# Scientific Stewardship of VIIRS Ocean Satellite Data

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# NOAA NESDIS National Centers for Environmental Information (NCEI)

- **Previously known NODC is NCEI-MD**
- Provides scientific stewardship of remotely sensed oceanographic data.
- Develops satellite data products and provides authoritative records.

# NCEI Data Stewardship Tiers

**Data Stewardship Tiers (T1-T6) are continuous from bottom to top.**

**1: Long Term preservation and Basic Access**

- Preserve original data with metadata for discovery and access
- Serve as expert advisors on standards for data providers
- Archive only necessary data using appropriate retention schedules
- Safeguard data over its entire life-cycle
- Coordinate support agreements for sustainable data archiving
- Provide data citation services by mining DOIs

# NCEI Data Stewardship of VIIRS Ocean Satellite Data

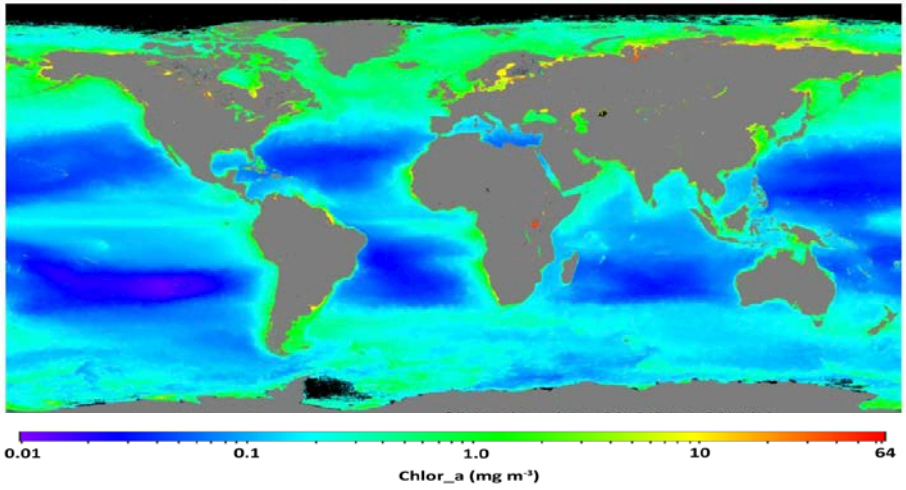
T1 Archive for

- VIIRS Ocean Color Reprocessed and
- VIIRS Sea Surface Temperature (derived using NOAA heritage Advanced Clear-Sky Processor for Oceans)

products from STAR and ASPO.

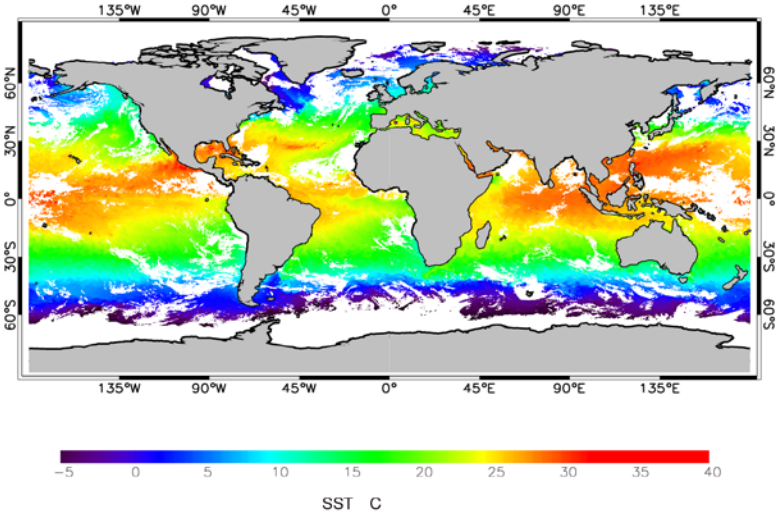
In Progress

Figure 1. VIIRS Ocean Color Reprocessed




In Archive

Figure 2. VIIRS ACSPO SST



# Data Access & Discovery

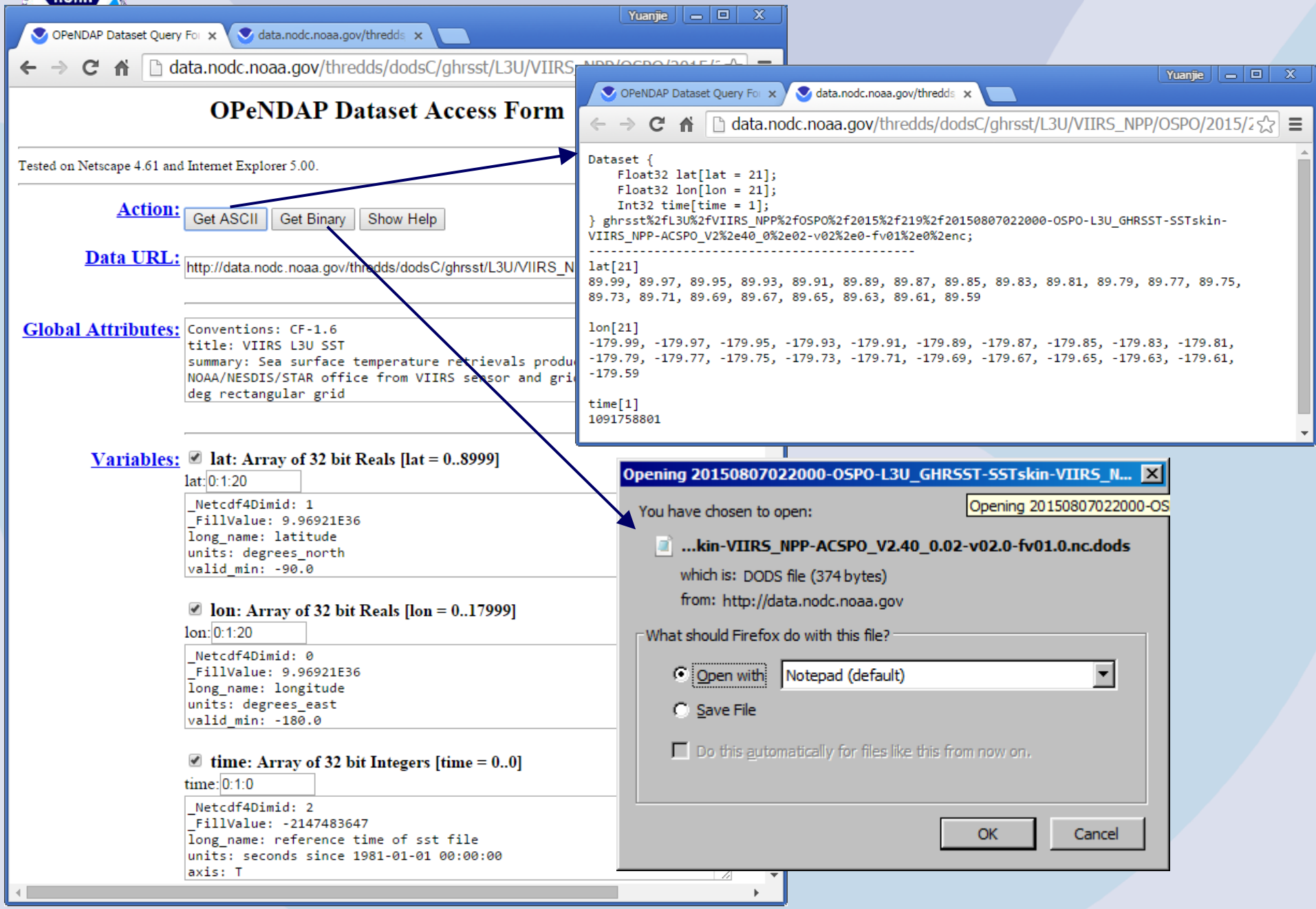
At both collection level and granule level via HTTP, FTP, Live Access Server, THREDDS server, OPeNDAP server, and OGC services.




Link to the granule discovery/access



# Example: Using OPeNDAP to extract a subset of data



# ACSPO Data in the NCEI Archive

**ACSPO Version 2.3**

http://data.nodc.noaa.gov/geoportal/rest/find/document?searchText=title%3AGHRSST%20AND%20ACSPO&start=1&max=25&f=searchPage&expandResults=True

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- L2P: 2014/7/24 to 2015/5/19 archived
- Ongoing work
- backfilling of some of the dataset still missing.

**ACSPO Version 2.4**

- http://data.nodc.noaa.gov/cgi-bin/iso?id=gov.noaa.nodc:GHRSST-VIIRS_NPP-OSPO-L3U-v2.4
- L3U : 2015/06/29 to 2015/08/17 archived
- Ongoing work
  - downloaded from the GHRSST GDAC (JPL PoDAAC),
  - granules are accessible http://www.nodc.noaa.gov/geoportal/rest/find/document?searchText=fileIdentifier%3AGHRSST-VIIRS_NPP-OSPO-L3U*%20OR%20fileIdentifier%3AVIIRS_NPP-OSPO-L3U*&start=1&max=1

# Summary

The satellite oceanography team provides a stewarded archive of remotely sensed oceanographic data.

- **Scientific data stewardship**
  - Consists of the application of an integrated suite of functions designed to preserve and exploit the full scientific value of
  - environmental data and information over the long-term (decades).
  - Acquire, archive, provide access, and add value!




**FTP Link**

ftp://ftp.nodc.noaa.gov/pub/data.nodc/ghrsst/L2P/VIIRS_NPP/OSPO

**DOI URL**

http://dx.doi.org/10.7289/V5PR7SX5