IOOS Modeling Test-bed

testbed.sura.org

Test-bed

- Historical obs datasets
- Model runs
- THAT'S ALL…
- …Except scalable, reliable, and **sustainable**.

Catalogs

- Wow, there are lots of catalogs out there

- Reqs:
  - Ingests ISO
  - Searchable (“Water level during Ike”)
  - Reliable (“What happened?”)
  - Understandable (“What is happening?”)
  - Extendable

Catalogs – Ramadda

- Ramadda
  - Ingests ISO - no, but THREDDS (and youtube, etc.)
  - Searchable – with modification
  - Reliable – barely
  - Understandable – barely
  - Extendable – difficult (owner woes)

  - Feedback – days

Catalogs – GeoPortal

- GeoPortal
  - Ingests ISO - yes
  - Searchable – yes, with limitations
  - Reliable – yes
  - Understandable – barely
  - Extendable – with effort

  - Feedback – Too much effort

Catalog – GiCAT

- GiCAT
  - Ingests ISO - yes
  - Searchable – yes, opensearch / csw
  - Reliable – yes
  - Understandable – with effort
  - Extendable – with effort

  - Feedback – hours

Catalog – Conclusions

- Time sink
- Feedback cycle was the key

- Registry process:
  - Model Run -> REST -> NcML -> THREDDS - > ISO - > Catalog

Test-bed - UGRID

- ugh… quickly…

- JAVA - NetCDF-Java - Unidata
- C - GridFields – Bill Howe

- Model output as points anyway.

SciWMS

- We need a WMS that works for *

- https://github.com/acrosby/sci-wms

NcSOS

- We need an SOS server on top of historic datasets in NetCDF format

- https://github.com/asascience-open/ncSOS

Javascript SOS Library

- We need to process SOS data on web clients

- http://testbedwww.sura.org/sosParse/

IMEDS

- We need skill assessment tools
- Matlab -> Java
- https://github.com/asascience-open/imeds

NcToolbox

- NjToolbox vs NcToolbox

- http://code.google.com/p/nctoolbox/

Why

- http://72.44.60.22/sura2/

Collaboration