



## The NOAA Coral Reef Conservation Program (CRCP) Coral Reef Information System (CoRIS) Status Report on Metadata, Data and Information Resources April – June 2008

### ***CoRIS Product Highlights***

***Metadata*** - The 2132 CoRIS metadata records provide managers, researchers and the public access to 20193 coral data products via the CoRIS web site portal. As can be seen in Table 2, CoRIS is still acquiring metadata for some of the earlier, as-well-as recent CRCP data sets. CoRIS staff added 46 new metadata records, and updated several hundred records.

#### ***Data –***

CoRIS received:

CRED Mooring for Guam, CNMI, and Wake for 2005-2007

NOAA ICON for La Parguera, Puerto Rico, St. Croix, Bahamas and Jamaica 2007

SEAKEYS 2007

NOS 2007 Hawaii Benthic Habitat

Florida Bottom Temperature 2005-2007

CRED Geomorphology for Tutuila 2005-2007

CRED NWHI REA Algae 2006

CRED MHI REA Algae 2006

CRED American Samoa REA Algae 2006

CRED REA Algae Tutuila 2004

***Publications, etc.*** - CoRIS received 15 coral publications, reports, web sites, presentations, posters, brochures, citations, and videos for addition to the CoRIS Library from April to June 2008.

Via the CoRIS web site the NOAA Library provides access to 1192 coral publications, referenced in the NOAA Library, as well as access to another 547 NOAA and other coral reef publications and online resources.

### ***Tables***

CoRIS is gathering coral reef data and publications from CRCP funded coral projects for users of the CoRIS web site, the NOAA portal to coral reef data and information. The following tables present summaries and details of CoRIS metadata, data and publication references, from NOAA's coral reef projects and other sources.

**Table 1 - Summary of CoRIS Data and Information Items**

|         | Available via CoRIS Web Site |               |                  |                            |   |                          |
|---------|------------------------------|---------------|------------------|----------------------------|---|--------------------------|
|         | Metadata Records             | Data Products | Metadata Working | Data Files Served by CoRIS | Pubs, Reports, Websites, etc. available | New Pubs, Websites, etc. |
| Oct-03  | 301                          | 9180          | 105              | 2                          | 718                                     | -                        |
| Sep-04  | 597                          | 9730          | 107              | 170                        | 822                                     | -                        |
| Sep-05  | 1027                         | 13781         | 85               | 246                        | 935                                     | -                        |
| Sep-06  | 1424                         | 16697         | 109              | 960                        | 1089                                    | -                        |
| Sep-07  | 1826                         | 19855         | 167              | 1285                       | 1155                                    | 431                      |
| Mar-08  | 2086                         | 21385         | 559              | 1431                       | 1186                                    | 547                      |
| June 08 | 2132                         | 20193         | 628              | 1769                       | 1192                                    | 547                      |

Table 1 presents the count of CoRIS metadata, products, and publications; data served via the CoRIS web site; and metadata being prepared. (\*Now includes websites and other documents).

**Table 2 - Recent CoRIS Metadata Additions**

| Source     | Description  | Metadata    | Data Products |
|------------|--|-------------|---------------|
| NMFS/PIFSC | CRED Backscatter American Samoa 2004-2006                            | 12          |               |
| NMFS/PIFSC | CRED Drifters NW Hawaiian Islands, CNMI and American Samoa 2001-2005 | 34          | 28            |
|            | <b>Total Additions</b>   | <b>46</b>   | <b>28</b>     |
|            | Metadata record updates and enhancements                             | <b>~600</b> |               |

Table 2 lists new coral data products that have been added to CoRIS during the past three months that are available via the CoRIS web site.

**Table 3 - Metadata Undergoing Acquisition, Creation and CoRIS Review**

| Source      | Description  | Count |
|-------------|--|-------|
| NCCOS/CSCOR | Hawaii Coral Reef Initiative Data Sets                                 | 6     |
| NMFS/PIFSC  | CRED Optical Validation Coral Coverage and Track Maps (Not online yet) | 13    |
| NMFS/PIFSC  | CRED Time Series Moorings American Samoa 2006                          | 14    |
| NMFS/PIFSC  | CRED REA Algae Marianas 2005   | 16    |
| NMFS/PIFSC  | CRED Mooring for Guam, CNMI, and Wake                                  | 29    |

|             |  |     |
|-------------|--|-----|
|             | NOAA ICON for La Parguera, Puerto Rico, St. Croix, Bahamas and Jamaica   | 4   |
| NMFS/PIFSC  | PIBHMC Multibeam for Jarvis, Howland, Baker, Johnston, Palmyra, and Kingman Islands and all islands of American Samoa. | ~30 |
|             | SEAKEYS 2007   | 6   |
| NMFS/PIFSC  | PIBHMC Gridded Bathymetry and Backscatter Products NWHI 2002-2006  | ~40 |
| NMFS/PIFSC  | CRED REA Algae Assessments Taxonomy  | 63  |
| NOS/NCCOS   | NCCOS 2007 Puerto Rico Bathymetry  | ~65 |
| NOS/NCCOS   | NOS 2007 Hawaii Benthic Habitat  | 37  |
| NOS/NCCOS   | NOS Underwater Video and Still Ground Validation Imagery of the Florida Keys   | 1   |
| NMFS/PIFSC  | CRED Geomorphology Tutuila   | 5   |
| NOS         | Coastal Change Analysis Project 1391   | 1   |
| NOS         | Florida Reef Track Bottom Temperatures   | 47  |
| NMFS/PIFSC  | CRED REA Coral Wake 2007   | 1   |
| NMFS        | Pulley Ridge Multibeam 2007  | 1   |
| NMFS        | SEFSC Multibeam 2006   | 4   |
| NODC        | NODC Metadata to be CoRIS-ized   | 38  |
| NMFS/PIFSC  | CRED Shallow CTD   | 30  |
| NMFS/PIFSC  | CRED REA Algal Assessment PRIA 2008  | 3   |
| NMFS/PIFSC  | CRED REA Benthic Cover PRIA 2008   | 3   |
| NMFS/PIFSC  | CRED REA Coral Disease PRIA 2008   | 3   |
| NMFS/PIFSC  | CRED REA Corals PRIA 2008  | 3   |
| NMFS/PIFSC  | CRED Fish Belt Transects and Species Count PRIA 2008   | 6   |
| NMFS/PIFSC  | CRED Shallow CTD PRIA 2008   | 3   |
| NMFS/PIFSC  | CRED NWHI REA Algae 2006   | 8   |
| NMFS/PIFSC  | CRED MHI REA Algae 2006  | 9   |
| NMFS/PIFSC  | CRED REA Algae Tutuila 2004  | 1   |
| NMFS/PIFSC  | CRED REA Invertebrates PRIA 2008   | 3   |
| NOS/NCCOS   | Seafloor Characterization of Caribbean 2007  | 66  |
| NMFS/PIFSC  | CRED FBSAD Recruit Reef Fish Belt Transect and Reef-Fish Habitat Quadrat Survey  | 2   |
| NMFS/PIFSC  | PIBHMC Gridded Bathymetry and Backscatter Products PRIA 2006   | 13  |
| NESDIS/NODC | Florida Reef Track Bottom Temperatures 1988-2007   | 47  |

|            |  |            |
|------------|--|------------|
| NMFS/SEFSC | Florida Middle ground 2006, Fill in area 200508 and 200607, corridor area 200507 and 2006, Steamboat lumps 2006, | 4          |
| NMFS/SEFSC | West Florida Shelf Mapping Project 2006 Corridor area and Fill area  | 2          |
| NMFS/SEFSC | Otolith Microchemistry of Snappers from Southern Florida 2001-2002   | 1          |
|            | <b>Total</b>   | <b>628</b> |

Table 3 lists products for which CoRIS is preparing, or assisting coral reef project representatives with metadata preparation.

**Table 4a - Other Coral Products Received**

| <b>Source</b>          | <b>Description</b>                               | <b>Count</b> |
|------------------------|--|--------------|
| NOAA Coral Email List  | Digital - Brochure and Fact Sheet (PDF format)   | 2            |
| NOAA Coral Reef Update | Digital - Journal Article (PDF format)           | 1            |
| NOAA Coral Reef Update | Citation - Book and Journal Article              | 2            |
| NESDIS/ORA             | Digital - Reports (PDF format)                   | 3            |
| NESDIS/ORA             | Web Site   | 1            |
| NMFS/PIFSC/CRED        | Citation - Journal Articles                      | 2            |
| NMFS/SEFSC             | CD - Report (PDF format)                         | 1            |
| NMFS/SER               | CD - Guide Document (PDF format)                 | 1            |
| NMFS/SER               | Hard Copy - Guide Document                       | 1            |
| NOS/NCCOS              | Digital - NOAA Technical Memorandum (PDF format) | 1            |
|                        | <b>Total Products</b>                            | <b>15</b>    |

Table 4a lists new CRCP and other coral publications, reports, web sites, and other products that have been provided to CoRIS for addition to the CoRIS Library. Appendix II presents details of all items received.

**Table 4b - Other Coral Products Received (Not for Addition to the CoRIS Library)**

| <b>Source</b> | <b>Description</b>                  | <b>Count</b> |
|---------------|-------------------------------------|--------------|
| NOS/SP        | Digital -Trip Reports (Word format) | 3            |
|               | <b>Total Products</b>               | 3            |

Table 4b lists all CRCP and other coral products that have been provided to CoRIS that are not for addition to the CoRIS Library. They may be sensitive, incomplete, or draft items. Appendix III presents a complete list of all items received.

**Table 5a - Coral Reef Data Products served by CoRIS**

| <b>Source</b> | <b>Description</b>   | <b>Count</b> |
|---------------|--|--------------|
| NMFS/SEFSC    | Madison-Swanson and Twin Ridges bathymetry (deep water coral)  | 2            |
| NMFS/SEFSC    | Multibeam Survey products SAB Georgia and South Carolina and Oculina Banks   | 8            |
| NMFS/SEFSC    | Air Surveys  | 5            |
| NMFS/SEFSC    | Navassa Benthic Habitat and Fish Census  | 2            |
| NMFS/SEFSC    | Fish Census  | 7            |
| OAR/NURC      | Oculina Banks Dive Narratives, Video Clips, GIS and Bathymetry (deep water coral)                                  | 30           |
| OAR/AOML      | ICON Stations (years)  | 14           |
| OAR/AOML      | SEAKEYS Stations (years)   | 32           |
| NOS/ORR       | Environmental Index Atlas Maps   | 479          |
| NOS/SP        | LandSat Mosaics of Freely Associated States  | 3            |
| NOS/CCMA      | USVI Bathymetry Browse   | 6            |
| NOS/NCCOS     | Summit2Sea Watershed Characterizations   | 2            |
| NMFS/PIFSC    | CRED Benthic Habitat for Fagatele Bay  | 3            |
| NMFS/PIFSC    | CRED Shallow CTD Casts   | 94           |
| NMFS/PIFSC    | CRED REA Algal Assessments   | 55           |
| NMFS/PIFSC    | CRED NWHI Bathymetry Atlas   | 90           |
| NMFS/PIFSC    | CRED Drifters (future)   | 54           |
| PIMS          | Water Temperatures Lee Stocking Island, Bahamas 1988-2003  | 15           |
| NMFS/PIFSC    | CRED TOAD for CNMI and American Samoa  | 10           |
| NMFS/PIFSC    | CRED REA Coral for PRIAs   | 1            |
| NMFS/ PIFSC   | CRED CTD Data 2000-2007  | 1            |
| NMFS/ PIFSC   | CRED REA Algae CNMI 2003-2005, PRIA 2004-2006, Wake 2005, Wake 2007, American Samoa 2004, MHI 2005, NWHI 2002-2004 | 86           |

|            |                                   |             |
|------------|-----------------------------------|-------------|
| NMFS/PIFSC | CRED REA Fish American Samoa 2006 | 5           |
| NMFS/PIFSC | CRED REA Fish CNMI 2007           | 13          |
| NMFS/PIFSC | CRED REA Fish CNMI 2005           | 17          |
| NMFS/PIFSC | CRED REA Fish MHI 2006            | 8           |
| NMFS/PIFSC | CRED REA Fish NWHI 2006           | 8           |
| NMFS/PIFSC | CRED REA Fish PRIA 2006           | 6           |
| NMFS/PIFSC | CRED REA Fish Wake 2005           | 1           |
| NMFS/PIFSC | CRED REA Fish Wake 2007           | 1           |
| NESDIS/ORA | Land Change Analysis              | 22          |
| NESDIS/ORA | Palau Modeling                    | 181         |
| NESDIS/ORA | Satellite Bleaching Alerts        | 508         |
|            | <b>Total Files</b>                | <b>1769</b> |

Table 5a lists coral reef data, or products available from the CoRIS server. CoRIS usually obtains metadata for coral reef data and products and links to the originator's web site for user access, or provides information so the user can obtain the coral reef product. These datasets are served by CoRIS with the originator's permission in the interim until they are served by a National Archive.

**Table 5b – Coral Reef Data Products received by CoRIS for serving in the future**

| Source      | Description  | Count      |
|-------------|--|------------|
| NOS/NCCOS   | Benthic Habitat NWHI & MHI 2002                              | 43         |
| NOS/NCCOS   | Benthic Habitats for Puerto Rico and USVI                    | 267        |
| NOS/NCCOS   | Benthic Habitats US Pacific Islands                          | 212        |
| OAR/ICON    | ICON Meteorological and Oceanographic Observations           | 5          |
| NMFS/PIFSC  | CRED Gridded Bathymetry CNMI Guam                            | 14         |
| OAR/SEAKEYS | SEAKEYS Meteorological and Oceanographic Observations        | 6          |
| NMFS/PIFSC  | PIBHMC Gridded Products for American Samoa, CNMI, NWHI, Guam | 61         |
| NMFS/PIFSC  | CRED Geomorphology   | 5          |
| NMFS/PIFSC  | CRED FBSAD Recruit Reef Fish                                 | 2          |
| NOS/NCCOS   | Seafloor Characterization of the Caribbean 2004-2006         | 110        |
|             | <b>Total</b>   | <b>725</b> |

Table 5b lists new coral reef data, or products recently received by CoRIS. They are in the process of being made available from the CoRIS server.

**Table 6 - Coral Reef Data Products provided by CoRIS to NOAA National Data Centers**

| Archive | Description   | Datasets | Files |
|---------|---|----------|-------|
| NODC    | Florida Reef Fish Visual Census Species Site Matrix<br>NODC 0001394 | 1        | 20    |

|           |  |           |            |
|-----------|--|-----------|------------|
| NODC      | Environmental Index Atlas Maps for Virgin Islands<br>NODC Number 0002069           | 1         | 14         |
| NODC      | Environmental Sensitivity Index American Samoa 2003                                | 1         | 8          |
| NODC      | Environmental Sensitivity Index Guam-CNMI 2006                                     | 1         | 5          |
| NODC      | Environmental Sensitivity Index Hawaii 2001  | 1         | 96         |
| NODC      | Environmental Sensitivity Index Puerto Rico 2002                                   | 1         | 68         |
| NODC      | Environmental Sensitivity Index East Florida 1996<br>NODC 0004150                  | 1         | 19         |
| NODC      | Environmental Sensitivity Index West Florida NODC<br>0006249                       | 1         | 65         |
| NODC      | Environmental Sensitivity Index Upper West Peninsular<br>Florida 1996 NODC 0006377 | 1         | 45         |
| NODC      | Environmental Sensitivity Index Lower West Peninsular<br>Florida 1996 NODC 0006394 | 1         | 42         |
| NODC      | Environmental Sensitivity Index South Florida 1996<br>NODC 0006539                 | 1         | 54         |
| NODC      | Drift Card Survey Barbers Point Oahu 2002-2005                                     | 1         | 1          |
| NODC      | CRED Shallow CTD PRIA 2004 OES0404   | 1         | 135        |
| NODC/NGDC | CRED Bathymetric Atlas of the NWHI 2003  | 1         | 90         |
| NODC/NGDC | Gridded Bathymetry US Pacific Islands 2003-4                                       | 2         | 15         |
| NODC/NGDC | Georgia and South Carolina SAB Bathymetry and<br>Backscatter 2005                  | 2         | 4          |
| NODC/NGDC | Oculina MPA Bathymetry and Backscatter 2005  | 2         | 2          |
|           | <b>Total</b>   | <b>20</b> | <b>453</b> |

Table 6 lists the products CoRIS has submitted to a National Data Center for the Coral Archive.

**Table 7 - Coral Reef References compiled by the NOAA Library for CoRIS**

| <b>Library Resources</b>   | <b>Count</b> |
|--|--------------|
| Publications referenced in the NOAA Library Catalog,<br>including online full text documents, digital images, digital<br>videos, digital maps, home pages, electronic media, and<br>e-books. | 1192         |
| NOAA and other coral reef publications and online<br>resources   | 547          |
| <b>Total</b>   | <b>1739</b>  |

Table 7 presents the number of coral reef publications and web sites available from the “Coral” NOAA Library.