

## Matrix of Marine Data Management Systems

Element of System	Northeast Ocean Data Portal
Website(s)	<a href="http://northeastoceandata.org/">http://northeastoceandata.org/</a>
Mapping application	<a href="http://www.northeastoceanviewer.org/">http://www.northeastoceanviewer.org/</a>
Blog or discussion forum	
Point(s) of contact	Daniel Martin, Nick Napoli
Geographic area covered	Maine, New Hampshire, Massachusetts, Rhode Island, Connecticut
Data sources	Federal, State
Number of data sets	62
Available formats	File downloads
Web-enabled services	<a href="http://northeastoceandata.org/data-catalog/web-mapping-services/">http://northeastoceandata.org/data-catalog/web-mapping-services/</a>
Type of server	ArcGIS 10
Client	Adobe Flex
Database	File-based
Hosting	Commercial with plans for Amazon Web Services Cloud
Data sharing standards	
Interfaces supported	
Meta data catalogs	
Collaborations with other systems	MarineCadastre.gov, MARCO Portal

Element of System	Mid-Atlantic Regional Council on the Ocean (MARCO) Data Portal
Website(s)	<a href="http://midatlanticocean.org/map_portal.html">http://midatlanticocean.org/map_portal.html</a>
Mapping application	<a href="http://midatlanticocean.org/map.html">http://midatlanticocean.org/map.html</a>
Blog or discussion forum	
Point(s) of contact	Chris Bruce, Charles Steinbeck, Laura McKay
Geographic area covered	New York, New Jersey, Delaware, Maryland, Virginia
Data sources	Federal, State
Number of data sets	55
Available formats	File downloads
Web-enabled services	<a href="http://maps.tnc.org/ecadpubprodanon/rest/services/MARCO">http://maps.tnc.org/ecadpubprodanon/rest/services/MARCO</a>
Type of server	ArcGIS Server 10
Client	Adobe Flex
Database	File-based
Hosting	On-site
Data sharing standards	
Interfaces supported	
Meta data catalogs	
Collaborations with other systems	

Element of System	West Coast Governor's Alliance Regional Data Framework
Website(s)	<a href="http://www.westcoastoceans.org/index.cfm?content.display&amp;pageID=153">http://www.westcoastoceans.org/index.cfm?content.display&amp;pageID=153</a>
Mapping application	In Development
Blog or discussion forum	
Point(s) of contact	Andy Lanier, Matt Armsby, Todd Hallenbeck , Tanya Haddad,
Geographic area covered	California, Oregon, Washington
Data sources	Federal, State
Number of data sets	
Available formats	
Web-enabled services	
Type of server	
Client	
Database	
Hosting	
Data sharing standards	
Interfaces supported	
Meta data catalogs	
Collaborations with other systems	

Element of System	Ocean Community on Data.gov
Website(s)	<a href="http://ocean.data.gov">http://ocean.data.gov</a>
Mapping application	
Blog or discussion forum	<a href="http://www.data.gov/communities/node/237/forums">http://www.data.gov/communities/node/237/forums</a>
Point(s) of contact	Mary Boatman
Geographic area covered	National
Data sources	Various Federal agencies
Number of data sets	174
Available formats	File download, Web services
Web-enabled services	Based on data provider
Type of server	Based on data provider
Client	N/A
Database	N/A
Hosting	N/A
Data sharing standards	
Interfaces supported	
Meta data catalogs	
Collaborations with other systems	

Element of System	Pacific Islands Ocean Observing System (PacIOOS)
Website(s)	<a href="http://pacioos.org">http://pacioos.org</a>
Mapping application	Hawaii - <a href="http://www.soest.hawaii.edu/hioos/map/">http://www.soest.hawaii.edu/hioos/map/</a> Pacific - <a href="http://pacioos-mapserver2.acl.hawaii.edu:8080/geoexplorer/index_pacioos.html">http://pacioos-mapserver2.acl.hawaii.edu:8080/geoexplorer/index_pacioos.html</a>
Blog or discussion forum	
Point(s) of contact	Jim Potemra
Geographic area covered	Pacific Islands
Data sources	
Number of data sets	
Available formats	File download, web services,
Web-enabled services	
Type of server	Mainly based on THREDDS OPeNDAP, but also have GeonNetwork/GeoService services running
Client	JavaScript variant, Google Earth
Database	REST/JSON, XML OGC, XML Other,
Hosting	
Data sharing standards	
Interfaces supported	OPeNDAP, OCG (WMS/WCS), SOS
Meta data catalogs	
Collaborations with other systems	

Element of System	Gulf of Mexico Alliance (GOMA) Portal
Website(s)	<a href="http://gomaportal.org/">http://gomaportal.org/</a>
Mapping application	
Blog or discussion forum	
Point(s) of contact	William Nichols
Geographic area covered	Texas, Louisiana, Mississippi, Alabama, Florida
Data sources	Federal, State
Number of data sets	849
Available formats	File downloads (shapefile), Web services, Catalog Service (JSON, XML, GEORSS, KML)
Web-enabled services	<a href="http://gomaportal.org/geoportal/catalog/search/browse/browse.page">http://gomaportal.org/geoportal/catalog/search/browse/browse.page</a>
Type of server	ESRI GeoPortal Server
Client	Web Browser, OGC CSW Client
Database	MS SQL
Hosting	
Data sharing standards	
Interfaces supported	REST, CSW
Meta data catalogs	OGC CSW, All records FGDC CSDGM Compliant <sup>3</sup>
Collaborations with other systems	

Element of System	NOAA Gulf Atlas
Website(s)	<a href="http://gulfatlas.noaa.gov/">http://gulfatlas.noaa.gov/</a>
Mapping application	<a href="http://www.ncddc.noaa.gov/website/DataAtlas/atlas.htm">http://www.ncddc.noaa.gov/website/DataAtlas/atlas.htm</a>
Blog or discussion forum	
Point(s) of contact	Russ Beard
Geographic area covered	Texas, Louisiana, Mississippi, Alabama, Florida
Data sources	Federal, State, University
Number of data sets	195 plates (tiled maps) subdivided into 65 subject areas (Atlas represents a starting point to access many data sets)
Available formats	File downloads, Web services (XML OGC, REST/JASON, SOAP)
Web-enabled services	<a href="http://service.ncddc.noaa.gov/arcgis/rest/services/DataAtlas">http://service.ncddc.noaa.gov/arcgis/rest/services/DataAtlas</a>
Type of server	ArcGIS Server (GeoPortal under development in FY12)
Client	OpenLayers, JavaScript, jQuery, Web Browser (IE, Firefox, Safari, Chrome)
Database	PostgreS
Hosting	On-site
Data sharing standards	Yes (OGC)
Interfaces supported	OPeNDAP, OCG (WMS/WCS), SOS
Meta data catalogs	OGC CSW, all records FGDC Compliant, also supports ISO and Dublin Core Geoportal: <a href="http://service.ncddc.noaa.gov/ecowatch-geoportal/catalog/main/home.page">http://service.ncddc.noaa.gov/ecowatch-geoportal/catalog/main/home.page</a>
Collaborations with other systems	Yes (number of partners in FY12 = 58)

Element of System	Southeast Coastal Ocean Observing Regional Association (SECOORA)
Website(s)	<a href="http://www.secoora.org">http://www.secoora.org</a>
Mapping application	<a href="http://secoora.org/data">http://secoora.org/data</a>
Blog or discussion forum	
Point(s) of contact	Vembu Subramanian, Dwayne Porter
Geographic area covered	Florida, Georgia, North Carolina, South Carolina
Data sources	Federal, State
Number of data sets	
Available formats	File downloads, Web services
Web-enabled services	
Type of server	
Client	Adobe Flex, Javascript Variant (e.g., OSGeo)
Database	REST/JSON, XML – OGC, XML - Other
Hosting	
Data sharing standards	
Interfaces supported	
Meta data catalogs	
Collaborations with other systems	



Element of System	Alaska Ocean Observing System (AOOS)
Website(s)	<a href="http://aoos.org">http://aoos.org</a>
Mapping application	<a href="http://data.aaos.org/maps/sensors.php">http://data.aaos.org/maps/sensors.php</a>
Blog or discussion forum	
Point(s) of contact	Rob Bochenek
Geographic area covered	Alaska
Data sources	Federal, State
Number of data sets	
Available formats	File downloads, Web services
Web-enabled services	
Type of server	GeoServer, ncWMS, 52 North SOS, OpenScales, OpenLayers, Google Maps API
Client	Adobe Flex, Javascript Variant (e.g., OSGeo)
Database	REST/JSON, XML OGC, SOAP
Hosting	
Data sharing standards	
Interfaces supported	
Meta data catalogs	
Collaborations with other systems	

Element of System	NOAA CMSP Data Registry
Website(s)	<a href="http://www.cmsp.noaa.gov/">http://www.cmsp.noaa.gov/</a>
Mapping application	.NET mapping application
Blog or discussion forum	
Point(s) of contact	Robby Wilson, Nipa Parikh
Geographic area covered	Coastal Watersheds to EEZ
Data sources	NOAA
Number of data sets	+50
Available formats	File downloads, Web services
Web-enabled services	<a href="http://egisws02.nos.noaa.gov/cmsspgisdataregistry/">http://egisws02.nos.noaa.gov/cmsspgisdataregistry/</a> or <a href="http://egisws02.nos.noaa.gov/arcgis/rest/services/">http://egisws02.nos.noaa.gov/arcgis/rest/services/</a>
Type of server	Windows
Client	Web Browser
Database	
Hosting	
Data sharing standards	
Interfaces supported	
Meta data catalogs	
Collaborations with other systems	<a href="http://www.geoplatform.noaa.gov/home/">http://www.geoplatform.noaa.gov/home/</a> <a href="http://www.data.gov/ocean">http://www.data.gov/ocean</a> <a href="http://www.arcgis.com/home/">http://www.arcgis.com/home/</a>