



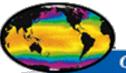


15th Meeting Report for the GHRSST Long Term Stewardship and Reanalysis Facility (LTSRF) at the US NODC

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GHRSST-15, 02-06 June 2014



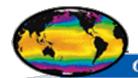
Regional/Global Task Sharing

NOAN TO COMMENT OF COMMENT

GHRSST Long Term Stewardship and Reanalysis Facility



NODC Serves as LTSRF and RDAC

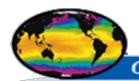


LTSRF Progress

GHRSST Long Term Stewardship and Reanalysis Facility

	2007	2008	2009	2010	2011	2012	2013	2014*
Products		22	26	27	40	59	60	62
Accessions		39,048	49,957	59,982	67,906	92,282	105,046	107,925
Files		679,000	993,580	1,352,901	1,662,004	2,459,724	3,290,806	3,428,238
Volumes (TB)		13	20	28	34	57	69	72
Services	ftp http	ftp http	ftp http DAP	ftp http DAP WMS WCS	ftp http DAP WMS WCS LAS	ftp http DAP WMS WCS LAS Geoportal	ftp http DAP WMS WCS LAS Geoportal Granules CWIC	ftp http DAP WMS WCS LAS Geoportal Granules CWIC

*2014 numbers through 01 June 2014

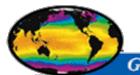


LTSRF Progress

GHRSST Long Term Stewardship and Reanalysis Facility

	2006	2007	2008	2009	2010	2011	2012	2013	2014*
Files served per day	85	1130	1734	3413	21,956	14,896	28,807	20,056	13,826
GB served per day	0.2	1.8	3.9	18.8	66.3	115	73	145	117
Users served per day	3	7	8	8	11	19	19	24	40

*2014 numbers projected based on Jan-Apr statistics.

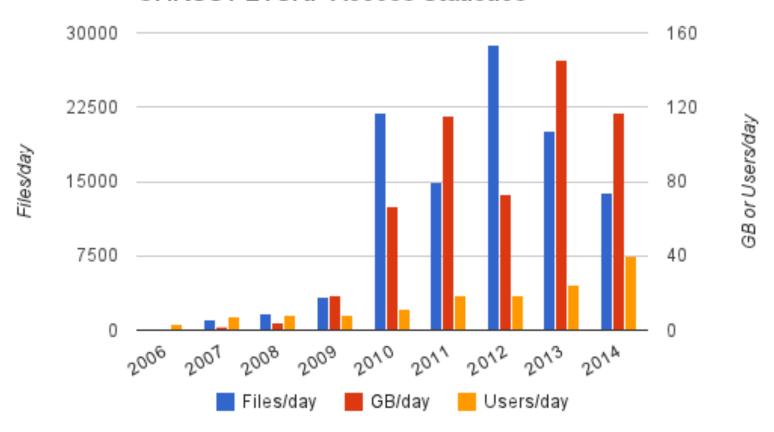


LTSRF Progress

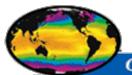
GHRSST Long Term Stewardship and Reanalysis Facility



GHRSST LTSRF Access Statistics

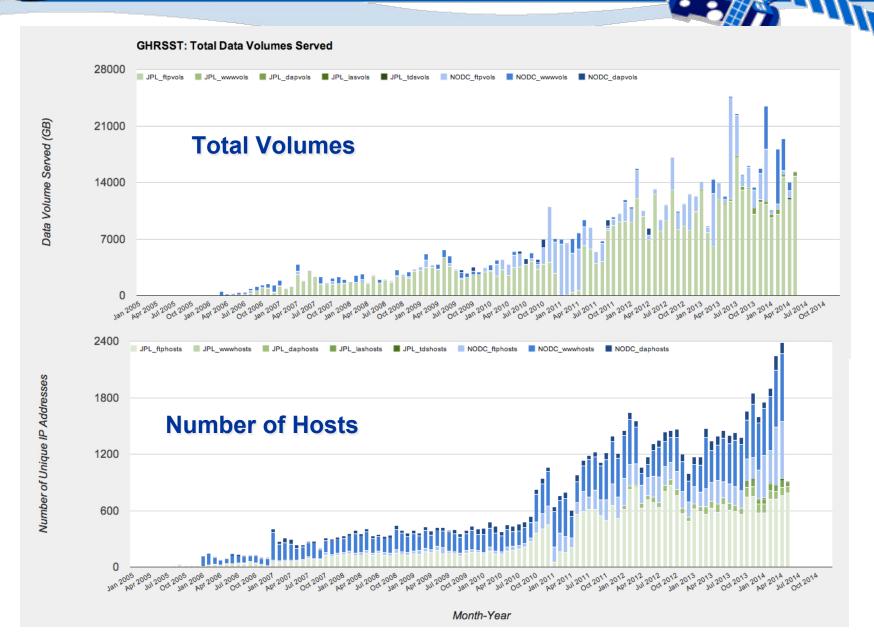


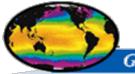
*2014 projected based on Jan-Apr statistics.



LTSRF-GDAC Combined Stats

GHRSST Long Term Stewardship and Reanalysis Facility

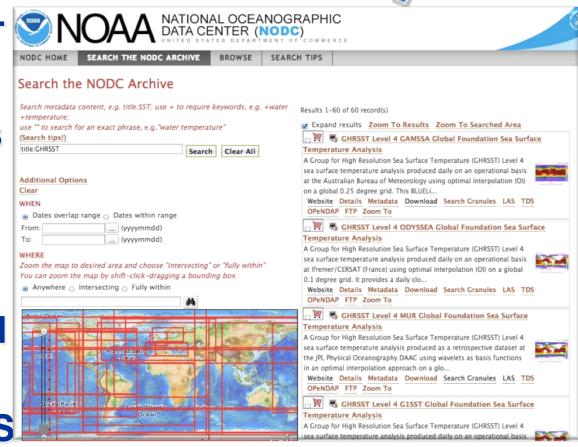




GHRSST Discovery and Access

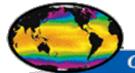
GHRSST Long Term Stewardship and Reanalysis Facility

- Human and REST interfaces
- Data access links
- All datasets with granule search
- Supports CEOS WGISS Integrated Catalog (CWIC)
- All gridded in LAS (L2P gridded, L3, and L4)



Geoportal: http://data.nodc.noaa.gov/geoportal

Live Access Server: http://data.nodc.noaa.gov/las



Linking Collections and Granules

GHRSST Long Term Stewardship and Reanalysis Facility

SEARCH TIPS

		21101102				
Search						
+temperature;				vwords, e.g. +water		
	use "" to search for an exact phrase, e.g."water temperature" fileIdentifier:REMSS-L2P_GRIDDED_25-WSAT Search Clear All					
Additional Options WHEN						
	Dates overlap range Dates within range					
From:		(yyyym	mdd)			
To:	To: (yyyymmdd)					
WHERE Zoom the map to desired area and choose "intersecting" or "fully within" You can zoom the map by shift-click-dragging a bounding box						
Anywhere Intersecting Fully within						
			4 4			
Arctic Ocean						
North Facific		h Atlantic Ocean		· y (*)		
-			-7	The same		
South Par Ocean	HARMAN AND AND AND AND AND AND AND AND AND A	South Atlantic Ocean	Indian Oce	an P		
•			Antarctic	esite		

SEARCH BROWSE

Results 1-100 of 3080 record(s) 1 2 3 4 5 > Last Expand results Zoom To Results Zoom To Searched Area 20030626-WSAT-REMSS-L2P GRIDDED 25-wsat 20030626v7vO1.nc.qz 20030627-WSAT-REMSS-L2P_GRIDDED_25-wsat_20030627v7vO1.nc.gz 20060217-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060217v7vO1.nc.gz 20060218-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060218v7vO1.nc.gz 20060219-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060219v7v01.nc.gz 20060220-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060220v7vO1.nc.gz 20060221-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060221v7vO1.nc.gz 20060222-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060222v7vO1.nc.gz 20060223-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060223v7vO1.nc.gz 3 20060224-WSAT-REMSS-L2P GRIDDED 25-wsat 20060224v7vO1.nc.gz 20060225-WSAT-REMSS-L2P_GRIDDED_25-wsat_20060225v7vO1.nc.gz

vO1.nc.az

20060226-WSAT-REMSS-L2P GRIDDED 25-wsat 20060226v7-



Major PO.DAAC Reconciliation Completed

 System more robust and less reliant on presence of XML files

GDS2 in Operations

- Just began archiving first two GDS2 datasets (NAVO VIIRS L2P and CMC L4 analysis)
- Lat/lon out of range warning emails

Browse/KML Graphics

Generated automatically

Automated Status Reporting

Still maintained every day

Project Goals

- To provide the longest, most accurate, and highest resolution consistentlyreprocessed SST climate data record (CDR) from the AVHRR sensor series
- 2. To serve as a fundamental input to GHRSST Reanalysis CDRs

Current Status

- 1. Version 5.2 GDS2 L3C available for 1981-2012. Still no errors or times.
- 2. TDS, FTP, HTTP, LAS, OPeNDAP, WCS, WMS, and Geoportal Server
- 3. Collection and granule discovery
- 4. 7-day climatology and gap-filled time series in CoRTAD v4, soon v5
- 5. Extensive pilot production in commercial and private clouds
- 6. DOI minted: <u>10.7289/V5WD3XHB</u>



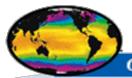
Looking Forward

- 1. Summer 2014: Daily, 5-day, 7-day, and monthly V5.2 averages and climatologies in GDS2 L3C/L4
- 2. End of 2014: V5.3 GDS2 L2P, L3U, L3C (many improvements, see notes)
- 3. 2014-2015: Version 6 GDS2 L2P, L3U, and L3C, with uncertainties and times, 2000-present

Deirdre Byrne and Ken Casey, NOAA NODC

NODC Issue or Concern	Comment
GDS2 Readiness	COMPLETE – now archiving GDS2!
PO.DAAC-NODC Reconciliation	COMPLETE – can track ongoing sync at http://www.nodc.noaa.gov/ SatelliteData/ghrsst/remaining.txt
Archive of ATSR-1, ATSR-2, AATSR L2P data from RAL	UPDATE – Last meeting we received confirmation NOT to archive these data. Can we get that in writing? (email ok, perhaps from the existing CEDA-NEODC Help Desk ticket?)
SST Climatologies in GDS2	UPDATE – Questions arose again this year on this topic, so still timely. We have them, what should we do with them? RDACs making them too?
GCOS SST Intercomparison site and common-input comparison study	Should we turn it off, rely just on LAS? Anyone going to complete the study?

NODC Issue or Concern	Comment
Growing volumes	No immediate concern, but changes could be coming. Would RDACs be open to deletion of older versions of data when newer ones exist in the archive? No analysis yet.
Digital Object Identifiers (DOI)	Ready to mint them for GHRSST collections. Need authorship list for each product. Need to coordinate if RDACs already have a DOI so we can cross-reference.
Direct receipt of data at NODC vs. existing GDAC channel (e.g., new ATSR series reprocessing)	How to maintain comprehensive catalog?
30-day delay too long. Could we shorten or perhaps mirror?	Would like to explore possibilities for sake of user experience.



Sir Arthur G. Doughty

GHRSST Long Term Stewardship and Reanalysis Facility



"Of all national assets, archives are the most precious; they are the gift of one generation to another and the extent of our care of them marks the extent of our civilization."

- **9** 1860-1936
- Dominion Archivist, Canada