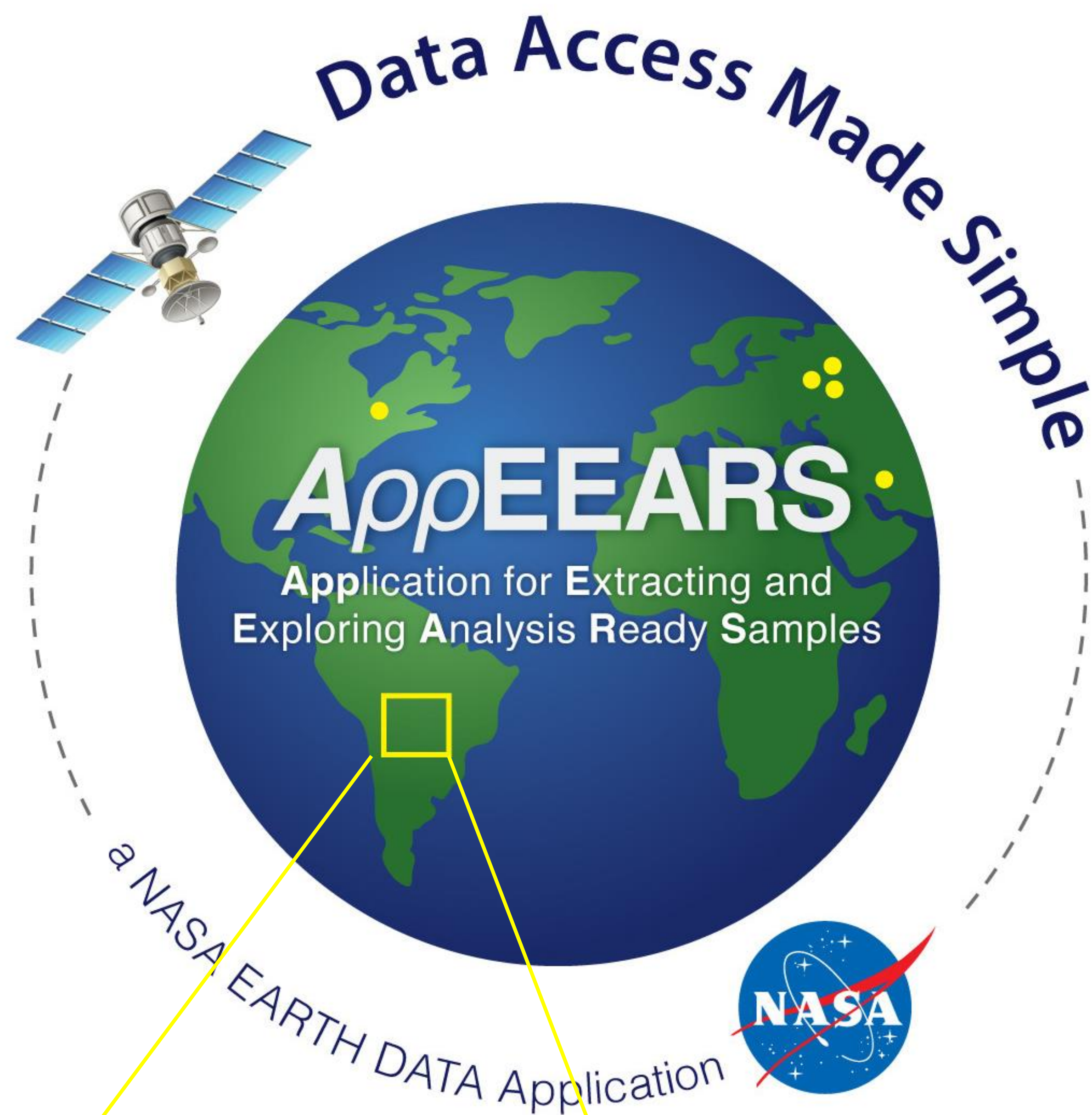


AppEEARS: NASA's Application for Extracting and Exploring Analysis Ready Data Samples

Brianna Lind¹, Erik Bolch¹, Aaron Friesz¹, Mahsa Jami¹

¹KBR, contractor to the U.S. Geological Survey (USGS) Earth Resources Observation and Science (EROS) Center, Sioux Falls, SD 57198, USA. Work performed under USGS Contract 140G0121D0001, blind@contractor.usgs.gov, lpdaac@usgs.gov

Overview



Spectral Reflectance	Temperature	Water Bodies
Snow Cover	Snow Water Equivalent	Evaporative Stress
Evapotranspiration	Fire	Freeze Thaw Date
Precipitation	Emissivity	Water Balance
Vegetation Phenology	Vegetation Indices	Water Use Efficiency
Landcover	Human Population	Soil Moisture
Albedo	Vapor Pressure	Elevation

AppEEARS is a fast and easy-to-use web application for acquiring, processing, and visualizing geospatial data products that lets anyone access 100s of Earth observing remote sensing data products across a range of spatial and temporal scales.

AppEEARS Website



AppEEARS Product List



AppEEARS API Info



AppEEARS GitHub Resources



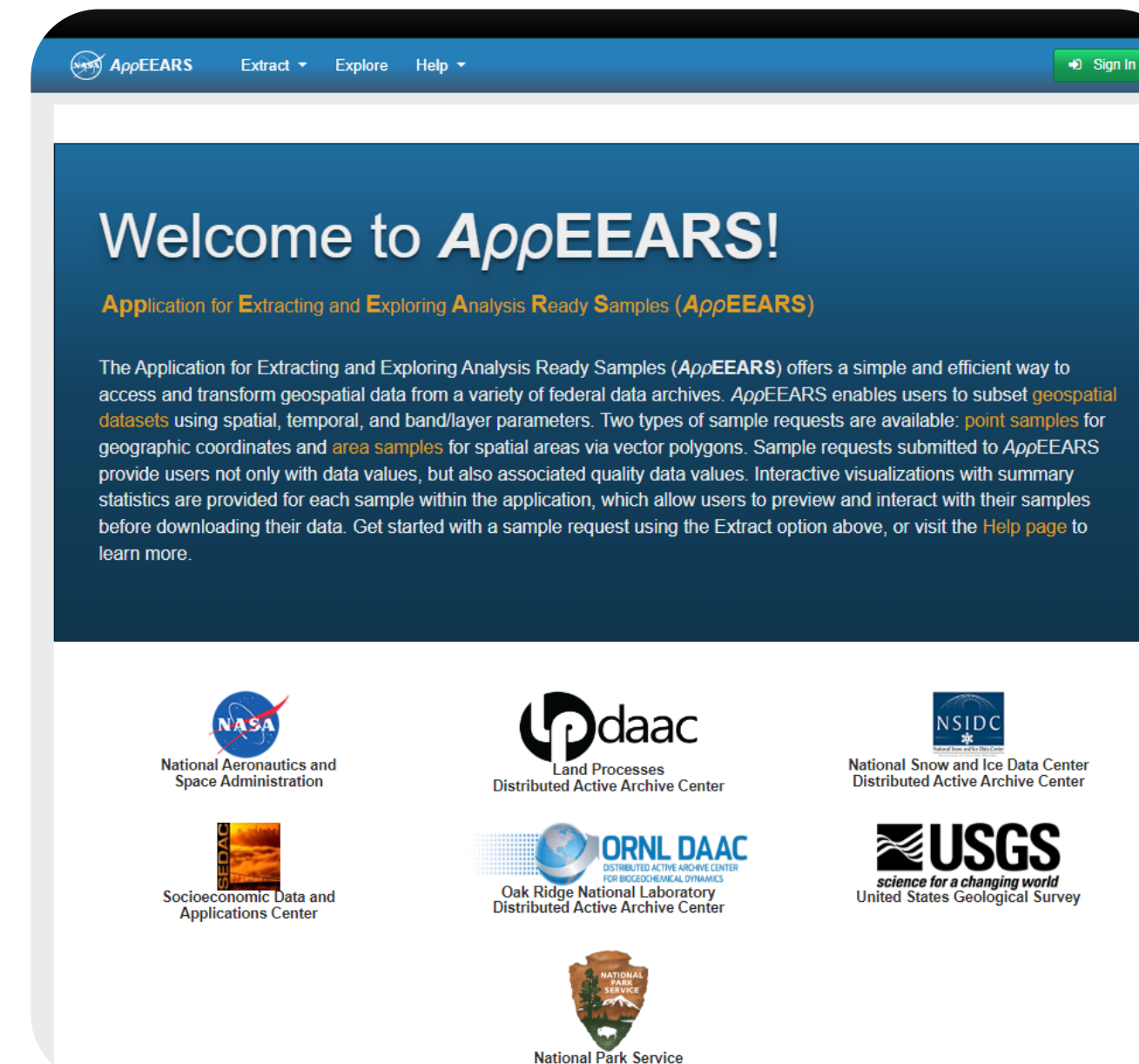
LP DAAC Website



How it Works

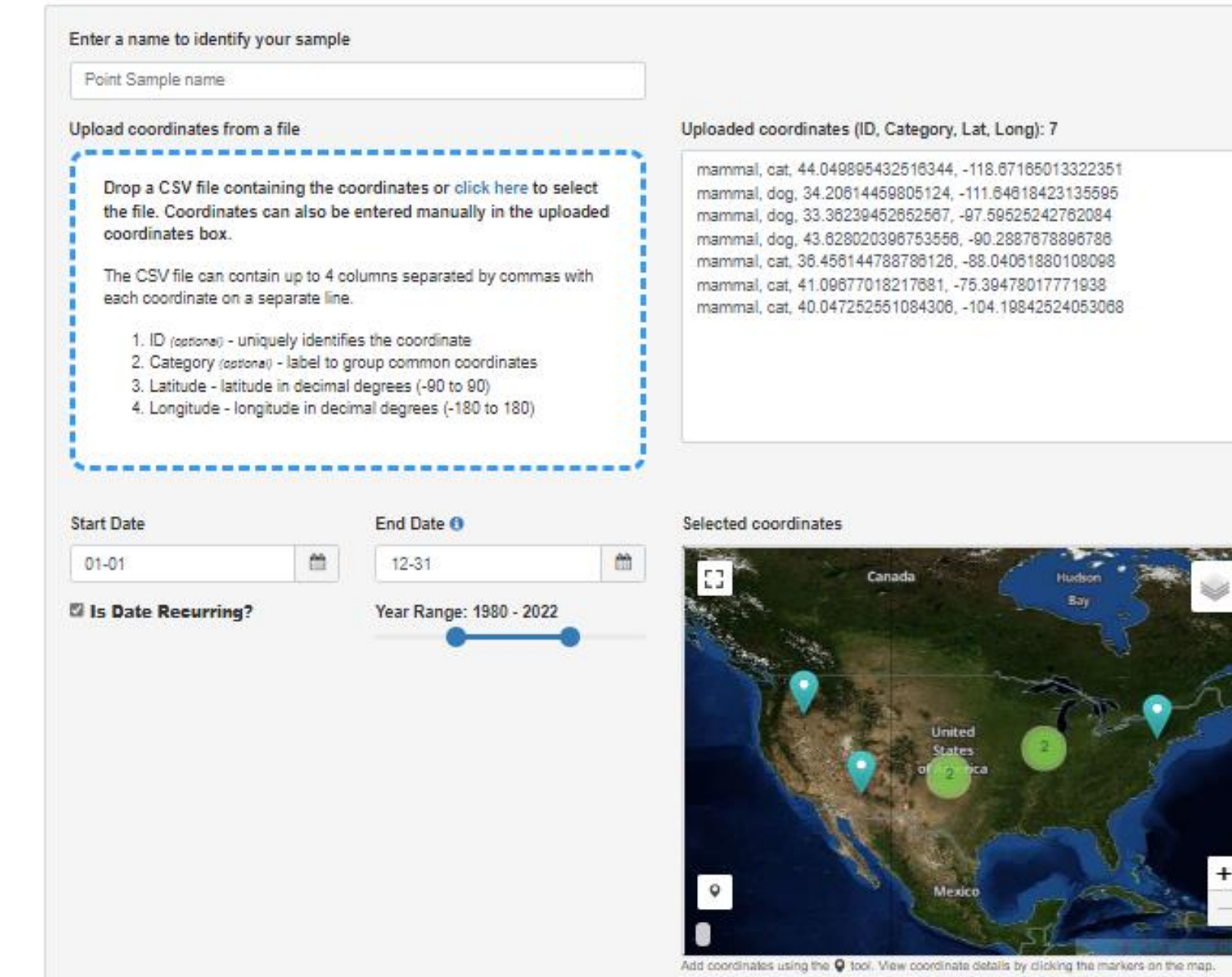
1. Log in to AppEEARS

With your NASA Earthdata Login



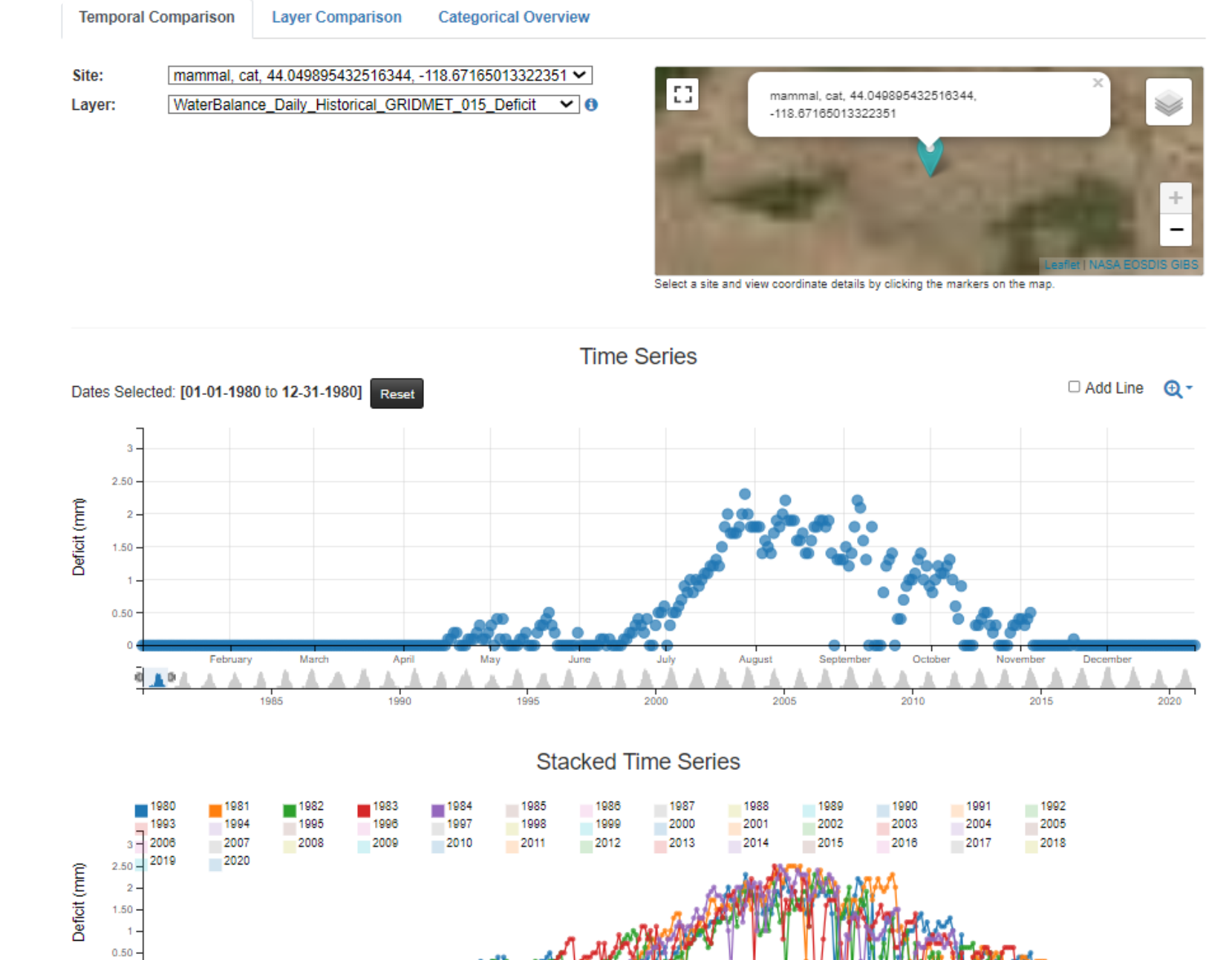
2. Make your Request

No need to worry about granules, tiles, grids, and naming conventions



3. Explore your data and do science!

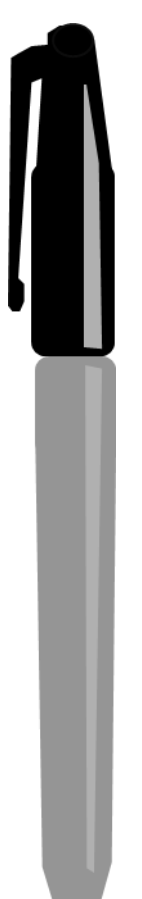
Through interactive visualizations and file downloads



Capabilities & Benefits:

- Point and area requests
- Spatial, temporal, and band subsetting
- Reprojection and reformatting
- View time series, quality, and summary statistics
- Traceable and repeatable data extraction workflow
- File download, bulk downloads, programmatic access via API, and s3 bucket access

How can we make AppEEARS better?



Helpful Features

1. Revisit & share requests

Request	Type	Status	Details	Date Submitted	Date Completed
Sample_001	Area Sample	Done		11-14-2022 9:48:10 PM CST	11-14-2022 9:47:18 PM CST
Sample_002	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_003	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_004	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_005	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_006	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_007	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_008	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_009	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST
Sample_010	Area Sample	Done		11-14-2022 9:28:10 PM CST	11-14-2022 9:28:10 PM CST

2. Access data from many missions and multiple data archives

3. Use the API

