

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Large Venusian coronae database accompanying the paper Gülcher et al., 2023, Tectono-magmatic evolution of asymmetric coronae on Venus: Topographic classification and 3D thermo-mechanical modelling, *Journal of Geophysical Research: Planets*, DOI: 10.1029/2023JE007978.

This table contains the Venus coronae database from Gülcher et al. (2023), merged with that of Gülcher et al. (2020)). This database consists of the 150 largest coronae (those with a diameter equal to or greater than 300 km) in the publicly-available Venusian coronae nomenclature database (USGS Planetary Nomenclature, <https://planetarynames.wr.usgs.gov/Page/VENUS/target>) and the database of Stofan et al. (1992) combined. 130 coronae come from the USGS database while 20 additional (some unnamed) coronae were added by the Stofan et al. (1992) database. The database further consists of five additional coronae that are slightly smaller but located in identified (corona-dominated) hotspots (Smrekar & Stofan, 1999) or mentioned in previous literature (Lang & López, 2015). We examine the radial topographic (a)symmetry of each corona, and their relation to their surroundings. The (a)symmetry is defined based on the topographic features (troughs, rims, rises) displayed and their variability across the coronae. For further information on this classification, please see the paper (Gülcher et al., 2023). The distribution of classified coronae is given in Figure 1 in the main manuscript, whereas all analysed coronae, as well as the distribution of rifted regions (Price et al., 1996) and tesserae (Ivanov & Head, 1996), is given in Figure S1 in the Supplementary Information S1.

Gülcher, A. J. P., Gerya, T. V., Montesi, L. G. J., & Munch, J. (2020). Corona structures driven by plume–lithosphere interactions and evidence for ongoing plume activity on Venus. *Nature Geoscience*, 13(8), 547–554. DOI: [10.1038/s41561-020-0606-1](https://doi.org/10.1038/s41561-020-0606-1)

USGS Astrogeology Science Centre, Gazetteer for Planetary Nomenclature
https://planetarynames.wr.usgs.gov/SearchResults?Target=15_Venus&Feature%20Type=8_Corona,%20coronae

Stofan, E. R., Sharpton, V. L., Schubert, G., Baer, G., Bindschadler, L., Janes, D. M., & Squyres, W. (1992). Global Distribution and Characteristics of Coronae and Related Features on Venus: Implications for Origin and Relation to Mantle Processes. *Journal of Geophysical Research*, 97(92), 347–378. DOI: [10.1029/92JE01314](https://doi.org/10.1029/92JE01314)

Lang, N.P. and López, I. (2015). The magmatic evolution of three Venusian coronae. From: Platz, T., Massironi, M., Byrne, P. K. & Hiesinger, H. (eds) 2015. *Volcanism and Tectonism across the Inner Solar System*. Geological Society London, Special Publications, 401, 77-95. DOI: [10.1144/SP401.3](https://doi.org/10.1144/SP401.3)

Smrekar, S. E., & Stofan, E. R. (1999). Origin of Corona-Dominated Topographic Rises on Venus. *Icarus*, 139(1), 100–115. <https://doi.org/10.1006/icar.1999.6090>

Corona name	Longitude [0°, 360°E]	Latitude [-90°, 90°]	Diameter [km]	Activity classification (Gülcher et al., 2020)	Morphological classification (Stofan et al., 1992)	Topographic (A)symmetry classification. (This study)	(A)symmetry subcategory (This study)	Morphology	Comments
Ama	278.2	-45.7	300	Unclassified	Concentric	Asymmetrical	Margin	Ambiguous trench, partial rim, inner dome	
Ambar-ona	82.5	-70	550	Unclassified	Not in dataset	Asymmetrical	Irregular	Partial trench and rim, inner dome	
Anahit	277.3	77.1	324	Unclassified	Concentric	Asymmetrical	Intrinsic	Ambiguous rim	
Annapurna	152	-35.5	300	Active	Asymmetric	Asymmetrical	Margin	Partial (plateau-sided) trench and outer rise, rim, inner low	

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Aramaiti ^a	82	-26.3	350	Active	Concentric/Caldera	Symmetrical	Margin	Outer rise, trench, rim, inner dome	
Artemis	135	-35	2600	Active	Concentric	Asymmetrical	Margin	Partial (lowland-sided) outer rise, (double) trench, rim, irregular plateau	Double SE trench
Aruru	262	9	450	Inactive	Asymmetric	Asymmetrical	Intrinsic	Partial double rim, inner (lower) plateau	
Ashnan	357	50.2	300	Unclassified	Asymmetric	Asymmetrical	Margin	Inner depression, partial rim	
Atahensik	170	-19	700	Active	Concentric-Double Rim	Asymmetrical	Irregular	Partial outer rise, (double) trench and rim, irregular plateau	Within chasmata; named 'Latona corona' in Stofan et al. (1992)
Atargatis	8.6	-8	360	Inactive	Asymmetric	Asymmetrical	Margin	Rim, inner low, small dome	
Atete	243.5	-16	600	Active	Asymmetric	Asymmetrical	Irregular	Partial trench, rim, inclined interior	Near chasmata
Azham	252.7	66.4	380	Unclassified	Multiple	Asymmetrical	Margin	Partial trench, rim, inner depression and dome(s)	Elongated. Named 'Apunusa' in Stofan et al. (1992)
Bachue	261.4	73.3	460	Unclassified	Asymmetric	Asymmetrical	Intrinsic	Partial deep trench, partial rim, partial plateau	
Bau	259.3	52.8	355	Active	Concentric	Asymmetrical	Intrinsic	Partial outer rise, trench, rim, inner dome	
Beiwe	306.5	52.6	600	Unclassified	Multiple	Asymmetrical	Intrinsic	Ambiguous rim, irregular interior, partial trenches	
Bele-Ili Corona	20	6	300	Active	Concentric	Asymmetrical	Margin	Partial outer rise, rim and trench; inner dome	
Benten	340	16	310	Inactive	Asymmetrical	Asymmetrical	Intrinsic	Rim, inner depression and dome, partial trench, several irregularities	
Beruth	233.5	-19	350	Inactive	Multiple	Unclassified	Unclassified	inner depression, irregular surroundings	
Beyla	15.5	26.5	400	Active	Asymmetric	Asymmetrical	Margin	Partial (plateau-sided) outer rise, partial trench, rim, inner plateau	
Bhumidevi ^a	343.4	-17.2	150	Inactive	Concentric	Symmetrical	Intrinsic	Rim, inner depression	
Bibi-Patma	302	-47	450	Unclassified	Not in dataset	Unclassified	Unclassified	Irregular plateau	Poorly resolved
Blathnat	293.8	35	300	Unclassified	Multiple	Asymmetrical	Margin	Partial rim, partial (margin-parallel) trenches, inner dome	
Boala*	0	-70	120	Unclassified	Not in dataset	Asymmetrical	Margin	Partial rim, inner depression	in Quetzalpetlatl; volcanic activity ⁴⁶
Boann	136.5	27	300	Active	Concentric	Asymmetrical	Margin	Partial trench, rim, inner dome	

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Calakomana	43.5	6.5	575	Inactive	Concentric-Double Rim	Asymmetrical	Irregular	Rim, inner depressions and domes	Eastern Eistla Regio
Cauteovan	142.9	31.5	553	Inactive	Not in dataset	Asymmetrical	Irregular	Partial rim, inner depression	Linked with several smaller coronae
Ceres	151.5	-16	675	Unclassified	Concentric	Asymmetrical	Irregular	Partial trenches, rim, irregular interior	Within Diane chasmata
Chanume	245.5	-29.5	330	Unclassified	Multiple	Unclassified	Unclassified	Irregular profile	Poorly resolved
Chuku	265.5	-23.5	380	Unclassified	Asymmetric	Asymmetrical	Irregular	Irregular plateau	
Colijnsplaat	151	-32	350	Active	Asymmetric	Asymmetrical	Irregular	Deep trench, partial rim, inner dome	
Copia	75.5	-42.5	500	Active	Asymmetric	Asymmetrical	Margin	Partial outer rise, partial (margin-parallel) trenches, partial rim, irregular plateau	Angular
Cybele	20.7	-7.5	500	Inactive	Concentric	Symmetrical	Margin	Rim, inner depression, small dome	
Demeter	294.5	53.9	370	Active	Concentric	Asymmetrical	Intrinsic	Partial trench, rim, irregular interior	Very elongated
Demvamvit	38	-65.2	370	Unclassified	Multiple	Asymmetrical	Irregular	Ambiguous trench, partial rim, irregular interior	Poorly resolved
Deohako	118	-67.5	300	Unclassified	Asymmetric	Unclassified	Unclassified	Ambiguous rim, inner depression with dome?	Poorly resolved
Didilia*	37.5	18.5	320	Unclassified	Concentric	Symmetrical	Intrinsic	Rim, inner plateau, dome	Eastern Eistla Regio; recent volcanic flows
Disani	57.5	2.7	300	Unclassified	Asymmetric	Asymmetrical	Irregular	Ambiguous trench, irregular interior	Poorly resolved
Dunne-Musun	85	-60	630	Active	Asymmetric	Asymmetrical	Irregular	Partial trench, partial rim	
Earhart	136.2	70.1	414	Unclassified	Concentric	Symmetrical	Intrinsic	Ambiguous partial trench, rim	
Eithinoha	7.5	-57	500	Active	Concentric	Asymmetrical	Irregular	Partial trench, rim, inner plateau, irregular surroundings	
Ekhe-Burkhan	40	-50	600	Unclassified	Not in dataset	Unclassified	Unclassified	Unresolved	
Enekeler	264	-46	250	Unclassified	Asymmetric	Asymmetrical	Irregular	Partial rim, irregular interior	
Ereshkigal	84.5	21	320	Inactive	Volcanic	Asymmetrical	Intrinsic	Rim, inner depression	
Erigone	284	-34.5	325	Unclassified	Multiple	Asymmetrical	Irregular	Depression, ambiguous rim	In Themis Regio
Eve	359.8	-32	330	Active	Concentric	Asymmetrical	Margin	Outer rise, partial trench, rim, inner dome	
Fatua	17.7	-16.3	400	Active	Concentric-Double Rim	Asymmetrical	Intrinsic	Partial outer rise, (double) trench, rim, inner low	

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Feronia	281.7	68	360	Unclassified	Asymmetric	Asymmetrical	Irregular	Irregular profile	
Furachoga	258	-38	550	Inactive	Not in dataset	Asymmetrical	Irregular	Partial rim, inner depression	
Gefjun	98.5	-33.5	300	Unclassified	Asymmetric	Unclassified	Unclassified	Ambiguous rim, dome	Poorly resolved
Haumea	21.8	54	375	Unclassified	Radial	Asymmetrical	Margin	Ambiguous rim, ambiguous partial trench, inner depression	Poorly resolved
Heng-O	355	2	1060	Inactive	Concentric	Asymmetrical	Intrinsic	Rim, irregular inner low	
lang-Mdiye	86	-47	300	Unclassified	Concentric-Double Rim	Unclassified	Unclassified	Partial rim, irregular interior	Poorly resolved, named 'Makh' in Stofan et al., 1992
Ilyana	65	-69.5	300	Inactive	Not in dataset	Asymmetrical	Irregular	Partial rim, inner depression	
Inanna	35.9	-37	350	Active	Concentric-Double Rim	Asymmetrical	Irregular	Partial outer rise, trench, and rim; irregular plateau	Near Artio Chasma
Inari	120.3	-18	300	Unclassified	Radial/Concentric	Asymmetrical	Irregular	Irregular plateau	Near Chasma
Isong	49.2	12	540	Active	Concentric	Symmetrical	Intrinsic	Partial trough, rim, inner dome	Eastern Eistla Regio
Iweridd	310	-21	500	Unclassified	Concentric-Double Rim	Asymmetrical	Margin	Irregular plateau, partial rim and outer rise	
Javine	251.5	-5.5	450	Unclassified	Asymmetric	Asymmetrical	Intrinsic	Partial trenches, irregular plateau	Complex, angular ("heart") shape
Juksakka	44.5	-19.5	320	Inactive	Not in dataset	Asymmetrical	Margin	Partial (plateau-sided) rim, trench, and outer rise; inner depression	
Kaltash	75	0.5	450	Inactive	Not in dataset	Asymmetrical	Margin	Partial rim, irregular inner depression	
Kamadhenu	136.5	21	400	Inactive	Concentric	Asymmetrical	Intrinsic	Partial rim, inner depression	
Kamui-Huci	322.5	-63.5	300	Unclassified	Not in dataset	Asymmetrical	Intrinsic	Ambiguous trench, ambiguous dome	Poorly resolved
Ki	227.8	43.2	300	Unclassified	Concentric	Asymmetrical	Margin	Partial rim, partial trench, inner depression	Named 'Ashtart' in Stofan et al. (1992)
Krumine	261.5	-5	300	Inactive	Multiple	Asymmetrical	Margin	Partial rim, inner depression	
Kuan-Yin	10	-4.3	310	Unclassified	Concentric	Asymmetrical	Margin	Ambiguous (lowland-sided) trench, rim, irregular plateau	
Lalohonua	250.5	-24	460	Inactive	Asymmetrical	Asymmetrical	Intrinsic	Rim, inner (lower) plateau, partial trench	
Latmikaik	123	-64	500	Inactive	Not in dataset	Unclassified	Unclassified	Rim, inner depression	Poorly resolved
Latta*	287	-38.6	225	Unclassified	Not in dataset	Asymmetrical	Irregular	Irregular plateau	Themis Regio
Lengdin	223	2.5	525	Active	Asymmetric	Asymmetrical	Irregular	Partial trench, rim, inner plateau	

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Libera	24	12.5	350	Unclassified	Concentric	Asymmetrical	Margin	Partial rim, partial (lowland-sided trench), irregular interior	
Lilwani	271.5	-29.5	500	Active	Asymmetric	Asymmetrical	Irregular	Partial outer rise, partial trench, partial rim, inner low	
Ludjatako	250.5	-12.5	300	Unclassified	Concentric	Asymmetrical	Irregular	Irregular plateau, Partial trench	
Ma	57	-22.5	420	Active	Concentric	Asymmetrical	Margin	Partial (plateau-sided) outer rise, trench, and rim	
Maa-Ema	102.5	40.8	300	Unclassified	Asymmetric	Asymmetrical	margin	Partial rim, inner dome	Poorly resolved; named "Maan-Eno" in Stofan et al. (1992)
Mama-Allpa	31	-27	300	Unclassified	Concentric	Asymmetrical	Margin	Partial (plateau-sided) trench, rim, inner plateau	
Maram	221.5	-7.5	600	Unclassified	Asymmetric	Asymmetrical	Irregular	Ambiguous partial trench, partial rim, irregular plateau	
Marzyana	67.5	-53	350	Active	Asymmetrical	Asymmetrical	Irregular	Partial outer rise, trench, inner high	Elongated and angular shape
May-enensi	68	-42.5	330	Unclassified	Not in dataset	Asymmetrical	Margin	Partial rim, irregular interior	At edge of Copia corona and near chasma
Miralaidji	163.8	-14	300	Active	Radial/concentric	Asymmetrical	Irregular	Partial outer rise and trench, rim, inner high	Near chasmata, deep N trench
Mukylchin	46	-12.5	525	Inactive	Concentric-Double Rim	Asymmetrical	Irregular	Partial rim, inner low, inner dome	
Nabuzana	47	-8.5	525	Inactive	Radial/Concentric	Asymmetrical	Margin	Partial rim, plateau-sided trench, interior irregular low	South of Salus Tessera
Nalwanga	247	48.7	380	Inactive	Concentric	Asymmetrical	Margin	Partial rim, inner depression	
Nefertiti	48.2	35.9	371	Active	Asymmetric	Asymmetrical	Intrinsic	Partial outer rise, partial trench, rim, inner plateau	
Nehalennia	10	14	345	Unclassified	Asymmetrical	Asymmetrical	Margin	Rim, irregular interior	Central Eistla Regio
Nepret	6.8	52.7	323	Inactive	Not in dataset	Asymmetrical	Margin	Rim, inner depression	
Nightingale	129.5	63.6	470	Active	Concentric	Asymmetrical	Intrinsic	Partial outer rise, trench, rim, inner low	Deep S trench
Ninmah	49	16.5	700	Active	Concentric	Asymmetrical	Irregular	Partial trough, rim, interior high	Eastern Eistla Regio
Nissaba	355.5	25.5	300	Unclassified	Concentric	Symmetrical	Margin	Ambiguous rim, dome	
Oanuavae	255.5	-32.5	375	Unclassified	Multiple	Asymmetrical	Margin	Irregular plateau	Poorly resolved
Obiemi	276.6	-31.9	300	Unclassified	Asymmetric	Unclassified	Unclassified	Ambiguous partial trench, irregular plateau	

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Omosi-Mama	306	64.5	480	Inactive	Not in dataset	Asymmetrical	Margin	Partial rim, plateau-sided trench, inner depression	Near tessera
Otygen	30.5	-57	400	Active	Concentric-Double Rim	Asymmetrical	Irregular	Partial outer rise (double rim), trench, rim, inner plateau	
Pani	234.5	17	500	Unclassified	Radial/Concentric	Asymmetrical	Irregular	Partial trench/chasmata, partial rim	Near chasmata
Pavlova	39.5	14.5	500	Unclassified	Concentric	Symmetrical	Intrinsic	Rim, inner dome	Eastern Eistla Regio; recent volcanic flows
Pazar-ana	214.8	-3.2	300	Unclassified	Concentric-Double Rim	Unclassified	Unclassified	Irregular features	Poorly resolved, near chasmata
Perchta	231.5	19.9	320	Active	Concentric	Asymmetrical	Irregular	Partial trench, partial tilted plateau	
Poloznitsa	302	0.5	675	Inactive	Concentric	Symmetrical	Margin	Rim, inner depression, small dome	
Pomona	299.4	79.3	315	Unclassified	Concentric	Asymmetrical	Margin	Partial rim, partial trench	Poorly resolved
Prthivi	248.5	10.8	375	Unclassified	Concentric	Asymmetrical	Irregular	Partial rim, Irregular profile	In chasma
Quetzalpetlatl	357	-68	780	Active	Asymmetric	Asymmetrical	Intrinsic	Partial trench, rim and partial plateau	Deep trench NW arc, recent lava flows
Rananeida	263.4	62.6	448	Unclassified	Concentric	Symmetrical	Margin	Rim, partial trench, irregular interior	
Rigatona*	279	-33.5	300	Active	Concentric	Asymmetrical	Irregular	Partial outer rise, trough, rim, inner low	Themis Regio
Rosmerta	124.5	0	300	Unclassified	Asymmetric	Asymmetrical	Margin	Irregular depression, ambiguous rim, plateau-sided trench	
Rzhaitisa	214.6	-17.6	450	Unclassified	Not in dataset	Unclassified	Unclassified	Irregular plateau	Poorly resolved
Sappho*	15.4	14.2	300	Unclassified	Concentric	Symmetrical	Intrinsic	Rim, raised interior	Central Eistla Regio; recent volcanic flows
Selu	6	-42.5	300	Unclassified	Radial/concentric	Asymmetrical	Margin	Rim, inner high, partial (plateau-sided) trench/low	Poorly resolved
Semiramus	293	-37	375	Active	Asymmetric	Asymmetrical	Irregular	Partial outer rise, trough, irregular plateau	Themis Regio
Shiwanokia	279.8	-42	500	Unclassified	Concentric	Symmetrical	Intrinsic	Partial rim, irregular plateau	Themis Regio
Shulhamite*	284	-38.5	275	Active	Concentric	Symmetrical	Intrinsic	Raised rim, raised interior	Themis Regio
Shyv-Amashe	63	-57	410	Active	Not in dataset	Asymmetrical	Irregular	Partial trench, partial rim	
Sinlaku	260.3	17.3	300	Inactive	Volcanic	Asymmetrical	Margin	Rim, irregular interior, partial trench (plateau-sided)	S of chasmata
Sith	176.5	-10.2	350	Unclassified	Asymmetric	Asymmetrical	Irregular	Irregular topography	Poorly resolved, near chasmata

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Suntra	8.3	11.7	300	Unclassified	Not in dataset	Symmetrical	Margin	inner depression	
Su-Anasy	30	-78	300	Unclassified	Asymmetric	Unclassified	Unclassified	Unresolved	
Tacoma	288	-37	400	Active	Asymmetric	Asymmetrical	Irregular	Deep partial trench	Corona cluster
Tamfana	6	-36.3	400	Active	Concentric	Asymmetrical	Irregular	Partial outer rise, trench, rim, irregular interior	Clustered corona
Tamiyo	298.5	-36	400	Unclassified	Asymmetric	Asymmetrical	Margin	Partial rim, inner (lower) plateau	Themis Regio
Taranga	251	16.5	400	Unclassified	Asymmetric	Asymmetrical	Irregular	Partial rim, inner (lower) plateau	Hecate Chasma
Thermuthis	33	-8	330	Inactive	Concentric	Asymmetrical	Intrinsic	Partial rim, inner depression	
Thouris ^a	12.9	-6.5	190	Inactive	Concentric/Caldera	Symmetrical	Margin	Rim, inner depression	
Tonatzin	164	-53	400	Inactive	Not in dataset	Asymmetrical	Intrinsic	Rim, partial (lower) plateau	
Toyo-Uke	41.5	-62.5	300	Unclassified	Asymmetric	Unclassified	Unclassified	Unresolved	
Triglava	95	-53.5	400	Active	Asymmetric	Asymmetrical	Margin	Partial trench, rim, inner dome	
Tusholi	101.2	69.5	350	Inactive	Asymmetric	Asymmetrical	Margin	Rim, inner depression	
Ugatame	255	-76.5	370	Unclassified	Not in dataset	Unclassified	Unclassified	Irregular profile	Poorly resolved
Ukemochi	296.1	-39	300	Active	Asymmetric	Asymmetrical	Irregular	Partial outer rise and trench, inner rim and plateau	Themis Regio
Ulgen-Ekhe	224	-14.2	300	Unclassified	Concentric	Unclassified	Unclassified	Ambiguous trench, partial rim	Poorly resolved
Uma-y-Ene	50.5	-27.5	370	Active	Concentric-Double Rim	Symmetrical	Margin	Outer rise, trench, inner dome	
Urash	282	43.2	360	Inactive	Not in dataset	Asymmetrical	Margin	Rim, inner depression	
Vacuna	96	60.4	448	Unclassified	Not in dataset	Unclassified	Unclassified	Partial rim, ambiguous inner depression	Poorly resolved
Whatitiri	140	-83	300	Unclassified	Not in dataset	Unclassified	Unclassified	Unresolved	
Xilonen	321	51	300	Inactive	Concentric	Symmetrical	Margin	Rim, inner depression	
Zamin	258.3	31.5	315	Inactive	Concentric	Asymmetrical	Margin	Partial (plateau-sided) rim and trench inner depression	Near tessera and Beta Regio
Zemina	186	-11.7	530	Unclassified	Concentric	Asymmetrical	Irregular	Partial trench/chasma, partial rim	Within chasmata
Zemire ^b	312.5	31.5	200	Inactive	Concentric-Double Rim	Asymmetrical	Irregular	Rim, inner depression	
Zisa	221	12	850	Inactive	Asymmetric	Asymmetrical	Irregular	Rim, partial inner depression	
Zywie [*]	291.2	-38.6	200	Active	Not in dataset	Asymmetrical	Irregular	Partial rim, partial inner depression	Near chasmata

Gülcher et al. (2023), JGR - Planets
TECTONO-MAGMATIC EVOLUTION OF ASYMMETRIC CORONAE ON VENUS

Achall	259.5	-31.5	300	Not in dataset	Concentric	Asymmetrical	Margin	Partial rim(s), irregular interior low, innermost dome	
Dhorani	243.5	24	300	Not in dataset	Radial/Concentric	Symmetrical	Intrinsic	Irregular raised interior, outer rises	
Epona	209.5	-28	300	Not in dataset	Multiple	Asymmetrical	Margin	Partial rim(s), inner low, innermost dome	
Hulda	308	12	300	Not in dataset	Concentric	Symmetrical	Intrinsic	Raised irregular plateau	
Jungkowa	257	37	320	Not in dataset	Concentric	Asymmetrical	Margin	Partial rim, partial trench, inner dome	Bounds tessera
Khabuchi	173	-11	300	Not in dataset	Radial/Concentric	Asymmetrical	Irregular	Raised interior, partial trenches, partial outer rise	Near chasmata
Pasu-Ava	318	29.5	300	Not in dataset	Concentric	Unclassified	Unclassified	Unresolved	
Ponmakya	12	35	300	Not in dataset	Concentric	Asymmetrical	Margin	Partial rim, inner low	
	217	36.5	300	Not in dataset	Asymmetric	Asymmetrical	Margin	Partial rim, plateau-sided trench, interior irregular profile	
	255	31.5	300	Not in dataset	Concentric	Asymmetrical	Margin	partial rim, lowland-sided trenches, irregular depressed interior	
	224	22	350	Not in dataset	Radial/Concentric	Asymmetrical	Irregular	Partial rim and trenches, raised interior	
	227.5	19.5	330	Not in dataset	Radial/Concentric	Asymmetrical	Irregular	Partial rim and trenches, outer rise, raised interior	
	240	17.8	325	Not in dataset	Concentric	Asymmetrical	Irregular	Partial rim and trenches, irregular	Near chasmata
	251.5	10.5	300	Not in dataset	Concentric	Asymmetrical	Irregular	Partial rim, depressed interior	
	273.7	5	400	Not in dataset	Multiple	Asymmetrical	Intrinsic	Partial rim and trench, partial inner low, inner dome	Elongated
	254.5	-3.5	325	Not in dataset	Concentric	Asymmetrical	Margin	Partial rim, plateau-sided trench and outer ride (double rim)	
	133.5	-12.5	400	Not in dataset	Radial	Asymmetrical	Irregular	Partial deep trenches, inner high	Bounding tessera and chasma
128.5	-17	420	Not in dataset	Concentric	Asymmetrical	Margin	Partial deep trenches and high rims, inner depression, partial outer rise	Bounding tessera, close to chasma	