Land Processes Distributed Active Archive Center (LP DAAC)

LP DAAC Updates - ECOSTRESS

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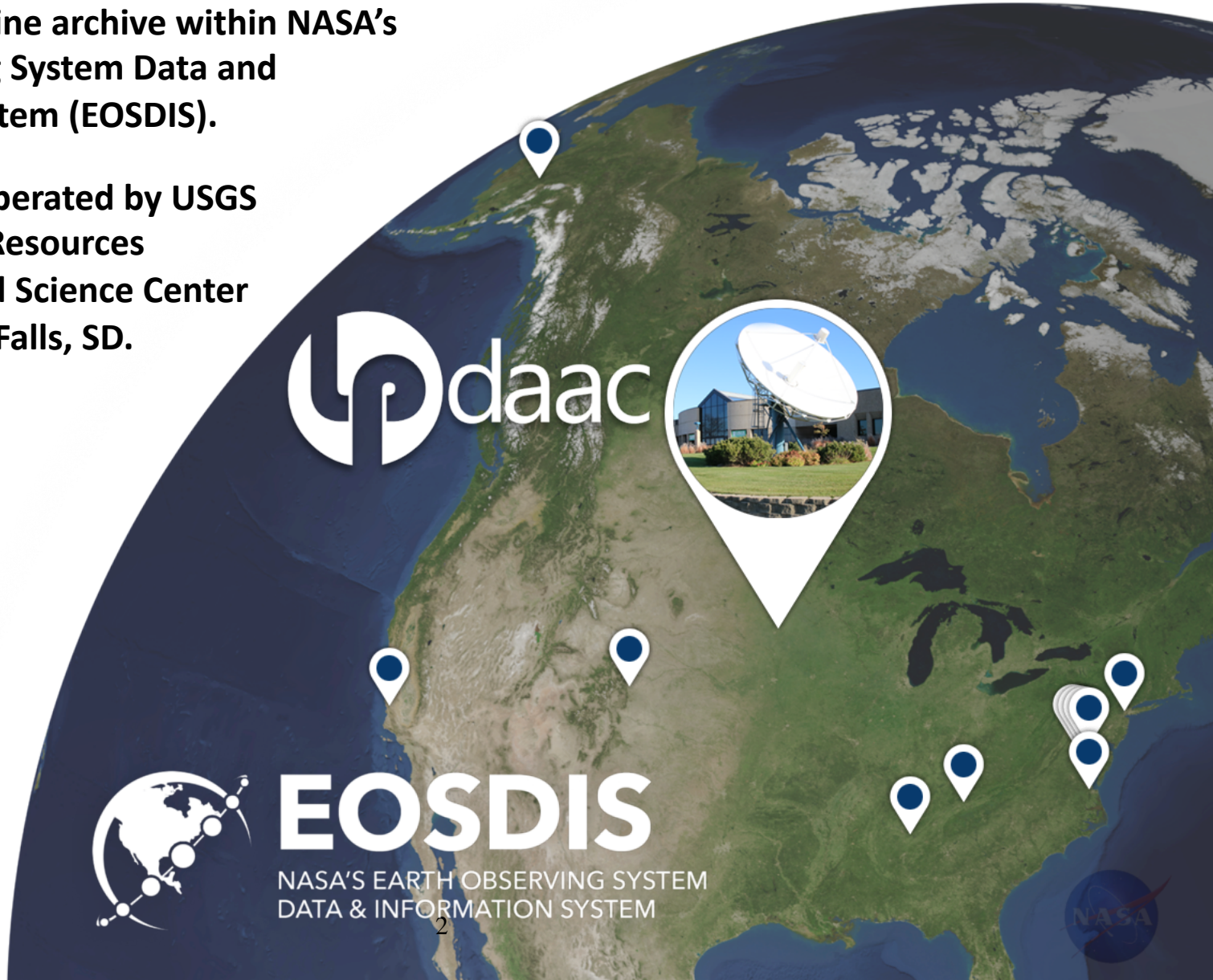
What is the LP DAAC?

The land discipline archive within NASA's Earth Observing System Data and Information System (EOSDIS).

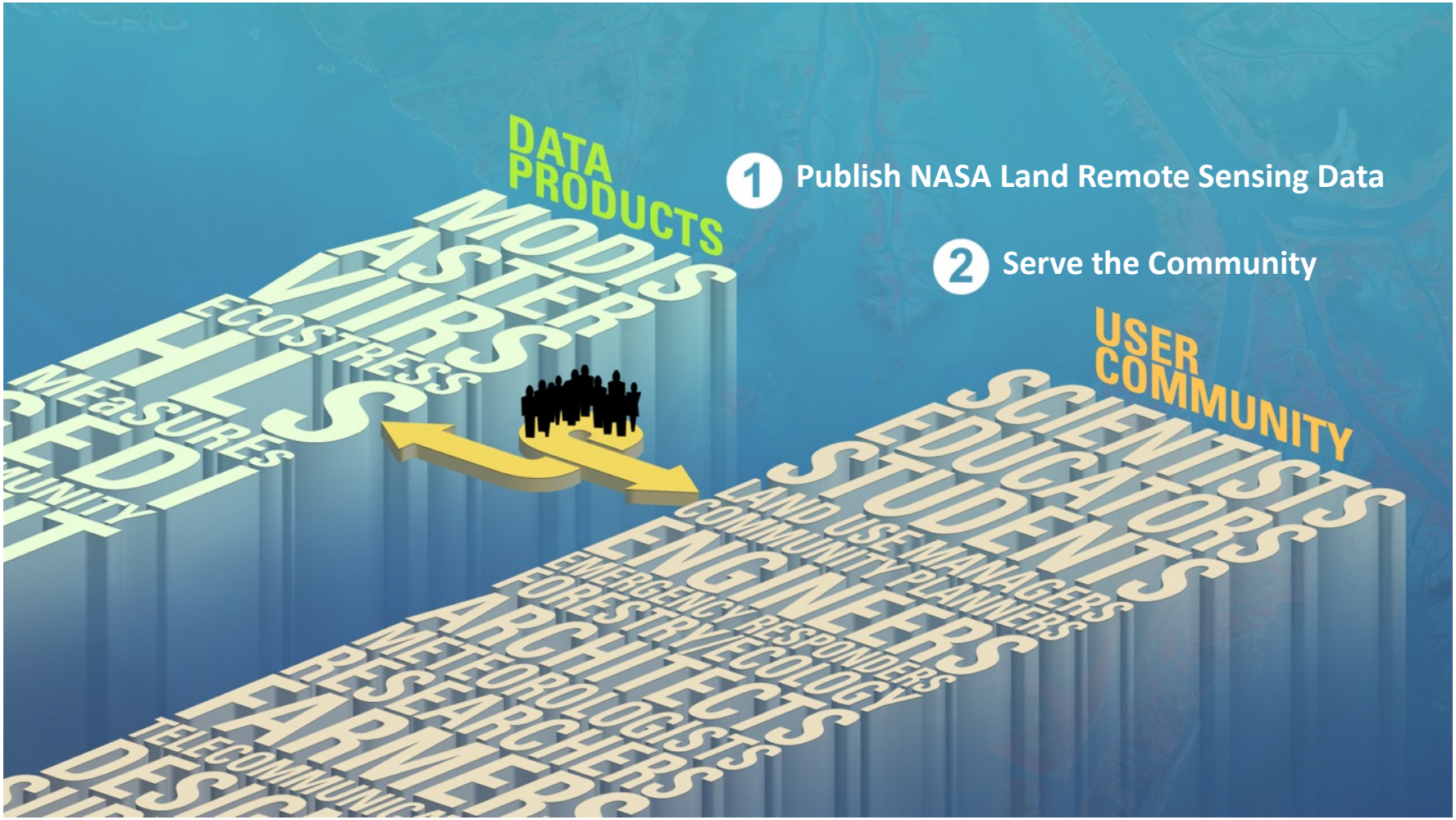
Managed and operated by USGS from the Earth Resources Observation and Science Center (EROS) in Sioux Falls, SD.

The NASA – USGS Interagency Agreement was first established in 1990.



USGS

What Does the LP DAAC Do?



Updates

- LP DAAC is migrating its holdings to NASA Earthdata Cloud
  - Intent - everything by FY24, then deprecate on-prem system
  - ECOSTRESS Collection 2 (aka Build 7) will be made available in the cloud
  - Standard services will be retained (e.g., Earthdata Search)
  - But, new opportunities to do “analysis-in-place” across the DAACs data lake
- LP DAAC is also taking AppEEARS to the cloud
  - Anticipated to be in cloud (hybrid) operations Spring 2022
  - Integration of ECOSTRESS C2 will be a high priority, but timing TBD
    - MODIS v6.1, VIIRS v2, HLS v2, GEDI, Landsat ARD C2, others…
- Terra and Aqua drifting toward end of mission 2025-26
- EMIT (JPL imaging spectroscopy) launch to ISS next Spring

ECOSTRESS Demand (Inception thru July 2021)

~ 3.7 PB of science data accessed / distributed

~ 5.7 M science files accessed / distributed

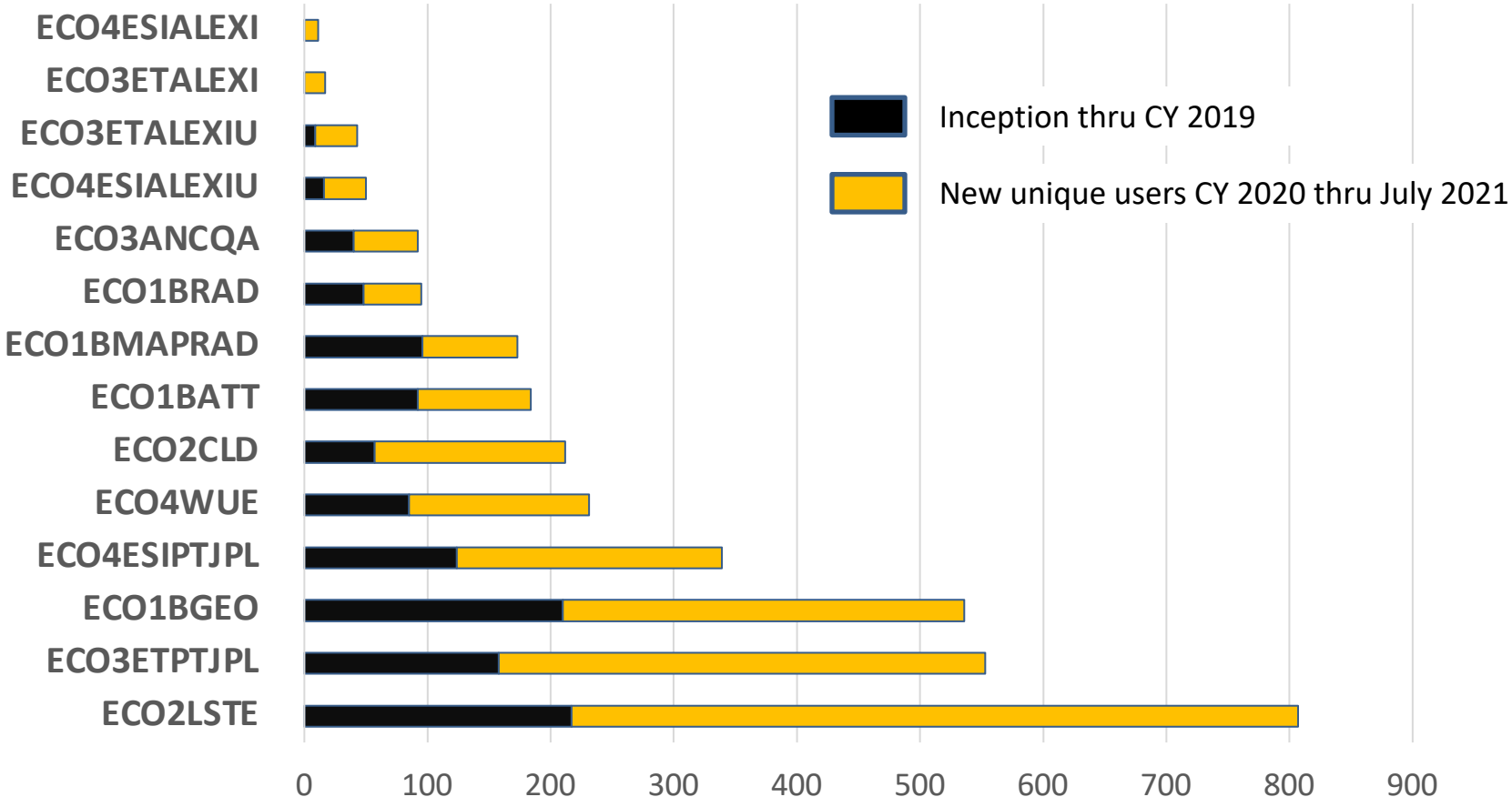
L1 release – March 2019

L2-4 release – June 2019

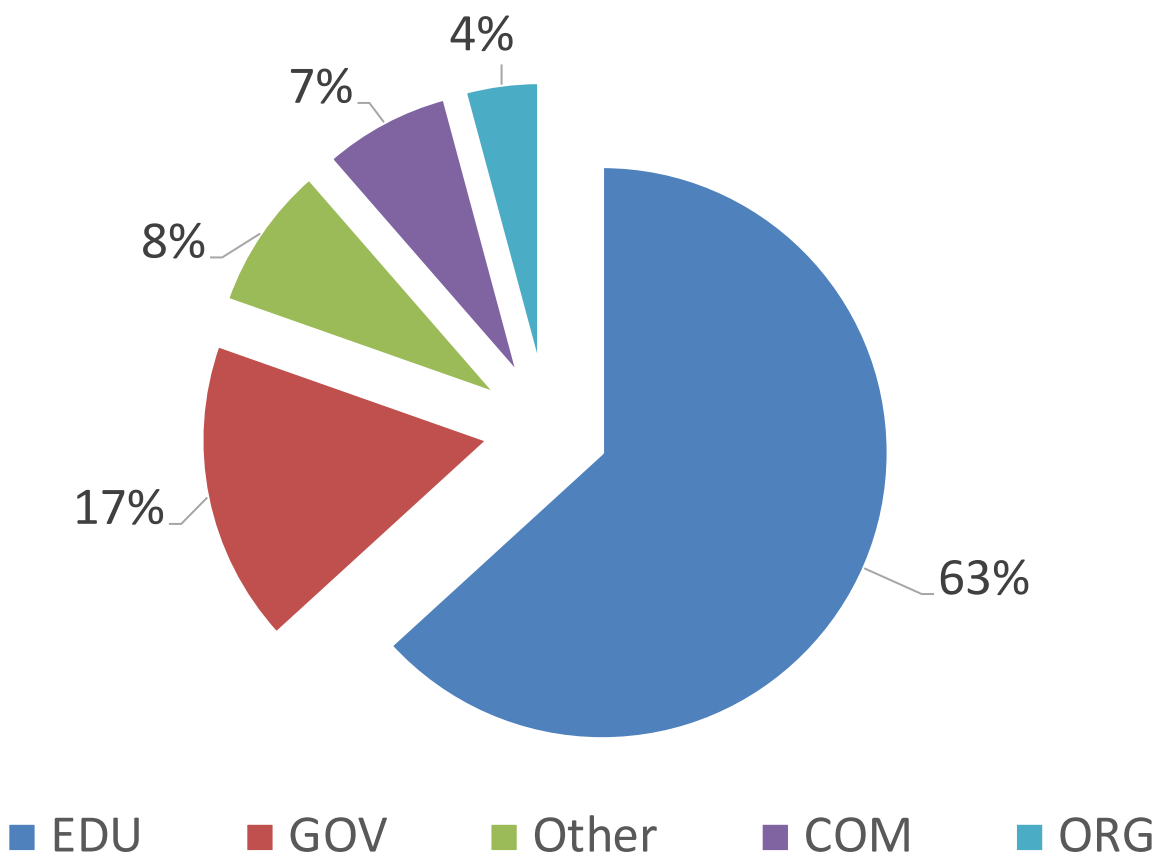
ET&ESI ALEXIU (30m at flux sites) release – Aug 2019

ET&ESI ALEXI (70m CONUS) release – June 2021

Unique Users by ECOSTRESS Product

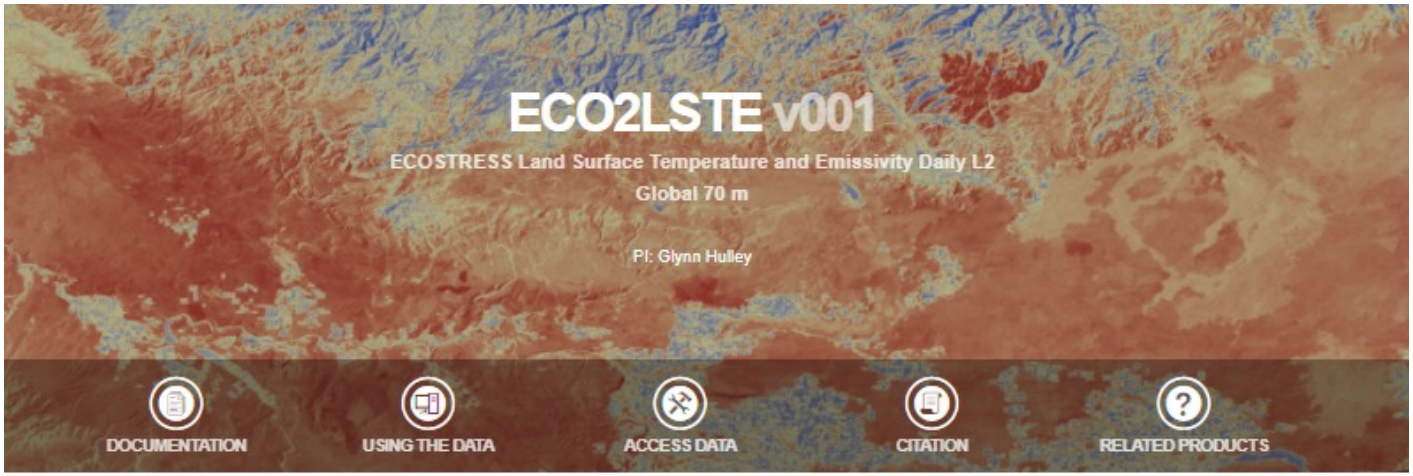


Percentage of Users by Affiliation



LP DAAC Web Site

Dataset Landing Pages



Homepage / Data / Search Data Catalog / ECO2LSTEv001

Description

The ECOsystem Spaceborne Thermal Radiometer Experiment on
much water plants need and how they respond to stress. ECOSTR
United States (CONUS) as well as key biomes and agricultural zo
be found on the ECOSTRESS website

The ECO2LSTE Version 1 data product provides atmospherically
(TIR) bands. The ECO2LSTE data product was derived using a ph
swath data and has a spatial resolution of 70 meters (m). The corr

The ECO2LSTE Version 1 data product contains layers of LST, en
through 5, wideband emissivity, and Precipitable Water Vapor (PWV). For acquisitions after May 15, 2019, data products contain data values for TIR bands 2, 4 and 5 only. TIR bands 1 and 3 contain fill values to accommodate direct streaming of data from the ISS as mentioned in the Known Issues section.

Characteristics

Citation

DOI: 10.5067/ECOSTRESS/ECO2LSTE.001

APA

Copy Citation

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