target Suapi – after dust removal tool (DRT) – relief model position 4 – standoff near 5 cm
		3371MH0007050011200266C00	266	target Suapi – after dust removal tool (DRT) – relief model position 4 – standoff near 5 cm
mhli00705	Suapi after DRT relief model position 5 ~5 cm standoff	3371MH0007050001200267C00	267	autofocus sub-frame for target Suapi – after dust removal tool (DRT) – relief model position 5 – standoff near 5 cm
		3371MH0007050011200268C00	268	target Suapi – after dust removal tool (DRT) – relief model position 5 – standoff near 5 cm
mhli00426	Suapi after DRT ~1 cm standoff	3371MH0004260001200269C00	269	autofocus sub-frame for target Suapi – after dust removal tool (DRT) – standoff near 1 cm
		3371MH0004260011200270C00	270	target Suapi – after dust removal tool (DRT) – standoff near 1 cm
		3371MH0004260021200271C00	271	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 1 in 8-image relative focus stack
		3371MH0004260021200272C00	272	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 2 in 8-image relative focus stack
		3371MH0004260021200273C00	273	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 3 in 8-image relative focus stack
		3371MH0004260021200274C00	274	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 4 in 8-image relative focus stack
		3371MH0004260021200275C00	275	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 5 in 8-image relative focus stack
		3371MH0004260021200276C00	276	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 6 in 8-image relative focus stack
		3371MH0004260021200277C00	277	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 7 in 8-image relative focus stack
		3371MH0004260021200278C00	278	target Suapi – after dust removal tool (DRT) – standoff near 1 cm – image 8 in 8-image relative focus stack

updated: 31_January_2022

Sol 3372 - MAHLI Images

acquired/performed date(s):	30-Jan-22
camera positions:	0
total parent images:	0
focus merges performed:	9
total focus merge products:	18
total parent images + focus merge products:	18

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3371 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli0536	Focus Merges	3372MH0005360001200279R00	279	target Suapi - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 271-278 - best focus image product
		3372MH0005360001200280S00	280	target Suapi - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 271-278 - range map product
		3372MH0005360001200281R00	281	target Suapi - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 255-262 - best focus image product
		3372MH0005360001200282S00	282	target Suapi - after dust removal tool (DRT) - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 255-262 - range map product
		3372MH0005360001200283R00	283	target Suapi - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 245-252 - best focus image product
		3372MH0005360001200284S00	284	target Suapi - after dust removal tool (DRT) - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 245-252 - range map product
		3372MH0005360001200285R00	285	target The_Test - mosaic position 6 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 233-240 - best focus image product
		3372MH0005360001200286S00	286	target The_Test - mosaic position 6 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 233-240 - range map product
		3372MH0005360001200287R00	287	target The_Test - mosaic position 5 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 222-229 - best focus image product
		3372MH0005360001200288S00	288	target The_Test - mosaic position 5 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 222-229 - range map product
		3372MH0005360001200289R00	289	target The_Test - mosaic position 4 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 211-218 - best focus image product
		3372MH0005360001200290S00	290	target The_Test - mosaic position 4 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 211-218 - range map product
		3372MH0005360001200291R00	291	target The_Test - mosaic position 3 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 200-207 - best focus image product
		3372MH0005360001200292S00	292	target The_Test - mosaic position 3 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 200-207 - range map product
		3372MH0005360001200293R00	293	target The_Test - mosaic position 2 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 189-196 - best focus image product
		3372MH0005360001200294S00	294	target The_Test - mosaic position 2 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 189-196 - range map product
		3372MH0005360001200295R00	295	target The_Test - mosaic position 1 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 178-185 - best focus image product
		3372MH0005360001200296S00	296	target The_Test - mosaic position 1 of 6 - standoff between 4 cm and 5 cm - focus stack acquired sol 3371 with MSL CAMERA_PRODUCT_IDs 178-185 - range map product

updated: 15_September_2022

Sol 3374 - MAHLI Images

acquired/performed date(s):	2-Feb-22
camera positions:	16
total parent images:	152
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	152

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI acquired an 11 frame "T-shaped" mosaic of the Toron block and imaged the target Surumu which is on the Toron block.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli0841	Toron mosaic position 1 of 11 ~15 cm standoff	3374MH0008410001200297C00	297	autofocus sub-frame for target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410011200298C00	298	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410021200299C00	299	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH0008410021200300C00	300	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH0008410021200301C00	301	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH0008410021200302C00	302	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH0008410021200303C00	303	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH0008410021200304C00	304	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH0008410021200305C00	305	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH0008410021200306C00	306	target Toron – mosaic position 1 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli0841	Toron mosaic position 2 of 11 ~15 cm standoff	3374MH0008410001200307C00	307	autofocus sub-frame for target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410011200308C00	308	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410021200309C00	309	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH0008410021200310C00	310	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH0008410021200311C00	311	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH0008410021200312C00	312	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH0008410021200313C00	313	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH0008410021200314C00	314	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH0008410021200315C00	315	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH0008410021200316C00	316	target Toron – mosaic position 2 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli0841	Toron mosaic position 3 of 11 ~15 cm standoff	3374MH0008410001200317C00	317	autofocus sub-frame for target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410011200318C00	318	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410021200319C00	319	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH0008410021200320C00	320	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH0008410021200321C00	321	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH0008410021200322C00	322	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH0008410021200323C00	323	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH0008410021200324C00	324	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH0008410021200325C00	325	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH0008410021200326C00	326	target Toron – mosaic position 3 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli0841	Toron mosaic position 4 of 11 ~15 cm standoff	3374MH0008410001200327C00	327	autofocus sub-frame for target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410011200328C00	328	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410021200329C00	329	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH0008410021200330C00	330	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH0008410021200331C00	331	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH0008410021200332C00	332	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH0008410021200333C00	333	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH0008410021200334C00	334	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH0008410021200335C00	335	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH0008410021200336C00	336	target Toron – mosaic position 4 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli0841	Toron mosaic position 5 of 11 ~15 cm standoff	3374MH0008410001200337C00	337	autofocus sub-frame for target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410011200338C00	338	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410021200339C00	339	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH0008410021200340C00	340	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH0008410021200341C00	341	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH0008410021200342C00	342	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH0008410021200343C00	343	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH0008410021200344C00	344	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH0008410021200345C00	345	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH0008410021200346C00	346	target Toron – mosaic position 5 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli0841	Toron mosaic position 6 of 11 ~15 cm standoff	3374MH0008410001200347C00	347	autofocus sub-frame for target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410011200348C00	348	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm
		3374MH0008410021200349C00	349	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH0008410021200350C00	350	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH0008410021200351C00	351	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH0008410021200352C00	352	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH0008410021200353C00	353	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH0008410021200354C00	354	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH0008410021200355C00	355	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH0008410021200356C00	356	target Toron – mosaic position 6 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack

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mhli00841	Toron mosaic position 7 of 11 ~15 cm standoff	3374MH00084100012003570D0	357	autofocus sub-frame for target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100112003580D0	358	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100212003590D0	359	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH00084100212003600D0	360	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH00084100212003610D0	361	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH00084100212003620D0	362	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH00084100212003630D0	363	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH00084100212003640D0	364	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH00084100212003650D0	365	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH00084100212003660D0	366	target Toron – mosaic position 7 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00841	Toron mosaic position 8 of 11 ~15 cm standoff	3374MH00084100012003670D0	367	autofocus sub-frame for target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100112003680D0	368	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100212003690D0	369	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH00084100212003700D0	370	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH00084100212003710D0	371	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH00084100212003720D0	372	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH00084100212003730D0	373	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH00084100212003740D0	374	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH00084100212003750D0	375	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH00084100212003760D0	376	target Toron – mosaic position 8 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00841	Toron mosaic position 9 of 11 ~15 cm standoff	3374MH00084100012003770D0	377	autofocus sub-frame for target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100112003780D0	378	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100212003790D0	379	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH00084100212003800D0	380	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH00084100212003810D0	381	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH00084100212003820D0	382	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH00084100212003830D0	383	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH00084100212003840D0	384	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH00084100212003850D0	385	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH00084100212003860D0	386	target Toron – mosaic position 9 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00841	Toron mosaic position 10 of 11 ~15 cm standoff	3374MH00084100012003870D0	387	autofocus sub-frame for target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100112003880D0	388	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100212003890D0	389	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH00084100212003900D0	390	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH00084100212003910D0	391	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH00084100212003920D0	392	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH00084100212003930D0	393	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH00084100212003940D0	394	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH00084100212003950D0	395	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH00084100212003960D0	396	target Toron – mosaic position 10 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00841	Toron mosaic position 11 of 11 ~15 cm standoff	3374MH00084100012003970D0	397	autofocus sub-frame for target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100112003980D0	398	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm
		3374MH00084100212003990D0	399	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 1 in 8-image relative focus stack
		3374MH00084100212004000D0	400	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 2 in 8-image relative focus stack
		3374MH00084100212004010D0	401	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 3 in 8-image relative focus stack
		3374MH00084100212004020D0	402	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 4 in 8-image relative focus stack
		3374MH00084100212004030D0	403	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 5 in 8-image relative focus stack
		3374MH00084100212004040D0	404	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 6 in 8-image relative focus stack
		3374MH00084100212004050D0	405	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 7 in 8-image relative focus stack
		3374MH00084100212004060D0	406	target Toron – mosaic position 11 of 11 – standoff between 12 cm and 16 cm – image 8 in 8-image relative focus stack
mhli00190	Surumu ~25 cm standoff	3374MH00019000012004070D0	407	autofocus sub-frame for target Surumu – APXS spot 2 – standoff near 25 cm
		3374MH00019000112004080D0	408	target Surumu – APXS spot 2 – standoff near 25 cm
mhli00152	Surumu APXS spot 2 stereo-1 ~5 cm standoff	3374MH00015200012004090D0	409	autofocus sub-frame for target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm
		3374MH00015200112004100D0	410	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm
		3374MH00015200212004110D0	411	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3374MH00015200212004120D0	412	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3374MH00015200212004130D0	413	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3374MH00015200212004140D0	414	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3374MH00015200212004150D0	415	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3374MH00015200212004160D0	416	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3374MH00015200212004170D0	417	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3374MH00015200212004180D0	418	target Surumu – APXS spot 2 – stereo-1 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00152	Surumu APXS spot 2 stereo-2 ~5 cm standoff	3374MH00015200012004190D0	419	autofocus sub-frame for target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm
		3374MH00015200112004200D0	420	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm
		3374MH00015200212004210D0	421	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3374MH00015200212004220D0	422	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3374MH00015200212004230D0	423	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3374MH00015200212004240D0	424	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3374MH00015200212004250D0	425	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3374MH00015200212004260D0	426	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3374MH00015200212004270D0	427	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3374MH00015200212004280D0	428	target Surumu – APXS spot 2 – stereo-2 – standoff near 5 cm – image 8 in 8-image relative focus stack

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mhli00419	Surumu APXS spot 2 ~1 cm standoff	3374MH0004190001200429C00	429	autofocus sub-frame for target Surumu – APXS spot 2 – standoff near 1 cm
		3374MH0004190011200430C00	430	target Surumu – APXS spot 2 – standoff near 1 cm
		3374MH0004190021200431C00	431	target Surumu – APXS spot 2 – standoff near 1 cm – image 1 in 8-image relative focus stack
		3374MH0004190021200432C00	432	target Surumu – APXS spot 2 – standoff near 1 cm – image 2 in 8-image relative focus stack
		3374MH0004190021200433C00	433	target Surumu – APXS spot 2 – standoff near 1 cm – image 3 in 8-image relative focus stack
		3374MH0004190021200434C00	434	target Surumu – APXS spot 2 – standoff near 1 cm – image 4 in 8-image relative focus stack
		3374MH0004190021200435C00	435	target Surumu – APXS spot 2 – standoff near 1 cm – image 5 in 8-image relative focus stack
		3374MH0004190021200436C00	436	target Surumu – APXS spot 2 – standoff near 1 cm – image 6 in 8-image relative focus stack
		3374MH0004190021200437C00	437	target Surumu – APXS spot 2 – standoff near 1 cm – image 7 in 8-image relative focus stack
		3374MH0004190021200438C00	438	target Surumu – APXS spot 2 – standoff near 1 cm – image 8 in 8-image relative focus stack
mhli00152	Surumu APXS spot 1 ~5 cm standoff	3374MH0001520001200439C00	439	autofocus sub-frame for target Surumu – APXS spot 1 – standoff near 5 cm
		3374MH0001520011200440C00	440	target Surumu – APXS spot 1 – standoff near 5 cm
		3374MH0001520021200441C00	441	target Surumu – APXS spot 1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3374MH0001520021200442C00	442	target Surumu – APXS spot 1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3374MH0001520021200443C00	443	target Surumu – APXS spot 1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3374MH0001520021200444C00	444	target Surumu – APXS spot 1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3374MH0001520021200445C00	445	target Surumu – APXS spot 1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3374MH0001520021200446C00	446	target Surumu – APXS spot 1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3374MH0001520021200447C00	447	target Surumu – APXS spot 1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3374MH0001520021200448C00	448	target Surumu – APXS spot 1 – standoff near 5 cm – image 8 in 8-image relative focus stack

updated: 03_February_2022

Sol 3375 - MAHLI Images

acquired/performed date(s):	2-Feb-22
camera positions:	0
total parent images:	0
focus merges performed:	15
total focus merge products:	30
total parent images + focus merge products:	30

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3374 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00440	Focus Merges	3375MH0004400001200449R00	449	target Surumu - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 441-448 - best focus image product
		3375MH0004400001200450S00	450	target Surumu - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 441-448 - range map product
		3375MH0004400001200451R00	451	target Surumu - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 431-438 - best focus image product
		3375MH0004400001200452S00	452	target Surumu - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 431-438 - range map product
		3375MH0004400001200453R00	453	target Surumu - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 421-428 - best focus image product
		3375MH0004400001200454S00	454	target Surumu - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 421-428 - range map product
		3375MH0004400001200455R00	455	target Surumu - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 411-418 - best focus image product
		3375MH0004400001200456S00	456	target Surumu - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 411-418 - range map product
		3375MH0004400001200457R00	457	target Toron - mosaic position 11 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 399-406 - best focus image product
		3375MH0004400001200458S00	458	target Toron - mosaic position 11 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 399-406 - range map product
		3375MH0004400001200459R00	459	target Toron - mosaic position 10 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 389-396 - best focus image product
		3375MH0004400001200460S00	460	target Toron - mosaic position 10 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 389-396 - range map product
		3375MH0004400001200461R00	461	target Toron - mosaic position 9 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 379-386 - best focus image product
		3375MH0004400001200462S00	462	target Toron - mosaic position 9 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 379-386 - range map product
		3375MH0004400001200463R00	463	target Toron - mosaic position 8 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 369-376 - best focus image product
		3375MH0004400001200464S00	464	target Toron - mosaic position 8 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 369-376 - range map product
		3375MH0004400001200465R00	465	target Toron - mosaic position 7 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 359-366 - best focus image product
		3375MH0004400001200466S00	466	target Toron - mosaic position 7 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 359-366 - range map product
		3375MH0004400001200467R00	467	target Toron - mosaic position 6 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 349-356 - best focus image product
		3375MH0004400001200468S00	468	target Toron - mosaic position 6 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 349-356 - range map product
		3375MH0004400001200469R00	469	target Toron - mosaic position 5 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 339-346 - best focus image product
		3375MH0004400001200470S00	470	target Toron - mosaic position 5 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 339-346 - range map product
		3375MH0004400001200471R00	471	target Toron - mosaic position 4 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 329-336 - best focus image product
		3375MH0004400001200472S00	472	target Toron - mosaic position 4 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 329-336 - range map product
		3375MH0004400001200473R00	473	target Toron - mosaic position 3 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 319-326 - best focus image product
		3375MH0004400001200474S00	474	target Toron - mosaic position 3 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 319-326 - range map product
		3375MH0004400001200475R00	475	target Toron - mosaic position 2 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 309-316 - best focus image product
		3375MH0004400001200476S00	476	target Toron - mosaic position 2 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 309-316 - range map product
		3375MH0004400001200477R00	477	target Toron - mosaic position 1 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 299-306 - best focus image product
		3375MH0004400001200478S00	478	target Toron - mosaic position 1 of 11 - standoff between 12 cm and 16 cm - focus stack acquired sol 3374 with MSL CAMERA_PRODUCT_IDs 299-306 - range map product

updated: 14_April_2022

Sol 3376 - MAHLI Images

acquired/performed date(s):	3-Feb-22
camera positions:	4
total parent images:	32
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	38

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Kokadai and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Kokadai ~25 cm standoff	3376MH0001900001200479C00	479	autofocus sub-frame for target Kokadai - standoff near 25 cm
		3376MH0001900011200480C00	480	target Kokadai - standoff near 25 cm
mhli00173	Kokadai stereo-1 ~5 cm standoff	3376MH0001730001200481C00	481	autofocus sub-frame for target Kokadai - stereo-1 - standoff near 5 cm
		3376MH0001730011200482C00	482	target Kokadai - stereo-1 - standoff near 5 cm
		3376MH0001730021200483C00	483	target Kokadai - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3376MH0001730021200484C00	484	target Kokadai - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3376MH0001730021200485C00	485	target Kokadai - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3376MH0001730021200486C00	486	target Kokadai - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3376MH0001730021200487C00	487	target Kokadai - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3376MH0001730021200488C00	488	target Kokadai - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3376MH0001730021200489C00	489	target Kokadai - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3376MH0001730021200490C00	490	target Kokadai - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Kokadai stereo-2 ~5 cm standoff	3376MH0001730001200491C00	491	autofocus sub-frame for target Kokadai - stereo-2 - standoff near 5 cm
		3376MH0001730011200492C00	492	target Kokadai - stereo-2 - standoff near 5 cm
		3376MH0001730021200493C00	493	target Kokadai - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3376MH0001730021200494C00	494	target Kokadai - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3376MH0001730021200495C00	495	target Kokadai - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3376MH0001730021200496C00	496	target Kokadai - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3376MH0001730021200497C00	497	target Kokadai - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3376MH0001730021200498C00	498	target Kokadai - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3376MH0001730021200499C00	499	target Kokadai - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3376MH0001730021200500C00	500	target Kokadai - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00716	Kokadai ~1 cm standoff	3376MH0001760001200501C00	501	autofocus sub-frame for target Kokadai - standoff near 1 cm
		3376MH0001760011200502C00	502	target Kokadai - standoff near 1 cm
		3376MH0001760021200503C00	503	target Kokadai - standoff near 1 cm - image 1 in 8-image relative focus stack
		3376MH0001760021200504C00	504	target Kokadai - standoff near 1 cm - image 2 in 8-image relative focus stack
		3376MH0001760021200505C00	505	target Kokadai - standoff near 1 cm - image 3 in 8-image relative focus stack
		3376MH0001760021200506C00	506	target Kokadai - standoff near 1 cm - image 4 in 8-image relative focus stack
		3376MH0001760021200507C00	507	target Kokadai - standoff near 1 cm - image 5 in 8-image relative focus stack
		3376MH0001760021200508C00	508	target Kokadai - standoff near 1 cm - image 6 in 8-image relative focus stack
		3376MH0001760021200509C00	509	target Kokadai - standoff near 1 cm - image 7 in 8-image relative focus stack
		3376MH0001760021200510C00	510	target Kokadai - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3376MH0001930001200511R00	511	target Kokadai - standoff near 1 cm - focus stack acquired sol 3376 with MSL CAMERA_PRODUCT_IDs 503-510 - best focus image product
		3376MH0001930001200512S00	512	target Kokadai - standoff near 1 cm - focus stack acquired sol 3376 with MSL CAMERA_PRODUCT_IDs 503-510 - range map product
		3376MH0001930001200513R00	513	target Kokadai - stereo-2 - standoff near 5 cm - focus stack acquired sol 3376 with MSL CAMERA_PRODUCT_IDs 493-500 - best focus image product
		3376MH0001930001200514S00	514	target Kokadai - stereo-2 - standoff near 5 cm - focus stack acquired sol 3376 with MSL CAMERA_PRODUCT_IDs 493-500 - range map product
		3376MH0001930001200515R00	515	target Kokadai - stereo-1 - standoff near 5 cm - focus stack acquired sol 3376 with MSL CAMERA_PRODUCT_IDs 483-490 - best focus image product
		3376MH0001930001200516S00	516	target Kokadai - stereo-1 - standoff near 5 cm - focus stack acquired sol 3376 with MSL CAMERA_PRODUCT_IDs 483-490 - range map product

updated: 18_April_2022

Sol 3378 - MAHLI Images

acquired/performed date(s):	6-Feb-22
camera positions:	7
total parent images:	46
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	54

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the REMS UV Sensor and the targets Erico and Aji. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00095	REMS UV sensor ~15 cm standoff	3378MH0000950001200517C00	S17	autofocus sub-frame for REMS UV sensor - characterize dust accumulation
		3378MH0000950011200518C00	S18	REMS UV sensor - characterize dust accumulation
mhli00190	Erico ~25 cm standoff	3378MH0001900001200519C00	S19	autofocus sub-frame for target Erico - standoff near 25 cm
		3378MH0001900011200520C00	S20	target Erico - standoff near 25 cm
mhli00190	Aji ~25 cm standoff	3378MH0001900001200521C00	S21	autofocus sub-frame for target Aji - standoff near 25 cm
		3378MH0001900011200522C00	S22	target Aji - standoff near 25 cm
mhli00224	Aji stereo-1 ~5 cm standoff	3378MH0002240001200523C00	S23	autofocus sub-frame for target Aji - stereo-1 - standoff near 5 cm
		3378MH0002240011200524C00	S24	target Aji - stereo-1 - standoff near 5 cm
		3378MH0002240021200525C00	S25	target Aji - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3378MH0002240021200526C00	S26	target Aji - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3378MH0002240021200527C00	S27	target Aji - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3378MH0002240021200528C00	S28	target Aji - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3378MH0002240021200529C00	S29	target Aji - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3378MH0002240021200530C00	S30	target Aji - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3378MH0002240021200531C00	S31	target Aji - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3378MH0002240021200532C00	S32	target Aji - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00224	Aji stereo-2 ~5 cm standoff	3378MH0002240001200533C00	S33	autofocus sub-frame for target Aji - stereo-2 - standoff near 5 cm
		3378MH0002240011200534C00	S34	target Aji - stereo-2 - standoff near 5 cm
		3378MH0002240021200535C00	S35	target Aji - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3378MH0002240021200536C00	S36	target Aji - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3378MH0002240021200537C00	S37	target Aji - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3378MH0002240021200538C00	S38	target Aji - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3378MH0002240021200539C00	S39	target Aji - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3378MH0002240021200540C00	S40	target Aji - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3378MH0002240021200541C00	S41	target Aji - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3378MH0002240021200542C00	S42	target Aji - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00299	Erico stereo-1 ~5 cm standoff	3378MH0002990001200543C00	S43	autofocus sub-frame for target Erico - stereo-1 - standoff near 5 cm
		3378MH0002990011200544C00	S44	target Erico - stereo-1 - standoff near 5 cm
		3378MH0002990021200545C00	S45	target Erico - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3378MH0002990021200546C00	S46	target Erico - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3378MH0002990021200547C00	S47	target Erico - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3378MH0002990021200548C00	S48	target Erico - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3378MH0002990021200549C00	S49	target Erico - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3378MH0002990021200550C00	S50	target Erico - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3378MH0002990021200551C00	S51	target Erico - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3378MH0002990021200552C00	S52	target Erico - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00299	Erico stereo-2 ~5 cm standoff	3378MH0002990001200553C00	S53	autofocus sub-frame for target Erico - stereo-2 - standoff near 5 cm
		3378MH0002990011200554C00	S54	target Erico - stereo-2 - standoff near 5 cm
		3378MH0002990021200555C00	S55	target Erico - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3378MH0002990021200556C00	S56	target Erico - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3378MH0002990021200557C00	S57	target Erico - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3378MH0002990021200558C00	S58	target Erico - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3378MH0002990021200559C00	S59	target Erico - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3378MH0002990021200560C00	S60	target Erico - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3378MH0002990021200561C00	S61	target Erico - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3378MH0002990021200562C00	S62	target Erico - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00153	Focus Merges	3378MH0001530001200563R00	S63	target Erico - stereo-2 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 555-562 - best focus image product
		3378MH0001530001200564S00	S64	target Erico - stereo-2 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 555-562 - range map product
		3378MH0001530001200565R00	S65	target Erico - stereo-1 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 545-552 - best focus image product
		3378MH0001530001200566S00	S66	target Erico - stereo-1 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 545-552 - range map product
		3378MH0001530001200567R00	S67	target Aji - stereo-2 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 535-542 - best focus image product
		3378MH0001530001200568S00	S68	target Aji - stereo-2 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 535-542 - range map product
		3378MH0001530001200569R00	S69	target Aji - stereo-1 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 525-532 - best focus image product
		3378MH0001530001200570S00	S70	target Aji - stereo-1 - standoff near 5 cm - focus stack acquired sol 3378 with MSL CAMERA_PRODUCT_IDs 525-532 - range map product

updated: 12_April_2022

Sol 3381 - MAHLI Images

acquired/performed date(s):	9-Feb-22
camera positions:	4
total parent images:	32
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	38

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target El_Dorado and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	El_Dorado ~25 cm standoff	3381MH0001900001200571C00	571	autofocus sub-frame for target El_Dorado - standoff near 25 cm
		3381MH0001900011200572C00	572	target El_Dorado - standoff near 25 cm
mhli00182	El_Dorado stereo-1 ~45 mm standoff	3381MH0001820001200573C00	573	autofocus sub-frame for target El_Dorado - stereo-1 - standoff near 45 mm
		3381MH0001820011200574C00	574	target El_Dorado - stereo-1 - standoff near 45 mm
		3381MH0001820021200575C00	575	target El_Dorado - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3381MH0001820021200576C00	576	target El_Dorado - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3381MH0001820021200577C00	577	target El_Dorado - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3381MH0001820021200578C00	578	target El_Dorado - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3381MH0001820021200579C00	579	target El_Dorado - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3381MH0001820021200580C00	580	target El_Dorado - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3381MH0001820021200581C00	581	target El_Dorado - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3381MH0001820021200582C00	582	target El_Dorado - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00182	El_Dorado stereo-2 ~45 mm standoff	3381MH0001820001200583C00	583	autofocus sub-frame for target El_Dorado - stereo-2 - standoff near 45 mm
		3381MH0001820011200584C00	584	target El_Dorado - stereo-2 - standoff near 45 mm
		3381MH0001820021200585C00	585	target El_Dorado - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3381MH0001820021200586C00	586	target El_Dorado - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3381MH0001820021200587C00	587	target El_Dorado - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3381MH0001820021200588C00	588	target El_Dorado - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3381MH0001820021200589C00	589	target El_Dorado - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3381MH0001820021200590C00	590	target El_Dorado - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3381MH0001820021200591C00	591	target El_Dorado - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3381MH0001820021200592C00	592	target El_Dorado - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00426	El_Dorado ~6 mm standoff	3381MH0004260001200593C00	593	autofocus sub-frame for target El_Dorado - standoff near 6 mm
		3381MH0004260011200594C00	594	target El_Dorado - standoff near 6 mm
		3381MH0004260021200595C00	595	target El_Dorado - standoff near 6 mm - image 1 in 8-image relative focus stack
		3381MH0004260021200596C00	596	target El_Dorado - standoff near 6 mm - image 2 in 8-image relative focus stack
		3381MH0004260021200597C00	597	target El_Dorado - standoff near 6 mm - image 3 in 8-image relative focus stack
		3381MH0004260021200598C00	598	target El_Dorado - standoff near 6 mm - image 4 in 8-image relative focus stack
		3381MH0004260021200599C00	599	target El_Dorado - standoff near 6 mm - image 5 in 8-image relative focus stack
		3381MH0004260021200600C00	600	target El_Dorado - standoff near 6 mm - image 6 in 8-image relative focus stack
		3381MH0004260021200601C00	601	target El_Dorado - standoff near 6 mm - image 7 in 8-image relative focus stack
		3381MH0004260021200602C00	602	target El_Dorado - standoff near 6 mm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3381MH0001930001200603R00	603	target El_Dorado - standoff near 6 mm - focus stack acquired sol 3381 with MSL CAMERA_PRODUCT_IDs 595-602 - best focus image product
		3381MH0001930001200604S00	604	target El_Dorado - standoff near 6 mm - focus stack acquired sol 3381 with MSL CAMERA_PRODUCT_IDs 595-602 - range map product
		3381MH0001930001200605R00	605	target El_Dorado - stereo-2 - standoff near 45 mm - focus stack acquired sol 3381 with MSL CAMERA_PRODUCT_IDs 585-592 - best focus image product
		3381MH0001930001200606S00	606	target El_Dorado - stereo-2 - standoff near 45 mm - focus stack acquired sol 3381 with MSL CAMERA_PRODUCT_IDs 585-592 - range map product
		3381MH0001930001200607R00	607	target El_Dorado - stereo-1 - standoff near 45 mm - focus stack acquired sol 3381 with MSL CAMERA_PRODUCT_IDs 575-582 - best focus image product
		3381MH0001930001200608S00	608	target El_Dorado - stereo-1 - standoff near 45 mm - focus stack acquired sol 3381 with MSL CAMERA_PRODUCT_IDs 575-582 - range map product

updated: 12_April_2022

Sol 3383 - MAHLI Images

acquired/performed date(s):	11-Feb-22
camera positions:	3
total parent images:	22
focus merges performed:	2
total focus merge products:	4
total parent images + focus merge products:	26

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Tantallon_Castle and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Tantallon_Castle ~25 cm standoff	3383MH0001900001200609C00	609	autofocus sub-frame for target Tantallon_Castle - standoff near 25 cm
		3383MH0001900011200610C00	610	target Tantallon_Castle - standoff near 25 cm
mhli00173	Tantallon_Castle stereo-1 ~5 cm standoff	3383MH0001730001200611C00	611	autofocus sub-frame for target Tantallon_Castle - stereo-1 - standoff near 5 cm
		3383MH0001730011200612C00	612	target Tantallon_Castle - stereo-1 - standoff near 5 cm
		3383MH0001730021200613C00	613	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3383MH0001730021200614C00	614	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3383MH0001730021200615C00	615	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3383MH0001730021200616C00	616	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3383MH0001730021200617C00	617	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3383MH0001730021200618C00	618	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3383MH0001730021200619C00	619	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3383MH0001730021200620C00	620	target Tantallon_Castle - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Tantallon_Castle stereo-2 ~5 cm standoff	3383MH0001730001200621C00	621	autofocus sub-frame for target Tantallon_Castle - stereo-2 - standoff near 5 cm
		3383MH0001730011200622C00	622	target Tantallon_Castle - stereo-2 - standoff near 5 cm
		3383MH0001730021200623C00	623	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3383MH0001730021200624C00	624	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3383MH0001730021200625C00	625	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3383MH0001730021200626C00	626	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3383MH0001730021200627C00	627	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3383MH0001730021200628C00	628	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3383MH0001730021200629C00	629	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3383MH0001730021200630C00	630	target Tantallon_Castle - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00265	Focus Merges	3383MH0002650001200631R00	631	target Tantallon_Castle - stereo-2 - standoff near 5 cm - focus stack acquired sol 3383 with MSL CAMERA_PRODUCT_IDs 623-630 - best focus image product
		3383MH0002650001200632S00	632	target Tantallon_Castle - stereo-2 - standoff near 5 cm - focus stack acquired sol 3383 with MSL CAMERA_PRODUCT_IDs 623-630 - range map product
		3383MH0002650001200633R00	633	target Tantallon_Castle - stereo-1 - standoff near 5 cm - focus stack acquired sol 3383 with MSL CAMERA_PRODUCT_IDs 613-620 - best focus image product
		3383MH0002650001200634S00	634	target Tantallon_Castle - stereo-1 - standoff near 5 cm - focus stack acquired sol 3383 with MSL CAMERA_PRODUCT_IDs 613-620 - range map product

updated: 12_April_2022

Sol 3385 - MAHLI Images

acquired/performed date(s):	13-Feb-22
camera positions:	5
total parent images:	47
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	47

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Kintradwell.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Kintradwell after DRT ~25 cm standoff	3385MH0007060001200635C00	635	autofocus sub-frame for target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 25 cm
		3385MH0007060011200636C00	636	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 25 cm
		3385MH0007060021200637C00	637	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 25 cm – alternative auto-exposure
mhli00763	Kintradwell after DRT APXS spot 2 stereo-1 ~5 cm standoff	3385MH0007630001200638C00	638	autofocus sub-frame for target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm
		3385MH0007630011200639C00	639	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm
		3385MH0007630021200640C00	640	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – alternative auto-exposure
		3385MH0007630031200641C00	641	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3385MH0007630031200642C00	642	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3385MH0007630031200643C00	643	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3385MH0007630031200644C00	644	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3385MH0007630031200645C00	645	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3385MH0007630031200646C00	646	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3385MH0007630031200647C00	647	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3385MH0007630031200648C00	648	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00763	Kintradwell after DRT APXS spot 2 stereo-2 ~5 cm standoff	3385MH0007630001200649C00	649	autofocus sub-frame for target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm
		3385MH0007630011200650C00	650	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm
		3385MH0007630021200651C00	651	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – alternative auto-exposure
		3385MH0007630031200652C00	652	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3385MH0007630031200653C00	653	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3385MH0007630031200654C00	654	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3385MH0007630031200655C00	655	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3385MH0007630031200656C00	656	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3385MH0007630031200657C00	657	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3385MH0007630031200658C00	658	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3385MH0007630031200659C00	659	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00785	Kintradwell after DRT APXS spot 2 ~1 cm standoff	3385MH0007850001200660C00	660	autofocus sub-frame for target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm
		3385MH0007850011200661C00	661	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm
		3385MH0007850021200662C00	662	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – alternative auto-exposure
		3385MH0007850031200663C00	663	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 1 in 8-image relative focus stack
		3385MH0007850031200664C00	664	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 2 in 8-image relative focus stack
		3385MH0007850031200665C00	665	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 3 in 8-image relative focus stack
		3385MH0007850031200666C00	666	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 4 in 8-image relative focus stack
		3385MH0007850031200667C00	667	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 5 in 8-image relative focus stack
		3385MH0007850031200668C00	668	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 6 in 8-image relative focus stack
		3385MH0007850031200669C00	669	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 7 in 8-image relative focus stack
		3385MH0007850031200670C00	670	target Kintradwell – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 8 in 8-image relative focus stack
mhli00763	Kintradwell after DRT APXS spot 1 ~5 cm standoff	3385MH0007630001200671C00	671	autofocus sub-frame for target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm
		3385MH0007630011200672C00	672	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm
		3385MH0007630021200673C00	673	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – alternative auto-exposure
		3385MH0007630031200674C00	674	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3385MH0007630031200675C00	675	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3385MH0007630031200676C00	676	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3385MH0007630031200677C00	677	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3385MH0007630031200678C00	678	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3385MH0007630031200679C00	679	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3385MH0007630031200680C00	680	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3385MH0007630031200681C00	681	target Kintradwell – after dust removal tool (DRT) – APXS spot 1 – standoff near 5 cm – image 8 in 8-image relative focus stack

updated: 14_February_2022

Sol 3386 - MAHLI Images

acquired/performed date(s):	14-Feb-22
camera positions:	0
total parent images:	0
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	8

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3385 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00153	Focus Merges	3386MH0001530001200682R00	682	target Kintradwell - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 674-681 - best focus image product
		3386MH0001530001200683S00	683	target Kintradwell - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 674-681 - range map product
		3386MH0001530001200684R00	684	target Kintradwell - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 663-670 - best focus image product
		3386MH0001530001200685S00	685	target Kintradwell - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 663-670 - range map product
		3386MH0001530001200686R00	686	target Kintradwell - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 652-659 - best focus image product
		3386MH0001530001200687S00	687	target Kintradwell - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 652-659 - range map product
		3386MH0001530001200688R00	688	target Kintradwell - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 641-648 - best focus image product
		3386MH0001530001200689S00	689	target Kintradwell - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3385 with MSL CAMERA_PRODUCT_IDs 641-648 - range map product

updated: 12_April_2022

Sol 3387 - MAHLI Images

acquired/performed date(s):	15-Feb-22
camera positions:	6
total parent images:	40
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	46

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Loch_Garten and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Loch_Garten before DRT ~25 cm standoff	3387MH0001900001200690C00	690	autofocus sub-frame for target Loch_Garten – before dust removal tool (DRT) – standoff near 25 cm
		3387MH0001900011200691C00	691	target Loch_Garten – before dust removal tool (DRT) – standoff near 25 cm
mhli00122	Loch_Garten before DRT ~5 cm standoff	3387MH0001220001200692C00	692	autofocus sub-frame for target Loch_Garten – before dust removal tool (DRT) – standoff near 5 cm
		3387MH0001220011200693C00	693	target Loch_Garten – before dust removal tool (DRT) – standoff near 5 cm
mhli00706	Loch_Garten after DRT ~25 cm standoff	3387MH0000706001200694C00	694	autofocus sub-frame for target Loch_Garten – after dust removal tool (DRT) – standoff near 25 cm
		3387MH0000706001200695C00	695	target Loch_Garten – after dust removal tool (DRT) – standoff near 25 cm
		3387MH0000706002200696C00	696	target Loch_Garten – after dust removal tool (DRT) – standoff near 25 cm – alternative auto-exposure
mhli00763	Loch_Garten after DRT stereo-1 ~5 cm standoff	3387MH0000763000200697C00	697	autofocus sub-frame for target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm
		3387MH0000763001200698C00	698	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm
		3387MH0000763002200699C00	699	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – alternative auto-exposure
		3387MH0000763003200700C00	700	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3387MH0000763003200701C00	701	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3387MH0000763003200702C00	702	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3387MH0000763003200703C00	703	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3387MH0000763003200704C00	704	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3387MH0000763003200705C00	705	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3387MH0000763003200706C00	706	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3387MH0000763003200707C00	707	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00763	Loch_Garten after DRT stereo-2 ~5 cm standoff	3387MH0000763000200708C00	708	autofocus sub-frame for target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm
		3387MH0000763001200709C00	709	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm
		3387MH0000763002200710C00	710	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – alternative auto-exposure
		3387MH0000763003200711C00	711	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3387MH0000763003200712C00	712	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3387MH0000763003200713C00	713	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3387MH0000763003200714C00	714	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3387MH0000763003200715C00	715	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3387MH0000763003200716C00	716	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3387MH0000763003200717C00	717	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3387MH0000763003200718C00	718	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00603	Loch_Garten after DRT ~1 cm standoff	3387MH0000603000200719C00	719	autofocus sub-frame for target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm
		3387MH0000603001200720C00	720	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm
		3387MH0000603002200721C00	721	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – alternative auto-exposure
		3387MH0000603003200722C00	722	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 1 in 8-image relative focus stack
		3387MH0000603003200723C00	723	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 2 in 8-image relative focus stack
		3387MH0000603003200724C00	724	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 3 in 8-image relative focus stack
		3387MH0000603003200725C00	725	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 4 in 8-image relative focus stack
		3387MH0000603003200726C00	726	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 5 in 8-image relative focus stack
		3387MH0000603003200727C00	727	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 6 in 8-image relative focus stack
		3387MH0000603003200728C00	728	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 7 in 8-image relative focus stack
		3387MH0000603003200729C00	729	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3387MH0001930001200730R00	730	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – focus stack acquired sol 3387 with MSL CAMERA_PRODUCT_IDs 722-729 – best focus image product
		3387MH0001930001200731S00	731	target Loch_Garten – after dust removal tool (DRT) – standoff near 1 cm – focus stack acquired sol 3387 with MSL CAMERA_PRODUCT_IDs 722-729 – range map product
		3387MH0001930001200732R00	732	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – focus stack acquired sol 3387 with MSL CAMERA_PRODUCT_IDs 711-718 – best focus image product
		3387MH0001930001200733S00	733	target Loch_Garten – after dust removal tool (DRT) – stereo-2 – standoff near 5 cm – focus stack acquired sol 3387 with MSL CAMERA_PRODUCT_IDs 711-718 – range map product
		3387MH0001930001200734R00	734	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – focus stack acquired sol 3387 with MSL CAMERA_PRODUCT_IDs 700-707 – best focus image product
		3387MH0001930001200735S00	735	target Loch_Garten – after dust removal tool (DRT) – stereo-1 – standoff near 5 cm – focus stack acquired sol 3387 with MSL CAMERA_PRODUCT_IDs 700-707 – range map product

updated: 18_April_2022

Sol 3388 - MAHLI Images

acquired/performed date(s):	16-Feb-22
camera positions:	12
total parent images:	78
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	90

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the MAHLI and APXS calibration targets as well as the target Tappington and the DRT-brushed target Loch_Coruisk. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00371	MAHLI cal target - centered on bar target - ~5 cm working distance	3388MH0003710001200736C00	736	autofocus sub-frame for MAHLI calibration target – bar target – near 5 cm working distance
		3388MH0003710011200737C00	737	MAHLI calibration target – bar target – near 5 cm working distance
mhli00372	MAHLI cal target - centered on cent target - ~ 5 cm working distance	3388MH0003720001200738C00	738	autofocus sub-frame for MAHLI calibration target – cent target – near 5 cm working distance
		3388MH0003720011200739C00	739	MAHLI calibration target – cent target – near 5 cm working distance
mhli00374	MAHLI cal target + wheel + surface ~30 cm working distance from target	3388MH0003740001200740C00	740	autofocus sub-frame for MAHLI calibration target and wheel and Mars surface – calibration target near 30 cm working distance – focus on calibration target
		3388MH0003740011200741C00	741	MAHLI calibration target and Wheel and Mars surface – calibration target near 30 cm working distance – focus on calibration target
		3388MH0003740021200742C00	742	MAHLI calibration target and wheel and Mars surface – calibration target near 30 cm working distance – manual focus at infinity
mhli00373	APXS cal target ~ 5 cm standoff	3388MH0003730001200743C00	743	autofocus sub-frame for APXS calibration target – standoff near 5 cm
		3388MH0003730011200744C00	744	APXS calibration target – standoff near 5 cm
mhli00190	Tappington ~25 cm standoff	3388MH0001900001200745C00	745	autofocus sub-frame for target Tappington – standoff near 25 cm
		3388MH0001900011200746C00	746	target Tappington – standoff near 25 cm
mhli00182	Tappington stereo-1 ~35 mm standoff	3388MH0001820001200747C00	747	autofocus sub-frame for target Tappington – stereo-1 – standoff near 35 mm
		3388MH0001820011200748C00	748	target Tappington – stereo-1 – standoff near 35 mm
		3388MH0001820021200749C00	749	target Tappington – stereo-1 – standoff near 35 mm – image 1 in 8-image relative focus stack
		3388MH0001820021200750C00	750	target Tappington – stereo-1 – standoff near 35 mm – image 2 in 8-image relative focus stack
		3388MH0001820021200751C00	751	target Tappington – stereo-1 – standoff near 35 mm – image 3 in 8-image relative focus stack
		3388MH0001820021200752C00	752	target Tappington – stereo-1 – standoff near 35 mm – image 4 in 8-image relative focus stack
		3388MH0001820021200753C00	753	target Tappington – stereo-1 – standoff near 35 mm – image 5 in 8-image relative focus stack
		3388MH0001820021200754C00	754	target Tappington – stereo-1 – standoff near 35 mm – image 6 in 8-image relative focus stack
		3388MH0001820021200755C00	755	target Tappington – stereo-1 – standoff near 35 mm – image 7 in 8-image relative focus stack
		3388MH0001820021200756C00	756	target Tappington – stereo-1 – standoff near 35 mm – image 8 in 8-image relative focus stack
mhli00182	Tappington stereo-2 ~35 mm standoff	3388MH0001820001200757C00	757	autofocus sub-frame for target Tappington – stereo-2 – standoff near 35 mm
		3388MH0001820011200758C00	758	target Tappington – stereo-2 – standoff near 35 mm
		3388MH0001820021200759C00	759	target Tappington – stereo-2 – standoff near 35 mm – image 1 in 8-image relative focus stack
		3388MH0001820021200760C00	760	target Tappington – stereo-2 – standoff near 35 mm – image 2 in 8-image relative focus stack
		3388MH0001820021200761C00	761	target Tappington – stereo-2 – standoff near 35 mm – image 3 in 8-image relative focus stack
		3388MH0001820021200762C00	762	target Tappington – stereo-2 – standoff near 35 mm – image 4 in 8-image relative focus stack
		3388MH0001820021200763C00	763	target Tappington – stereo-2 – standoff near 35 mm – image 5 in 8-image relative focus stack
		3388MH0001820021200764C00	764	target Tappington – stereo-2 – standoff near 35 mm – image 6 in 8-image relative focus stack
		3388MH0001820021200765C00	765	target Tappington – stereo-2 – standoff near 35 mm – image 7 in 8-image relative focus stack
		3388MH0001820021200766C00	766	target Tappington – stereo-2 – standoff near 35 mm – image 8 in 8-image relative focus stack
mhli00706	Loch_Coruisk after DRT ~25 cm standoff	3388MH0007060001200767C00	767	autofocus sub-frame for target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 25 cm
		3388MH0007060011200768C00	768	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 25 cm
		3388MH0007060021200769C00	769	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 25 cm – alternative auto-exposure
mhli00723	Loch_Coruisk after DRT APXS spot 2 stereo-1 ~5 cm standoff	3388MH0007230001200770C00	770	autofocus sub-frame for target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm
		3388MH0007230011200771C00	771	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm
		3388MH0007230021200772C00	772	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – alternative auto-exposure
		3388MH0007230031200773C00	773	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3388MH0007230031200774C00	774	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3388MH0007230031200775C00	775	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3388MH0007230031200776C00	776	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3388MH0007230031200777C00	777	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3388MH0007230031200778C00	778	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3388MH0007230031200779C00	779	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3388MH0007230031200780C00	780	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-1 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00723	Loch_Coruisk after DRT APXS spot 2 stereo-2 ~5 cm standoff	3388MH0007230001200781C00	781	autofocus sub-frame for target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm
		3388MH0007230011200782C00	782	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm
		3388MH0007230021200783C00	783	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – alternative auto-exposure
		3388MH0007230031200784C00	784	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3388MH0007230031200785C00	785	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3388MH0007230031200786C00	786	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3388MH0007230031200787C00	787	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3388MH0007230031200788C00	788	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3388MH0007230031200789C00	789	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3388MH0007230031200790C00	790	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3388MH0007230031200791C00	791	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – stereo-2 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00658	Loch_Coruisk after DRT APXS spot 2 ~1 cm standoff	3388MH0006580001200792C00	792	autofocus sub-frame for target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm
		3388MH0006580011200793C00	793	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm
		3388MH0006580021200794C00	794	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – alternative auto-exposure
		3388MH0006580031200795C00	795	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 1 in 8-image relative focus stack
		3388MH0006580031200796C00	796	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 2 in 8-image relative focus stack
		3388MH0006580031200797C00	797	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 3 in 8-image relative focus stack
		3388MH0006580031200798C00	798	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 4 in 8-image relative focus stack
		3388MH0006580031200799C00	799	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 5 in 8-image relative focus stack
		3388MH0006580031200800C00	800	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 6 in 8-image relative focus stack
		3388MH0006580031200801C00	801	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 7 in 8-image relative focus stack
		3388MH0006580031200802C00	802	target Loch_Coruisk – after dust removal tool (DRT) – APXS spot 2 – standoff near 1 cm – image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00723	Loch_Coruisk after DRT APXS spot 1 ~5 cm standoff	3388MH0007230001200803C00	803	autofocus sub-frame for target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3388MH0007230011200804C00	804	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3388MH0007230021200805C00	805	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - alternative auto-exposure
		3388MH0007230031200806C00	806	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3388MH0007230031200807C00	807	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3388MH0007230031200808C00	808	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3388MH0007230031200809C00	809	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3388MH0007230031200810C00	810	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3388MH0007230031200811C00	811	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3388MH0007230031200812C00	812	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3388MH0007230031200813C00	813	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00163	Focus Merges	3388MH0001630001200814R00	814	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 806-813 - best focus image product
		3388MH0001630001200815S00	815	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 806-813 - range map product
		3388MH0001630001200816R00	816	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 795-802 - best focus image product
		3388MH0001630001200817S00	817	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 795-802 - range map product
		3388MH0001630001200818R00	818	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 784-791 - best focus image product
		3388MH0001630001200819S00	819	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 784-791 - range map product
		3388MH0001630001200820R00	820	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 773-780 - best focus image product
		3388MH0001630001200821S00	821	target Loch_Coruisk - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 773-780 - range map product
		3388MH0001630001200822R00	822	target Tappington - stereo-2 - standoff near 35 mm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 759-766 - best focus image product
		3388MH0001630001200823S00	823	target Tappington - stereo-2 - standoff near 35 mm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 759-766 - range map product
		3388MH0001630001200824R00	824	target Tappington - stereo-1 - standoff near 35 mm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 749-756 - best focus image product
		3388MH0001630001200825S00	825	target Tappington - stereo-1 - standoff near 35 mm - focus stack acquired sol 3388 with MSL CAMERA_PRODUCT_IDs 749-756 - range map product

updated: 18_February_2022

Sol 3389 - MAHLI Images

acquired/performed date(s):	17-Feb-22
camera positions:	4
total parent images:	5
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	5

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: At night, MAHLI imaged inside the CheMin inlet for cleanliness.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789
mhli00312	MAHLI 12.4 cm working distance above CheMin inlet mesh; inlet cover open; position 1 of 3; imaging at night	3389MH0003120001200826C00	826	CheMin sample inlet – cover open – cleanliness inspection – at night with white light LEDs on – manual focus at funnel throat below mesh at 163 mm working distance
		3389MH0003120011200827C00	827	CheMin sample inlet – cover open – cleanliness inspection – at night with white light LEDs on – manual focus at mesh at 124 mm working distance
mhli00326	position 2 of 3, otherwise same as above	3389MH0003260001200828C00	828	CheMin sample inlet – cover open – cleanliness inspection – at night with white light LEDs on – manual focus at funnel throat below mesh at 163 mm working distance
mhli00326	position 3 of 3, otherwise same as two above	3389MH0003260001200829C00	829	CheMin sample inlet – cover open – cleanliness inspection – at night with white light LEDs on – manual focus at funnel throat below mesh at 163 mm working distance
mhli00228	~17 cm above open CheMin inlet	3389MH0002280001200830C00	830	CheMin sample inlet – cover open – cleanliness inspection – at night with white light LEDs on – manual focus at 17 cm working distance

updated: 18_April_2022

Sol 3392 - MAHLI Images

acquired/performed date(s):	20-Feb-22
camera positions:	10
total parent images:	60
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	60

Image ID: black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID: Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Nithsdale and Foss_Mine.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Nithsdale ~25 cm standoff	3392MH0001900001200831C00	831	autofocus sub-frame for target Nithsdale - standoff near 25 cm
		3392MH0001900011200832C00	832	target Nithsdale - standoff near 25 cm
mhli00173	Nithsdale stereo-1 ~4 cm standoff	3392MH0001730001200833C00	833	autofocus sub-frame for target Nithsdale - stereo-1 - standoff near 4 cm
		3392MH0001730011200834C00	834	target Nithsdale - stereo-1 - standoff near 4 cm
		3392MH0001730021200835C00	835	target Nithsdale - stereo-1 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3392MH0001730021200836C00	836	target Nithsdale - stereo-1 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3392MH0001730021200837C00	837	target Nithsdale - stereo-1 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3392MH0001730021200838C00	838	target Nithsdale - stereo-1 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3392MH0001730021200839C00	839	target Nithsdale - stereo-1 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3392MH0001730021200840C00	840	target Nithsdale - stereo-1 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3392MH0001730021200841C00	841	target Nithsdale - stereo-1 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3392MH0001730021200842C00	842	target Nithsdale - stereo-1 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00173	Nithsdale stereo-2 ~4 cm standoff	3392MH0001730001200843C00	843	autofocus sub-frame for target Nithsdale - stereo-2 - standoff near 4 cm
		3392MH0001730011200844C00	844	target Nithsdale - stereo-2 - standoff near 4 cm
		3392MH0001730021200845C00	845	target Nithsdale - stereo-2 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3392MH0001730021200846C00	846	target Nithsdale - stereo-2 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3392MH0001730021200847C00	847	target Nithsdale - stereo-2 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3392MH0001730021200848C00	848	target Nithsdale - stereo-2 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3392MH0001730021200849C00	849	target Nithsdale - stereo-2 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3392MH0001730021200850C00	850	target Nithsdale - stereo-2 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3392MH0001730021200851C00	851	target Nithsdale - stereo-2 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3392MH0001730021200852C00	852	target Nithsdale - stereo-2 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00190	Foss_Mine ~25 cm standoff	3392MH0001900001200853C00	853	autofocus sub-frame for target Foss_Mine - standoff near 25 cm
		3392MH0001900011200854C00	854	target Foss_Mine - standoff near 25 cm
mhli00182	Foss_Mine stereo-1 relief model position 1 ~5 cm standoff	3392MH0001820001200855C00	855	autofocus sub-frame for target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm
		3392MH0001820011200856C00	856	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm
		3392MH0001820021200857C00	857	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3392MH0001820021200858C00	858	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3392MH0001820021200859C00	859	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3392MH0001820021200860C00	860	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3392MH0001820021200861C00	861	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3392MH0001820021200862C00	862	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3392MH0001820021200863C00	863	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3392MH0001820021200864C00	864	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00182	Foss_Mine stereo-2 relief model position 2 ~5 cm standoff	3392MH0001820001200865C00	865	autofocus sub-frame for target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm
		3392MH0001820011200866C00	866	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm
		3392MH0001820021200867C00	867	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3392MH0001820021200868C00	868	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3392MH0001820021200869C00	869	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3392MH0001820021200870C00	870	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3392MH0001820021200871C00	871	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3392MH0001820021200872C00	872	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3392MH0001820021200873C00	873	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3392MH0001820021200874C00	874	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00705	Foss_Mine relief model position 3 ~5 cm standoff	3392MH0007050001200875C00	875	autofocus sub-frame for target Foss_Mine - relief model position 3 - standoff near 5 cm
		3392MH0007050011200876C00	876	target Foss_Mine - relief model position 3 - standoff near 5 cm
mhli00705	Foss_Mine relief model position 4 ~5 cm standoff	3392MH0007050001200877C00	877	autofocus sub-frame for target Foss_Mine - relief model position 4 - standoff near 5 cm
		3392MH0007050011200878C00	878	target Foss_Mine - relief model position 4 - standoff near 5 cm
mhli00705	Foss_Mine relief model position 5 ~5 cm standoff	3392MH0007050001200879C00	879	autofocus sub-frame for target Foss_Mine - relief model position 5 - standoff near 5 cm
		3392MH0007050011200880C00	880	target Foss_Mine - relief model position 5 - standoff near 5 cm
mhli00743	Foss_Mine ~1 cm standoff	3392MH0007430001200881C00	881	autofocus sub-frame for target Foss_Mine - standoff near 1 cm
		3392MH0007430011200882C00	882	target Foss_Mine - standoff near 1 cm
		3392MH0007430021200883C00	883	target Foss_Mine - standoff near 1 cm - image 1 in 8-image relative focus stack
		3392MH0007430021200884C00	884	target Foss_Mine - standoff near 1 cm - image 2 in 8-image relative focus stack
		3392MH0007430021200885C00	885	target Foss_Mine - standoff near 1 cm - image 3 in 8-image relative focus stack
		3392MH0007430021200886C00	886	target Foss_Mine - standoff near 1 cm - image 4 in 8-image relative focus stack
		3392MH0007430021200887C00	887	target Foss_Mine - standoff near 1 cm - image 5 in 8-image relative focus stack
		3392MH0007430021200888C00	888	target Foss_Mine - standoff near 1 cm - image 6 in 8-image relative focus stack
		3392MH0007430021200889C00	889	target Foss_Mine - standoff near 1 cm - image 7 in 8-image relative focus stack
		3392MH0007430021200890C00	890	target Foss_Mine - standoff near 1 cm - image 8 in 8-image relative focus stack

updated: 22_February_2022

Sol 3393 - MAHLI Images

acquired/performed date(s):	21-Feb-22
camera positions:	0
total parent images:	0
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	10

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3392 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00227	Focus Merges	3393MH0002270001200891R00	891	target Foss_Mine - standoff near 1 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 883-890 - best focus image product
		3393MH0002270001200892S00	892	target Foss_Mine - standoff near 1 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 883-890 - range map product
		3393MH0002270001200893R00	893	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 867-874 - best focus image product
		3393MH0002270001200894S00	894	target Foss_Mine - stereo-2 - relief model position 2 - standoff near 5 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 867-874 - range map product
		3393MH0002270001200895R00	895	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 857-864 - best focus image product
		3393MH0002270001200896S00	896	target Foss_Mine - stereo-1 - relief model position 1 - standoff near 5 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 857-864 - range map product
		3393MH0002270001200897R00	897	target Nithsdale - stereo-2 - standoff near 4 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 845-852 - best focus image product
		3393MH0002270001200898S00	898	target Nithsdale - stereo-2 - standoff near 4 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 845-852 - range map product
		3393MH0002270001200899R00	899	target Nithsdale - stereo-1 - standoff near 4 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 835-842 - best focus image product
		3393MH0002270001200900S00	900	target Nithsdale - stereo-1 - standoff near 4 cm - focus stack acquired sol 3392 with MSL CAMERA_PRODUCT_IDs 835-842 - range map product

updated: 18_April_2022

Sol 3395 - MAHLI Images

acquired/performed date(s):	23-Feb-22
camera positions:	5
total parent images:	47
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	55

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Galdenoch and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00706	Galdenoch after DRT ~25 cm standoff	3395MH0007060001200901C00	901	autofocus sub-frame for target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3395MH0007060011200902C00	902	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm
		3395MH0007060021200903C00	903	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 25 cm - alternative auto-exposure
mhli00699	Galdenoch after DRT APXS spot 2 stereo-1 ~5 cm standoff	3395MH0006990001200904C00	904	autofocus sub-frame for target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3395MH0006990011200905C00	905	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm
		3395MH0006990021200906C00	906	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3395MH0006990031200907C00	907	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3395MH0006990031200908C00	908	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3395MH0006990031200909C00	909	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3395MH0006990031200910C00	910	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3395MH0006990031200911C00	911	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3395MH0006990031200912C00	912	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3395MH0006990031200913C00	913	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3395MH0006990031200914C00	914	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00699	Galdenoch after DRT APXS spot 2 stereo-2 ~5 cm standoff	3395MH0006990001200915C00	915	autofocus sub-frame for target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3395MH0006990011200916C00	916	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm
		3395MH0006990021200917C00	917	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3395MH0006990031200918C00	918	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3395MH0006990031200919C00	919	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3395MH0006990031200920C00	920	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3395MH0006990031200921C00	921	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3395MH0006990031200922C00	922	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3395MH0006990031200923C00	923	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3395MH0006990031200924C00	924	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3395MH0006990031200925C00	925	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00699	Galdenoch after DRT APXS spot 1 ~5 cm standoff	3395MH0006990001200926C00	926	autofocus sub-frame for target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3395MH0006990011200927C00	927	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm
		3395MH0006990021200928C00	928	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - alternative auto-exposure
		3395MH0006990031200929C00	929	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3395MH0006990031200930C00	930	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3395MH0006990031200931C00	931	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3395MH0006990031200932C00	932	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3395MH0006990031200933C00	933	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3395MH0006990031200934C00	934	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3395MH0006990031200935C00	935	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3395MH0006990031200936C00	936	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00823	Galdenoch after DRT APXS spot 2 ~1 cm standoff	3395MH0008230001200937C00	937	autofocus sub-frame for target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm
		3395MH0008230011200938C00	938	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm
		3395MH0008230021200939C00	939	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - alternative auto-exposure
		3395MH0008230031200940C00	940	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 1 in 8-image relative focus stack
		3395MH0008230031200941C00	941	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 2 in 8-image relative focus stack
		3395MH0008230031200942C00	942	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 3 in 8-image relative focus stack
		3395MH0008230031200943C00	943	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 4 in 8-image relative focus stack
		3395MH0008230031200944C00	944	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 5 in 8-image relative focus stack
		3395MH0008230031200945C00	945	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 6 in 8-image relative focus stack
		3395MH0008230031200946C00	946	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 7 in 8-image relative focus stack
		3395MH0008230031200947C00	947	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00153	Focus Merges	3395MH0001530001200948R00	948	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 940-947 - best focus image product
		3395MH0001530001200949S00	949	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 940-947 - range map product
		3395MH0001530001200950R00	950	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 929-936 - best focus image product
		3395MH0001530001200951S00	951	target Galdenoch - after dust removal tool (DRT) - APXS spot 1 - standoff near 5 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 929-936 - range map product
		3395MH0001530001200952R00	952	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 918-925 - best focus image product
		3395MH0001530001200953S00	953	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 918-925 - range map product
		3395MH0001530001200954R00	954	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 907-914 - best focus image product
		3395MH0001530001200955S00	955	target Galdenoch - after dust removal tool (DRT) - APXS spot 2 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3395 with MSL CAMERA_PRODUCT_IDs 907-914 - range map product

updated: 25_April_2022

Sol 3396 - MAHLI Images

acquired/performed date(s):	24-Feb-22
camera positions:	10
total parent images:	72
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	72

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: **MAHLI imaged the DRT-brushed target Scousburgh and the target Blackthorn_Salt.**

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Scousburgh before DRT ~25 cm standoff	3396MH0001900001200956C00	956	autofocus sub-frame for target Scousburgh - before dust removal tool (DRT) - standoff near 25 cm
		3396MH0001900011200957C00	957	target Scousburgh - before dust removal tool (DRT) - standoff near 25 cm
mhli00122	Scousburgh before DRT ~5 cm standoff	3396MH0001220001200958C00	958	autofocus sub-frame for target Scousburgh - before dust removal tool (DRT) - standoff near 5 cm
		3396MH0001220011200959C00	959	target Scousburgh - before dust removal tool (DRT) - standoff near 5 cm
mhli00706	Scousburgh after DRT ~25 cm standoff	3396MH0000706001200960C00	960	autofocus sub-frame for target Scousburgh - after dust removal tool (DRT) - standoff near 25 cm
		3396MH0000706011200961C00	961	target Scousburgh - after dust removal tool (DRT) - standoff near 25 cm
		3396MH0000706002120962C00	962	target Scousburgh - after dust removal tool (DRT) - standoff near 25 cm - alternative auto-exposure
mhli00763	Scousburgh after DRT stereo-1 ~5 cm standoff	3396MH0000763000120963C00	963	autofocus sub-frame for target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3396MH0000763001120964C00	964	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3396MH0000763002120965C00	965	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3396MH0000763003120966C00	966	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3396MH0000763003120967C00	967	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3396MH0000763003120968C00	968	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3396MH0000763003120969C00	969	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3396MH0000763003120970C00	970	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3396MH0000763003120971C00	971	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3396MH0000763003120972C00	972	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3396MH0000763003120973C00	973	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00763	Scousburgh after DRT stereo-2 ~5 cm standoff	3396MH0000763000120974C00	974	autofocus sub-frame for target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3396MH0000763001120975C00	975	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3396MH0000763002120976C00	976	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3396MH0000763003120977C00	977	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3396MH0000763003120978C00	978	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3396MH0000763003120979C00	979	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3396MH0000763003120980C00	980	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3396MH0000763003120981C00	981	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3396MH0000763003120982C00	982	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3396MH0000763003120983C00	983	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3396MH0000763003120984C00	984	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00835	Scousburgh after DRT ~1 cm standoff	3396MH0000835000120985C00	985	autofocus sub-frame for target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm
		3396MH0000835001120986C00	986	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm
		3396MH0000835002120987C00	987	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - alternative auto-exposure
		3396MH0000835003120988C00	988	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3396MH0000835003120989C00	989	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3396MH0000835003120990C00	990	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3396MH0000835003120991C00	991	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3396MH0000835003120992C00	992	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3396MH0000835003120993C00	993	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3396MH0000835003120994C00	994	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3396MH0000835003120995C00	995	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00190	Blackthorn_Salt ~25 cm standoff	3396MH0001900001200996C00	996	autofocus sub-frame for target Blackthorn_Salt - standoff near 25 cm
		3396MH0001900011200997C00	997	target Blackthorn_Salt - standoff near 25 cm
mhli00224	Blackthorn_Salt stereo-1 ~5 cm standoff	3396MH0002240001200998C00	998	autofocus sub-frame for target Blackthorn_Salt - stereo-1 - standoff near 5 cm
		3396MH0002240011200999C00	999	target Blackthorn_Salt - stereo-1 - standoff near 5 cm
		3396MH0002240021201000C00	1000	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3396MH0002240021201001C00	1001	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3396MH0002240021201002C00	1002	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3396MH0002240021201003C00	1003	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3396MH0002240021201004C00	1004	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3396MH0002240021201005C00	1005	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3396MH0002240021201006C00	1006	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3396MH0002240021201007C00	1007	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00224	Blackthorn_Salt stereo-2 ~5 cm standoff	3396MH0002240001201008C00	1008	autofocus sub-frame for target Blackthorn_Salt - stereo-2 - standoff near 5 cm
		3396MH0002240011201009C00	1009	target Blackthorn_Salt - stereo-2 - standoff near 5 cm
		3396MH0002240021201010C00	1010	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3396MH0002240021201011C00	1011	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3396MH0002240021201012C00	1012	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3396MH0002240021201013C00	1013	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3396MH0002240021201014C00	1014	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3396MH0002240021201015C00	1015	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3396MH0002240021201016C00	1016	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3396MH0002240021201017C00	1017	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00176	Blackthorn_Salt ~2 cm standoff	3396MH0001760001201018C00	1018	autofocus sub-frame for target Blackthorn_Salt – standoff near 2 cm
		3396MH0001760011201019C00	1019	target Blackthorn_Salt – standoff near 2 cm
		3396MH0001760021201020C00	1020	target Blackthorn_Salt – standoff near 2 cm – image 1 in 8-image relative focus stack
		3396MH0001760021201021C00	1021	target Blackthorn_Salt – standoff near 2 cm – image 2 in 8-image relative focus stack
		3396MH0001760021201022C00	1022	target Blackthorn_Salt – standoff near 2 cm – image 3 in 8-image relative focus stack
		3396MH0001760021201023C00	1023	target Blackthorn_Salt – standoff near 2 cm – image 4 in 8-image relative focus stack
		3396MH0001760021201024C00	1024	target Blackthorn_Salt – standoff near 2 cm – image 5 in 8-image relative focus stack
		3396MH0001760021201025C00	1025	target Blackthorn_Salt – standoff near 2 cm – image 6 in 8-image relative focus stack
		3396MH0001760021201026C00	1026	target Blackthorn_Salt – standoff near 2 cm – image 7 in 8-image relative focus stack
		3396MH0001760021201027C00	1027	target Blackthorn_Salt – standoff near 2 cm – image 8 in 8-image relative focus stack

updated: 28_February_2022

Sol 3397 - MAHLI Images

acquired/performed date(s):	25-Feb-22
camera positions:	0
total parent images:	0
focus merges performed:	6
total focus merge products:	12
total parent images + focus merge products:	12

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3396 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00163	Focus Merges	3397MH0001630001201028R00	1028	target Blackthorn_Salt - standoff near 2 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 1020-1027 - best focus image product
		3397MH0001630001201029S00	1029	target Blackthorn_Salt - standoff near 2 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 1020-1027 - range map product
		3397MH0001630001201030R00	1030	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 1010-1017 - best focus image product
		3397MH0001630001201031S00	1031	target Blackthorn_Salt - stereo-2 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 1010-1017 - range map product
		3397MH0001630001201032R00	1032	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 1000-1007 - best focus image product
		3397MH0001630001201033S00	1033	target Blackthorn_Salt - stereo-1 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 1000-1007 - range map product
		3397MH0001630001201034R00	1034	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 988-995 - best focus image product
		3397MH0001630001201035S00	1035	target Scousburgh - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 988-995 - range map product
		3397MH0001630001201036R00	1036	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 977-984 - best focus image product
		3397MH0001630001201037S00	1037	target Scousburgh - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 977-984 - range map product
		3397MH0001630001201038R00	1038	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 966-973 - best focus image product
		3397MH0001630001201039S00	1039	target Scousburgh - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3396 with MSL CAMERA_PRODUCT_IDs 966-973 - range map product

updated: 20_April_2022

Sol 3398 - MAHLI Images

acquired/performed date(s):	26-Feb-22
camera positions:	7
total parent images:	58
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	58

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Exnaboe and Stinchar_Valley.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00706	Exnaboe ~25 cm standoff	3398MH0007060001201040C00	1040	autofocus sub-frame for target Exnaboe - standoff near 25 cm
		3398MH0007060011201041C00	1041	target Exnaboe - standoff near 25 cm
		3398MH0007060021201042C00	1042	target Exnaboe - standoff near 25 cm - alternative auto-exposure
mhli00740	Exnaboe stereo-1 ~5 cm standoff	3398MH0007400001201043C00	1043	autofocus sub-frame for target Exnaboe - stereo-1 - standoff near 5 cm
		3398MH0007400011201044C00	1044	target Exnaboe - stereo-1 - standoff near 5 cm
		3398MH0007400021201045C00	1045	target Exnaboe - stereo-1 - standoff near 5 cm - alternative auto-exposure
		3398MH0007400031201046C00	1046	target Exnaboe - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3398MH0007400031201047C00	1047	target Exnaboe - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3398MH0007400031201048C00	1048	target Exnaboe - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3398MH0007400031201049C00	1049	target Exnaboe - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3398MH0007400031201050C00	1050	target Exnaboe - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3398MH0007400031201051C00	1051	target Exnaboe - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3398MH0007400031201052C00	1052	target Exnaboe - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3398MH0007400031201053C00	1053	target Exnaboe - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00740	Exnaboe stereo-2 ~5 cm standoff	3398MH0007400001201054C00	1054	autofocus sub-frame for target Exnaboe - stereo-2 - standoff near 5 cm
		3398MH0007400011201055C00	1055	target Exnaboe - stereo-2 - standoff near 5 cm
		3398MH0007400021201056C00	1056	target Exnaboe - stereo-2 - standoff near 5 cm - alternative auto-exposure
		3398MH0007400031201057C00	1057	target Exnaboe - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3398MH0007400031201058C00	1058	target Exnaboe - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3398MH0007400031201059C00	1059	target Exnaboe - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3398MH0007400031201060C00	1060	target Exnaboe - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3398MH0007400031201061C00	1061	target Exnaboe - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3398MH0007400031201062C00	1062	target Exnaboe - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3398MH0007400031201063C00	1063	target Exnaboe - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3398MH0007400031201064C00	1064	target Exnaboe - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00800	Exnaboe ~2 cm standoff	3398MH0008000001201065C00	1065	autofocus sub-frame for target Exnaboe - standoff near 2 cm
		3398MH0008000011201066C00	1066	target Exnaboe - standoff near 2 cm
		3398MH0008000021201067C00	1067	target Exnaboe - standoff near 2 cm - alternative auto-exposure
		3398MH0008000031201068C00	1068	target Exnaboe - standoff near 2 cm - image 1 in 8-image relative focus stack
		3398MH0008000031201069C00	1069	target Exnaboe - standoff near 2 cm - image 2 in 8-image relative focus stack
		3398MH0008000031201070C00	1070	target Exnaboe - standoff near 2 cm - image 3 in 8-image relative focus stack
		3398MH0008000031201071C00	1071	target Exnaboe - standoff near 2 cm - image 4 in 8-image relative focus stack
		3398MH0008000031201072C00	1072	target Exnaboe - standoff near 2 cm - image 5 in 8-image relative focus stack
		3398MH0008000031201073C00	1073	target Exnaboe - standoff near 2 cm - image 6 in 8-image relative focus stack
		3398MH0008000031201074C00	1074	target Exnaboe - standoff near 2 cm - image 7 in 8-image relative focus stack
		3398MH0008000031201075C00	1075	target Exnaboe - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00190	Stinchar_Valley ~25 cm standoff	3398MH0001900001201076C00	1076	autofocus sub-frame for target Stinchar_Valley - standoff near 25 cm
		3398MH0001900011201077C00	1077	target Stinchar_Valley - standoff near 25 cm
mhli00308	Stinchar_Valley stereo-1 ~45 mm standoff	3398MH0003080001201078C00	1078	autofocus sub-frame for target Stinchar_Valley - stereo-1 - standoff near 45 mm
		3398MH0003080011201079C00	1079	target Stinchar_Valley - stereo-1 - standoff near 45 mm
		3398MH0003080021201080C00	1080	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3398MH0003080021201081C00	1081	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3398MH0003080021201082C00	1082	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3398MH0003080021201083C00	1083	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3398MH0003080021201084C00	1084	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3398MH0003080021201085C00	1085	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3398MH0003080021201086C00	1086	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3398MH0003080021201087C00	1087	target Stinchar_Valley - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00308	Stinchar_Valley stereo-2 ~45 mm standoff	3398MH0003080001201088C00	1088	autofocus sub-frame for target Stinchar_Valley - stereo-2 - standoff near 45 mm
		3398MH0003080011201089C00	1089	target Stinchar_Valley - stereo-2 - standoff near 45 mm
		3398MH0003080021201090C00	1090	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3398MH0003080021201091C00	1091	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3398MH0003080021201092C00	1092	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3398MH0003080021201093C00	1093	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3398MH0003080021201094C00	1094	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3398MH0003080021201095C00	1095	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3398MH0003080021201096C00	1096	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3398MH0003080021201097C00	1097	target Stinchar_Valley - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack

updated: 02_March_2022

Sol 3399 - MAHLI Images

acquired/performed date(s):	27-Feb-22
camera positions:	0
total parent images:	0
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	10

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3398 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00227	Focus Merges	3399MH0002270001201098R00	1098	target Stinchar_Valley - stereo-2 - standoff near 45 mm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1090-1097 - best focus image product
		3399MH0002270001201099S00	1099	target Stinchar_Valley - stereo-2 - standoff near 45 mm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1090-1097 - range map product
		3399MH0002270001201100R00	1100	target Stinchar_Valley - stereo-1 - standoff near 45 mm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1080-1087 - best focus image product
		3399MH0002270001201101S00	1101	target Stinchar_Valley - stereo-1 - standoff near 45 mm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1080-1087 - range map product
		3399MH0002270001201102R00	1102	target Exnaboe - standoff near 2 cm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1068-1075 - best focus image product
		3399MH0002270001201103S00	1103	target Exnaboe - standoff near 2 cm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1068-1075 - range map product
		3399MH0002270001201104R00	1104	target Exnaboe - stereo-2 - standoff near 5 cm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1057-1064 - best focus image product
		3399MH0002270001201105S00	1105	target Exnaboe - stereo-2 - standoff near 5 cm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1057-1064 - range map product
		3399MH0002270001201106R00	1106	target Exnaboe - stereo-1 - standoff near 5 cm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1046-1053 - best focus image product
		3399MH0002270001201107S00	1107	target Exnaboe - stereo-1 - standoff near 5 cm - focus stack acquired sol 3398 with MSL CAMERA_PRODUCT_IDs 1046-1053 - range map product

updated: 20_April_2022

Sol 3409 - MAHLI Images

acquired/performed date(s):	10-Mar-22
camera positions:	4
total parent images:	32
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	32

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Skaw_Granite.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Skaw_Granite after DRT ~25 cm standoff	3409MH0001900001201108C00	1108	autofocus sub-frame for target Skaw_Granite - after dust removal tool (DRT) - standoff near 25 cm
		3409MH0001900011201109C00	1109	target Skaw_Granite - after dust removal tool (DRT) - standoff near 25 cm
mhli00299	Skaw_Granite after DRT stereo-1 ~5 cm standoff	3409MH0002990001201110C00	1110	autofocus sub-frame for target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3409MH0002990011201111C00	1111	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3409MH0002990021201112C00	1112	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3409MH0002990021201113C00	1113	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3409MH0002990021201114C00	1114	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3409MH0002990021201115C00	1115	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3409MH0002990021201116C00	1116	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3409MH0002990021201117C00	1117	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3409MH0002990021201118C00	1118	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3409MH0002990021201119C00	1119	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00299	Skaw_Granite after DRT stereo-2 ~5 cm standoff	3409MH0002990001201120C00	1120	autofocus sub-frame for target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3409MH0002990011201121C00	1121	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3409MH0002990021201122C00	1122	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3409MH0002990021201123C00	1123	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3409MH0002990021201124C00	1124	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3409MH0002990021201125C00	1125	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3409MH0002990021201126C00	1126	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3409MH0002990021201127C00	1127	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3409MH0002990021201128C00	1128	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3409MH0002990021201129C00	1129	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00426	Skaw_Granite after DRT ~1 cm standoff	3409MH0004260001201130C00	1130	autofocus sub-frame for target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm
		3409MH0004260011201131C00	1131	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm
		3409MH0004260021201132C00	1132	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3409MH0004260021201133C00	1133	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3409MH0004260021201134C00	1134	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3409MH0004260021201135C00	1135	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3409MH0004260021201136C00	1136	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3409MH0004260021201137C00	1137	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3409MH0004260021201138C00	1138	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3409MH0004260021201139C00	1139	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack

updated: 11_March_2022

Sol 3410 - MAHLI Images

acquired/performed date(s):	10-Mar-22
camera positions:	0
total parent images:	0
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	6

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3409 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00193	Focus Merges	3410MH0001930001201140R00	1140	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3409 with MSL CAMERA_PRODUCT_IDs 1132-1139 - best focus image product
		3410MH0001930001201141S00	1141	target Skaw_Granite - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3409 with MSL CAMERA_PRODUCT_IDs 1132-1139 - range map product
		3410MH0001930001201142R00	1142	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3409 with MSL CAMERA_PRODUCT_IDs 1122-1129 - best focus image product
		3410MH0001930001201143S00	1143	target Skaw_Granite - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3409 with MSL CAMERA_PRODUCT_IDs 1122-1129 - range map product
		3410MH0001930001201144R00	1144	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3409 with MSL CAMERA_PRODUCT_IDs 1112-1119 - best focus image product
		3410MH0001930001201145S00	1145	target Skaw_Granite - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3409 with MSL CAMERA_PRODUCT_IDs 1112-1119 - range map product

updated: 21_April_2022

Sol 3413 - MAHLI Images

acquired/performed date(s):	13-Mar-22
camera positions:	8
total parent images:	55
focus merges performed:	5
total focus merge products:	10
total parent images + focus merge products:	65

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Appleby and Achvarasdal as well as the wheel-surface interface of the rover left front wheel. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Appleby ~25 cm standoff	3413MH0001900001201146C00	1146	autofocus sub-frame for target Appleby - standoff near 25 cm
		3413MH0001900011201147C00	1147	target Appleby - standoff near 25 cm
mhli00173	Appleby stereo-1 ~5 cm standoff	3413MH0001730001201148C00	1148	autofocus sub-frame for target Appleby - stereo-1 - standoff near 5 cm
		3413MH0001730011201149C00	1149	target Appleby - stereo-1 - standoff near 5 cm
		3413MH0001730021201150C00	1150	target Appleby - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3413MH0001730021201151C00	1151	target Appleby - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3413MH0001730021201152C00	1152	target Appleby - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3413MH0001730021201153C00	1153	target Appleby - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3413MH0001730021201154C00	1154	target Appleby - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3413MH0001730021201155C00	1155	target Appleby - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3413MH0001730021201156C00	1156	target Appleby - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3413MH0001730021201157C00	1157	target Appleby - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Appleby stereo-2 ~5 cm standoff	3413MH0001730001201158C00	1158	autofocus sub-frame for target Appleby - stereo-2 - standoff near 5 cm
		3413MH0001730011201159C00	1159	target Appleby - stereo-2 - standoff near 5 cm
		3413MH0001730021201160C00	1160	target Appleby - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3413MH0001730021201161C00	1161	target Appleby - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3413MH0001730021201162C00	1162	target Appleby - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3413MH0001730021201163C00	1163	target Appleby - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3413MH0001730021201164C00	1164	target Appleby - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3413MH0001730021201165C00	1165	target Appleby - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3413MH0001730021201166C00	1166	target Appleby - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3413MH0001730021201167C00	1167	target Appleby - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00337	Appleby ~2 cm standoff	3413MH0003370001201168C00	1168	autofocus sub-frame for target Appleby - standoff near 2 cm
		3413MH0003370011201169C00	1169	target Appleby - standoff near 2 cm
		3413MH0003370021201170C00	1170	target Appleby - standoff near 2 cm - image 1 in 8-image relative focus stack
		3413MH0003370021201171C00	1171	target Appleby - standoff near 2 cm - image 2 in 8-image relative focus stack
		3413MH0003370021201172C00	1172	target Appleby - standoff near 2 cm - image 3 in 8-image relative focus stack
		3413MH0003370021201173C00	1173	target Appleby - standoff near 2 cm - image 4 in 8-image relative focus stack
		3413MH0003370021201174C00	1174	target Appleby - standoff near 2 cm - image 5 in 8-image relative focus stack
		3413MH0003370021201175C00	1175	target Appleby - standoff near 2 cm - image 6 in 8-image relative focus stack
		3413MH0003370021201176C00	1176	target Appleby - standoff near 2 cm - image 7 in 8-image relative focus stack
		3413MH0003370021201177C00	1177	target Appleby - standoff near 2 cm - image 8 in 8-image relative focus stack
mhli00190	Achvarasdal ~23 cm standoff	3413MH0001900001201178C00	1178	autofocus sub-frame for target Achvarasdal - standoff near 23 cm
		3413MH0001900011201179C00	1179	target Achvarasdal - standoff near 23 cm
mhli00224	Achvarasdal stereo-1 ~3 cm standoff	3413MH0002240001201180C00	1180	autofocus sub-frame for target Achvarasdal - stereo-1 - standoff near 3 cm
		3413MH0002240011201181C00	1181	target Achvarasdal - stereo-1 - standoff near 3 cm
		3413MH0002240021201182C00	1182	target Achvarasdal - stereo-1 - standoff near 3 cm - image 1 in 8-image relative focus stack
		3413MH0002240021201183C00	1183	target Achvarasdal - stereo-1 - standoff near 3 cm - image 2 in 8-image relative focus stack
		3413MH0002240021201184C00	1184	target Achvarasdal - stereo-1 - standoff near 3 cm - image 3 in 8-image relative focus stack
		3413MH0002240021201185C00	1185	target Achvarasdal - stereo-1 - standoff near 3 cm - image 4 in 8-image relative focus stack
		3413MH0002240021201186C00	1186	target Achvarasdal - stereo-1 - standoff near 3 cm - image 5 in 8-image relative focus stack
		3413MH0002240021201187C00	1187	target Achvarasdal - stereo-1 - standoff near 3 cm - image 6 in 8-image relative focus stack
		3413MH0002240021201188C00	1188	target Achvarasdal - stereo-1 - standoff near 3 cm - image 7 in 8-image relative focus stack
		3413MH0002240021201189C00	1189	target Achvarasdal - stereo-1 - standoff near 3 cm - image 8 in 8-image relative focus stack
mhli00224	Achvarasdal stereo-2 ~3 cm standoff	3413MH0002240001201190C00	1190	autofocus sub-frame for target Achvarasdal - stereo-2 - standoff near 3 cm
		3413MH0002240011201191C00	1191	target Achvarasdal - stereo-2 - standoff near 3 cm
		3413MH0002240021201192C00	1192	target Achvarasdal - stereo-2 - standoff near 3 cm - image 1 in 8-image relative focus stack
		3413MH0002240021201193C00	1193	target Achvarasdal - stereo-2 - standoff near 3 cm - image 2 in 8-image relative focus stack
		3413MH0002240021201194C00	1194	target Achvarasdal - stereo-2 - standoff near 3 cm - image 3 in 8-image relative focus stack
		3413MH0002240021201195C00	1195	target Achvarasdal - stereo-2 - standoff near 3 cm - image 4 in 8-image relative focus stack
		3413MH0002240021201196C00	1196	target Achvarasdal - stereo-2 - standoff near 3 cm - image 5 in 8-image relative focus stack
		3413MH0002240021201197C00	1197	target Achvarasdal - stereo-2 - standoff near 3 cm - image 6 in 8-image relative focus stack
		3413MH0002240021201198C00	1198	target Achvarasdal - stereo-2 - standoff near 3 cm - image 7 in 8-image relative focus stack
		3413MH0002240021201199C00	1199	target Achvarasdal - stereo-2 - standoff near 3 cm - image 8 in 8-image relative focus stack
mhli00262	Rover Left Front Wheel	3413MH0002620001201200E01	1200	rover left front wheel contact with surface - rover stability assessment - target at about 112 cm - manual focus at motor count 12660
mhli00227	Focus Merges	3413MH0002270001201201R00	1201	target Achvarasdal - stereo-2 - standoff near 3 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1192-1199 - best focus image product
		3413MH0002270001201202S00	1202	target Achvarasdal - stereo-2 - standoff near 3 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1192-1199 - range map product
		3413MH0002270001201203R00	1203	target Achvarasdal - stereo-1 - standoff near 3 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1182-1189 - best focus image product
		3413MH0002270001201204S00	1204	target Achvarasdal - stereo-1 - standoff near 3 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1182-1189 - range map product
		3413MH0002270001201205R00	1205	target Appleby - standoff near 2 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1170-1177 - best focus image product
		3413MH0002270001201206S00	1206	target Appleby - standoff near 2 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1170-1177 - range map product
		3413MH0002270001201207R00	1207	target Appleby - stereo-2 - standoff near 5 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1160-1167 - best focus image product
		3413MH0002270001201208S00	1208	target Appleby - stereo-2 - standoff near 5 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1160-1167 - range map product
		3413MH0002270001201209R00	1209	target Appleby - stereo-1 - standoff near 5 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1150-1157 - best focus image product
		3413MH0002270001201210S00	1210	target Appleby - stereo-1 - standoff near 5 cm - focus stack acquired sol 3413 with MSL CAMERA_PRODUCT_IDs 1150-1157 - range map product

updated: 21_April_2022

Sol 3415 - MAHLI Images

acquired/performed date(s):	15-Mar-22/16-Mar-22
camera positions:	4
total parent images:	32
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	38

Image ID: black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID: Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Oosta and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit) 0123456789 0123456789
mhli00190	Oosta ~25 cm standoff	3415MH0001900001201211C00	1211	autofocus sub-frame for target Oosta - standoff near 25 cm
		3415MH0001900011201212C00	1212	target Oosta - standoff near 25 cm
mhli00173	Oosta stereo-1 ~45 mm standoff	3415MH0001730001201213C00	1213	autofocus sub-frame for target Oosta - stereo-1 - standoff near 45 mm
		3415MH0001730011201214C00	1214	target Oosta - stereo-1 - standoff near 45 mm
		3415MH0001730021201215C00	1215	target Oosta - stereo-1 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3415MH0001730021201216C00	1216	target Oosta - stereo-1 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3415MH0001730021201217C00	1217	target Oosta - stereo-1 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3415MH0001730021201218C00	1218	target Oosta - stereo-1 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3415MH0001730021201219C00	1219	target Oosta - stereo-1 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3415MH0001730021201220C00	1220	target Oosta - stereo-1 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3415MH0001730021201221C00	1221	target Oosta - stereo-1 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3415MH0001730021201222C00	1222	target Oosta - stereo-1 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00173	Oosta stereo-2 ~45 mm standoff	3415MH0001730001201223C00	1223	autofocus sub-frame for target Oosta - stereo-2 - standoff near 45 mm
		3415MH0001730011201224C00	1224	target Oosta - stereo-2 - standoff near 45 mm
		3415MH0001730021201225C00	1225	target Oosta - stereo-2 - standoff near 45 mm - image 1 in 8-image relative focus stack
		3415MH0001730021201226C00	1226	target Oosta - stereo-2 - standoff near 45 mm - image 2 in 8-image relative focus stack
		3415MH0001730021201227C00	1227	target Oosta - stereo-2 - standoff near 45 mm - image 3 in 8-image relative focus stack
		3415MH0001730021201228C00	1228	target Oosta - stereo-2 - standoff near 45 mm - image 4 in 8-image relative focus stack
		3415MH0001730021201229C00	1229	target Oosta - stereo-2 - standoff near 45 mm - image 5 in 8-image relative focus stack
		3415MH0001730021201230C00	1230	target Oosta - stereo-2 - standoff near 45 mm - image 6 in 8-image relative focus stack
		3415MH0001730021201231C00	1231	target Oosta - stereo-2 - standoff near 45 mm - image 7 in 8-image relative focus stack
		3415MH0001730021201232C00	1232	target Oosta - stereo-2 - standoff near 45 mm - image 8 in 8-image relative focus stack
mhli00311	Oosta ~15 mm standoff	3415MH0003110001201233C00	1233	autofocus sub-frame for target Oosta - standoff near 15 mm
		3415MH0003110011201234C00	1234	target Oosta - standoff near 15 mm
		3415MH0003110021201235C00	1235	target Oosta - standoff near 15 mm - image 1 in 8-image relative focus stack
		3415MH0003110021201236C00	1236	target Oosta - standoff near 15 mm - image 2 in 8-image relative focus stack
		3415MH0003110021201237C00	1237	target Oosta - standoff near 15 mm - image 3 in 8-image relative focus stack
		3415MH0003110021201238C00	1238	target Oosta - standoff near 15 mm - image 4 in 8-image relative focus stack
		3415MH0003110021201239C00	1239	target Oosta - standoff near 15 mm - image 5 in 8-image relative focus stack
		3415MH0003110021201240C00	1240	target Oosta - standoff near 15 mm - image 6 in 8-image relative focus stack
		3415MH0003110021201241C00	1241	target Oosta - standoff near 15 mm - image 7 in 8-image relative focus stack
		3415MH0003110021201242C00	1242	target Oosta - standoff near 15 mm - image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3415MH0001930001201243R00	1243	target Oosta - standoff near 15 mm - focus stack acquired sol 3415 with MSL CAMERA_PRODUCT_IDs 1235-1242 - best focus image product
		3415MH0001930001201244S00	1244	target Oosta - standoff near 15 mm - focus stack acquired sol 3415 with MSL CAMERA_PRODUCT_IDs 1235-1242 - range map product
		3415MH0001930001201245R00	1245	target Oosta - stereo-2 - standoff near 45 mm - focus stack acquired sol 3415 with MSL CAMERA_PRODUCT_IDs 1225-1232 - best focus image product
		3415MH0001930001201246S00	1246	target Oosta - stereo-2 - standoff near 45 mm - focus stack acquired sol 3415 with MSL CAMERA_PRODUCT_IDs 1225-1232 - range map product
		3415MH0001930001201247R00	1247	target Oosta - stereo-1 - standoff near 45 mm - focus stack acquired sol 3415 with MSL CAMERA_PRODUCT_IDs 1215-1222 - best focus image product
		3415MH0001930001201248S00	1248	target Oosta - stereo-1 - standoff near 45 mm - focus stack acquired sol 3415 with MSL CAMERA_PRODUCT_IDs 1215-1222 - range map product

updated: 21_April_2022

Sol 3417 - MAHLI Images

acquired/performed date(s):	18-Mar-22
camera positions:	4
total parent images:	32
focus merges performed:	3
total focus merge products:	6
total parent images + focus merge products:	38

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Knott and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Knott ~25 cm standoff	3417MH0001900001201249C00	1249	autofocus sub-frame for target Knott – standoff near 25 cm
		3417MH0001900011201250C00	1250	target Knott – standoff near 25 cm
mhli00297	Knott stereo-1 ~45 mm standoff	3417MH0002970001201251C00	1251	autofocus sub-frame for target Knott – stereo-1 – standoff near 45 mm
		3417MH0002970011201252C00	1252	target Knott – stereo-1 – standoff near 45 mm
		3417MH0002970021201253C00	1253	target Knott – stereo-1 – standoff near 45 mm – image 1 in 8-image relative focus stack
		3417MH0002970021201254C00	1254	target Knott – stereo-1 – standoff near 45 mm – image 2 in 8-image relative focus stack
		3417MH0002970021201255C00	1255	target Knott – stereo-1 – standoff near 45 mm – image 3 in 8-image relative focus stack
		3417MH0002970021201256C00	1256	target Knott – stereo-1 – standoff near 45 mm – image 4 in 8-image relative focus stack
		3417MH0002970021201257C00	1257	target Knott – stereo-1 – standoff near 45 mm – image 5 in 8-image relative focus stack
		3417MH0002970021201258C00	1258	target Knott – stereo-1 – standoff near 45 mm – image 6 in 8-image relative focus stack
		3417MH0002970021201259C00	1259	target Knott – stereo-1 – standoff near 45 mm – image 7 in 8-image relative focus stack
		3417MH0002970021201260C00	1260	target Knott – stereo-1 – standoff near 45 mm – image 8 in 8-image relative focus stack
mhli00297	Knott stereo-2 ~45 mm standoff	3417MH0002970001201261C00	1261	autofocus sub-frame for target Knott – stereo-2 – standoff near 45 mm
		3417MH0002970011201262C00	1262	target Knott – stereo-2 – standoff near 45 mm
		3417MH0002970021201263C00	1263	target Knott – stereo-2 – standoff near 45 mm – image 1 in 8-image relative focus stack
		3417MH0002970021201264C00	1264	target Knott – stereo-2 – standoff near 45 mm – image 2 in 8-image relative focus stack
		3417MH0002970021201265C00	1265	target Knott – stereo-2 – standoff near 45 mm – image 3 in 8-image relative focus stack
		3417MH0002970021201266C00	1266	target Knott – stereo-2 – standoff near 45 mm – image 4 in 8-image relative focus stack
		3417MH0002970021201267C00	1267	target Knott – stereo-2 – standoff near 45 mm – image 5 in 8-image relative focus stack
		3417MH0002970021201268C00	1268	target Knott – stereo-2 – standoff near 45 mm – image 6 in 8-image relative focus stack
		3417MH0002970021201269C00	1269	target Knott – stereo-2 – standoff near 45 mm – image 7 in 8-image relative focus stack
		3417MH0002970021201270C00	1270	target Knott – stereo-2 – standoff near 45 mm – image 8 in 8-image relative focus stack
mhli00419	Knott ~6 mm standoff	3417MH0004190001201271C00	1271	autofocus sub-frame for target Knott – standoff near 6 mm
		3417MH0004190011201272C00	1272	target Knott – standoff near 6 mm
		3417MH0004190021201273C00	1273	target Knott – standoff near 6 mm – image 1 in 8-image relative focus stack
		3417MH0004190021201274C00	1274	target Knott – standoff near 6 mm – image 2 in 8-image relative focus stack
		3417MH0004190021201275C00	1275	target Knott – standoff near 6 mm – image 3 in 8-image relative focus stack
		3417MH0004190021201276C00	1276	target Knott – standoff near 6 mm – image 4 in 8-image relative focus stack
		3417MH0004190021201277C00	1277	target Knott – standoff near 6 mm – image 5 in 8-image relative focus stack
		3417MH0004190021201278C00	1278	target Knott – standoff near 6 mm – image 6 in 8-image relative focus stack
		3417MH0004190021201279C00	1279	target Knott – standoff near 6 mm – image 7 in 8-image relative focus stack
		3417MH0004190021201280C00	1280	target Knott – standoff near 6 mm – image 8 in 8-image relative focus stack
mhli00193	Focus Merges	3417MH0001930001201281R00	1281	target Knott – standoff near 6 mm – focus stack acquired sol 3417 with MSL CAMERA_PRODUCT_IDs 1273-1280 – best focus image product
		3417MH0001930001201282S00	1282	target Knott – standoff near 6 mm – focus stack acquired sol 3417 with MSL CAMERA_PRODUCT_IDs 1273-1280 – range map product
		3417MH0001930001201283R00	1283	target Knott – stereo-2 – standoff near 45 mm – focus stack acquired sol 3417 with MSL CAMERA_PRODUCT_IDs 1263-1270 – best focus image product
		3417MH0001930001201284S00	1284	target Knott – stereo-2 – standoff near 45 mm – focus stack acquired sol 3417 with MSL CAMERA_PRODUCT_IDs 1263-1270 – range map product
		3417MH0001930001201285R00	1285	target Knott – stereo-1 – standoff near 45 mm – focus stack acquired sol 3417 with MSL CAMERA_PRODUCT_IDs 1253-1260 – best focus image product
		3417MH0001930001201286S00	1286	target Knott – stereo-1 – standoff near 45 mm – focus stack acquired sol 3417 with MSL CAMERA_PRODUCT_IDs 1253-1260 – range map product

updated: 27_April_2022

Sol 3419 - MAHLI Images

acquired/performed date(s):	20-Mar-22
camera positions:	12
total parent images:	112
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	112

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Blackadder, which includes a 9x1 mosaic from approximately 5 cm standoff.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00148	Blackadder ~10 cm standoff	3419MH0001480001201287C00	1287	autofocus sub-frame for target Blackadder - APXS spot 2 - standoff near 10 cm
		3419MH0001480011201288C00	1288	target Blackadder - APXS spot 2 - standoff near 10 cm
mhli00173	Blackadder APXS spot 2 mosaic position 1 of 9 stereo-1 ~5 cm standoff	3419MH0001730001201289C00	1289	autofocus sub-frame for target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm
		3419MH0001730011201290C00	1290	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm
		3419MH0001730021201291C00	1291	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3419MH0001730021201292C00	1292	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3419MH0001730021201293C00	1293	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3419MH0001730021201294C00	1294	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3419MH0001730021201295C00	1295	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3419MH0001730021201296C00	1296	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3419MH0001730021201297C00	1297	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3419MH0001730021201298C00	1298	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Blackadder APXS spot 2 mosaic position 1 of 9 stereo-2 ~5 cm standoff	3419MH0001730001201299C00	1299	autofocus sub-frame for target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm
		3419MH0001730011201300C00	1300	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm
		3419MH0001730021201301C00	1301	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3419MH0001730021201302C00	1302	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3419MH0001730021201303C00	1303	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3419MH0001730021201304C00	1304	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3419MH0001730021201305C00	1305	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3419MH0001730021201306C00	1306	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3419MH0001730021201307C00	1307	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3419MH0001730021201308C00	1308	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00743	Blackadder APXS spot 2 ~1 cm standoff	3419MH0007430001201309C00	1309	autofocus sub-frame for target Blackadder - APXS spot 2 - standoff near 1 cm
		3419MH0007430011201310C00	1310	target Blackadder - APXS spot 2 - standoff near 1 cm
		3419MH0007430021201311C00	1311	target Blackadder - APXS spot 2 - standoff near 1 cm - image 1 in 8-image relative focus stack
		3419MH0007430021201312C00	1312	target Blackadder - APXS spot 2 - standoff near 1 cm - image 2 in 8-image relative focus stack
		3419MH0007430021201313C00	1313	target Blackadder - APXS spot 2 - standoff near 1 cm - image 3 in 8-image relative focus stack
		3419MH0007430021201314C00	1314	target Blackadder - APXS spot 2 - standoff near 1 cm - image 4 in 8-image relative focus stack
		3419MH0007430021201315C00	1315	target Blackadder - APXS spot 2 - standoff near 1 cm - image 5 in 8-image relative focus stack
		3419MH0007430021201316C00	1316	target Blackadder - APXS spot 2 - standoff near 1 cm - image 6 in 8-image relative focus stack
		3419MH0007430021201317C00	1317	target Blackadder - APXS spot 2 - standoff near 1 cm - image 7 in 8-image relative focus stack
		3419MH0007430021201318C00	1318	target Blackadder - APXS spot 2 - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00173	Blackadder APXS spot 1 mosaic position 2 of 9 ~5 cm standoff	3419MH0001730001201319C00	1319	autofocus sub-frame for target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm
		3419MH0001730011201320C00	1320	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm
		3419MH0001730021201321C00	1321	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3419MH0001730021201322C00	1322	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3419MH0001730021201323C00	1323	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3419MH0001730021201324C00	1324	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3419MH0001730021201325C00	1325	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3419MH0001730021201326C00	1326	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3419MH0001730021201327C00	1327	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3419MH0001730021201328C00	1328	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00173	Blackadder mosaic position 9 of 9 ~4 cm standoff	3419MH0001730001201329C00	1329	autofocus sub-frame for target Blackadder - mosaic position 9 of 9 - standoff near 4 cm
		3419MH0001730011201330C00	1330	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm
		3419MH0001730021201331C00	1331	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3419MH0001730021201332C00	1332	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3419MH0001730021201333C00	1333	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3419MH0001730021201334C00	1334	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3419MH0001730021201335C00	1335	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3419MH0001730021201336C00	1336	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3419MH0001730021201337C00	1337	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3419MH0001730021201338C00	1338	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - image 8 in 8-image relative focus stack
mhli00173	Blackadder mosaic position 8 of 9 ~4 cm standoff	3419MH0001730001201339C00	1339	autofocus sub-frame for target Blackadder - mosaic position 8 of 9 - standoff near 4 cm
		3419MH0001730011201340C00	1340	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm
		3419MH0001730021201341C00	1341	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 1 in 8-image relative focus stack
		3419MH0001730021201342C00	1342	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 2 in 8-image relative focus stack
		3419MH0001730021201343C00	1343	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 3 in 8-image relative focus stack
		3419MH0001730021201344C00	1344	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 4 in 8-image relative focus stack
		3419MH0001730021201345C00	1345	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 5 in 8-image relative focus stack
		3419MH0001730021201346C00	1346	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 6 in 8-image relative focus stack
		3419MH0001730021201347C00	1347	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 7 in 8-image relative focus stack
		3419MH0001730021201348C00	1348	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - image 8 in 8-image relative focus stack

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mhli00173	Blackadder mosaic position 7 of 9 ~5 cm standoff	3419MH0001730001201349C00	1349	autofocus sub-frame for target Blackadder – mosaic position 7 of 9 – standoff near 5 cm
		3419MH0001730011201350C00	1350	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm
		3419MH0001730021201351C00	1351	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3419MH0001730021201352C00	1352	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3419MH0001730021201353C00	1353	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3419MH0001730021201354C00	1354	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3419MH0001730021201355C00	1355	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3419MH0001730021201356C00	1356	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3419MH0001730021201357C00	1357	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3419MH0001730021201358C00	1358	target Blackadder – mosaic position 7 of 9 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00173	Blackadder mosaic position 6 of 9 ~45 mm standoff	3419MH0001730001201359C00	1359	autofocus sub-frame for target Blackadder – mosaic position 6 of 9 – standoff near 45 mm
		3419MH0001730011201360C00	1360	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm
		3419MH0001730021201361C00	1361	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 1 in 8-image relative focus stack
		3419MH0001730021201362C00	1362	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 2 in 8-image relative focus stack
		3419MH0001730021201363C00	1363	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 3 in 8-image relative focus stack
		3419MH0001730021201364C00	1364	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 4 in 8-image relative focus stack
		3419MH0001730021201365C00	1365	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 5 in 8-image relative focus stack
		3419MH0001730021201366C00	1366	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 6 in 8-image relative focus stack
		3419MH0001730021201367C00	1367	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 7 in 8-image relative focus stack
		3419MH0001730021201368C00	1368	target Blackadder – mosaic position 6 of 9 – standoff near 45 mm – image 8 in 8-image relative focus stack
mhli00173	Blackadder mosaic position 5 of 9 ~45 mm standoff	3419MH0001730001201369C00	1369	autofocus sub-frame for target Blackadder – mosaic position 5 of 9 – standoff near 45 mm
		3419MH0001730011201370C00	1370	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm
		3419MH0001730021201371C00	1371	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 1 in 8-image relative focus stack
		3419MH0001730021201372C00	1372	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 2 in 8-image relative focus stack
		3419MH0001730021201373C00	1373	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 3 in 8-image relative focus stack
		3419MH0001730021201374C00	1374	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 4 in 8-image relative focus stack
		3419MH0001730021201375C00	1375	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 5 in 8-image relative focus stack
		3419MH0001730021201376C00	1376	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 6 in 8-image relative focus stack
		3419MH0001730021201377C00	1377	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 7 in 8-image relative focus stack
		3419MH0001730021201378C00	1378	target Blackadder – mosaic position 5 of 9 – standoff near 45 mm – image 8 in 8-image relative focus stack
mhli00173	Blackadder mosaic position 4 of 9 ~5 cm standoff	3419MH0001730001201379C00	1379	autofocus sub-frame for target Blackadder – mosaic position 4 of 9 – standoff near 5 cm
		3419MH0001730011201380C00	1380	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm
		3419MH0001730021201381C00	1381	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3419MH0001730021201382C00	1382	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3419MH0001730021201383C00	1383	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3419MH0001730021201384C00	1384	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3419MH0001730021201385C00	1385	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3419MH0001730021201386C00	1386	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3419MH0001730021201387C00	1387	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3419MH0001730021201388C00	1388	target Blackadder – mosaic position 4 of 9 – standoff near 5 cm – image 8 in 8-image relative focus stack
mhli00173	Blackadder mosaic position 3 of 9 ~5 cm standoff	3419MH0001730001201389C00	1389	autofocus sub-frame for target Blackadder – mosaic position 3 of 9 – standoff near 5 cm
		3419MH0001730011201390C00	1390	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm
		3419MH0001730021201391C00	1391	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 1 in 8-image relative focus stack
		3419MH0001730021201392C00	1392	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 2 in 8-image relative focus stack
		3419MH0001730021201393C00	1393	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 3 in 8-image relative focus stack
		3419MH0001730021201394C00	1394	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 4 in 8-image relative focus stack
		3419MH0001730021201395C00	1395	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 5 in 8-image relative focus stack
		3419MH0001730021201396C00	1396	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 6 in 8-image relative focus stack
		3419MH0001730021201397C00	1397	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 7 in 8-image relative focus stack
		3419MH0001730021201398C00	1398	target Blackadder – mosaic position 3 of 9 – standoff near 5 cm – image 8 in 8-image relative focus stack

updated: 21_March_2022

Sol 3420 - MAHLI Images

acquired/performed date(s):	21-Mar-22
camera positions:	0
total parent images:	0
focus merges performed:	11
total focus merge products:	22
total parent images + focus merge products:	22

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: Focus stack images from Sol 3419 were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00449	Focus Merges	3420MH0004490001201399R00	1399	target Blackadder - mosaic position 3 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1391-1398 - best focus image product
		3420MH0004490001201400S00	1400	target Blackadder - mosaic position 3 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1391-1398 - range map product
		3420MH0004490001201401R00	1401	target Blackadder - mosaic position 4 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1381-1388 - best focus image product
		3420MH0004490001201402S00	1402	target Blackadder - mosaic position 4 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1381-1388 - range map product
		3420MH0004490001201403R00	1403	target Blackadder - mosaic position 5 of 9 - standoff near 45 mm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1371-1378 - best focus image product
		3420MH0004490001201404S00	1404	target Blackadder - mosaic position 5 of 9 - standoff near 45 mm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1371-1378 - range map product
		3420MH0004490001201405R00	1405	target Blackadder - mosaic position 6 of 9 - standoff near 45 mm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1361-1368 - best focus image product
		3420MH0004490001201406S00	1406	target Blackadder - mosaic position 6 of 9 - standoff near 45 mm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1361-1368 - range map product
		3420MH0004490001201407R00	1407	target Blackadder - mosaic position 7 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1351-1358 - best focus image product
		3420MH0004490001201408S00	1408	target Blackadder - mosaic position 7 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1351-1358 - range map product
		3420MH0004490001201409R00	1409	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1341-1348 - best focus image product
		3420MH0004490001201410S00	1410	target Blackadder - mosaic position 8 of 9 - standoff near 4 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1341-1348 - range map product
		3420MH0004490001201411R00	1411	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1331-1338 - best focus image product
		3420MH0004490001201412S00	1412	target Blackadder - mosaic position 9 of 9 - standoff near 4 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1331-1338 - range map product
		3420MH0004490001201413R00	1413	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1321-1328 - best focus image product
		3420MH0004490001201414S00	1414	target Blackadder - APXS spot 1 - mosaic position 2 of 9 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1321-1328 - range map product
		3420MH0004490001201415R00	1415	target Blackadder - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1311-1318 - best focus image product
		3420MH0004490001201416S00	1416	target Blackadder - APXS spot 2 - standoff near 1 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1311-1318 - range map product
		3420MH0004490001201417R00	1417	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1301-1308 - best focus image product
		3420MH0004490001201418S00	1418	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1301-1308 - range map product
		3420MH0004490001201419R00	1419	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1291-1298 - best focus image product
		3420MH0004490001201420S00	1420	target Blackadder - APXS spot 2 - mosaic position 1 of 9 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3419 with MSL CAMERA_PRODUCT_IDs 1291-1298 - range map product

updated: 25_April_2022

Sol 3421 - MAHLI Images

acquired/performed date(s):	22-Mar-22
camera positions:	5
total parent images:	42
focus merges performed:	4
total focus merge products:	8
total parent images + focus merge products:	50

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the target Calder and the focus stack images were merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00197	Calder before DRT ~25 cm standoff	3421MH0001970001201421C00	1421	autofocus sub-frame for target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 25 cm
		3421MH0001970011201422C00	1422	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 25 cm
mhli00152	Calder before DRT APXS spot 1 stereo-1 ~5 cm standoff	3421MH0001520001201423C00	1423	autofocus sub-frame for target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm
		3421MH0001520011201424C00	1424	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm
		3421MH0001520021201425C00	1425	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3421MH0001520021201426C00	1426	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3421MH0001520021201427C00	1427	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3421MH0001520021201428C00	1428	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3421MH0001520021201429C00	1429	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3421MH0001520021201430C00	1430	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3421MH0001520021201431C00	1431	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3421MH0001520021201432C00	1432	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00152	Calder before DRT APXS spot 1 stereo-2 ~5 cm standoff	3421MH0001520001201433C00	1433	autofocus sub-frame for target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm
		3421MH0001520011201434C00	1434	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm
		3421MH0001520021201435C00	1435	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3421MH0001520021201436C00	1436	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3421MH0001520021201437C00	1437	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3421MH0001520021201438C00	1438	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3421MH0001520021201439C00	1439	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3421MH0001520021201440C00	1440	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3421MH0001520021201441C00	1441	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3421MH0001520021201442C00	1442	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00796	Calder before DRT APXS spot 1 ~1 cm standoff	3421MH0007960001201443C00	1443	autofocus sub-frame for target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm
		3421MH0007960011201444C00	1444	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm
		3421MH0007960021201445C00	1445	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 1 in 8-image relative focus stack
		3421MH0007960021201446C00	1446	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 2 in 8-image relative focus stack
		3421MH0007960021201447C00	1447	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 3 in 8-image relative focus stack
		3421MH0007960021201448C00	1448	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 4 in 8-image relative focus stack
		3421MH0007960021201449C00	1449	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 5 in 8-image relative focus stack
		3421MH0007960021201450C00	1450	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 6 in 8-image relative focus stack
		3421MH0007960021201451C00	1451	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 7 in 8-image relative focus stack
		3421MH0007960021201452C00	1452	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00152	Calder before DRT APXS spot 2 ~5 cm standoff	3421MH0001520001201453C00	1453	autofocus sub-frame for target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3421MH0001520011201454C00	1454	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm
		3421MH0001520021201455C00	1455	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3421MH0001520021201456C00	1456	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3421MH0001520021201457C00	1457	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3421MH0001520021201458C00	1458	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3421MH0001520021201459C00	1459	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3421MH0001520021201460C00	1460	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3421MH0001520021201461C00	1461	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3421MH0001520021201462C00	1462	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00153	Focus Merges	3421MH0001530001201463R00	1463	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1455-1462 - best focus image product
		3421MH0001530001201464S00	1464	target Calder - before dust removal tool (DRT) - APXS spot 2 - standoff near 5 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1455-1462 - range map product
		3421MH0001530001201465R00	1465	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1445-1452 - best focus image product
		3421MH0001530001201466S00	1466	target Calder - before dust removal tool (DRT) - APXS spot 1 - standoff near 1 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1445-1452 - range map product
		3421MH0001530001201467R00	1467	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1435-1442 - best focus image product
		3421MH0001530001201468S00	1468	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-2 - standoff near 5 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1435-1442 - range map product
		3421MH0001530001201469R00	1469	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1425-1432 - best focus image product
		3421MH0001530001201470S00	1470	target Calder - before dust removal tool (DRT) - APXS spot 1 - stereo-1 - standoff near 5 cm - focus stack acquired sol 3421 with MSL CAMERA_PRODUCT_IDs 1425-1432 - range map product

updated: 25_April_2022

Sol 3422 - MAHLI Images

acquired/performed date(s):	23-Mar-22
camera positions:	12
total parent images:	81
focus merges performed:	7
total focus merge products:	14
total parent images + focus merge products:	95

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the DRT-brushed target Calder and the targets Scandal_Beck, Ashkirk and Breakyneck. The focus stack images were also merged.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Calder after DRT ~25 cm standoff	3422MH0001900001201471C00	1471	autofocus sub-frame for target Calder - after dust removal tool (DRT) - standoff near 25 cm
		3422MH0001900011201472C00	1472	target Calder - after dust removal tool (DRT) - standoff near 25 cm
mhli00152	Calder after DRT stereo-1 ~5 cm standoff	3422MH0001520001201473C00	1473	autofocus sub-frame for target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3422MH0001520011201474C00	1474	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm
		3422MH0001520021201475C00	1475	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3422MH0001520021201476C00	1476	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3422MH0001520021201477C00	1477	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3422MH0001520021201478C00	1478	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3422MH0001520021201479C00	1479	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3422MH0001520021201480C00	1480	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3422MH0001520021201481C00	1481	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3422MH0001520021201482C00	1482	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00152	Calder after DRT stereo-2 ~5 cm standoff	3422MH0001520001201483C00	1483	autofocus sub-frame for target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3422MH0001520011201484C00	1484	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm
		3422MH0001520021201485C00	1485	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3422MH0001520021201486C00	1486	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3422MH0001520021201487C00	1487	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3422MH0001520021201488C00	1488	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3422MH0001520021201489C00	1489	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3422MH0001520021201490C00	1490	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3422MH0001520021201491C00	1491	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3422MH0001520021201492C00	1492	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00796	Calder after DRT ~1 cm standoff	3422MH0007960001201493C00	1493	autofocus sub-frame for target Calder - after dust removal tool (DRT) - standoff near 1 cm
		3422MH0007960011201494C00	1494	target Calder - after dust removal tool (DRT) - standoff near 1 cm
		3422MH0007960021201495C00	1495	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 1 in 8-image relative focus stack
		3422MH0007960021201496C00	1496	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 2 in 8-image relative focus stack
		3422MH0007960021201497C00	1497	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 3 in 8-image relative focus stack
		3422MH0007960021201498C00	1498	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 4 in 8-image relative focus stack
		3422MH0007960021201499C00	1499	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 5 in 8-image relative focus stack
		3422MH0007960021201500C00	1500	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 6 in 8-image relative focus stack
		3422MH0007960021201501C00	1501	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 7 in 8-image relative focus stack
		3422MH0007960021201502C00	1502	target Calder - after dust removal tool (DRT) - standoff near 1 cm - image 8 in 8-image relative focus stack
mhli00190	Scandal_Beck ~25 cm standoff	3422MH0001900001201503C00	1503	autofocus sub-frame for target Scandal_Beck - standoff near 25 cm
		3422MH0001900011201504C00	1504	target Scandal_Beck - standoff near 25 cm
mhli00782	Scandal_Beck ~14 cm standoff	3422MH0007820001201505C00	1505	autofocus sub-frame for target Scandal_Beck - standoff near 14 cm
		3422MH0007820011201506C00	1506	target Scandal_Beck - standoff near 14 cm
		3422MH0007820021201507C00	1507	target Scandal_Beck - standoff near 14 cm - alternative auto-exposure
		3422MH0007820031201508C00	1508	target Scandal_Beck - standoff near 14 cm - image 1 in 8-image relative focus stack
		3422MH0007820031201509C00	1509	target Scandal_Beck - standoff near 14 cm - image 2 in 8-image relative focus stack
		3422MH0007820031201510C00	1510	target Scandal_Beck - standoff near 14 cm - image 3 in 8-image relative focus stack
		3422MH0007820031201511C00	1511	target Scandal_Beck - standoff near 14 cm - image 4 in 8-image relative focus stack
		3422MH0007820031201512C00	1512	target Scandal_Beck - standoff near 14 cm - image 5 in 8-image relative focus stack
		3422MH0007820031201513C00	1513	target Scandal_Beck - standoff near 14 cm - image 6 in 8-image relative focus stack
		3422MH0007820031201514C00	1514	target Scandal_Beck - standoff near 14 cm - image 7 in 8-image relative focus stack
		3422MH0007820031201515C00	1515	target Scandal_Beck - standoff near 14 cm - image 8 in 8-image relative focus stack
mhli00190	Ashkirk ~25 cm standoff	3422MH0001900001201516C00	1516	autofocus sub-frame for target Ashkirk - standoff near 25 cm
		3422MH0001900011201517C00	1517	target Ashkirk - standoff near 25 cm
mhli00224	Ashkirk stereo-1 ~5 cm standoff	3422MH0002240001201518C00	1518	autofocus sub-frame for target Ashkirk - stereo-1 - standoff near 5 cm
		3422MH0002240011201519C00	1519	target Ashkirk - stereo-1 - standoff near 5 cm
		3422MH0002240021201520C00	1520	target Ashkirk - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3422MH0002240021201521C00	1521	target Ashkirk - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3422MH0002240021201522C00	1522	target Ashkirk - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3422MH0002240021201523C00	1523	target Ashkirk - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3422MH0002240021201524C00	1524	target Ashkirk - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3422MH0002240021201525C00	1525	target Ashkirk - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3422MH0002240021201526C00	1526	target Ashkirk - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3422MH0002240021201527C00	1527	target Ashkirk - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00224	Ashkirk stereo-2 ~5 cm standoff	3422MH0002240001201528C00	1528	autofocus sub-frame for target Ashkirk - stereo-2 - standoff near 5 cm
		3422MH0002240011201529C00	1529	target Ashkirk - stereo-2 - standoff near 5 cm
		3422MH0002240021201530C00	1530	target Ashkirk - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3422MH0002240021201531C00	1531	target Ashkirk - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3422MH0002240021201532C00	1532	target Ashkirk - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3422MH0002240021201533C00	1533	target Ashkirk - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3422MH0002240021201534C00	1534	target Ashkirk - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3422MH0002240021201535C00	1535	target Ashkirk - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3422MH0002240021201536C00	1536	target Ashkirk - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3422MH0002240021201537C00	1537	target Ashkirk - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack

Continued on Next Page...

mhli00307	Ashkirk ~25 mm standoff	3422MH0003070001201538C00	1538	autofocus sub-frame for target Ashkirk - standoff near 25 mm
		3422MH0003070011201539C00	1539	target Ashkirk - standoff near 25 mm
		3422MH0003070021201540C00	1540	target Ashkirk - standoff near 25 mm - image 1 in 8-image relative focus stack
		3422MH0003070021201541C00	1541	target Ashkirk - standoff near 25 mm - image 2 in 8-image relative focus stack
		3422MH0003070021201542C00	1542	target Ashkirk - standoff near 25 mm - image 3 in 8-image relative focus stack
		3422MH0003070021201543C00	1543	target Ashkirk - standoff near 25 mm - image 4 in 8-image relative focus stack
		3422MH0003070021201544C00	1544	target Ashkirk - standoff near 25 mm - image 5 in 8-image relative focus stack
		3422MH0003070021201545C00	1545	target Ashkirk - standoff near 25 mm - image 6 in 8-image relative focus stack
		3422MH0003070021201546C00	1546	target Ashkirk - standoff near 25 mm - image 7 in 8-image relative focus stack
		3422MH0003070021201547C00	1547	target Ashkirk - standoff near 25 mm - image 8 in 8-image relative focus stack
mhli00619	Breakyneck stereo-1 ~25 cm standoff	3422MH0006190001201548C00	1548	autofocus sub-frame for target Breakyneck - stereo-1 - standoff near 25 cm
		3422MH0006190011201549C00	1549	target Breakyneck - stereo-1 - standoff near 25 cm
mhli00619	Breakyneck stereo-2 ~25 cm standoff	3422MH0006190001201550C00	1550	autofocus sub-frame for target Breakyneck - stereo-2 - standoff near 25 cm
		3422MH0006190011201551C00	1551	target Breakyneck - stereo-2 - standoff near 25 cm
mhli00171	Focus Merges	3422MH0001710001201552R00	1552	target Ashkirk - standoff near 25 mm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1540-1547 - best focus image product
		3422MH0001710001201553S00	1553	target Ashkirk - standoff near 25 mm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1540-1547 - range map product
		3422MH0001710001201554R00	1554	target Ashkirk - stereo-2 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1530-1537 - best focus image product
		3422MH0001710001201555S00	1555	target Ashkirk - stereo-2 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1530-1537 - range map product
		3422MH0001710001201556R00	1556	target Ashkirk - stereo-1 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1520-1527 - best focus image product
		3422MH0001710001201557S00	1557	target Ashkirk - stereo-1 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1520-1527 - range map product
		3422MH0001710001201558R00	1558	target Scandal_Beck - standoff near 14 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1508-1515 - best focus image product
		3422MH0001710001201559S00	1559	target Scandal_Beck - standoff near 14 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1508-1515 - range map product
		3422MH0001710001201560R00	1560	target Calder - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1495-1502 - best focus image product
		3422MH0001710001201561S00	1561	target Calder - after dust removal tool (DRT) - standoff near 1 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1495-1502 - range map product
		3422MH0001710001201562R00	1562	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1485-1492 - best focus image product
		3422MH0001710001201563S00	1563	target Calder - after dust removal tool (DRT) - stereo-2 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1485-1492 - range map product
		3422MH0001710001201564R00	1564	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1475-1482 - best focus image product
		3422MH0001710001201565S00	1565	target Calder - after dust removal tool (DRT) - stereo-1 - standoff near 5 cm - focus stack acquired sol 3422 with MSL CAMERA_PRODUCT_IDs 1475-1482 - range map product

updated: 06_June_2022

Sol 3423 - MAHLI Images

acquired/performed date(s):	24-Mar-22
camera positions:	6
total parent images:	52
focus merges performed:	0
total focus merge products:	0
total parent images + focus merge products:	52

Image ID:
black = best, least-compressed version receive as of date at upper left; orange = only a thumbnail has been received

CDPID:
Camera Data Product Identifier = MSL:CAMERA_PRODUCT_ID in PDS archive product labels

summary of MAHLI activities: MAHLI imaged the targets Redscarhead and Breakyneck.

Sequence	Camera Position	Image ID	CDPID	Image Comment/Purpose (RATIONALE_DESC for PDS archive products; 400 character limit)
				0123456789
mhli00190	Redscarhead ~25 cm standoff	3423MH0001900001201566C00	1566	autofocus sub-frame for target Redscarhead - standoff near 25 cm
		3423MH0001900011201567C00	1567	target Redscarhead - standoff near 25 cm
mhli00224	Redscarhead stereo-1 ~5 cm standoff	3423MH0002240001201568C00	1568	autofocus sub-frame for target Redscarhead - stereo-1 - standoff near 5 cm
		3423MH0002240011201569C00	1569	target Redscarhead - stereo-1 - standoff near 5 cm
		3423MH0002240021201570C00	1570	target Redscarhead - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3423MH0002240021201571C00	1571	target Redscarhead - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3423MH0002240021201572C00	1572	target Redscarhead - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3423MH0002240021201573C00	1573	target Redscarhead - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3423MH0002240021201574C00	1574	target Redscarhead - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3423MH0002240021201575C00	1575	target Redscarhead - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3423MH0002240021201576C00	1576	target Redscarhead - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3423MH0002240021201577C00	1577	target Redscarhead - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00224	Redscarhead stereo-2 ~5 cm standoff	3423MH0002240001201578C00	1578	autofocus sub-frame for target Redscarhead - stereo-2 - standoff near 5 cm
		3423MH0002240011201579C00	1579	target Redscarhead - stereo-2 - standoff near 5 cm
		3423MH0002240021201580C00	1580	target Redscarhead - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3423MH0002240021201581C00	1581	target Redscarhead - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3423MH0002240021201582C00	1582	target Redscarhead - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3423MH0002240021201583C00	1583	target Redscarhead - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3423MH0002240021201584C00	1584	target Redscarhead - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3423MH0002240021201585C00	1585	target Redscarhead - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3423MH0002240021201586C00	1586	target Redscarhead - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3423MH0002240021201587C00	1587	target Redscarhead - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00297	Breakyneck stereo-1 ~5 cm standoff	3423MH0002970001201588C00	1588	autofocus sub-frame for target Breakyneck - stereo-1 - standoff near 5 cm
		3423MH0002970011201589C00	1589	target Breakyneck - stereo-1 - standoff near 5 cm
		3423MH0002970021201590C00	1590	target Breakyneck - stereo-1 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3423MH0002970021201591C00	1591	target Breakyneck - stereo-1 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3423MH0002970021201592C00	1592	target Breakyneck - stereo-1 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3423MH0002970021201593C00	1593	target Breakyneck - stereo-1 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3423MH0002970021201594C00	1594	target Breakyneck - stereo-1 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3423MH0002970021201595C00	1595	target Breakyneck - stereo-1 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3423MH0002970021201596C00	1596	target Breakyneck - stereo-1 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3423MH0002970021201597C00	1597	target Breakyneck - stereo-1 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00297	Breakyneck stereo-2 ~5 cm standoff	3423MH0002970001201598C00	1598	autofocus sub-frame for target Breakyneck - stereo-2 - standoff near 5 cm
		3423MH0002970011201599C00	1599	target Breakyneck - stereo-2 - standoff near 5 cm
		3423MH0002970021201600C00	1600	target Breakyneck - stereo-2 - standoff near 5 cm - image 1 in 8-image relative focus stack
		3423MH0002970021201601C00	1601	target Breakyneck - stereo-2 - standoff near 5 cm - image 2 in 8-image relative focus stack
		3423MH0002970021201602C00	1602	target Breakyneck - stereo-2 - standoff near 5 cm - image 3 in 8-image relative focus stack
		3423MH0002970021201603C00	1603	target Breakyneck - stereo-2 - standoff near 5 cm - image 4 in 8-image relative focus stack
		3423MH0002970021201604C00	1604	target Breakyneck - stereo-2 - standoff near 5 cm - image 5 in 8-image relative focus stack
		3423MH0002970021201605C00	1605	target Breakyneck - stereo-2 - standoff near 5 cm - image 6 in 8-image relative focus stack
		3423MH0002970021201606C00	1606	target Breakyneck - stereo-2 - standoff near 5 cm - image 7 in 8-image relative focus stack
		3423MH0002970021201607C00	1607	target Breakyneck - stereo-2 - standoff near 5 cm - image 8 in 8-image relative focus stack
mhli00523	Breakyneck ~1 cm standoff	3423MH0005230001201608C00	1608	autofocus sub-frame for target Breakyneck - standoff near 1 cm
		3423MH0005230011201609C00	1609	target Breakyneck - standoff near 1 cm
		3423MH0005230021201610C00	1610	target Breakyneck - standoff near 1 cm - image 1 in 8-image relative focus stack
		3423MH0005230021201611C00	1611	target Breakyneck - standoff near 1 cm - image 2 in 8-image relative focus stack
		3423MH0005230021201612C00	1612	target Breakyneck - standoff near 1 cm - image 3 in 8-image relative focus stack
		3423MH0005230021201613C00	1613	target Breakyneck - standoff near 1 cm - image 4 in 8-image relative focus stack
		3423MH0005230021201614C00	1614	target Breakyneck - standoff near 1 cm - image 5 in 8-image relative focus stack
		3423MH0005230021201615C00	1615	target Breakyneck - standoff near 1 cm - image 6 in 8-image relative focus stack
		3423MH0005230021201616C00	1616	target Breakyneck - standoff near 1 cm - image 7 in 8-image relative focus stack
		3423MH0005230021201617C00	1617	target Breakyneck - standoff near 1 cm - image 8 in 8-image relative focus stack

7 Definitions, conventions, and acronyms

7.1 Definitions and conventions

absolute focus stack
A MAHLI focus stack acquired using a commanded (manual) focus setting. The starting focus position (a stepper motor count), and the incremental change in focus position (a stepper motor count interval) between frames in the focus stack, are specified by instrument commanding.

best focus image product
A *focus merge product* created onboard the MAHLI instrument from up to 8 *parent images* acquired as a focus stack. The *best focus image product* is a color JPEG that combines the in-focus (or closest to in-focus) elements of the up to 8 *parent images* into a single image. The onboard focus merge software also creates a *range map product*.

focus merge product
Using the methods described by Edgett *et al.* (2012), *focus merge products* are created onboard the MAHLI instrument from up to 8 *parent images* acquired as a focus stack. Two products are created, a *best focus image product* and a *range map product*.

MAHLI toolframe +X distance
Same as *standoff distance*. See *standoff distance*.

parent and child images
Every MAHLI image has a *parent image,* the picture originally commanded to be acquired. Upon command, the parent image can spawn children (each a *child image)* onboard the instrument. Examples of children include *thumbnail images*, focus merge products, and any version of the image that is compressed differently than the parent (Edgett *et al.* 2012). While a parent can be an image that was compressed during image acquisition, our best practice since landing on Mars has been to acquire and store (onboard the instrument) most MAHLI images in uncompressed 8-bit form. An uncompressed 8-bit parent image can be commanded for compression some time after acquisition and storage, whereas a parent that was compressed at the time of acquisition cannot be further compressed onboard the instrument. When a parent is stored onboard in uncompressed form, it can be used to create multiple versions of the image, each time with a different compression scheme, for downlink to Earth. Thus, if the image received is over-compressed, we have the option to retrieve it again (as many times as necessary) in a less compressed form. Indeed, the majority of MAHLI images received from Mars have been losslessly compressed children of an uncompressed, 8-bit parent.

range
Used here in the context of describing a focus merge range map product, this term refers to the distance between the front lens element and in-focus elements of the imaged subject in a given MAHLI focus merge product. As each MAHLI focus stack is acquired at a fixed *working distance*, the range denotes the distance between the camera and the relief elements of the target (*i.e.*, subject), as indicated by grayscale pixel values (data number, DN) in the range map product.

range map product
A grayscale JPEG image *focus merge product* created onboard the MAHLI instrument from up to 8 *parent images* acquired as a focus stack. The *range map product* accompanies a *best focus*

image product. The grayscale pixel values (data number, DN) can be correlated with knowledge of instrument focus, *working distance*, *range*, and pixel scale.

RATIONALE_DESC
The term, RATIONALE_DESC, comes from the NASA PDS archivists. The RATIONALE_DESC for a given MAHLI image is a text description of the rationale or purpose behind the acquisition of a given MAHLI parent image or onboard focus merge product. Each parent image RATIONALE_DESC provides information that the MAHLI team desired to communicate to data users, such as the intended image target, intended working or standoff distance, intended purpose of the image (e.g., stereo, mosaic, autofocus sub-frame, range-finding), image position in a focus stack, as well as information regarding how the image supports observations made by other MSL science instruments, especially APXS and ChemCam. The RATIONALE_DESC for a focus merge product tells the user which images were merged (on what sol they were acquired and images of which CDPIDs were merged), as well as the focus merge product type (best focus or range map product).

relative focus stack
A MAHLI focus stack acquired using a starting focus position determined by a preceding instrument command. Usually, this is a focus setting based upon a focus position determined by a preceding autofocus command. The incremental change in focus position (a stepper motor count interval) between frames in the focus stack is specified by instrument commanding.

RP distance
RP refers to Rover Planners, the personnel who drive the Curiosity rover and operate its robotic arm. RP distance is equivalent to *standoff distance*. See definition of *standoff distance*.

sol
A Martian day; duration of ~1.027 Earth days.

Sol
A specific Martian sol during the MSL Curiosity mission. Because it landed during local afternoon, the sol that Curiosity arrived on Mars was designated Sol 0 and the first full sol after landing was Sol 1.

standoff distance
Also known as the MAHLI *toolframe distance* and *RP distance*, this is range between the subject photographed and the Y, Z plane defined by the two MAHLI contact sensor probe tips when they are not in contact with a surface. In the MAHLI toolframe, the X axis is equivalent to the instrument's optic (z) axis; the distance between the Y, Z plane and the subject is +X; the –X-axis goes from the Y, Z plane into the camera. Standoff *distance* and *RP distance* are equivalent to the +X MAHLI toolframe distance. MAHLI *standoff distance* is 1.9 cm less than *working distance*.

thumbnail images
Reduced-size versions of MAHLI *parent images* and *focus merge products*, approximately 1/8th size in terms of pixel dimensions. Under most circumstances, a *thumbnail image* is returned to Earth for every *parent image* acquired or *focus merge product* created, whether a full-size version of the *parent image* (or a *child image*) or *focus merge product* is returned or not.

working distance

A photography term that refers to the range between the front lens element of a camera and the subject imaged. MAHLI working distance is 1.9 cm greater than the toolframe (also known as standoff or RP) distance.

7.2 Acronyms

APXS
Alpha Particle X-ray Spectrometer (science instrument aboard MSL Curiosity rover)

CDPID or **MSL:CAMERA_PRODUCT_ID**
Each MAHLI parent image acquired or onboard focus merge product created and stored in the instrument's DEA flash memory is assigned a Camera Data Product ID (CDPID). This identifier, plus the time at which (or sol on which) the data were acquired, uniquely identify each image. The CDPID and sol are incorporated into the image ID. Data acquired by the camera but not stored in the DEA have less unique CDPIDs; these acquisitions have generally been rare and easy for the operations team to track (*i.e.*, 12 such images were obtained during Interplanetary Cruise, only one such image was obtained during the first 1000 sols of operations on Mars).

ChemCam
Chemistry Camera; Laser Induced Breakdown Spectrometer (LIBS) and Remote Microscopic Imager (RMI) (science instrument suite aboard MSL Curiosity rover)

CheMin
Chemistry and Mineralogy x-ray diffraction (XRD) and x-ray fluorescence (XRF) sample analysis investigation (science instrument aboard MSL Curiosity rover)

CHIMRA
Collection and Handling for Interior Martian Rock Analysis (sample handling and processing subsystem on Curiosity's robotic arm)

DEA
Digital Electronics Assembly, the MAHLI electronics housed inside Curiosity's rover body.

DN
data number (image pixel value)

DOF
image depth of field

DRT
Dust Removal Tool (wire brush tool on Curiosity's robotic arm)

EDR
Experiment Data Record

Hazcam(s)
Hazard cameras (engineering cameras aboard MSL Curiosity rover)

ID or **image ID**
Image identifier (NASA PDS image identifier for MAHLI images and focus merge products).

JPL-Caltech

Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

MAHLI
Mars Hand Lens Imager (science instrument aboard MSL Curiosity rover)

MARDI
Mars Descent Imager (science instrument aboard MSL Curiosity rover)

Mastcam-34 (also M-34 and M34)
34 mm focal length Mast Camera (science instrument aboard MSL Curiosity rover)

Mastcam-100 (also M-100 and M100)
100 mm focal length Mast Camera (science instrument aboard MSL Curiosity rover)

MSL
Mars Science Laboratory

MSSS
Malin Space Science Systems, San Diego, California, USA

NASA
National Aeronautics and Space Administration (USA space agency)

Navcam(s)
Navigation cameras (engineering cameras aboard MSL Curiosity rover)

PDS
Planetary Data System (NASA planetary science data archives)

QMS
Quadrupole Mass Spectrometer (part of the SAM instrument suite aboard MSL Curiosity rover)

RDR
Reduced Data Record

REMS
Rover Environment and Monitoring Station (science instrument suite aboard MSL Curiosity rover)

SAM
Sample Analysis at Mars (science instrument suite aboard MSL Curiosity rover)

TLS
Tunable Laser Spectrometer (part of the SAM instrument suite aboard MSL Curiosity rover)

USA
United States of America

UTC
Coordinated Universal Time

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