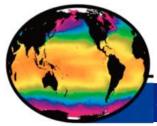


Sheekela Baker-Yeboah^{1,2}, Kenneth S. Casey², Viva Banzon²

¹University of Maryland, ²NOAA National Centers for Environmental Information

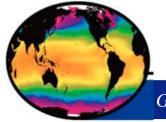
June 6, 2016



GHRSST Climate Data Record Technical Advisory Group

Updates on

- PFSST
- OISST
- In Situ Data Bases





GHRSST Climate Data Record Technical Advisory Group

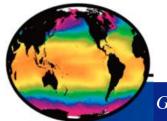
Project Goals

- To provide the longest (>32 years), most accurate, and highest resolution consistently-reprocessed SST climate data record (CDR) from the AVHRR sensor series
- 2. To serve as a fundamental input to GHRSST Reanalysis CDRs

Current Status

- Version 5.3 GDS2 for L2P, L3U, and L3C generated using AWS,1981-2014
- 2. WS 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 v5 on PFV5.2
- 5. PFV5.2 DOI minted: 10.7289/V5WD3XHB



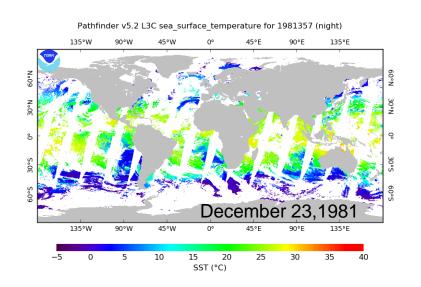


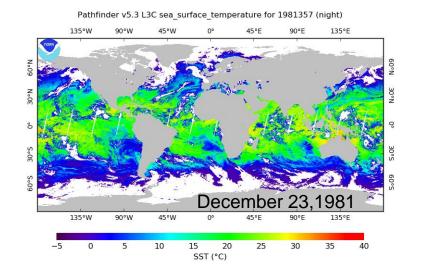


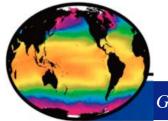
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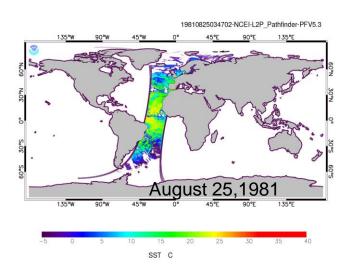


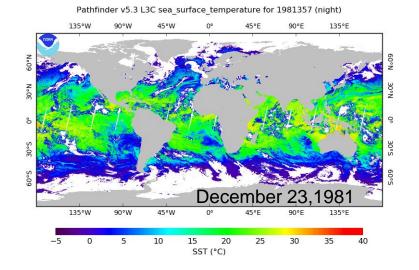


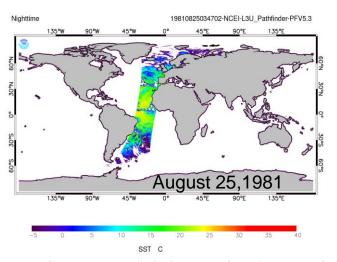
GHRSST Climate Data Record Technical Advisory Group

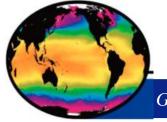
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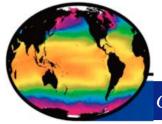
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Looking Forward

- July 30, 2016: V5.3 GDS2 L3C, L3U,
 L2P (see posters); DOI to be minted
- 2. Jan 2017: Quarterly updates of V5.3 to be released
- 3. Dec 2017: Version 6 GDS2 L2P, L3U, and L3C, with uncertainties and times, 1981-2016
- 4. CoRTAD v6 with PFV5.3 in May 2017
- 5. Binner SeaDAS update to be resolved.



Daily 1/4° OISST v2

GHRSST Climate Data Record Technical Advisory Group

Project Goals

- 1. To continue daily updates to ~34 yr record in a sustainable manner, that meets the requirements of the NOAA Climate Data Records Program
- 2. 2.To increase interactions with climate i

Current Status

- Refactoring of legacy code and migration to 64-bit machine ongoing
- 2. 30-year (1982-2011) climatology available
- 3. Paper describing version 2 published (previously an online pdf)
- 4. Period of record now available in GDS2.0 at PO.DAAC
- 5. AVHRR+AMSR remains on hold

Relevant Graphic

CMIP SST projections (2071-2100) are at very coarse resolution

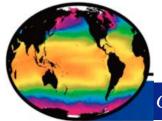
Projections can be normalized

...provides an anchor to present and allow finer resolution assessment

Looking Forward

- Evaluate new Pathfinder and ACSPO for eventual reprocessing
- More consolidation among NCEI products

Viva Banzon, NOAA NCEI



ERSST Version 4

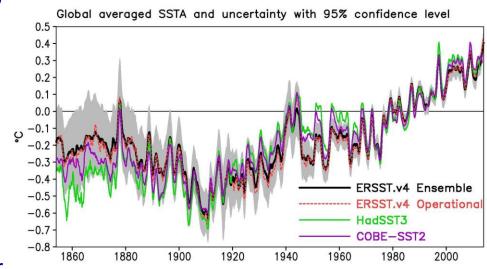
GHRSST Climate Data Record Technical Advisory Group

Project Goals

- 1. Provide monthly SST analyses from 1880 to present on a 2°x2° spatial grids.
- Merge SST and land surface air temperatures to produce global surface temperature.

Current Status

- Maintaining operational ERSST v3b and v4.
- 2. Maintaining operational SST uncertainty for ERSSTv4.
- 3. Providing SST to NOAAGlobalTemp v4 merged with GHCN v3.3.0.
- 4. ERSST development including updated seaice concentration, ICOADS Release 3, and Argo temperature observations above 5m.



Looking Forward

1. ERSSTv5 release targeting later 2017.

Boyin Huang, NOAA/NCEI

GHRSST Climate Data Record Technical Advisory Group

RDAC Update: NOAA/NESDIS/NCEI