



# G19 LTSRF Update

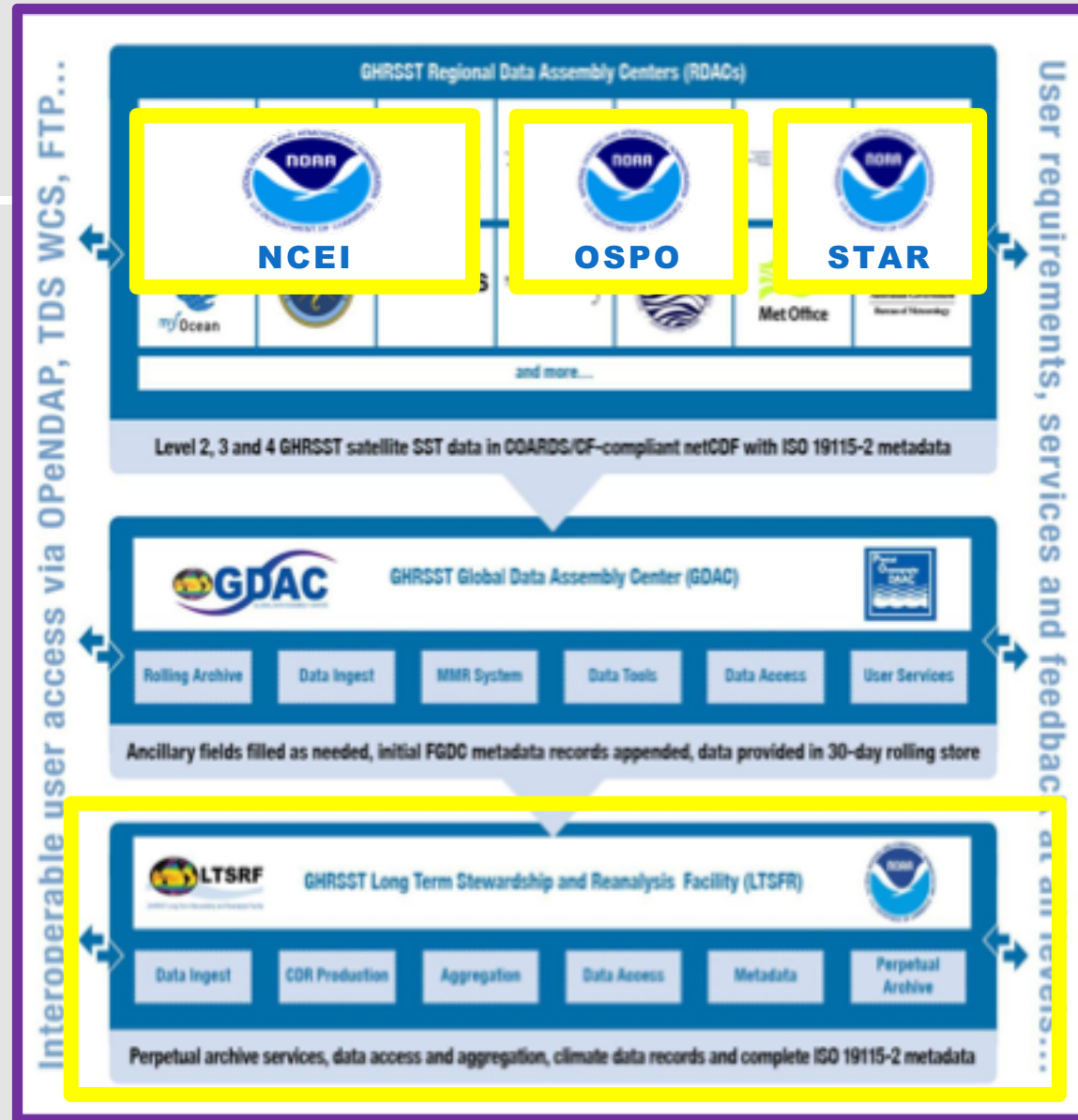
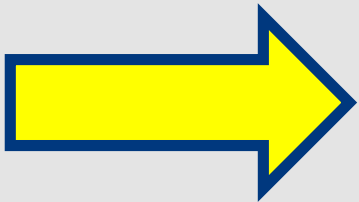
**Presented by Xuepeng Zhao on  
behalf of the LTSRF Team**

**Long Term Stewardship and Reanalysis Facility (LTSRF) at  
NOAA's National Centers for Environmental Information (NCEI)**

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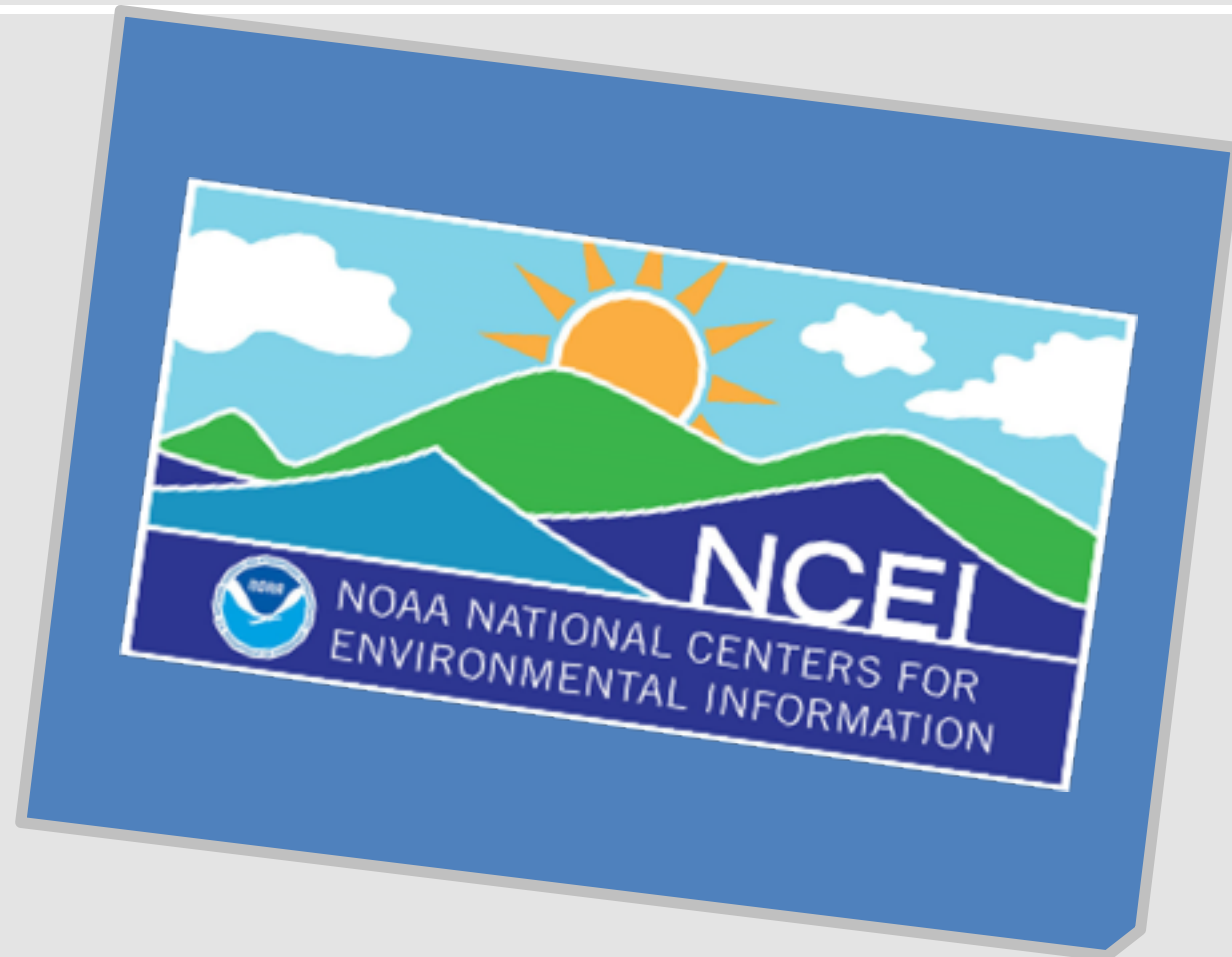


# National Centers for Environmental Information



# LTSRF: Long Term Stewardship and Reanalysis Facility

- Continues to archive all GHRSSST data via GDAC, plus directly receives NOAA ACSPO SSTs
- Continues to provide enhanced collection and granule level discovery services, plus access:
- FTP/HTTP
- THREDDS Data Server
- OPeNDAP Hyrax Server (A new version will be installed soon)
- Live Access Server
- ArcGIS Serve



# LTSRF: Key Update

- **New Products since G18**
- **Dynamic Data Table**
- **CEOS CWIC Integration**
- **GHRSSST OneStop**
- **Archive and Access Statistics**
- **On the Horizon/Issues**



# LTSRF: New Products Since G18

- ❖ **GHRSSST-VIIRS\_NPP-OSPO-L2P-v2.41**
- ❖ **GHRSSST-VIIRS\_NPP-OSPO-L3U-v2.41**
- ❖ **GHRSSST-CMC0.1deg-CMC-L4-GLOB-v3.0**
- ❖ **GHRSSST-MODIS\_A-JPL-L2P-v2014.0**
- ❖ **GHRSSST-MODIS\_T-JPL-L2P-v2014.0**
- ❖ **GHRSSST-WindSat-REMSS-L3U-v07.0**
- ❖ **GHRSSST-VIIRS\_NPP-NAVO-L2P-v3.0**

# LTSRF: Dynamic Data Table

## Dynamic Data Table

- Built automatically and dynamically from metadata and archive metrics
- Includes key summary information for each product
- Includes data access and metadata links
- Summary states for all products displayed at bottom

GHRSSST Products in the LTSRF									
RDAC	Product	Product Level	Start Date	End Date	GDS Version	Grid / Pixel Resolution	Metadata	Access	Disk Volume - Number of Days - Number of Files
ABOM	GAMSSA_28km GLOB	L4	2008-08-24	2015-05-30	1.5	28 km	Details · Granule Search · Live Access Server	FTP · HTTP · OPeNDAP · THREDDS	2.4GB - 2468 days - 2468 files
	RAMSSA_9km AUS	L4	2008-04-01	2015-05-30	1.5	9 km	Details · Granule Search · Live Access Server	FTP · HTTP · OPeNDAP · THREDDS	4.1GB - 2593 days - 2597 files
CMC	CMC3.2deg GLOB	L4	2013-06-27	2015-05-04	2.0	0.2°	Details · Granule Search · Live Access Server	FTP · HTTP · OPeNDAP · THREDDS	0.9GB - 448 days - 448 files
DMI	DMI_GI GLOB	L4	2013-12-11	2015-04-23	2.0	0.05°	Details · Granule Search	FTP · HTTP · OPeNDAP · THREDDS	20.4GB - 123 days - 136 files
	DMI_GI NSIBALTIC	L4	2007-06-04	2015-05-31	1.5	3 km	Details · Granule Search · Live Access Server	FTP · HTTP · OPeNDAP · THREDDS	1.5GB - 2887 days - 2887 files
EUR	AHSAR	L2P	2004-12-19	2007-02-26	1.5	25 km	Details · Granule Search · Live Access Server	FTP · HTTP · OPeNDAP · THREDDS	3.0GB - 744 days - 8995 files
	ATS_NR_2P	L2P	2004-12-30	2009-09-29	1.5	1 km	Details · Granule Search	FTP · HTTP · OPeNDAP · THREDDS	315.4GB - 1643 days - 22303 files

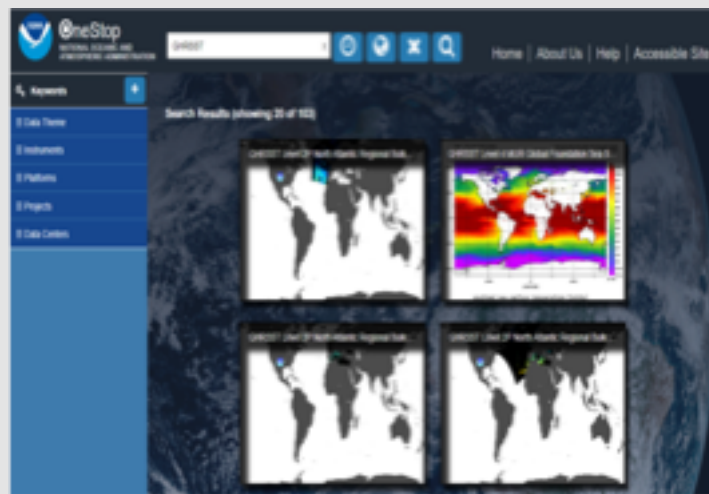
<http://ghrsst.nodc.noaa.gov/accessdata.html>





# LTSRF: GHR SST Search at NOAA OneStop

<https://data.noaa.gov/onestop>



# LTSRF: Access Statistics + GDAC

## Archive and Access Statistics:

(January 2006 – May 2018)

- Volume Accessed/Month
- # Hosts Served/Month
- # Files Accessed/Month

12+ Years of Service!

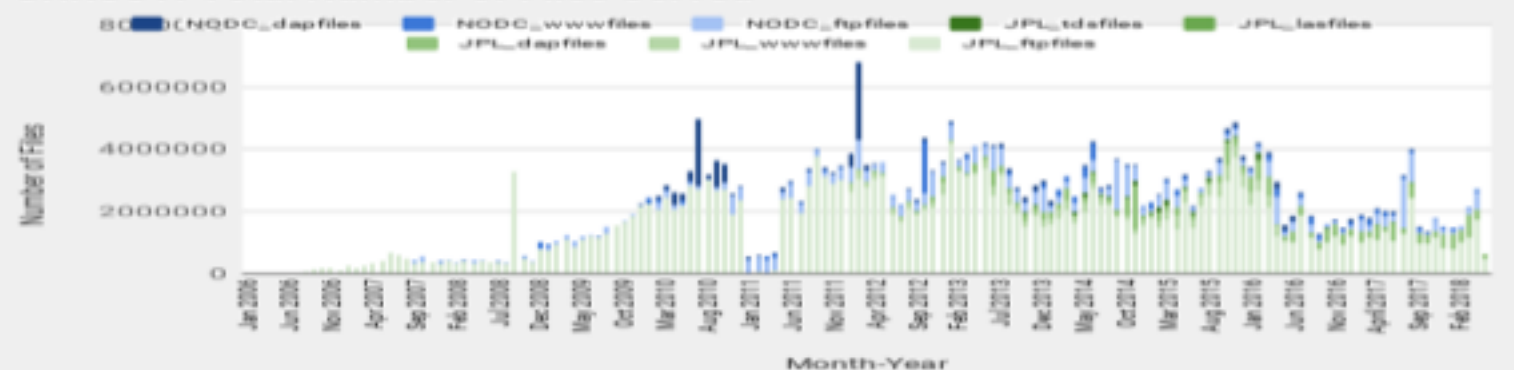
GHRSSST: Total Data Volumes Served



GHRSSST: Total Unique Hosts Served



GHRSSST: Total Number of Files Served



# LTSRF: Daily Access Statistics

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018*
<b>Files served per day</b>	85	1130	1734	3413	21,956	14,896	28,807	20,056	21,196	12,979	15,020	18041	9512
<b>GB served per day</b>	0.2	1.8	3.9	18.8	66.3	115	73	145	156	122	202	153	259.7
<b>Users served per day</b>	3	7	8	8	11	19	19	24	36	38	63	39	27

\* Estimated based on Jan-April 2018



# LTSRF: Total Archive Holdings

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018*
<b>Products</b>	22	26	27	40	59	60	62	77	81	81	87
<b># of AIPs (K)</b>	39	50	60	68	92	105	112	132	148	158	161
<b>Files (M)</b>	0.68	0.99	1.35	1.66	2.46	3.29	3.97	4.89	5.89	6.44	6.67
<b>Volume (TB)</b>	13	20	28	34	57	69	81	99	124	139	146

\* As of 30 April 2018



# LTSRF: On the Horizon/Issues

## On the Horizon/Issues

- Not yet known when URLs will change to new NCEI name, but long lead times and re-directs will be enabled.
- Future Regional/Global Task Sharing Framework ideas

