



## Fiscal Year 2011 Coral Reef Information System (CoRIS) Accomplishments

### Highlights

**Content and Technical Improvements** – CoRIS began development of a new data discovery tool using the ESRI Geoportal technology. The new search tool will provide enhanced ability for temporal and spatial searches. The tool will also allow users to save searches as customized GeoRSS feeds and provide a way to restrict search results to those data that are downloadable vs. offline. We expect to launch the search tool during 2012.

In addition to the Geoportal project we also restructured, reformatted, and updated the “Featured Documents” section of the website and added a search feature to the CoRIS Glossary of Terminology application.

**New Metadata and Data** – Added 549 metadata records to CoRIS and made 2,571 record updates. At the conclusion of FY11 CoRIS had a total of 4,576 metadata records that provide users access to approximately 41,726 coral data products.

**New Publications** – Entered 315 publications into the CoRIS virtual library, bringing the total number of publications in CoRIS to 3,128.

**Outreach** – CoRIS provided outreach material at the NOAA booth for two ESRI Conferences and the U.S. Coral Reef Task Force meeting, and briefed Ms. Sissy Iona of the Hellenic National Oceanographic Data Centre in Attica and Dr. Libby Jewett of the NOAA Ocean Acidification Program about the Coral Reef Information System and larger CRCP data management activities.

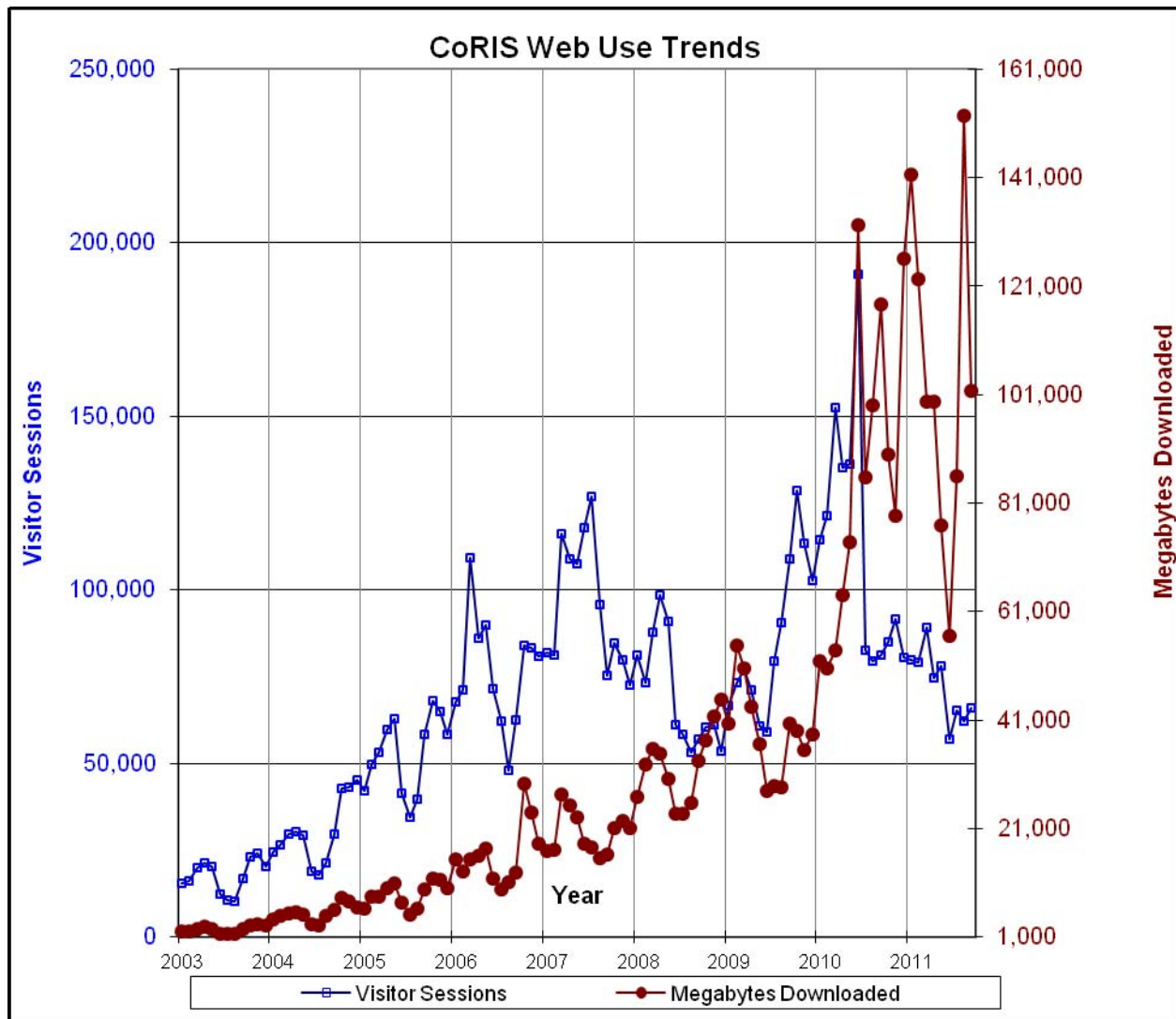
**Coral Program Support** – Provided monthly, quarterly, and annual reports to the CRCP office on coral projects that contributed metadata, data, and publications to CoRIS. CoRIS staff continued to send “overdue product letters” to CRCP-funded project managers and worked with Line Office representatives for updates, submittal and posting of NOAA project related documents.

**Collaborations** – Served as a member of the CRCP Data Management Working Group, CRCP Project Proposal Database Review Team, Deep Sea Coral Coordination Call, and other CRCP coordination groups, NESDIS Information Resource Management Team Metadata Meeting, NODC IT Systems Meeting, NODC Web Team Meeting, NODC Archive Management Working Group, FGDC Metadata Working Group, and the NOAA Environmental Data Management Committee

**Staff Technical Development** – CoRIS staff attended the NOAA Environmental Data Management Conference, NOS Summer Web Workshop, and multiple ISO metadata workshops.

## Performance Statistics

Element	September 2010	September 2011	% Change
Number of Metadata Files	4,269	4,576	+7.19%
Number of Publication References	2,813	3,128	+11.2%
Number of Data & Information Products (including publications)	36,260	41,726	+15.1%
Number of Glossary terms	6,140	6,393	+4.12 %
Number of Acronyms and Abbreviations	4,740	5,246	+10.6 %



## Top Downloaded Documents

Publication Name	# of FY11 - Downloads
A Reef Manager's Guide To Coral Bleaching	33,079
Demographic Baseline Report of U.S. Territories and Counties Adjacent to Coral Reef Habitats - U.S. Virgin Islands chapter	27,335
Proceedings of the International Workshop on Red Coral Science, Management, and Trade: Lessons from the Mediterranean	21,716
CoRIS Glossary	20,462
The State of Deep Coral Ecosystems of the United States: 2007	18,646
Status of Caribbean Coral Reefs After Bleaching and Hurricanes in 2005	10,301
Demographic Baseline Report of U.S. Territories and Counties Adjacent to Coral Reef Habitats - Guam chapter	8,672
NOAA: Coral Reef Ecosystem Research Plan (FY07-FY11)	8,613
Valoración económica de los arrecifes de coral y ambientes asociados en el Este de Puerto Rico: Fajardo, Arrecifes La Cordillera, Vieques y Culebra	8,517
Coral Reef Habitat Assessment for the U.S. Marine Protected Areas: U.S. Territory of American Samoa	8,116

Table: This table represents the top accessed publications from the CoRIS server in FY11. A total of 495,357 publications were downloaded during the fiscal year. Note: These numbers reflect only those documents hosted by CoRIS. The catalog provides linkages to numerous files hosted on external websites.

## Top Accessed Metadata Records

Metadata Record	# of FY11 Accesses
GIS Map of Mosaiced LandSat 7 ETM+ Satellite Imagery of the Marshall Islands	1,445
The Coral Reef Temperature Anomaly Database (CoRTAD) Version 1 - Global, 4 km, Sea Surface Temperature and Related Thermal Stress Metrics for 1985-2005 (NODC Accession 0044419)	1,341
High Resolution Aerial Photography of the Main Eight Hawaiian Islands, 2000	1,290
1995 Quantitative Survey of the Corals of American Samoa (NODC Accession 0001972)	1,276
Photoquadrat Images from the Hawaii Coral Reef Assessment and Monitoring Program (CRAMP): Data from 1999 - 2002 (NODC Accession 0001115)	1,192
Caribbean Coral Reef, Seagrass and Mangrove Sites (CARICOMP), (NODC Accession 0000501)	1,187
Benthic Habitats of the Florida Keys	1,161
High Resolution Aerial Photography of Puerto Rico and the U.S. Virgin Islands, 1965-1999	1,142

Video Transect Images from the Hawaii Coral Reef Assessment and Monitoring Program (CRAMP): Data from 2002 (NODC Accession 0000961)	1,127
National Status and Trends, Benthic Surveillance Project DNA-Xenobiotic Adducts Data, 1991, National Centers for Coastal Ocean Science	1,117
CRED Fish Biomass Estimates map at Laysan Island	1,107
National Status and Trends: Bioeffects Program - Biscayne Bay, Florida (1995-1996) Database	1,104
Summer 2004 Coral Bleaching Event on Tutuila, American Samoa (NODC Accession 0001955)	1,101
ESI-VI12 Beef Island, U.K. Virgin Islands 2000 (Environmental Sensitivity Index Map)	1,078
Florida Abandoned Vessel Inventory	1,062

Table: The above table represents the top fifteen metadata records accessed over the previous year. During FY11 a total of 1,658,034 records were accessed from the website.

## Accomplishment Details

### ***New Data and Metadata***

#### ***Number of metadata records within CoRIS by Line Office***

Office/Group	Records Added in FY11	Total Records in CoRIS
NESDIS	24	239
NMFS	480	3121
NOS	59	1025
OAR	16	180
Miscellaneous	0	11
<b>Total</b>	<b>579</b>	<b>4,576</b>

#### ***Metadata records added to the CoRIS Web site (Fourth Quarter)***

Source	Description	Count
NMFS	CRED Temperature and Conductivity Recorders; Jarvis Island, Wake Atoll, PRIA	8
NMFS	Reson 8101 multibeam backscatter data from Galvez Bank	1
NMFS	Preliminary hard and soft bottom seafloor substrate map (40m grid) derived from an unsupervised classification of gridded backscatter and bathymetry derivatives at Rose Atoll, Territory of American Samoa, USA.	2
NMFS	CRED Geomorphology: Rose , Saipan, Guam Islands	11
NMFS	CRED Gridded Bathymetry: Guam and Saipan	3
NMFS	CRED Optical Validation Data: CMNI and Guam	7

NMFS	CRED Benthic Line Point Intercept: CMNI and Guam	14
NMFS	CRED Towed Diver Characterization Survey: CMNI and Guam	13
NMFS	CRED REA Survey: CMNI and Guam	13
NMFS	CRED Towed-Diver Fish Biomass Survey: CMNI and Guam	13
NMFS	CRED REA Invertebrate at CMNI	4
NMFS	CRED Shallow CTD Profiles at CMNI and Guam	11
NMFS	CRED Rapid Ecological Assessment Belt Surveys of Coral Population and Disease Assessment: CMNI and Guam	14
NMFS	CRED Rapid Ecological Assessment Reef Fish Survey at Oahu, Main	1
NMFS	CRED Rapid Ecological Assessment Reef Fish Survey at CMNI and Guam	1
NESDIS	NOAA Coral Reef Watch Experimental Satellite Coral Bleaching Virtual Stations and Automated Satellite Bleaching Alerts	1
NESDIS	NOAA Coral Reef Watch Experimental Daily Near-Real-Time Global 25-km Satellite Sea Surface Wind Doldrums Product	1
OAR	Seawater Temperature and Salinity Moored Time-Series Records, Collected During 2010 and 2011 in Vieques Sound and Virgin Passage (NODC Accession 0077910)	1
NESDIS	NODC 2010 NOAA Ortho-rectified Mosaic from Color Aerial Imagery of MISSISSIPPI RIVER - BATON ROUGE TO LAPLACE, BEAUMONT, ORANGE, PORT AUTHUR (NODC Accession 0074374)	2
NESDIS	NODC LA0801 Ortho-rectified Aerial Imagery of Terrebonne and Timbalier Bays Barrier Islands, Louisiana (NODC Accession 0075828)	1
NESDIS	NODC 2010 NOAA Ortho-rectified Mosaic from Color Aerial Imagery of Pensacola Bay, FL - FL0703 - Phase II - Pensacola Bay (NODC Accession 0074383)	1
<b>Total Additions</b>		<b>123</b>

Table: Sample of the total metadata record additions (549) and modifications (2,571) that were made to the CoRIS metadata library in FY 2011.

**Data provided by CoRIS to a NOAA National Data Center for archiving**

<b>Office</b>	<b>Name</b>
NMFS	Ichthyoplankton (biological) data collected aboard the NOAA ship Nancy Foster during cruise 0903 (NODC Accession 0071978)
NMFS	Fisheries Biology and Stock Assessment Division (FBSAD) Recruit and Predator Reef Fish Belt Transect and Habitat Surveys at Big Island (Hawaii Island) in May-June 2009 (NODC Accession 0073870)
OAR	Seawater temperature and salinity moored time-series records, collected during 2010 and 2011 in Vieques Sound and Virgin Passage (NODC Accession 0077910)

## ***New Publications in FY11***

<b>Source</b>	<b>Count</b>
NESDIS	14
NMFS	95
NOS	40
OAR	3
NOAA	13
Miscellaneous	150
<b>Total</b>	<b>315</b>

The above table references, by Line Office, the number of CRCP-funded and other NOAA coral publications, websites, presentations, posters, brochures, videos, etc. that CoRIS received in FY 2011.

In FY 2011, staff successfully added a total of 315 publications into the CoRIS virtual library.

## ***Outreach Activities***

- CoRIS staff attended the U.S. Coral Reef Task Force meeting in Washington D.C. on February 24, 2011 and provided booth materials to the Fall 2011 meeting.
- The CoRIS team briefed Ms. Sissy Iona from the Hellenic National Oceanographic Data Centre in Attica, Greece about the CoRIS project and the role of NODC within the Coral Reef Conservation Program.
- The CoRIS team briefed Dr. Libby Jewett about the CoRIS project and CRCP data management activities as part of a larger discussion about establishing data management practices for NOAA's Ocean Acidification Program.
- CoRIS provided material for the slide-show in the NOAA booth and a fact sheet about the project for distribution at the 2011 ESRI Federal User Conference and the ESRI International User Conference.

## ***Coral Reef Conservation Program Support***

- CoRIS began to implement new product tracking procedures due to recent requirements outlined in the CRCP Matrix Budget Accountability Policy.
- Staff continued to send CRCP-funded Project Managers "overdue product letters" and/or requests for updates on outstanding products for fiscal years 2002-2011.
- CoRIS prepared an annual report and three quarterly status reports detailing web use trends and highlighting project accomplishments and CRCP Project Manager submissions related to metadata, data, publications, and information products.

- 288 items (new metadata, publications, etc.) were contributed by CoRIS to eight issues of NOAA's *Coral Reef News* newsletter during FY 2011.

## ***Collaborations***

- Based on requirements for the CRED online Data Access tool we modified the CoRIS search code to allow search terms to be passed as part of the URL string to enable CoRIS metadata documents to be returned as part of the user interface in the CRED Data Access tool.
- CoRIS continues to participate as a member of the following Data Management Working Group, Deep Sea Coral Working Group, CRCP Project Proposal Database Review Team, and Deep Sea Coral Coordination Call.
- Staff attends the monthly CRCP Program Manager Check-in meeting and Coral Collaboration calls.
- CoRIS participates in meetings and working groups that fall outside of the CRCP umbrella, , NESDIS Information Resource Management Team Metadata Meeting, NODC IT Systems Meeting, FGDC Metadata Working Group, NODC Archive Management Working Group, NODC Web Team and miscellaneous NODC Staff and Division Meetings.

## ***Web Site Content and Technical Improvements***

### ***General***

- CoRIS made updates to the website to increase the visibility of linkages between the CoRIS, CRCP, and USCRTF websites. The CRCP graphic identifier was added to all pages in the CoRIS website to brand the CoRIS search tool as a product of NOAA's Coral Reef Conservation Program. In addition, links to the CRCP and USCRTF websites are now included on every page of the CoRIS website.
- The CRCP General Program Description page (<http://coris.noaa.gov/activities/>) on the CoRIS website was updated to reflect changes to the program as outlined in the 2010- 2015 Goals and Objectives.
- A Retired Pages section was added to the CoRIS website (<http://coris.noaa.gov/retired/>). This new section will provide access to pages which have been removed from the primary website for historical reference.

### ***Data & Publications***

- In FY11 CoRIS received permission from the NOAA Library to include the full abstract for all entries within the CoRIS virtual library including journal articles. CoRIS staff updated all journal articles previously entered into the library to include both the abstract and link to the full text, where available. These additions will provide users with a better understanding of the work CRCP is doing.
- Overall navigation of the CoRIS website was improved to allow users to access and search CoRIS metadata, data and publications catalog from multiple entry points. Staff also restructured the Featured Publications section of the website to

better accentuate key documents produced by CRCP partners. A Featured Archive was added to host key documents that were featured in previous years.

### ***Regional Portal***

The Regional Portal provides users with a wide range of region specific data and information from a single page. CoRIS continued to provide region specific updates to the fourteen (14) regions on the website.

### ***Activities – Recent Coral Publications***

The following publications were featured on the CoRIS website in FY11:

- *NOAA Coral Reef Conservation Program MPA Management Assessment Checklist*-  
[http://data.nodc.noaa.gov/coris/library/NOAA/CRCP/other/other\\_crmp\\_publications/mpa\\_checklist/crcp\\_mpa\\_management\\_assessment\\_checklist.pdf](http://data.nodc.noaa.gov/coris/library/NOAA/CRCP/other/other_crmp_publications/mpa_checklist/crcp_mpa_management_assessment_checklist.pdf)
- *User's Guide for the NOAA Coral Reef Conservation Program MPA Checklist*-  
[http://data.nodc.noaa.gov/coris/library/NOAA/CRCP/other/other\\_crmp\\_publications/mpa\\_checklist/noaa\\_mpa\\_checklist\\_user\\_guide.pdf](http://data.nodc.noaa.gov/coris/library/NOAA/CRCP/other/other_crmp_publications/mpa_checklist/noaa_mpa_checklist_user_guide.pdf)
- *Saline-Saturated DMSO-EDTA as a Storage Medium for Microbial DNA Analysis from Coral Mucus Swab Samples*-  
[http://coris.noaa.gov/activities/dmsu\\_edta\\_microbial\\_dna/](http://coris.noaa.gov/activities/dmsu_edta_microbial_dna/)
- *Satellite Monitoring of Reef Vulnerability in a Changing Climate* -  
[http://coris.noaa.gov/activities/sm\\_reef\\_vulnerability/](http://coris.noaa.gov/activities/sm_reef_vulnerability/)

### ***Glossary/Acronym & Abbreviation List***

- The Glossary of Terminology is one of the most utilized resources on the CoRIS website. This year we added a search tool to increase the usability and functionality of this resource. The search tool allows a search of the glossary by term or definition using a key term or search phrase. The search tool can be accessed at: [http://www8.nos.noaa.gov/coris\\_glossary/glossaryterm.aspx](http://www8.nos.noaa.gov/coris_glossary/glossaryterm.aspx).
- The *CoRIS Glossary Reef Ecosystem Terminology* continues to grow and now has more than 6,350 coral reef ecosystem related definitions. In addition an updated pdf version of the *CoRIS Glossary* was made available for download. The PDF Glossary was updated to include additional terms and has been expanded with a more user friendly means of navigation within the file.
- CoRIS continues to update its Acronyms/Abbreviations List (<http://coris.noaa.gov/data/acronyms.html>), which now has more than 5,200 terms.