Services, subsets, and science, oh my!

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NASA’s 12 Earth Observing System Data and Information System (EOSDIS) DAACs
Application for Extracting and Exploring Analysis Ready Samples (AppEEARS)

Welcome to AppEEARS!

The Application for Extracting and Exploring Analysis Ready Samples (AppEEARS) offers a simple and efficient way to access and transform geospatial data from a variety of federal data archives. AppEEARS enables users to subset geospatial datasets using spatial, temporal, and band/layer parameters. Two types of sample requests are available: point samples for geographic coordinates and area samples for spatial areas via vector polygons. Sample requests submitted to AppEEARS provide users not only with data values, but also associated quality data values. Interactive visualizations with summary statistics are provided for each sample within the application, which allow users to preview and interact with their samples before downloading their data. Get started with a sample request using the Extract option above, or visit the Help page to learn more.
Two Extraction Types

Point(s) Area(s)
Two Interfaces

Graphical User Interface (GUI)

Application Programming Interface (API)

https://lpdaacsvc.cr.usgs.gov/appeears/api/
AppEEARS GUI
AppEEARS API
Future Plans

• Integrating new datasets
Geospatial Services
Why Geospatial Web Services

Make NASA land data more accessible to a broader community of users!
Bringing data to GIS

- Single Point of Access
  - All composite periods
  - All Tiles
  - All Variables
  - No Download

ArcGIS Server

Image Service

USGS

NASA
What does this look like in a GIS?
Variables
Composite Periods
Future Plans

• Deploy from production servers
• Expand the available products
• Publish OGC services
  • Web coverage service (WCS)
  • Web map service (WMS)
Questions