



Fiscal Year 2010 Coral Reef Information System (CoRIS) Accomplishments

Highlights

New Metadata and Data – Added 1,481 metadata records to CoRIS and made 6,831 record updates. At the conclusion of FY10 CoRIS had a total of 4,269 metadata records that provide users access to approximately 32,841 coral data products.

New Publications – Entered 542 publications into the CoRIS virtual library and cataloged an additional 154 titles in the NOAA Library, bringing the total number of publications in CoRIS to 2,813.

Outreach – CoRIS staff attended the Pacific Islands Fisheries Science Center (PIFSC) External Program Review for Scientific Data Management Systems and Capabilities, made site visits to the Southeast Fisheries Science Center (SEFSC) and the Atlantic Oceanographic, Meteorological Laboratory (AOML), Hollings Marine Laboratory, NCCOS - Center for Coastal Environmental Health and Biomolecular Research, and the NOAA Coastal Services Center.

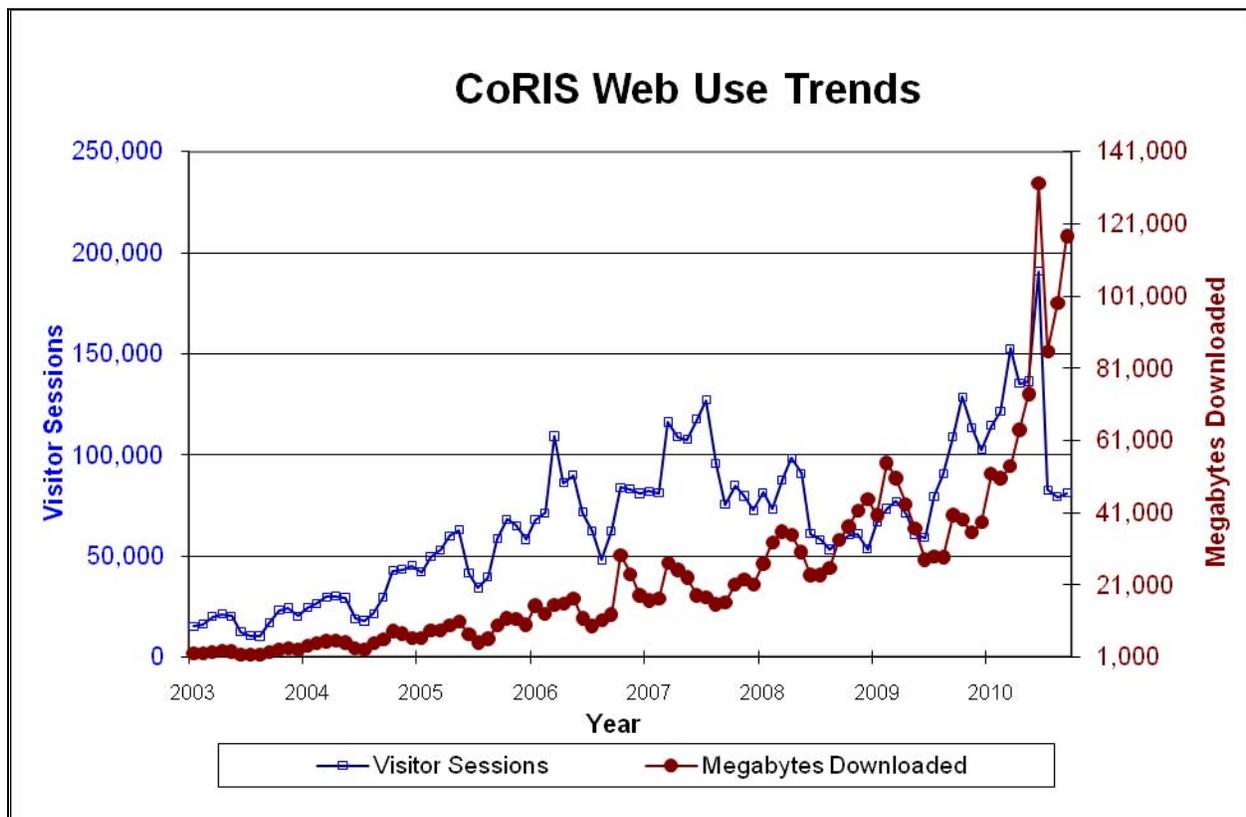
Coral Program Support – Provided monthly, quarterly, and annual reports to the CRCP office on coral projects that contributed metadata, data, and publications to CoRIS. CoRIS staff sent 114 “overdue product letters” to CRCP-funded project managers for updates on outstanding products for fiscal years 2002-2010.

Collaborations – Served as a member of the CRCP Project Tracking and Accountability Working Group, CRCP Data Management Working Group, CRCP Project Proposal Database Review Team, Deep Sea Coral Working Group, Deep Sea Coral Coordination Call, and other CRCP coordination groups, the U.S. Coral Reef Task Force Education and Outreach Working Group, NESDIS Information Resource Management Team Metadata Meeting, NODC IT Systems Meeting, NODC Web Team Meeting, NODC Archive Management Working Group, FGDC Metadata Working Group, etc.

Content and Technical Improvements – CoRIS restructured, reformatted and updated its “Key Documents” page, increased the functionality of the Coral Data search tool, and added a search tool for the Acronyms/Abbreviations List.

Performance Statistics

Element	September 2009	September 2010	% Change
Number of Metadata Files	3,045	4,269	+40.20%
Number of Publication References	2,135	2,813	+31.76%
Number of Data & Information Products (including publications)	33,447	36,260	+8.41 %
Number of Glossary terms	5,821	6,140	+ 5.48 %
Number of names in Taxonomic List	3,206	3,206	0.00 %
Number of Acronyms and Abbreviations	3,140	4,740	+50.96 %



Top Downloaded Documents

Publication Name	# of FY10 - Downloads
A National Coral Reef Action Strategy	33,034
A Reef Manager's Guide To Coral Bleaching	31,190
Coral Health and Disease in the Pacific: Vision for Action	30,192
Demographic Baseline Report of U.S. Territories and Counties Adjacent to Coral Reef Habitats	23,756
Determining Thermal Capacitance for Protected Area Network Design in Palau	22,229
Implementation of the National Coral Reef Action Strategy: Report to Congress (2008)	20,623
NOAA's Coral Reef Ecosystem Research Plan for Fiscal Years 2007 to 2011	19,002
Proceedings of the International Workshop on Red Coral Science, Management, and Trade: Lessons from the Mediterranean	16,209
Status of Caribbean Coral Reefs after Bleaching and Hurricanes in 2005	15,450
The State of Deep Coral Ecosystems of the United States	10,225

Note: Number of FY10 downloads includes counts of partial downloads. The National Coral Reef Action Strategy, for example, can be downloaded in its entirety, or in sections. The number of downloads reported here includes the total of all complete and partial downloads.

Accomplishment Details

New Data and Metadata

Number of metadata records within CoRIS by Line Office

Office/Group	Records Added in FY10	Total Records in CoRIS
NESDIS	25	455
NMFS	1303	2,666
NOS	147	973
OAR	6	164
Miscellaneous	0	11
Total	1,481	4,269

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

Source	Description	Count
NESDIS	Sea surface temperatures from AVHRR	1
NMFS	FBSAD Recruit and Predator Reef Fish Belt Transect Surveys and Reef Fish-Habitat Quadrat Surveys at Hawaii and Midway 2008	3
NMFS	CRED Coral Reef Early Warning System (CREWS) Enhanced Buoy data for the Pacific Remote Island Areas	2
NMFS	CRED Subsurface Temperature Recorder (STR) data for the Northwestern Hawaiian Islands, American Samoa and the PRIAs	91
NMFS	CRED Wave and Tide Recorder (WTR) data for the Northwestern Hawaiian Islands, American Samoa and the PRIAs	5
NMFS	CRED Sea Surface Temperature (SST) Buoy data for American Samoa and the PRIAs.	4
NMFS	CRED Ocean Data Platform (ODP), Temperature and Conductivity Recorder Data for Jarvis Island, Midway Atoll and Baker Island	3
NMFS	Gridded Geomorphology data files for Ta'u Island	4
NMFS	Gridded Geomorphology data files for Rose Atoll	4
NMFS	Gridded Bathymetry Rode Atoll and Ta'u Island	8
NMFS	2010 CRED REA Line Point Intercept Surveys of Benthic Parameter Assessments for American Samoa and the Pacific Remote Island Areas	11
NMFS	2005 CRED REA Algal Assessments for the Commonwealth of the Northern Marianas Islands	16
NMFS	CRED Cumulative Map of Percent Scleractinian Coral Cover at Ta'u	1
NMFS	CRED Optical Validation Data at the island of Ta'u in American Samoa, 2004 & 2006	2
NMFS	Ichthyoplankton (biological) data collected aboard the NOAA Ship Gordon Gunter during cruise 0701	1
NODC archive	Kahekili, West Maui, Hawaii Fish and Benthic Data from Surveys in January and August 2008 (NODC Accession 0065597)	1
NODC archive	Benthic data for corals, macroalgae, invertebrates, and non-living bottom types from Fagatele Bay, Pago Pago, and Fagasa, American Samoa, 2004-2008. (NODC Accession 0066319)	1
NODC archive	US Environmental Protection Agency National Coastal Assessment for Hawaii 2002 (NODC Accession 0061250)	1
NOS	C-CAP Land Cover, United States Virgin Islands	6
NOS	Impervious Surfaces, Islands of Niihau and Hawaii	2
NOS	Vieques, Puerto Rico Benthic Habitat Maps, IKONOS Imagery, Ground Validation and Accuracy Assessment Sites	10
NOS	Environmental Sensitivity Index (ESI) Atlas, Gulf of Mexico, Upper Coast of Texas 1996, Louisiana 2003, Mississippi 2009, Alabama 2007, Florida 1995-2003 maps and geographic information systems data (NODC Accession 0064870)	1
Total Additions		178
Total Metadata Record Updates and Enhancements		1590

The above table is a sample of metadata record additions (1,481) and modifications (6,831) that were made to the CoRIS metadata library in FY 2010.

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

Office	Name
NMFS	FBSAD PREDATOR Reef Fish Belt Transect Survey at Hawaii Island (Big Island), Main Hawaiian Islands, 2008; and Midway Atoll, Northwestern Hawaiian Islands (NWHI), 2008 (NODC Accession 0067519)
NMFS	FBSAD Reef Fish-HABITAT Quadrat Surveys at Hawaii Island (Big Island, Main Hawaiian Islands), 2008; and Midway Atoll (Northwestern Hawaiian Islands), 2008 (NODC Accession 0067519)
NMFS	FBSAD RECRUIT Reef Fish Belt Transect Survey at Hawaii Island (Big Island), Main Hawaiian Islands, 2008; and Midway Atoll, Northwestern Hawaiian Islands (NWHI), 2008 (NODC Accession 0067519)

New NOAA Publications in FY10

Source	Count
NESDIS-NODC	10
NESDIS-STAR	64
NMFS-HC	127
NMFS-PIFSC	23
NMFS-SEFSC	42
NMFS-SERO	11
NOS-IPO	40
NOS-NCCOS	24
NOS-OCRM	12
NOS-ONMS	21
OAR-AOML	8
Coral Reef News and Deep Coral Update	6
Miscellaneous	17
Total	408

The above table references, by Line Office and Program, the number of CRCP-funded and other NOAA coral publications, websites, presentations, posters, brochures, videos, etc. that CoRIS received in FY 2010.

In addition, CoRIS cleared the backlog of CRCP-funded publications previously maintained by the project. In the past 18 months more than 750 publications from CRCP Project

Managers, Grantees, and other NOAA partners that had accumulated since 2002 were cataloged in the CoRIS virtual library and the NOAA Libraries.

In FY 2010, staff successfully added a total of 542 publications into the CoRIS virtual library, modified and re-published existing titles as needed, and cataloged 154 publications in the NOAA Library.

Outreach Activities

- CoRIS staff attended the U.S. Coral Reef Task Force meeting in Washington D.C. on February 25, 2010 and provided booth materials to the September 2010 meeting.
- CoRIS staff traveled to Charleston from May 5-7, 2010 to meet with staff at the Hollings Marine Laboratory, NCCOS - Center for Coastal Environmental Health and Biomolecular Research, NIST, Southeast Regional Office Habitat Conservation - NMFS and the NOAA Coastal Services Center.
- CoRIS staff traveled to Miami from March 2-5, 2010 to meet with CRCP partners at the Southeast Fisheries Science Center (SEFSC) and the Atlantic Oceanographic and Meteorological Laboratory (AOML). The site visit included meetings with 23 CRCP Project Managers and staff members, who are a part of AOML, multiple SEFSC facilities in the Southeast (Miami, St. Petersburg, Panama City, FL and Galveston, TX), the Southeast Regional Office (SERO), and the Office of Ocean and Coastal Resource Management (OCRM).
- CoRIS staff attended the PIFSC External Program Review for Scientific Data Management Systems and Capabilities on July 20-22, 2010 and met with staff from the Coral Reef Ecosystem Division after the workshop to discuss the status of CRCP deliverables and provide an overview on the planned enhancement to the CoRIS system.

Coral Reef Conservation Program Support

- Staff sent CRCP-funded Project Managers 114 “overdue product letters” and/or requests for updates on outstanding products for fiscal years 2002-2010.
- CoRIS prepared 3 quarterly status reports detailing web use trends and highlighting project accomplishments and CRCP Project Manager submissions related to metadata, data, publications, and information products.
- 378 items (new metadata, publications, etc.) were contributed by CoRIS to 10 issues of NOAA’s *Coral Reef News* newsletter during FY 2010.

Collaborations

- CoRIS continues to participate as a member of the following CRCP working groups: Project Tracking and Accountability Working Group, Data Management Working Group, Deep Sea Coral Working Group, CRCP Project Proposal Database Review Team, and Deep Sea Coral Coordination Call.

- CoRIS hosts a regular teleconference with PIFSC CRED staff to discuss on-going actions items and outstanding CRCP products.
- 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, including the U.S. Coral Reef Task Force Education and Outreach Working Group, 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

Data & Publications

- To improve the functionality of the CoRIS Web site, staff updated the Coral Data search tool to point to html copies of Federal Geographic Data Committee (FGDC) metadata records. The html metadata records are presented so that text will wrap in the browser window, all URLs will be represented as active hyperlinks, and a Table of Contents will be included to allow for easier navigation between different metadata sections.
- CoRIS staff restructured, reformatted, and added content to the “Key Documents” page, http://coris.noaa.gov/data/key_docs.html. This page includes links to important Legislative Mandates, the U.S. Ocean Action Plan, Reports to Congress, CRCP Strategic Guidance, Reports on the Status of Coral Ecosystems, the CRCP Technical Memorandum Series, and CRCP Accomplishment Reports.
- CoRIS staff developed the data and publications RSS feeds in response to multiple requests from users that CoRIS make new (and recent) data and publications in the CoRIS catalog more easily discoverable on the website. There are now two dynamic RSS feeds now available on the website which are updated daily. One feed lists the 50 most recent publications added to the catalog while the second feed lists the 50 most recent metadata records which have been added or updated in the system.
- The overall performance of the CoRIS Map Search tool was improved. The updated tool has increased navigability and allows faster loading for users with slow internet connections.
- CoRIS staff restructured the workflow for cataloging CRCP and other NOAA coral publications in the CoRIS virtual library and NOAA Central Library. This involved intense collaboration with NOAA Central Library staff and resulted in an exponential growth in the number of coral ecosystem-related publications submitted to and cataloged by the NOAA Library as well as the number of publications cataloged by CoRIS staff in the CoRIS virtual library. The new cataloging protocols and procedures greatly expedited the clearing of the backlog of CRCP-funded and other NOAA coral publications that had been maintained by CoRIS.

Regional Portal

- The Regional Portal provides users with a wide range of region specific data and information from a single page. In FY10 CoRIS staff completed the Regional Portal metadata records for the final location (NWHI). Tagging efforts for nine locations were completed in less than 18 months time. This achievement permitted CoRIS to submit an important deliverable to the CRCP two and a half years ahead of schedule. In the finalized portal there are fourteen (14) regions with appropriate geographic tags to enhance targeted metadata searches.

Ecosystem Essays & Professional Exchanges

- As part of its continuing efforts to better serve users by presenting region-specific coral data and information in a clear, concise, and integrated manner, CoRIS developed two new ecosystem essays; one about the Republic of Palau, the other about Guam. The essays can be viewed at: http://coris.noaa.gov/about/eco_essays/palau/ and http://coris.noaa.gov/about/eco_essays/guam/welcome.html.
- A new professional exchange about the Chagos Islands Marine Protected Area was added to the website <http://coris.noaa.gov/exchanges/chagos/>.
- A new professional exchange about the IndoPacific lionfish invasion of the U.S. south Atlantic sea coast and Caribbean Sea was added to the website <http://coris.noaa.gov/exchanges/lionfish/>

Activities – Recent Coral Publications

The following publications were featured on the CoRIS website in FY10:

- *Proceedings of the First International Workshop on Corallium Science, Management, and Trade* - http://coris.noaa.gov/activities/1st_intl_wkshop/
- *NOAA Coral Reef Ecosystem Integrated Observing System (CREIOS) Workshops Report* - <http://coris.noaa.gov/activities/creios/>
- *Determining Thermal Capacitance for Protected Area Network Design in Palau* - http://coris.noaa.gov/activities/thermal_tech/
- *Report to Congress on the Implementation of the Deep Sea Coral Research and Technology Program 2008-2009* - http://coris.noaa.gov/activities/reportcongress_dscrtp_2010/
- *Proceedings of the International Workshop on Red Coral Science, Management, and Trade: Lessons from the Mediterranean* - http://coris.noaa.gov/activities/lessons_mediterranean/
- *Demographic monitoring protocols for threatened Caribbean Acropora spp. Corals* - http://coris.noaa.gov/activities/dmp_acropora_spp/
- *Cooperative Multi-Agency Reef Fish Monitoring Protocol - Florida Keys Coral Reef Ecosystem* - http://coris.noaa.gov/activities/fish_monitoring_protocol/

- *Implementation of the National Coral Reef Action Strategy: Report on NOAA Coral Reef Conservation Program Activities from 2007 to 2009* - http://coris.noaa.gov/activities/reportcongress07_09/
- *NOAA Strategic Plan for Deep-Sea Coral and Sponge Ecosystems: Research, Management, and International Cooperation* - http://coris.noaa.gov/activities/deepsea_coral/

Glossary/Acronym & Abbreviation List

- CoRIS launched a revised version of the *Glossary* application and a new dynamic version of the *Acronym/Abbreviation List*. The *Glossary* application was updated to meet current NOAA IT security requirements. The *Acronym/Abbreviation List* was converted from static html to an asp.net application.
- CoRIS added a search tool for the *Acronym/Abbreviation List* to increase the usability and functionality of this expanding resource. This new feature gives users the ability to quickly search the list by acronym or keyword, thus providing accurate concise search results.
- The *CoRIS Glossary Reef Ecosystem Terminology* continues to grow and now has more than 6,180 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 4,700 terms.