National Aeronautics and Space Administration

Advancing data discovery and services in support of the GHRSST community
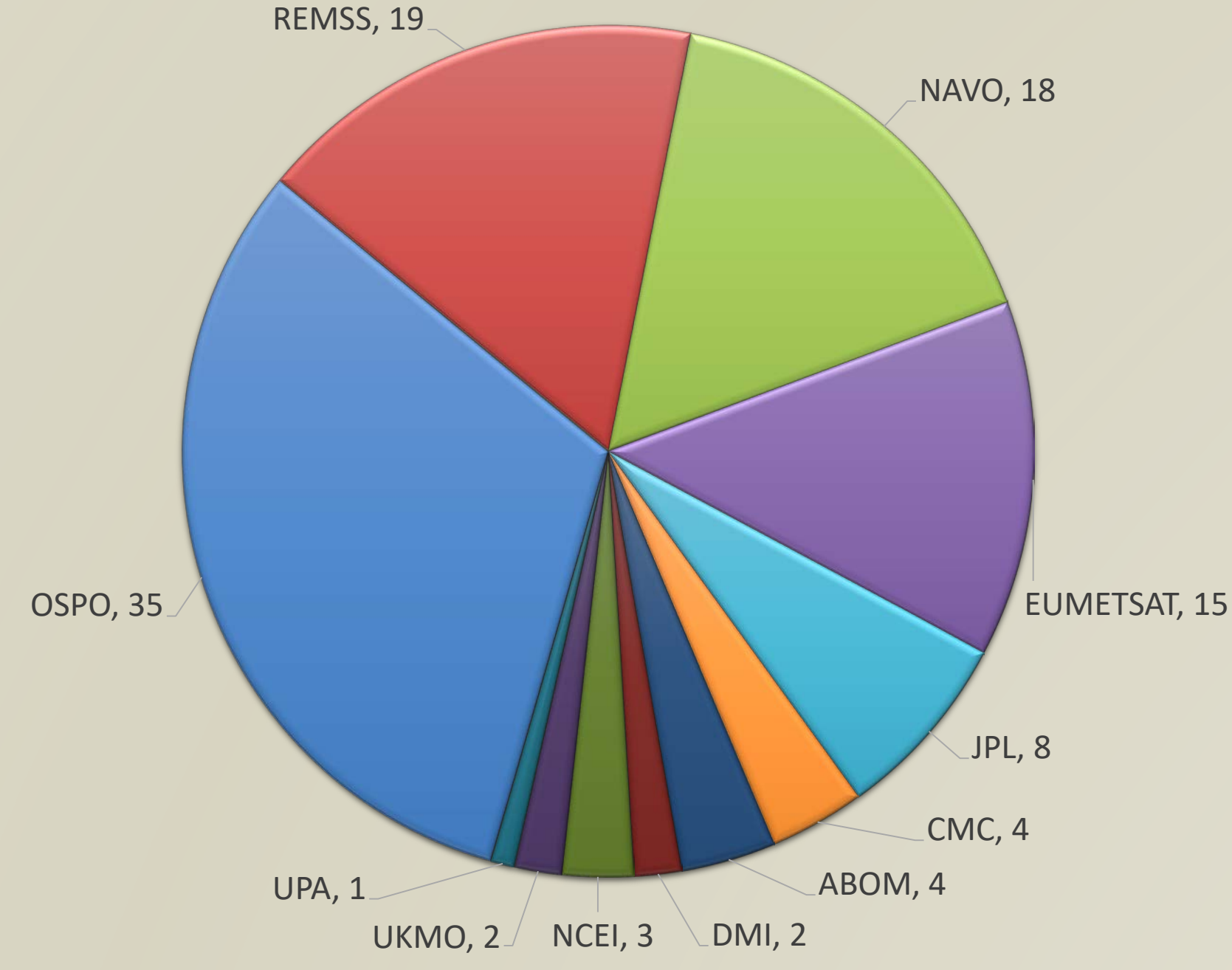
Wen-Hao Li*, Edward M. Armstrong**, and Jorge Vazquez**

* Raytheon Co, Pasadena, 300 N Lake Ave. Pasadena, CA 91101, Email: wen-hao.li@jpl.nasa.gov.

**NASA Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Dr., Pasadena, CA 91109, USA

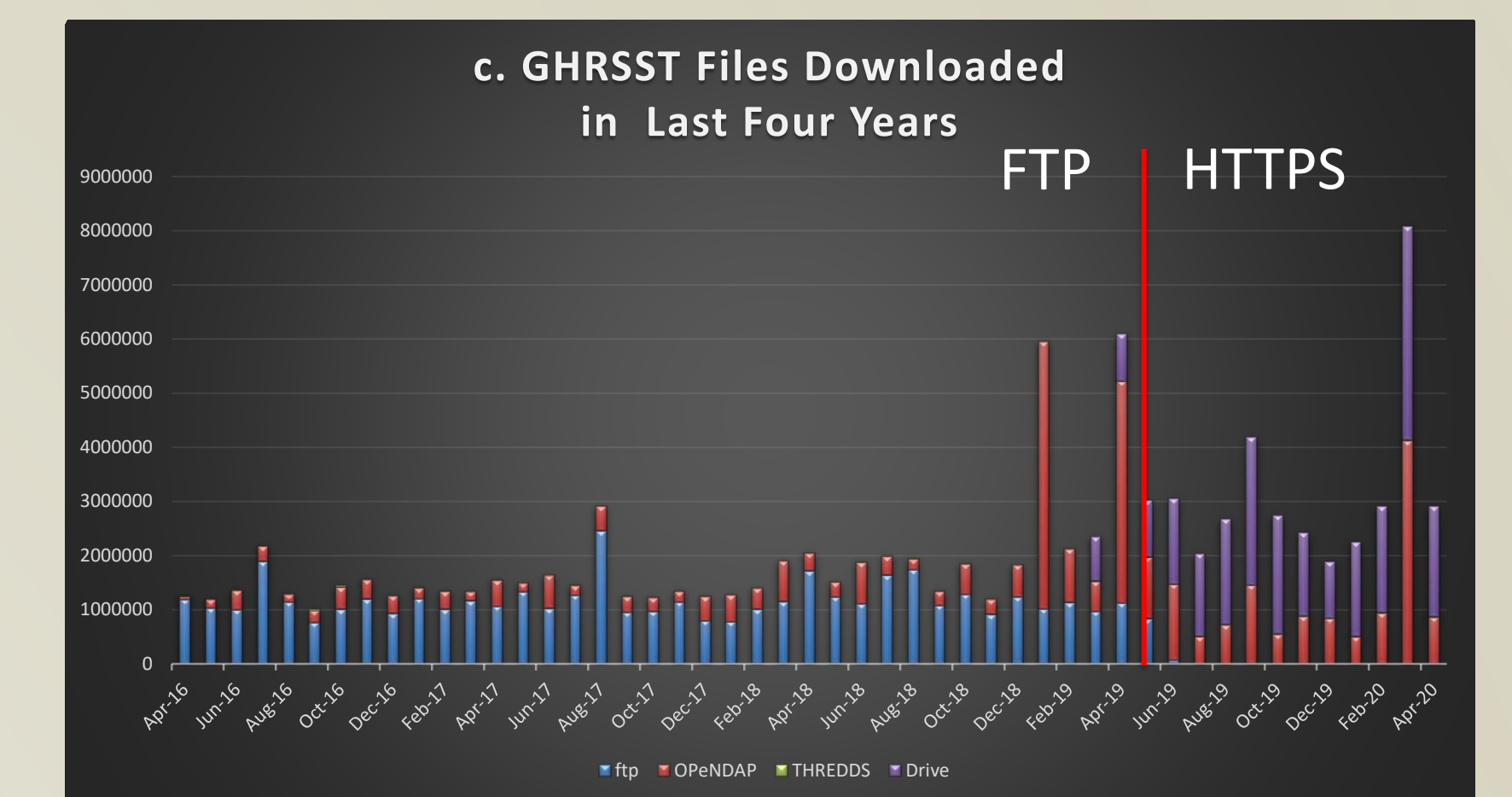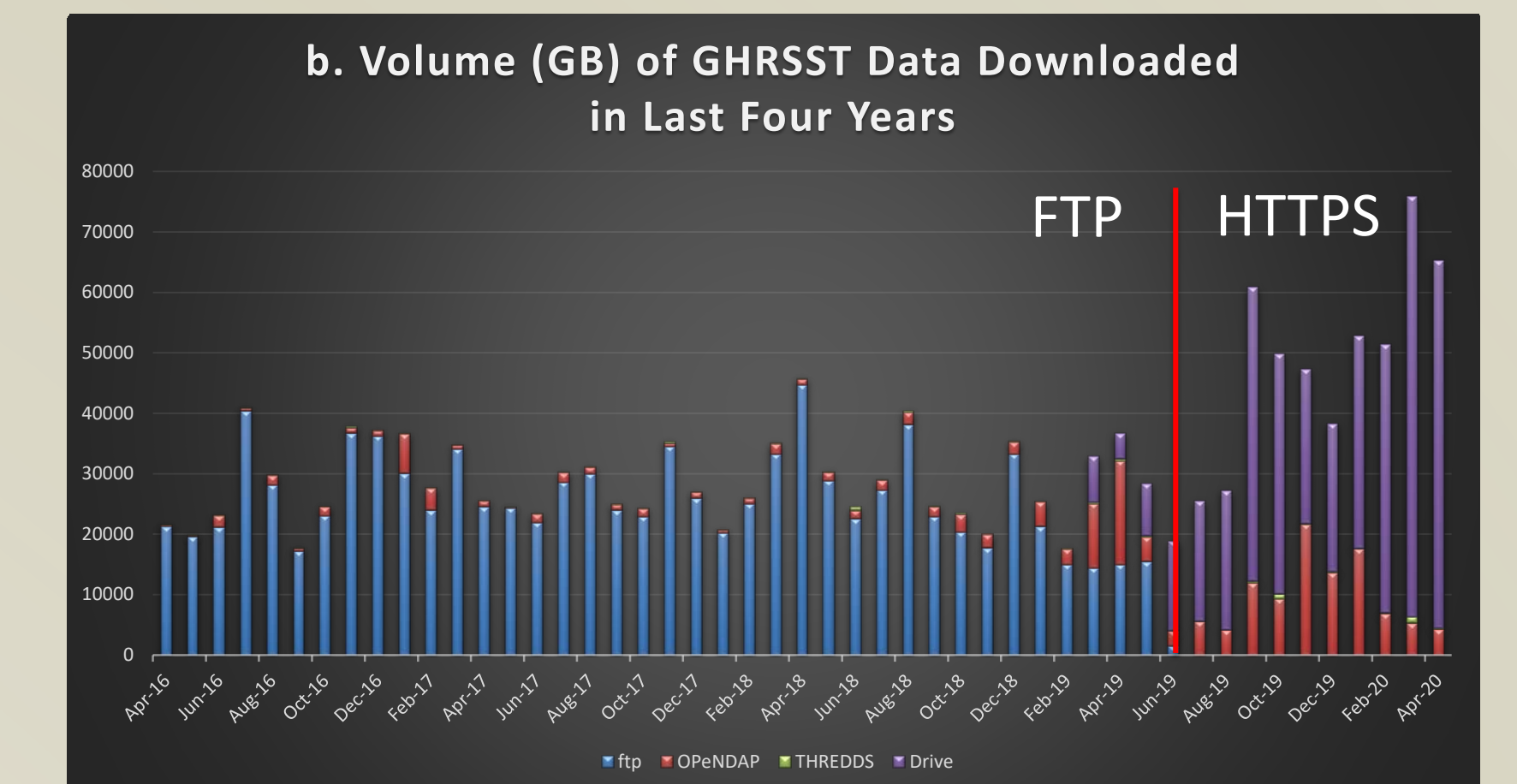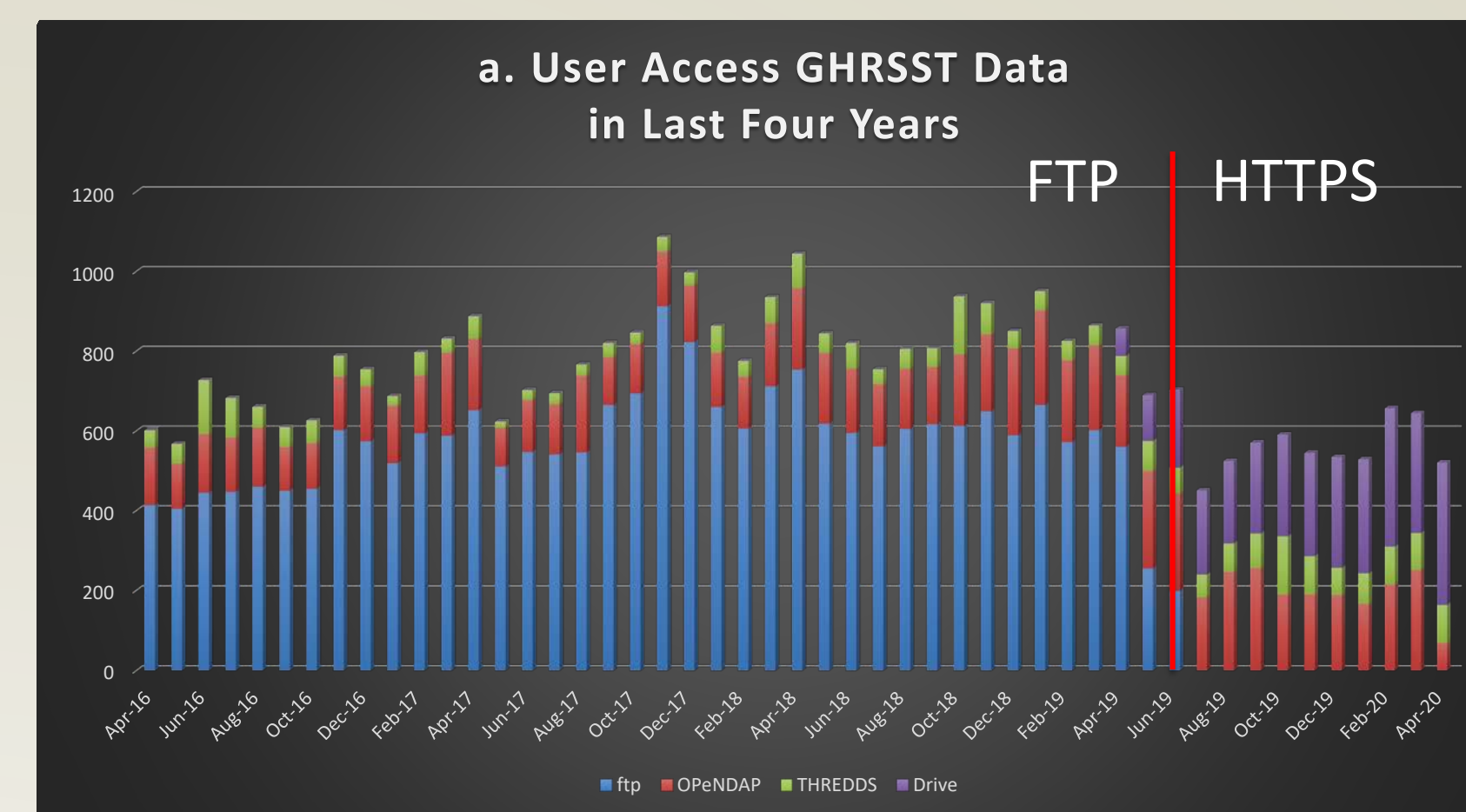## GHRSST Dataset Archiving and Distribution

GHRSST Datasets Archived at GDAC (PO.DAAC)

REMSS, 19
NAVO, 18
EUMETSAT, 15
JPL, 8
CMC, 4
ABOM, 4
DMI, 2
NCEI, 3
UKMO, 2
UPA, 1
OSPO, 35

- Currently archived at GDAC (PO.DAAC)
  - Datasets from 11 RDACs
  - Total 106 GHRSST datasets are active
- Newly archived datasets (June 2019 – May 2020)
  1. RAMSSA_09km-ABOM-L4-AUS-v01
  2. GAMSSA_28km-ABOM-L4-GLOB-v01
  3. MUR-JPL-L4-GLOB-v4.1 (add sst_anomaly)
  4. MUR25-JPL-L4-GLOB-v04.2
  5. VIIRS_NPP-JPL-L2P-v2016.2
  6. MODIS_A-JPL-L2P-v2019.0
  7. MODIS_T-JPL-L2P-v2019.0
  8. AVHRR_OI-NCEI-L4-GLOB-v2.1
  9. ABI_G17-STAR-L2P-v2.71
  10. AHI_H08-STAR-L2P-v2.70
  11. ABI_G17-STAR-L3C-v2.71
  12. AHI_H08-STAR-L3C-v2.70
- 13 REMSS and NOAA datasets were retired

GHRSST User Matrix

Since June 2019, FTP to HTTPS (Drive) switch has made signification impact to data usage. User Access (a) tracking has been more refined, but the downloaded data Volume (b) and Files (c) have increased dramatically, indicating getting data more efficiently
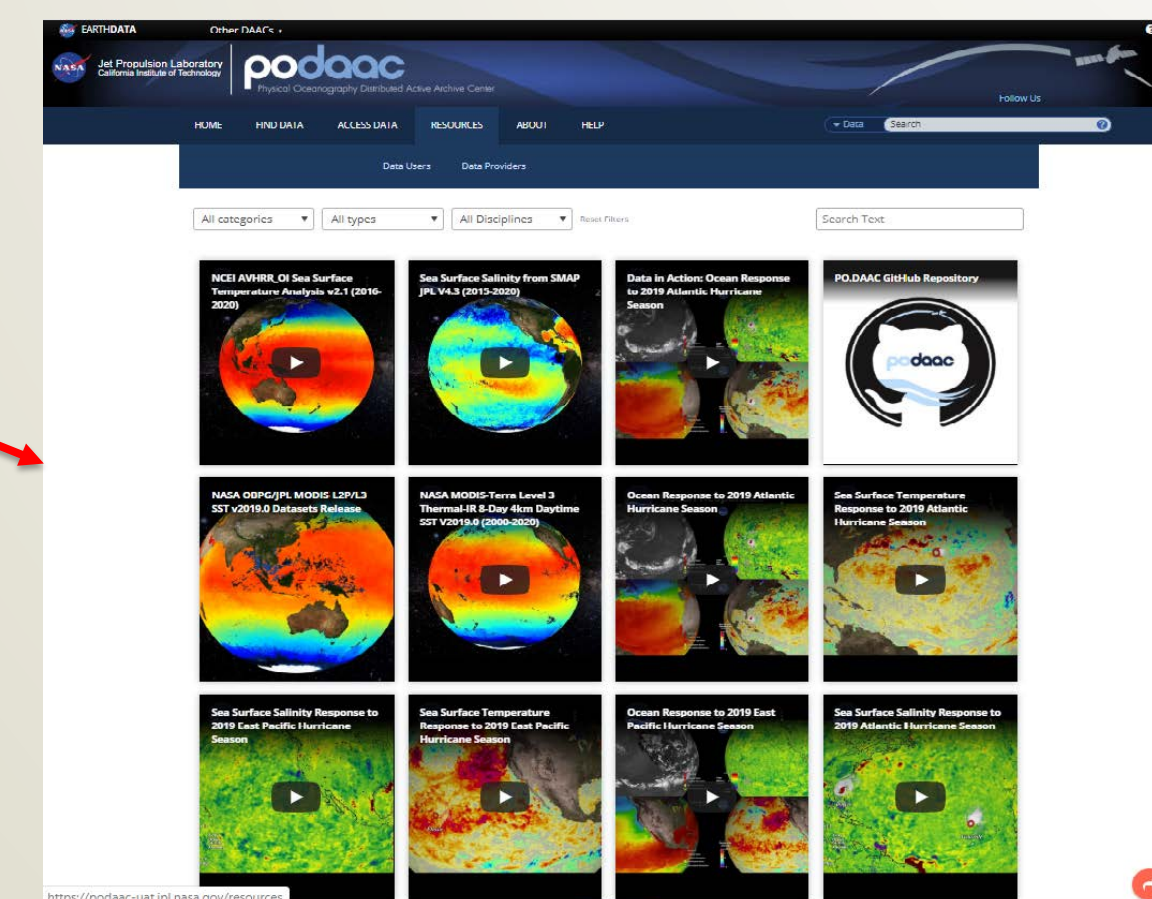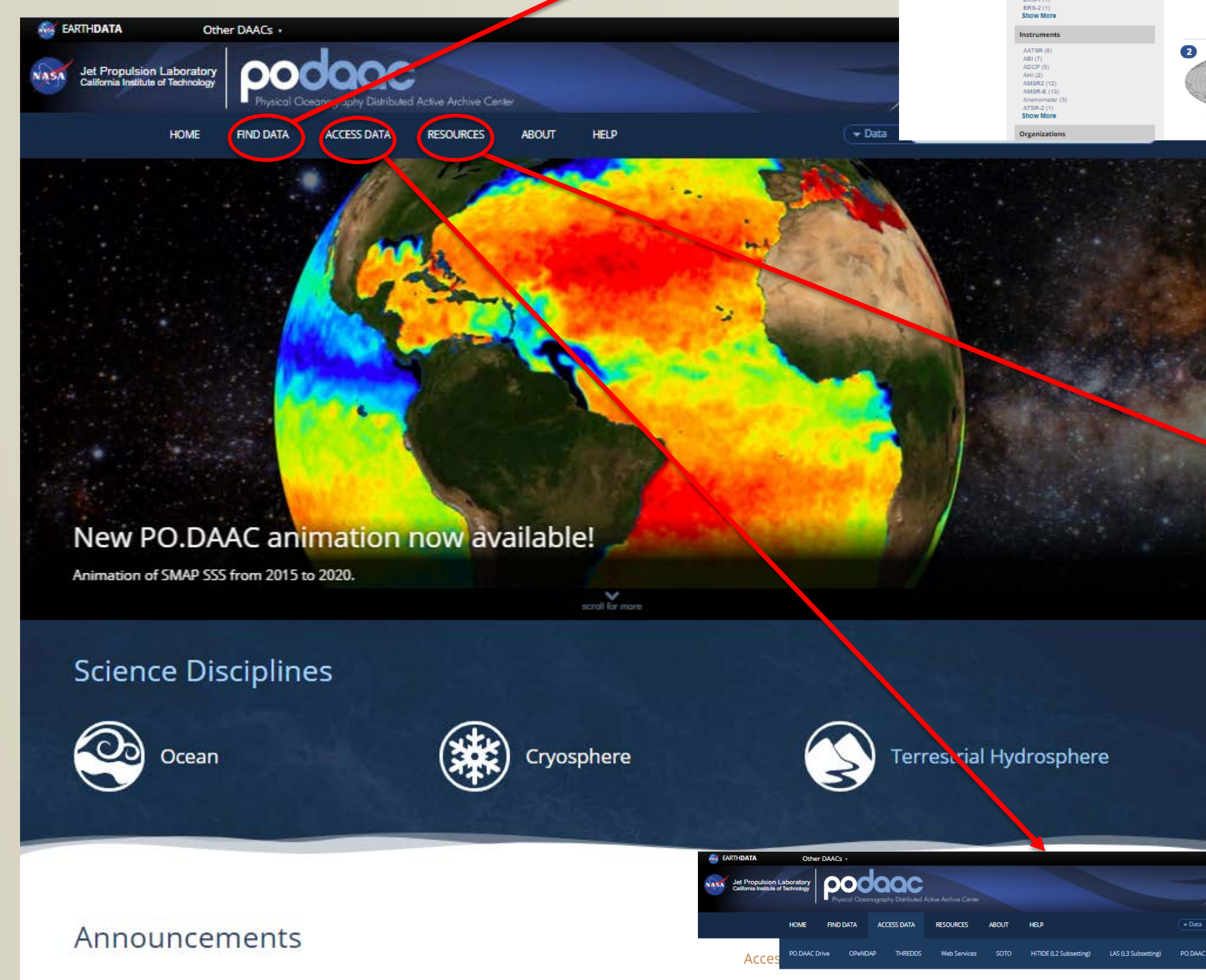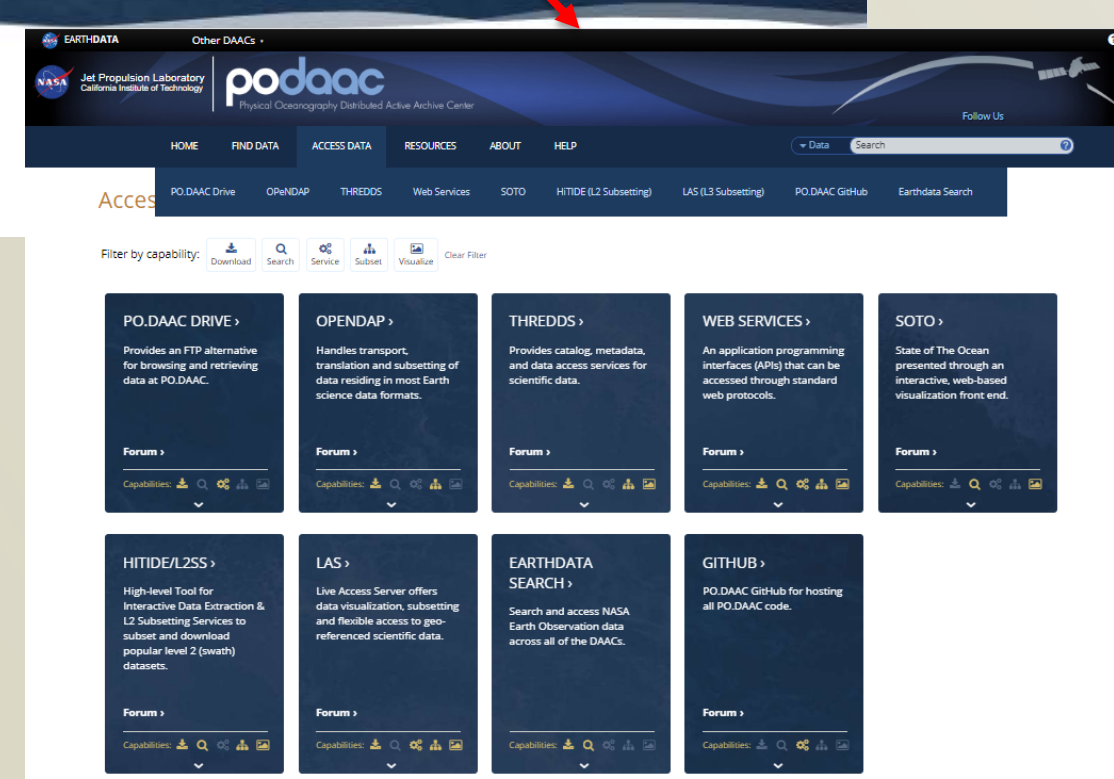

b. Volume (GB) of GHRSST Data Downloaded in Last Four Years

a. User Access GHRSST Data in Last Four Years

c. GHRSST Files Downloaded in Last Four Years

PO.DAAC Web Portal Revitalization

- Web Portal Revitalization with Simplified, modernized design and content center User Experience

New PO.DAAC animation now available!
Animation of SMAP SSS from 2015 to 2020.

Science Disciplines: Ocean, Cryosphere, Terrestrial Hydrosphere

Announcements

- **Find Data**** provides Quick and easy Data discovery, Organized by science discipline

- New Data Access page featuring tools and service filterable by capacity

- Data Resources Page with dynamic filtering by category, type, and science discipline

** PO.DAAC search will integrate the NASA CMR data search engine soon.
Many more cool features, please visit PO.DAAC website at https://podaac.jpl.nasa.gov/

Data citation metrics
Tracking the data usage in research publications
(currently collecting from 2015 to 2019)

Publications citing GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1)
Citation metrics available for years (2015-2019)

GHRSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1)
SHARE THIS PAGE
https://podaac.jpl.nasa.gov/dataset/MUR-JPL-L4-GLOB-v4.1

31 Publications Cited this Dataset >>
Citation metrics available for years (2015-2019)

Please contact us if there are any discrepancies or inaccuracies found below.

Information | Data Access | Documentation | Citation | Granule (File) Listing

DOI: 10.5067/GHGMR-4FJ04
Short Name: MUR-JPL-L4-GLOB-v4.1
Description: A Group for High Resolution Sea Surface Temperature (GHRSST) Level 4 sea surface temperature analysis produced as a retrospective dataset (four day latency) and near-real-time dataset (one day latency) at the JPL Physical Oceanography DAAC using wavelets as basis functions in an...

Group for High Resolution Sea Surface Temperature (GHRSST)

216 Publications Cited Dataset from this mission
Citation metrics available for years (2015-2019)

Data citation tied to each dataset   Data citation for all GHRSST data

PO.DAAC Drive
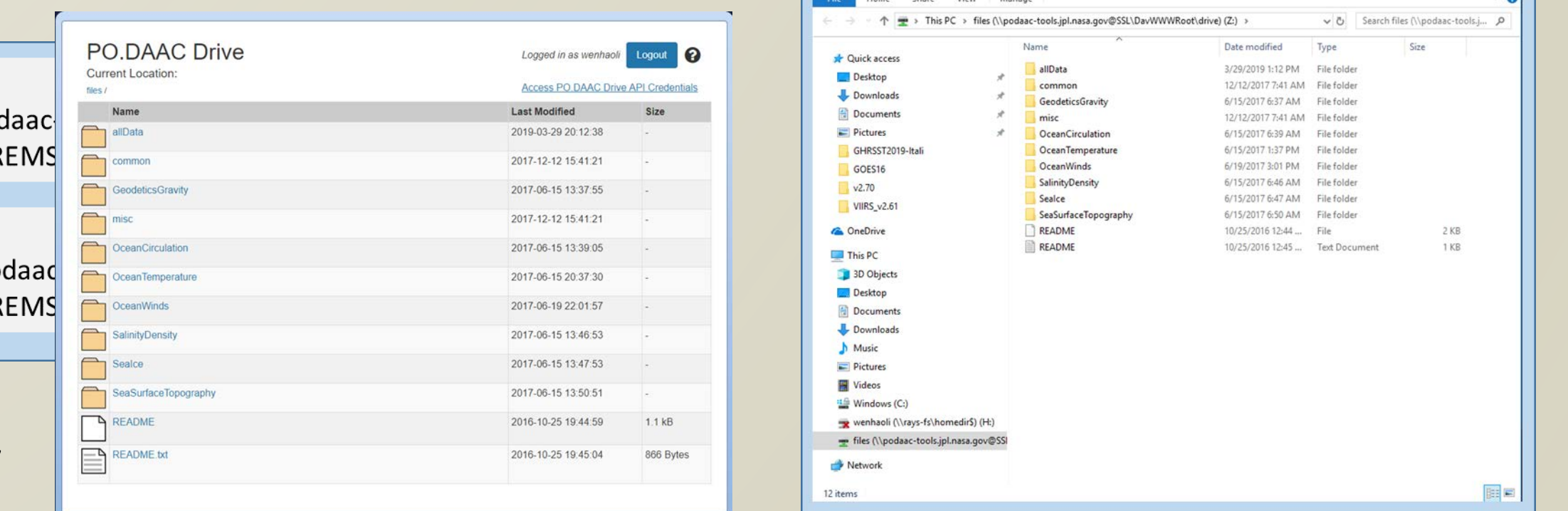### Playing a big role in Data Access and Download

1. Execute wget and curl commands

```
# To download one-day GHRSST Data Files
wget --user=LOGIN --password=PASSWORD -r -nc -np -nH -d -A "*.nc" "https://podaac-tools.jpl.nasa.gov/drive/files/OceanTemperature/ghrsst/data/GDS2/L2P/AMSRE/REMS...

# To download one year data files and create sub-directory
wget --user=LOGIN --password=PASSWORD -r -nc -np -nH -d -A "*.nc" "https://podaac-tools.jpl.nasa.gov/drive/files/OceanTemperature/ghrsst/data/GDS2/L2P/AMSRE/REMS...
```


2. Browse data directly

3. Mount to local drive

Drive URL: https://podaac-tools.jpl.nasa.gov/drive/

Coming soon: Services and tools enhancements and updates

Analysis capability in SOTO version 5
https://podaac-tools.jpl.nasa.gov/soto/

All GHRSST Level-2 data In HiTIDE Tool
https://podaac-tools.jpl.nasa.gov/hitide/

Enhancing Web Service RESTful APIs
https://podaac.jpl.nasa.gov/ws

Data Recipes on PO.DAAC Forum and GitHub
https://podaac.jpl.nasa.gov/forum/