

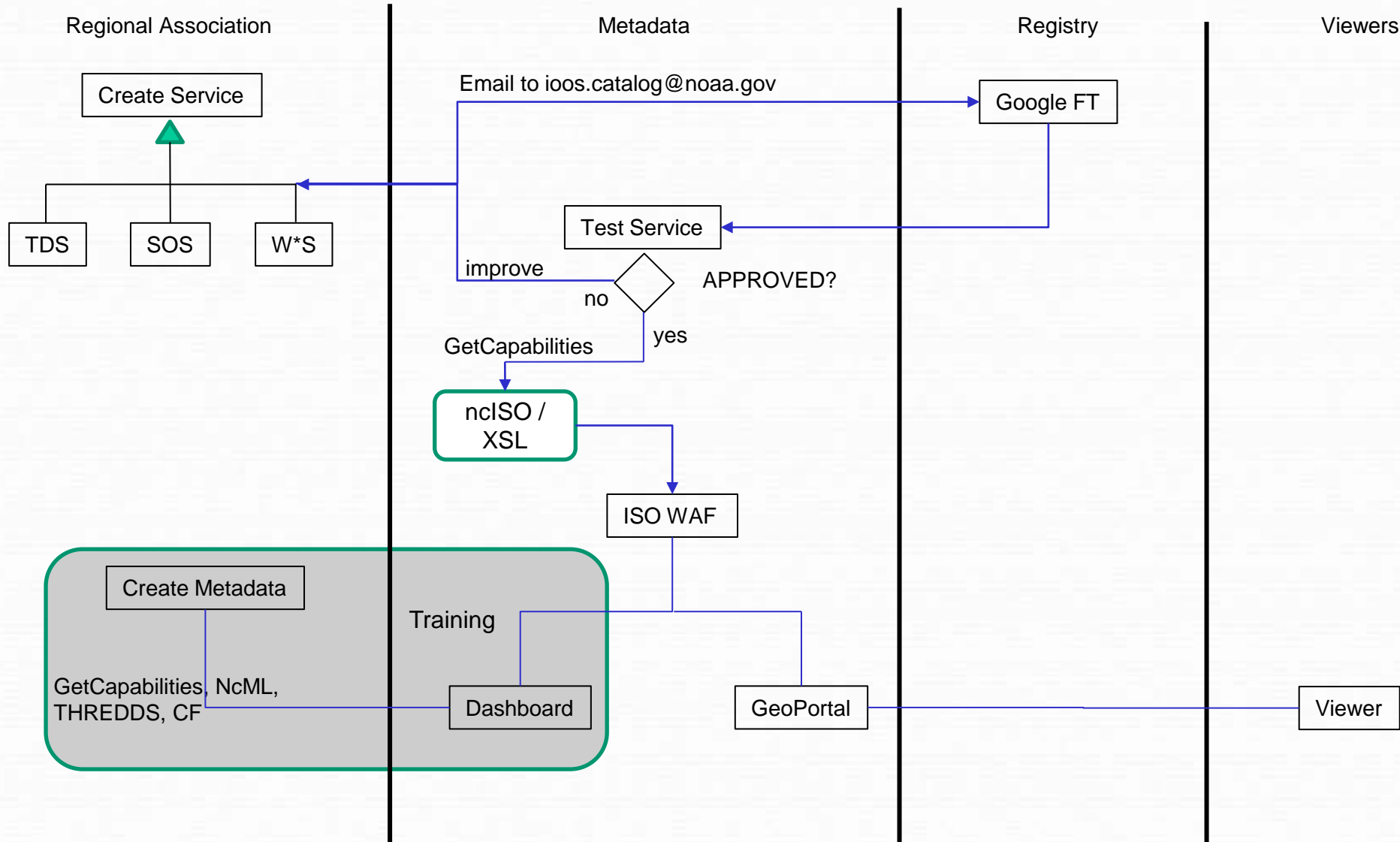
IOOS Catalog

NGDC
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Topics

- Metadata Integration Activities
 - Current Workflow
 - Registration
 - Validation Testing
 - Capturing Metadata
 - ISO Translation
 - Improving Metadata Content
 - Metadata Documentation Supports Discovery and Use
 - Discovery - Geoportal
 - Use - IOOS Catalog Viewer
 - Monitoring: Improving Reliability
- Looking Ahead
 - RA Discovery Portals

Metadata Supports Integration



Registration

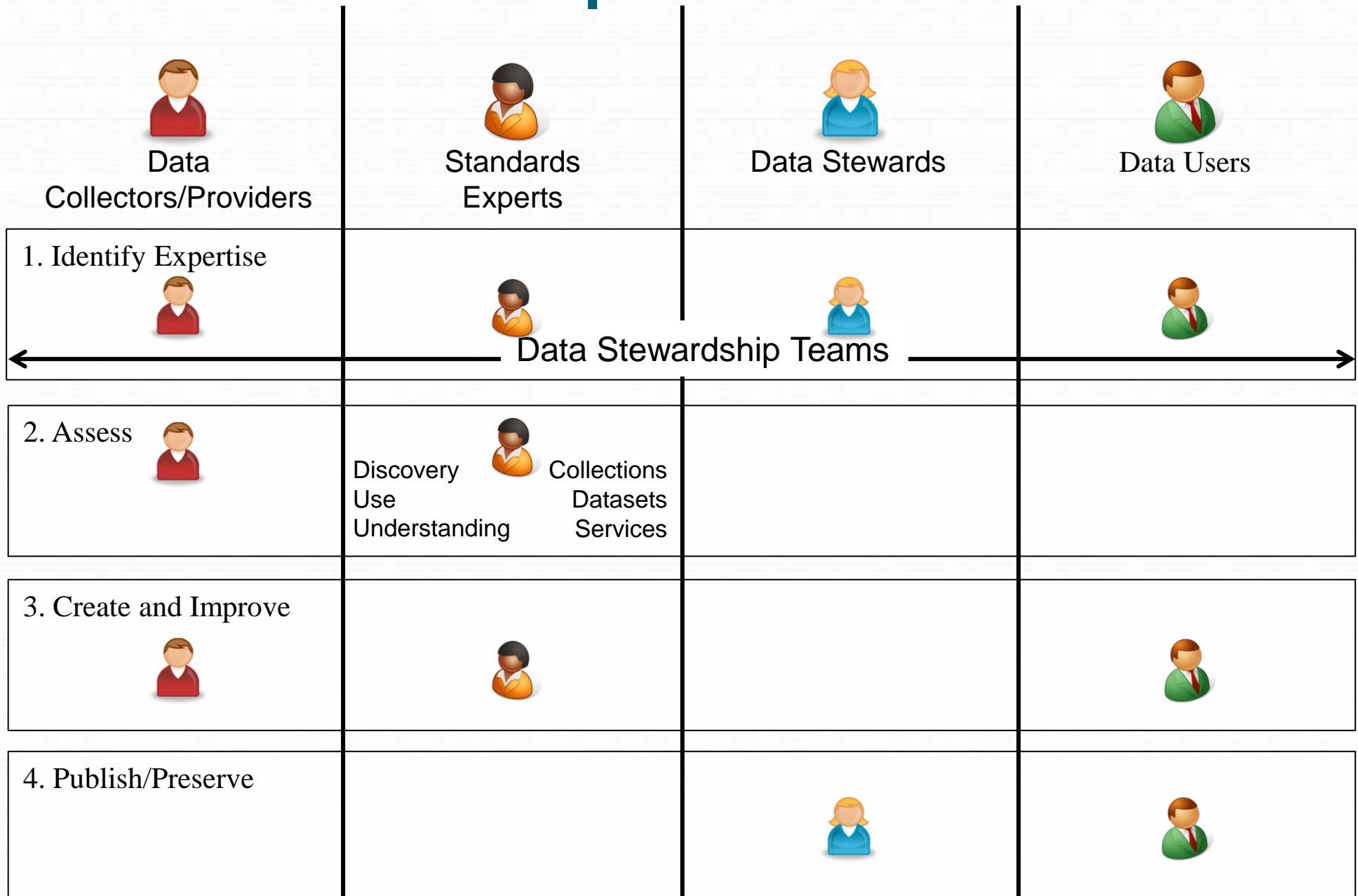
The screenshot shows a Mozilla Firefox browser window displaying a Google Fusion Tables interface. The page title is "IOOS_SERVICE_REGISTRY". The browser's address bar shows the URL: <https://www.google.com/fusiontables/DataSource?docid=13criqkL2PSuK5sPeMxYJWNYjKGH9TJ5cCeP5WlQ>. The table displays 58 rows of data, with the first 10 rows visible. The columns are: svc_org, contact_phone, contact_email, svc_type, and svc_url. The data includes entries for AOS, NANOOS, GLOS, MARACOOS, and NERACOOS, each with associated contact information and service URLs.

svc_org	contact_phone	contact_email	svc_type	svc_url
AOS	907-350-8526	shane@axiomalaska.com	SOS	http://sos.axiomalaska.com/sos?request=GetCapabili...
AOS	907-350-8526	shane@axiomalaska.com	THREDDS	http://thredds.axiomalaska.com/thredds/catalog.xml
NANOOS	206-543-6431	mayorga@apl.washington.edu	SOS	http://habu.apl.washington.edu/pyws/sos.py?request...
GLOS	401 789 6224	kwilcox@asascience.com	SOS	http://michigan.glin.net/glos/sos/sos.php?request=...
MARACOOS	401 789 6224	kwilcox@asascience.com	THREDDS	http://tds.maracoos.org/thredds/catalog/ChesROMS/A...
MARACOOS	401 789 6224	kwilcox@asascience.com	THREDDS	http://tds.maracoos.org/thredds/SST.xml
MARACOOS	401 789 6224	kwilcox@asascience.com	THREDDS	http://tds.maracoos.org/thredds/catalog/ChesROMS/A...
NERACOOS	207 228-1662	ebridger@gmri.org	SOS	http://www.neracoos.org/cgi-bin/sos/V1.0/oostethys...
MARACOOS	401 789 6224	dstjohn@weatherflow.com	SOS	http://d.weatherflow.com/sos/sos.pl?request=GetCap...
Test??	301-427-2464	derrick.snowden@noaa.gov	SOS	http://www.neracoos.org/cgi-bin/sos/V1.0

Validation Testing

- Three basic steps
 - Service is operational
 - GetCapabilities is valid XML
 - XSL translation to ISO
 - Collaborative incremental improvement process

Metadata Improvement



Improving Metadata Content

NetCDF Attribute Convention for Dataset Discovery Report

The Unidata Attribute Convention for Data Discovery provides recommendations for netCDF attributes that can be added to netCDF files to facilitate discovery of those files using standard metadata searches. This tool tests conformance with those recommendations using this [stylesheet](#). More [Information on Convention and Tool](#).

Title: PacIOOS Ocean Gliders: SeaGlider 114: Mission 3

Total Score: 43/46

General File Characteristics

Number of Global Attributes 49
Number of Variables 9
Number of Variable Attributes 41
Number of Standard Names 9
Number of Services 1
Longitude Variable(s) longitude(time:165)
Latitude Variable latitude(time:165)
Time Variable time(time:165)
Vertical Variable depth(time:165)

	Spiral	None	1-33%	34-66%	67-99%	All
Total					X	
Identification						X
Text Search						X
Extent Search						X
Other Extent Information					X	

Discovery: Geoportals/CSW

The screenshot shows a Firefox browser window displaying the NOAA Geoportals search interface. The browser's address bar shows the URL: <https://www.demo.ngdc.noaa.gov/geoportals/catalog/search/search.page>. The page header includes the NOAA logo and the text "NATIONAL GEOPHYSICAL DATA CENTER" and "NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION". The "Geoportals" logo is also present. The navigation menu includes "HOME", "SEARCH", and "BROWSE".

The "Search" section is active, with the search term "Ocean Observations" entered in the search box. The "Search" button is highlighted. Below the search box, there is a button for "Clear All" and a message: "Records shown from: NGDC Geoportals Instance. Click here to select different site or configure search."

The "GEOGRAPHIC AREA" section is also visible, with the text "Zoom the map to desired area, and choose 'intersecting' or 'fully within'". The "Fully within" radio button is selected. The search area is set to "Georges Bank". A map of the North Atlantic Ocean is shown, with a red box indicating the search area.

The search results section shows "Results 1-1 of 1 record(s)". There is a checkbox for "Expand results" and links for "Zoom To Results" and "Zoom To Searched Area". The result is for the "Northeastern Regional Association of Coastal Ocean Observing Systems". The description states: "The Northeastern Regional Association of Coastal Ocean Observing Systems is a component of the national IOOS, spanning coastal waters from the Canadian Maritime Provinces to the New York Bight. Our mission is to make available information to those who use...". There are links for "Website", "Details", "Metadata", and "Zoom To".

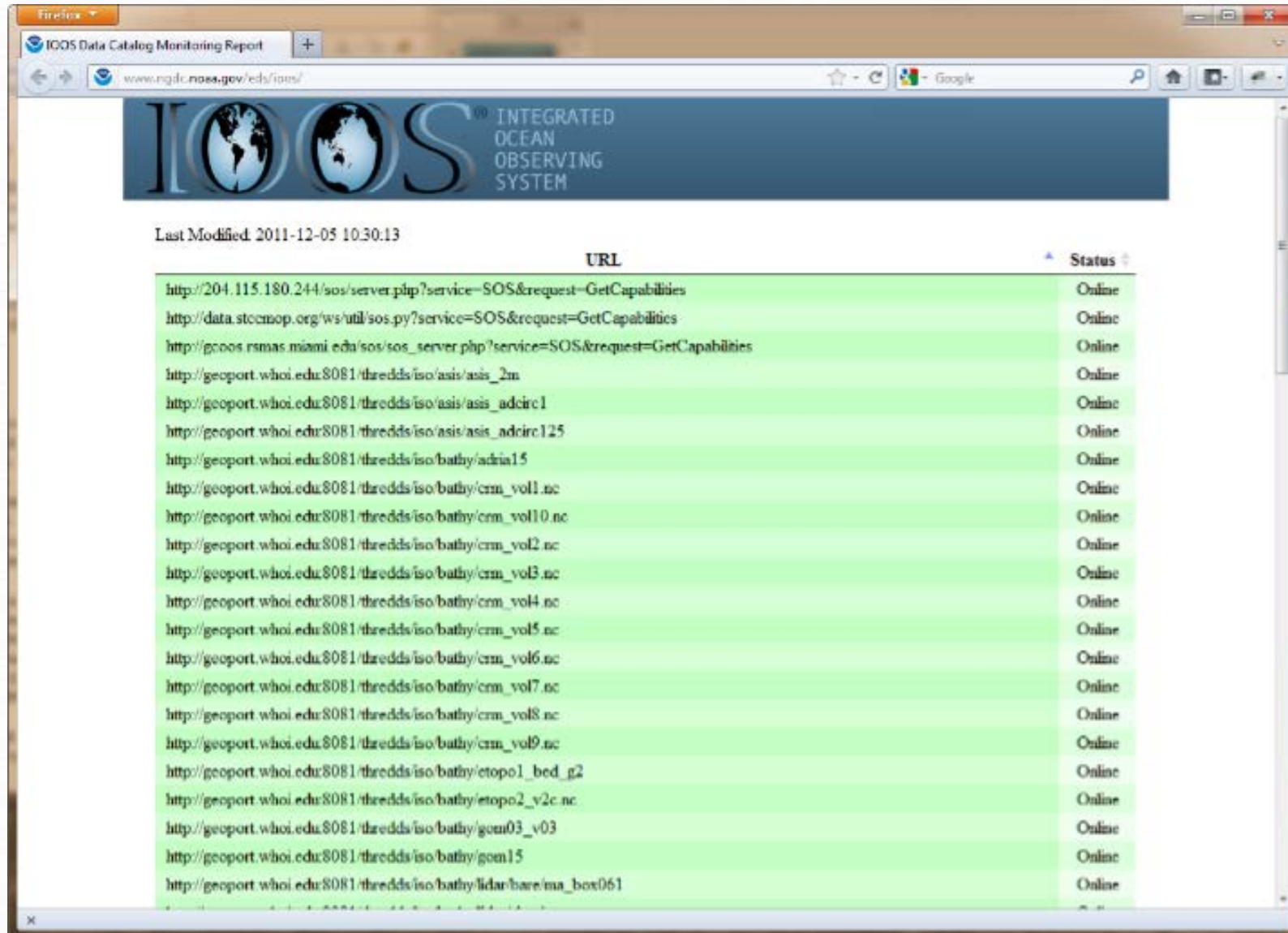
At the bottom of the results section, there is a note: "See results through REST" and "API: [GEORSS](#) [ATOM](#) [HTML](#) [FRAGMENT](#) [KML](#) [JSON](#)".

Use: Catalog Viewer

The screenshot displays a Mozilla Firefox browser window with the following elements:

- Browser Title Bar:** Mozilla Firefox
- Address Bar:** http://72.44.60.22/ios/
- Search Bar:** neracoos
- Search Results:** Northeastern Regional Association of Coastal Ocean Observing Systems (NERACOOS)
- Services List:**
 - OGC:SOS
 - 44022
 - 44039
 - 44040
 - 44060
 - 44098
 - A01
 - B01
 - CDIP154
 - CDIP176
 - CML
 - CO2
 - D02
 - E01
 - E02
 - F01
 - F02
 - GREAT_BAY
 - I01
 - LDLC3
 - M01
 - MDS02
 - N01
 - SMB-MO-01
- Map:** A satellite map of the Northeastern United States and Canada. A green bounding box highlights a region in the Northeast, containing several white circular markers and one red circular marker. The map includes zoom controls and a 'Zoom to results' button.
- Status Bar:** 1 record fetched.

Monitoring: Improving Reliability



IOOS[®] INTEGRATED OCEAN OBSERVING SYSTEM

Last Modified: 2011-12-05 10:30:13

URL	Status
http://204.115.180.244/sos/server.php?service=SOS&request=GetCapabilities	Online
http://data.stcmop.org/ws/util/sos.py?service=SOS&request=GetCapabilities	Online
http://goos.rsmas.miami.edu/sos/sos_server.php?service=SOS&request=GetCapabilities	Online
http://geoport.whoi.edu:8081/thredds/iso/asis/asis_2m	Online
http://geoport.whoi.edu:8081/thredds/iso/asis/asis_adcirc1	Online
http://geoport.whoi.edu:8081/thredds/iso/asis/asis_adcirc125	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/adria15	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol1.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol10.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol2.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol3.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol4.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol5.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol6.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol7.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol8.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/crm_vol9.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/etopo1_bed_g2	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/etopo2_v2c.nc	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/gom03_v03	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/gom15	Online
http://geoport.whoi.edu:8081/thredds/iso/bathy/lidar/bare/ma_box061	Online

Discussion

- Tutorial for data providers to improve metadata
- ERDDAP / W*S support (non-THREDDS)
- RA Discovery Portals
 - OceanSITES demo
 - <http://www.ngdc.noaa.gov/eds/gptClientDemo/>
 - CSW documentation on geo-ide wiki
 - Padded JSON enhancement from ESRI