OneStop User Interface and Search API

David Neufeld, Arianna Jakositz, Evan McQuinn, Elizabeth Delk, Elliott Richerson
Cooperative Institute for Research in Environmental Sciences

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Where does it fit?

- **Data Managers**
  - Collection Manager
    - CEdit
    - CoMET
    - Metaserver
    - Collection M/D
    - DocuComp
  - Event Log
  - Inventory Manager
    - M/D Event Log
    - workflows
  - Common Ingest
    - Data Streams
    - S2N + ATRAC

- **Data Producers and Operators**
  - Ingest Services
  - MD Services
  - Search Services

- **Order Fulfillment + Access Services**
  - Storage Services
    - Tape
    - Disk
    - Cloud
  - External Systems
  - OneStop UI
  - Thin Portals

- **OneStop API/Search Engine**
  - Index
  - C
  - G

- **Public**

- **Storage/Access Services**
What is OneStop?

A key initiative for NOAA’s data discovery and access services by improving metadata content and adopting innovative technologies that improve users’ search experience.
How is OneStop Achieving its Objective?

A search engine to power discovery of all data housed within NOAA

+  

A showcase UI serving as the starting point for data discovery

+  

An application programming interface (API) to power custom search applications
How is OneStop Achieving its Objective?

**API:**
- OS API + CSW and OpenSearch*
- Customizations in search index (e.g. DSMM, field weights, etc.)
- Scalability

**UI:**
- Primary UI is simple, generic, highly graphical
- Thin portal support for domain-specific interfaces

*Via geoportal-search
Current status

• Public deployment in December in 2017
• 83% of users prefer the new interface to the NOAA data catalog
• 10x more traffic than NOAA data catalog
• 2.0 on the way!
New in Version 2.0

Performance

• Elasticsearch cluster upgraded to version 5.x
• Separate, focused indices and apis for collections, granules
• “Summary” API flag returns results with only a subset of fields
New in Version 2.0

New look and feel

- Based on feedback from 3rd party
- New color palette, typography, etc.
- Cleaner, brighter, better contrast
New in Version 2.0

Consolidated Filters Menu

- All controls to filter results by time, space, and keywords are in the same menu
- More consistent and intuitive
New in Version 2.0

Accessibility Improvements

• Significant effort to improve the accessibility
• All content can be read by screen readers
• All navigation and interaction can be controlled via keyboard
• Leveraged University of Colorado’s Accessibility and Usability Lab
• Dropped the text-only version of the site in favor of the main site
Next Steps

• Refining the granule search API
  • Granules to inherit attributes from their collections
  • Enables searching directly for granules across multiple collections

• Internal user accounts
  • Using NOAA’s new ICAM authentication system
  • e.g. to manage metadata, update featured datasets
Future Opportunities

• Public user accounts
  • Using login.gov (same technology as ICAM)
  • Search customization and persistence

• Search relevance
  • Data-driven relevance (what did the user actually click on?)
  • Highlight popular data sets
  • Social media driven data highlights
Future Opportunities

• Integration with Inventory Manager
  • Automated indexing, validation, stats, access links, etc.

• Integration with access systems
  • Directly submit orders to the archive
  • Highlight cloud-available datasets, simplify access
Go check it out!

data.noaa.gov/onestop

Also:
Join the discussion tomorrow at 1:30 about the NOAA Data Catalog and OneStop