Abstract
In order to improve the accessibility of GES DISC (NASA Goddard Earth Sciences Data and Information Services Center) tools and services, we have designed and implemented UUI, the Unified User Interface. UUI seeks to provide a simple, unified, and intuitive one-stop shop experience for the key services available at GES DISC, including subsetting (Simple Subset Wizard), granule file search (Mirador), plotting (Giovanni), and other services. In this poster, we will discuss the main lessons, obstacles, and insights encountered while designing the UUI experience. We will also present the architecture and the main lessons, obstacles, and insights encountered while designing the UUI experience. We will also present the architecture and the technology behind UUI, including the UUI experience. We will also present the architecture and the technology behind UUI, including NodeJS, Angular, and MongoDB, as well as speculate on the future of the tool at GES DISC as well as in a broader context of the Space Science Informatics.

UUI as a Data Service portal
In addition to serving `raw` Earth science data to its users, one of the core missions of GES DISC is to provide data-related services that can help users to get the most from the hosted data resources. UUI is built around this notion of **Data Services**, providing a seamless and uniform access to the most popular GES DISC services. These include data and documentation search and access, multiple data subsetting capabilities (e.g., by time, space, variable, etc.), data format conversion, and others. UUI also provides for some of the anticipated services, providing a flexible platform for deploying novel capability at GES DISC.

Key features
Allow the user to search/find/navigate-to ANY DATA RESOURCE, while retaining CONTEXT for cross-resource SEAMLESS NAVIGATION:
- Data granules
- Data subsets (in bulk)
- Data visualization in/from Giovanni/HDAT
- Data Documentation
- Dataset Landing Pages

Interoperability
UUI frontend is driven by backend services described in JSON WSP (JavaScript Object Notation Web-Service Protocol), facilitating automated service discovery and a high interoperability with 3rd party clients. Where appropriate, service descriptions closely follow industry standards, including OpenSearch and OGC WPS.

Technology stack - **JavaScript**
- Node.js
- AngularJS
- MongoDB

Architecture

http://disc.sci.gsfc.nasa.gov/uui/

What’s coming soon?
- Subsetting
  - Narrowing results by temporal search
  - Services on data
    - subsetting by variable
    - subsetting by spatial region (bounding box)
    - subsetting by vertical level (e.g., pressure)
    - viewing file/granules (e.g., mirador)
    - downloading data

In-place visualization (by Giovanni)

Splash screen

Summary
- UUI provides a modern user experience, replacing and integrating with a number of legacy data services and applications at GES DISC.
- Designed for simplicity, speed, and interoperability.
- Implementation takes advantage of modern technologies, ensuring high maintainability, evolvability, and forward compatibility with near-future technologies and partner services.