

**Library and Information Services Division
Current References 2008-2
(Rev. August 2012)**

**National Oceanographic Data Center Publications and Products
in the NOAA Central Library Network, 1961-2012
A Bibliography**



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National Oceanic and Atmospheric Administration
National Environmental Satellite, Data, and Information Service
National Oceanographic Data Center
Library and Information Services Division
November 2008; Revised August 2012



Preface to 2012 Revision

This update to the *Bibliography* has been greatly enhanced and enlarged by adding *Section IV. Journal Articles by NODC Staff, 1961-June 2012*. This section includes peer-reviewed publications, journal articles, and conference contributions from the scientists and staff of the National Oceanographic Data Center (NODC). This section has been developed by librarians Chris Belter and Anna Fiolek and organized by author/title sequence in accordance with the *APA Citation Style Guide, 6th Ed*. It also includes selected citations from the *Publications by National Oceanographic Data Center personnel, 1960-2001*, compiled by Elaine V. Collins, August 17, 2001, which is available online at: http://docs.lib.noaa.gov/noaa_documents/NESDIS/NODC/LISD/Central_Library/current_references/current_references_2001-1.pdf.

Section III. Internet Resources and Products Developed in NODC has also been enlarged by additional online resources and products developed by NODC staff in support of the National Oceanic and Atmospheric Administration (NOAA) response to the Deepwater Horizon ecological disaster in the Gulf of Mexico in April 2010.

This cumulative *Bibliography* is published online under *LISD Current Reference Series 2008-2 (Revised August 2012)* and is available from the NOAA Central Library home page (*Subject Guides and Bibliographies* <http://www.lib.noaa.gov/researchtools/subjectguides/bibliographies.html>) and its online catalog – NOAALINC (<http://www.lib.noaa.gov/uhtbin/webcat/>). The *Bibliography* may also serve as an Internet locator for print and online resources by NODC Staff. Any comments and suggestions are welcomed.

Publications listed in this *Bibliography* as print only (without indication of an online access) may be requested through your local library's Interlibrary Loan (ILL) service. For more information, please consult the NOAA Central Library's ILL home page: <http://www.lib.noaa.gov/docs/ill.html>

This publication is available online for downloading in PDF and Microsoft Word formats at: http://docs.lib.noaa.gov/noaa_documents/NESDIS/NODC/LISD/Central_Library/current_references/Current_references_2008_2_update%202012.docx
http://docs.lib.noaa.gov/noaa_documents/NESDIS/NODC/LISD/Central_Library/current_references/Current_references_2008_2_update%202012.pdf

The recent revision of *Bibliography* would not have been possible without the assistance of librarian Joycelyn Carandang, who updated and enlarged the Authors Index, and without the editorial advice of Dr. Neal Kaske, Director of the Library and Information Services Division.

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August 31, 2012

Preface

This *Bibliography* is prepared to serve as a finding aid to the National Oceanographic Data Center (NODC) printed and online publications, excluding journal articles. The *Bibliography* includes citations organized “by title” from NOAALINC, the library's online catalog, and from the library's historical collections. The data and listings are comprehensive from the 1960s to the present. It is intended to be updated annually. The formats represented in this resource include print, CD-ROM/DVD, online full-text documents, and Web resources. This document complements and updates the *Publications by National Oceanographic Data Center personnel, 1960-2001*, compiled by Elaine V. Collins, August 17, 2001 which is available online at:

http://docs.lib.noaa.gov/noaa_documents/NESDIS/NODC/LISD/Central_Library/current_references/current_references_2001-1.pdf

This *Bibliography* is published online under LISD Current Reference Series 2008-2 and is available to the national and international communities via the NOAA Central Library home page and its online catalog - NOAALINC. The *Bibliography* may also serve as an Internet locator for printed and online resources by NODC Staff. Any comments and suggestions are welcomed.

Publications listed in this *Bibliography* may be requested through your local library's Interlibrary Loan (ILL) service. For more information, please view the NOAA Central Library's ILL home page:

<http://www.lib.noaa.gov/docs/ill.html>

This publication is available online for downloading in PDF format at:

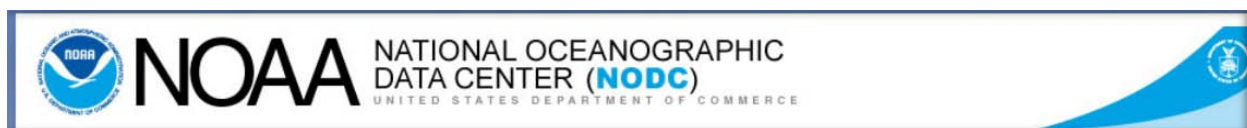
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I. NODC – History and Overview

On November 1, 1960, the National Oceanographic Data Center (NODC) started operations with 29 people as a Division of the Marine Science Department of the U.S. Navy Hydrographic Office in Suitland, Maryland. On December 23, 1960, the Interagency Charter (Department of the Navy, U.S. Coast and Geodetic Survey, the Bureau of Commercial Fisheries, the U.S. Weather Bureau, the National Science Foundation, and the Atomic Energy Commission) signed the formal document establishing NODC. On January 16, 1961, [NODC was formally dedicated](#) by the Honorable James H. Wakelin, Jr., the Assistant Secretary of the Navy for Research and Development, and the representatives of the supporting agencies [1.] On October 6, 1970, by Executive Order #11564, NODC was transferred to NOAA and became part of the NOAA Environmental Data Service (EDS) which was later renamed the Environmental Data and Information Services (EDIS). This NOAA component was merged in 1982 with the NOAA National Environmental Satellite Service to form the National Environmental Satellite, Data, and Information Service (NESDIS), one of the six major line organizations within NOAA. NODC remains a line item within the NESDIS leadership.

Since 1970, the National Oceanographic Data Center (NODC) has been one of the national environmental data centers operated by the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce. The main NODC facility is located in Silver Spring, Maryland, and is made up of five divisions as indicated in Figure 1. NODC also has field offices co-located with major government or academic oceanographic laboratories in Stennis Space Center, MS; Miami, FL; La Jolla, CA; Seattle, WA; and Honolulu, HI.

Besides NODC, [NOAA](#) operates two other data centers: the [National Climatic Data Center](#) (NCDC) in Asheville, North Carolina, and the [National Geophysical Data Center](#) (NGDC) in Boulder, Colorado.

The [National Oceanographic Data Center](#) is an organization that provides scientific and public stewardship for national and international marine environmental and ecosystem data and information. The National Oceanographic Data Center, the [National Coastal Data Development Center](#) (NCDDC), and the [NOAA Central Library](#) (NCL) with its regional branch assets are integrated to provide access to the world's most comprehensive sources of atmospheric and marine environmental data and information. NODC maintains and updates a national ocean archive with environmental data acquired from domestic and foreign organizations and produces products and research from these data which help monitor global environmental changes. These data include physical, biological, and chemical measurements derived from *in situ* oceanographic observations, satellite remote sensing of the oceans, and ocean model simulations. NODC manages and operates the [World Data Center \(WDC\) for Oceanography](#). Its personnel directly interact with Federal, state, academic, and industrial oceanographic organizations; represent NESDIS on various interagency domestic panels, committees, and councils; and represent the United States in various international organizations such as the International Oceanographic Data Exchange (IODE). The Data Center represents [NESDIS](#) and [NOAA](#) to the general public, government agencies, private institutions, foreign governments, and the private sector on matters involving oceanographic data.

NODC manages the world's largest collection of publicly available oceanographic data. NODC holdings, include *in situ* and remotely-sensed physical, chemical, and biological oceanographic data from coastal

and deep ocean areas. These were originally collected for a variety of operational and research missions by: U.S. Federal agencies, including the Department of Defense (primarily the U.S. Navy) and Department of Commerce; State and local government agencies; universities and research institutions; and private industry. NODC data holdings extend back over one hundred years, and the volume is expected to grow exponentially as new ocean observing systems are deployed [2.]

Through NODC archive and access services these ocean data are being used to answer questions about [climate change](#), ocean phenomena, management of [coastal and marine resources](#), [marine transportation](#), [recreation](#), [national security](#), and [natural disasters](#). Another significant user community is academia where these data and information products help teach new generations of students about the oceans. Requests for oceanographic data and information have increased each year since the Center was established in 1961.

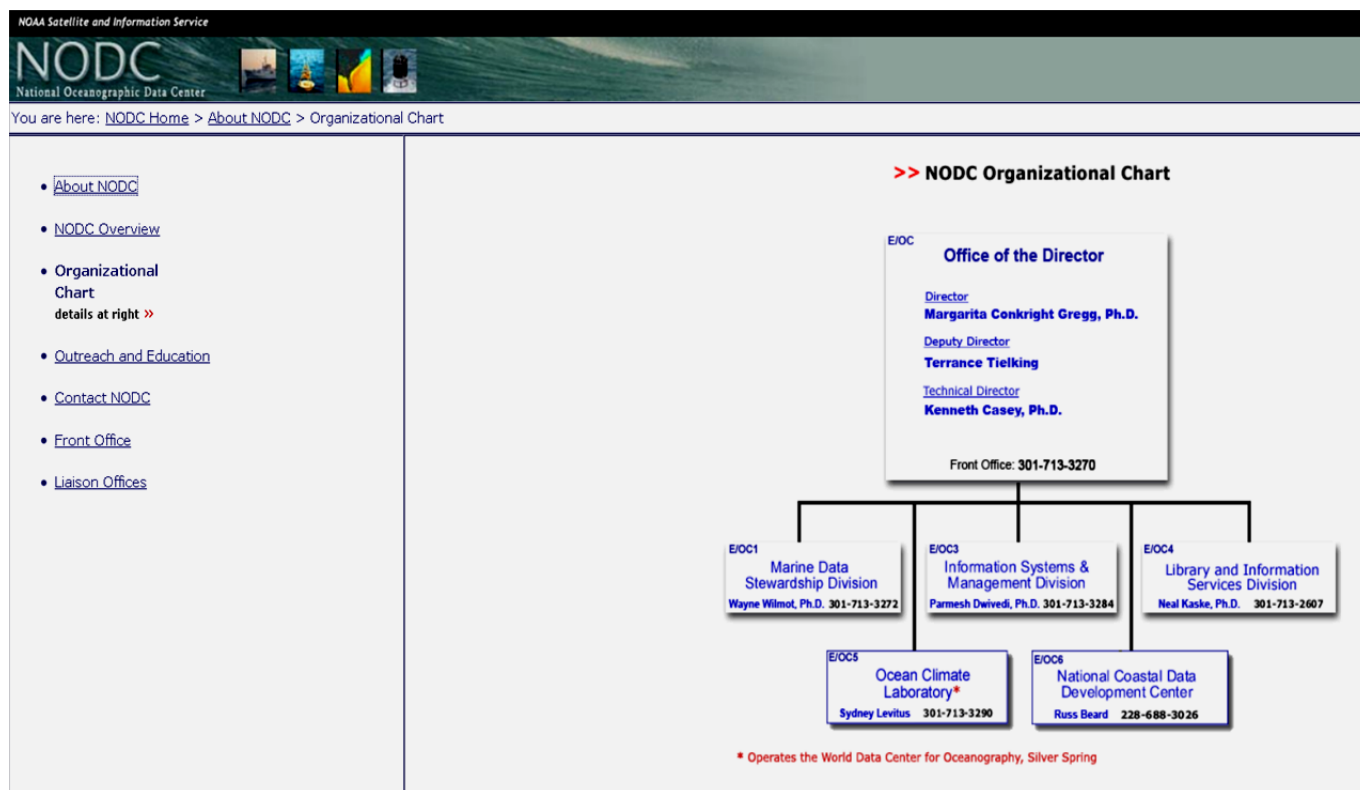


Figure 1. NODC Organizational Chart (<http://www.nodc.noaa.gov/General/NODC-About/orgchart.html>)

[1.] National Oceanographic Data Center: 35 years of oceanographic data management, science, and service. Washington, D.C.,1996?

[2.] National Oceanographic Data Center home page. NODC overview, at: <http://www.nodc.noaa.gov/General/NODC-About/NODC-overview.html>

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NOAA/NESDIS/NODC/Ocean Climate Laboratory. Silver Spring, Md. : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite, Data, and Information Service, [National Oceanographic Data Center, Ocean Climate Laboratory] ; St. Petersburg : Russian Academy of Sciences, Zoological Institute, 2003. (*NOAA atlas NESDIS* ; 57); (*International ocean atlas and information series* ; v. 7.)

Online access: http://www.nodc.noaa.gov/OC5/WH_SEA/WWW/HTML/Doc/index.html
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Acoustic Doppler Current Profilers. World Ocean Circulation Experiment, National Oceanic and Atmospheric Administration, JODC. [Southampton, U.K. : WOCE International Project Office, Data Information Unit ; Silver Spring, Md. : Available from the U.S. National Oceanographic Data Center, 1998.

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GC228.5 .W45 1998 disc 8

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Analysis of environmental conditions within specified geographical regions (U.S. coastal waters) : part I, meteorology. By the National Data Buoy Center, Interagency Ad Hoc Task Force ; Sidney O. Marcus, Jr., Task Force coordinator, National Oceanic and Atmospheric Administration, National Oceanographic Data Center. [Washington, D.C.] : National Oceanic and Atmospheric Administration, National Oceanographic Data Center, 1971.

QC994 .I57 1971

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GC37.5.K48

GC1 .N38k no.17

Belter, Chris, Bethany Craig, Joe Fillingham, Megan Mueller, and Katrina Phillips.

Anthropogenic radionuclides in the marine environment: a selected bibliography. Silver Spring, MD : National Oceanographic Data Center, NOAA Central Library, 2011-

Online access: http://www.lib.noaa.gov/researchtools/subjectguides/marine_radionuclides.html

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Z5862.2.R3 A58 2011 (Online)

Atlas of bathythermograph data; Indian Ocean. Washington, D.C. : National Oceanographic Data Center, 1966. (*NODC general series. Publication ;G-6.*)

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GC57 .N63 no.151

QH541.5.C65 B56 2002

GC57 .N6 no. 151

Matishov, G. G., P. Makarevich, S. Timofeev, L. Kuznetsov, N. Druzhkov, V. Larionov, V. Golubev, A. Zuev, N. Adrov, V. Denisov, G. Iliyn, A. Kuznetsov, S. Denisenko, V. Savinov, A. Shavikyn, I. Smolyar, S. Levitus, T. O' Brien, and O. Baranova.

Biological atlas of the Arctic seas 2000 : plankton of the Barents and Kara seas. Russian Academy of Sciences, Murmansk Marine Biological Institute ; U.S. Dept. of Commerce, NOAA, National Oceanographic Data Center, Ocean Climate Laboratory ; G. Matishov ... [et al.] ; I. Smolyar ... [et al.]. Silver Spring, Md. : The Laboratory, [2000]. Print and CD-ROM formats.

Abstract: Presented are physical and biological data for the region extending from the Barents Sea to the Kara Sea during 158 scientific cruises for the period 1913-1999. Maps with the temporal distribution of physical and biological characteristics of the Barents and Kara Seas are presented.

Changes in the plankton community structure between the 1930's, 1950's, and 1990's are discussed. Multiple tables of Arctic Seas phytoplankton and zooplankton species are presented, containing ecological and geographic characteristics for each species, and images of live cells for the dominant phytoplankton species. (*International ocean atlas series* ; v. 2)

Online access: <http://www.nodc.noaa.gov/OC5/BARPLANK/start.html>

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World ocean database 2005. Silver Spring, MD : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite, Data and Information Service, National Oceanographic Data Center, Ocean Climate Laboratory, 2006. (*NOAA atlas NESDIS*)
Online access: ftp://ftp.nodc.noaa.gov/pub/WOD05/DOC/wod05_intro.pdf
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World ocean database 2005 tutorial. Silver Spring, MD : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite, Data and Information Service, National Oceanographic Data Center, Ocean Climate Laboratory, 2006. (*Internal report (National Oceanographic Data Center (U.S.)* ; 19)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/WOD05/DOC/wod05_tutorial.pdf

Johnson, D. R., Boyer, T. P., Garcia, H. E., Locarnini, R. A., Mishonov, A. V., Pitcher, M. T., Baranova, O. K., Antonov, J. I., & Smolyar, I. V.

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Online access: ftp://ftp.nodc.noaa.gov/pub/WOD09/DOC/wod09_tutorial.pdf

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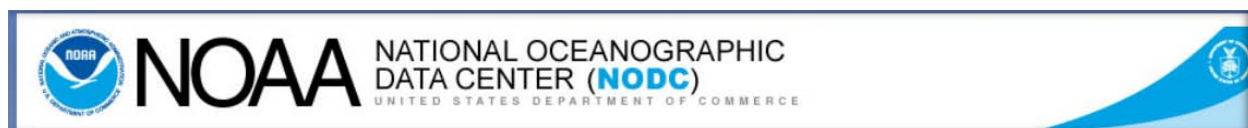
The Year of Darwin 2009 : Discovering Darwin at NOAA Central Library: Resources on Charles Darwin, Evolution, and the Galapagos Islands: A Selected Bibliography. Silver Spring, Md. : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Environmental, Satellite, Data, and Information Service, National Oceanographic Data Center, NOAA Central Library, 2009. (*Current references (National Oceanographic Data Center (U.S.). Library and Information Services Division*) ; 2009-1.)

Online access: <http://www.lib.noaa.gov/researchtools/subjectguides/darwinbib.pdf>

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Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/nedis40.pdf>
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Zooplankton of the Arctic Seas 2002. Laboratory of Marine Research, Zoological Institute, Russian Academy of Sciences ; World Data Center for Oceanography, Ocean Climate Laboratory, NODC/NESDIS/NOAA. [Silver Spring, Md. : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration], 2002. (*International ocean atlas and information series* ; v. 6.) ; *CD-ROM NODC* ; 161.
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III. Internet Resources and Products Developed in NODC

This section includes a list of the websites, home pages, and database portals developed by the NODC staff. All entries listed below have been accessed and viewed during July/August 2012.

2008 NOAA Extreme Weather Information Sheet (NEWIS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->
Online access: <http://www.ncddc.noaa.gov/activities/noaa-extreme-weather-information-sheet-newis/view>
“NOAA's National Coastal Data Development Center (NCDDC) produces the NOAA Extreme Weather Information Sheet (NEWIS) each year for the Atlantic hurricane season. It provides coastal residents with a “one stop” ready reference containing important contact phone numbers and internet web sites for emergency information in the state and local area. NCDDC produces one unique NEWIS product for each of the states of Texas, Louisiana, Mississippi, and Alabama. Currently, NCDDC divides Florida into four different Gulf Coast NEWIS sections, due to its large coastal area.”

Aquaculture Information Center. Silver Spring, MD : U.S. Dept. of Commerce, NOAA, NESDIS, National Oceanographic Data Center, Library and Information Services Division, <Last updated, July 14, 2008->
Online access: <http://www.lib.noaa.gov/docaqu/frontpage.htm>

Archived Deepwater Horizon Data – Ocean Archive System. Silver Spring, MD : National Oceanographic Data Center, 2010-, <Last updated, June 6, 2012->
Online access: <http://www.nodc.noaa.gov/cgi-bin/OAS/prd/accession/query/reports/dwh/all>

Biology data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Mar. 14, 2008->
Online access: <http://www.nodc.noaa.gov/General/biology.html>

Brown Bag Seminar series. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, 1994-present. <Last updated, Sept. 18, 2008->
Online access: <http://www.lib.noaa.gov/about/news/brownbagseminars.html>

Bulletin of the United States Fish Commission. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Jan. 6, 2007->

Online access:

[http://docs.lib.noaa.gov/rescue/Fish Commission Bulletins/data_rescue_fish_commission_bulletins.html](http://docs.lib.noaa.gov/rescue/Fish_Commission_Bulletins/data_rescue_fish_commission_bulletins.html)

“This site provides access to the Bulletin of the United States Fish Commission from 1881 to 1998 in PDF format.”

California Current Ecosystem Data Management. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/pacific-coast-ocean-observing-system-pacoos/view>

“The California Current Ecosystem Data Management project combines a number of real-time data streams from within the California Current Ecosystem (CCE) and links them to a preliminary Integrated Ecosystem Assessment (IEA). NOAA's National Coastal Data Development Center (NCDDC), NOAA's National Marine Fisheries Service (NMFS), NOAA's National Marine Sanctuary Program (NMSP), IOOS West Coast Regional Associations, and other Pacific Coastal Ocean Observing System (PaCOOS) technical partners are collaborating in this joint project.”

Chlorophyll data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Oct. 10, 2007->

Online access: <http://www.nodc.noaa.gov/General/chloro.html>

Belter C.

Climate Engineering Publications Available in Web of Science (1988-2011). Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division, <Last updated, July 21, 2012->

Online access: http://www.lib.noaa.gov/researchtools/subjectguides/climate_engineering.html

Online access (PDF):

http://www.lib.noaa.gov/researchtools/subjectguides/climate_engineering_bibliography.pdf

Climatology Products for the Deepwater Horizon Incident. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Feb. 17, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/climatology.html>

Theberge, A. E., Jr.

The Coast Survey 1807-1867: volume I of the history of the Commissioned Corps of the National Oceanic and Atmospheric Administration. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division, <Last updated, Nov. 30, 2007->

Online access: <http://www.lib.noaa.gov/noainfo/heritage/coastsurveyvol1/CONTENTS.html>

Coastal ecosystem Maps – Gulf of Mexico. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access: <http://www.ncddc.noaa.gov/interactive-maps/coastal-habitats/gom-coastal-habitat/>

“The Coastal Ecosystem Maps - Gulf of Mexico mapping application provides online access to Gulf of Mexico Fisheries data, thanks to a joint effort between NOAA's National Coastal Data Development Center and [NOAA's National Marine Fisheries Service](#). This map combines fish habitat information with marine fishery species distribution for analysis in the Gulf of Mexico. It uses scale-dependent drawing extensively to control visualization of human impact, physical oceanographic, baseline, and particularly habitat type data. The application makes species distributions available based upon common name,

category (such as life-stage cycle), activity stage (commercial, recreational, spawning), and time period of interest.”

Coastal Ocean Observing System (COOS). Stennis Space Center, MS : National Coastal Data Development Center, <Real-time updates; Last viewed on July 17, 2012-->

Online access: <http://www.ncddc.noaa.gov/website/COOS/viewer.htm>

“Provides access to real-time and recent weather, oceanographic, water-level and stream gauge observations.”

Coastal Risk Atlas (CRA). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Mar. 29, 2006->

Online access: <http://www.ncddc.noaa.gov/cra>

“The Coastal Risk Atlas (CRA) project goals aim at aiding hurricane preparedness efforts by providing the data and methodology necessary to conduct vulnerability assessments for the coastal United States.”

Coastal Studies, Information & Data for the Ecosystem -C-SIDE. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 26, 2007->

Online access: <http://ecowatch.ncddc.noaa.gov/c-side>

“NOAA's National Coastal Data Development Center (NCDDC) created the Coastal Science, Information and Data for the Ecosystem (C-SIDE) as a comprehensive storm information center with information about severe weather preparation and monitoring across the Gulf of Mexico coastal region. C-SIDE provides tropical advisories and weather alerts along the major evacuation routes. In addition, C-SIDE provides links to local, state, and national websites that have important information before, during, and after a severe weather event.”

Coral Reef Temperature Anomaly Database (CoRTAD). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Mar. 28, 2012->

Online access: <http://www.nodc.noaa.gov/SatelliteData/Cortad/>

“The CoRTAD contains a collection of sea surface temperature (SST) and related thermal stress metrics, developed specifically for coral reef ecosystem applications but relevant to other ecosystems as well. The CoRTAD contains global, approximately 4 km resolution SST data on a weekly time scale from 1982 through 2008 (Version 2). In addition to SST, it contains SST anomaly (SSTA, weekly SST minus weekly climatological SST), thermal stress anomaly (TSA, weekly SST minus the maximum weekly climatological SST), SSTA Degree Heating Week (SSTA_DHW, sum of previous 12 weeks when SSTA is greater than or equal to 1 degree C), SSTA Frequency (number of times over previous 52 weeks that SSTA is greater than or equal to 1 degree C), TSA DHW (TSA_DHW, also known as a Degree Heating Week, sum of previous 12 weeks when TSA is greater than or equal to 1 degree C), and TSA Frequency (number of times over previous 52 weeks that TSA is greater than or equal to 1 degree C).”

CoRIS : NOAA's Coral Reef Information System. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Mar. 28, 2012->

Online access: <http://coris.noaa.gov/>

“NOAA's Coral Reef Information System (CoRIS) is designed to be a single point of access to NOAA coral reef information and data products, especially those derived from NOAA's Coral Reef Conservation Program.”

Data in the Classroom. Silver Spring, MD : NOAA Ocean Data Education (NODE), <Last updated, Jan. 16, 2010->

Online access: <http://dataintheclassroom.org/>

“*Data in the Classroom* is an online resource for K-12 teachers interested in using real scientific data in their teaching. This Web site is the current home of the [NOAA Ocean Data Education \(NODE\) Project](#), which is creating curriculum and online tools that demonstrate the use of real-time data. “

Data sets & products : World Ocean Atlas select (WOAselect). Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Feb. 11, 2008->

Online access: <http://www.nodc.noaa.gov/OC5/SELECT/woaselect/woaselect.html>

“The WOAselect is a selection tool in which the user can designate a geographic area, depth, and oceanographic variable to view climatological means or related statistics for the given variable at the requested depth for the requested geographic area. The source data for the climatological means and statistics is the World Ocean Atlas 2005 ([WOA05](#)).

The user may also download the data for the requested geographic area and variable for all depths in a comma separated value (csv) ASCII format or a shape file format which is compatible with GIS software such as ArcMap. Information about the formats is available at [format description](#) page.”

Data sets & products : World Ocean Database and World Ocean Atlas series. Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Aug. 8, 2008->

Online access: <http://www.nodc.noaa.gov/OC5/indprod.html>

Databases and article searching. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Sept. 5, 2008->

Online access: <http://www.lib.noaa.gov/researchtools/journals/databases.html>

Deepwater Horizon Response Data Atlas. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 6, 2012->

Online access: http://www.ncddc.noaa.gov/website/google_maps/DWHAtlas/mapsAtlas.htm

Deepwater Horizon Support : Aircraft and Other Platform Data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, May 18, 2012->

Online access: http://www.nodc.noaa.gov/General/DeepwaterHorizon/aircraft_unidentified.html

Deepwater Horizon Support : Fisheries Information. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Feb. 21, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/fisheries.html>

Deepwater Horizon Support : Glider and Float Data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Feb. 21, 2012->

Online access: http://www.nodc.noaa.gov/General/DeepwaterHorizon/glider_float.html

Deepwater Horizon Support : Joint Analysis Group. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access: <http://www.ncddc.noaa.gov/activities/healthy-oceans/jag/>

Deepwater Horizon Support : Regional Products. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Feb. 21, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/regional.html>

Deepwater Horizon Support : Satellite data. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Feb. 17, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/satellite.html>

Deepwater Horizon Support : Ship Data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, May 16, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/ships.html>

Deepwater Horizon Support : Special Collections. Silver Spring, MD : National Oceanographic Data Center, <Last updated, June 5, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/specialcollections.html>

Schmidt, Thomas, Linda Pikula.

Dry Tortugas Virtual Library. Miami, FL : National Oceanographic Data Center, Library and Information Services Division, NOAA Miami Regional Library, 2006?

Online access: <http://www.aoml.noaa.gov/general/lib/Regional/DryTortugas/drytort.html>

This database covers the Dry Tortugas National Park, seven small islands located 110km west of Key West, Florida in the eastern Gulf of Mexico (view [location map](#)). A broad range of marine and terrestrial topics are covered, including vegetation, marine algae, invertebrates, sea water composition, and geology. The bibliographic references contained in this database are primarily dated from 1875 to 2005.

E-Reference materials. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Feb. 4, 2008->

Online access: <http://www.lib.noaa.gov/refservices/refshelf.html>

Earth System Monitor. Silver Spring, MD : National Oceanographic Data Center, 1990-present. <Last updated, May 11, 2012->

Online access (v. 1, no. 1, 1990-present): <http://www.nodc.noaa.gov/General/NODCPubs/ESM/esm.html>

“The Earth System Monitor is a free quarterly bulletin that reports on NOAA environmental data and information programs, projects, and activities.”

Ecosystem Data Assembly Center (EDAC). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/edac/view>

“The EDAC is demonstrating the utility of integrating many heterogeneous data types and streams used to characterize and identify ecosystems to determine the health of ecosystems. Currently, this continually expanding system hosts analyzed satellite data, ocean model data, buoy data, and GIS data of watershed, fishery, and vegetation information. An OPeNDAP server makes the buoy, ocean model, and satellite data accessible. This allows scientific software to directly use the data while only needing to download the analyzed part of the data. Such downloaded data maintains its original data format. Users may also browse information about the data prior to downloading any of it.”

Ecosystem Goal Team (EGT) and Ecosystem Observation Program (EOP). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/egt-eop/view>

“Ecosystem Goal Team (EGT) and Ecosystem Observation Program (EOP) support NOAA's goal to protect, restore and manage the use of coastal and ocean resources through an ecosystem approach to management.”

Electronic journals. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Mar. 19, 2008->

Online access: <http://www.lib.noaa.gov/researchtools/journals/ejournals.html>

“Access to over 1000 full-text electronic journals, provided by EBSCO A-Z Title Listing service, available for NOAA staff served by the NOAA Central Library. Titles which the library only receives in print are listed in the NOAA Libraries' Catalog.”

Environmental Data Management Report (EDMR). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008-> Online access:

<http://www.ncddc.noaa.gov/activities/environmental-data-management-report-to-congress/view>

“NOAA prepares a biennial Environmental Data Management assessment for Congress in accordance with Public Law 102-567, Section 106: Data and Information Systems. The report defines NOAA's current capacity to manage, archive and disseminate the environmental data and information collected by NOAA. The report also addresses NOAA's future plan to modernize and improve the data and information systems over the next 10-year period. NOAA's National Coastal Data Development Center contributes information and personnel for the creation of this important report to Congress.”

Fisheries Heritage Digital Collection. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Mar. 20, 2008->

Online access: http://www.lib.noaa.gov/collections/imgdocmaps/fisheries_heritage.html

“This digital collection was made possible by NOAA's National Marine Sanctuary Program Historical Ecology program as part of their effort to research and analyze historical records that document changes in the condition of fish populations and ecosystems within national marine sanctuaries. This research requires extracting and tabulating relevant information from historical maps, fishing logbooks, fish catch and market records, as well as narratives of fishermen that describe the past conditions of fisheries and the marine environment. The records of the U.S. Fish Commission, the legacy agency of NOAA and the National Marine Fisheries Service, provide detailed information on environmental conditions observed by scientists in the late 19th century. The survey logbooks of the Commissions research vessels, for instance, contain historical atmospheric and oceanographic conditions, classify seafloor sediments, and inventory what scientists caught in their sampling nets and dredges in the late-19th and early-20th centuries. Digital images are in PDF, JPEG, or TIFF formats.

Foreign climate data. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Dec. 14, 2007->

Online access: http://docs.lib.noaa.gov/rescue/data_rescue_home.html

Galveston Bay consultation maps. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/consultation-mapping/view>

“The mapping of the Galveston Bay assists in the assessment of coastal areas in order to grant or refuse permits.”

GeoModeler. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/geomodeler/view>

“GeoModeler investigates the integration of GIS and Oceanographic Models, providing enhanced tools for analysis and visualization.”

George Washington Carver and Tuskegee weather data. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, July 23, 2007->

Online access:

http://docs.lib.noaa.gov/rescue/gw_carver_tuskegee/data_rescue_tuskegee_observations.html

“Observations for Nov. 1899-May 1900, and July 1900-Jan. 1932 made and entered by George Washington Carver; subsequent observers include J. R. Otis, J. R. Mundy, David C. Carter, Emile N. Hooker, J.R. Munday, H. J. Romm, J. C. Moore, I.T. Hardeman, J.W. Burney, D. Atkins and B. D. Mayberry.”

Global Argo Data Repository (GADR). Silver Spring, MD : National Oceanographic Data Center, <Last update, <Last updated, July 17, 2012->

Online access: <http://www.nodc.noaa.gov/argo/>

Online access (Latest Data) : http://www.nodc.noaa.gov/argo/latest_data.html

“The U.S. National Oceanographic Data Center (NODC) operates the long-term archive, also known as the Global Argo Data Repository (GADR), for Argo data. The GADR has the responsibility for preserving the data passed to the U.S. NODC. This means that the U.S. NODC has the responsibility to manage updates to Argo data that are reanalyzed some time later and for which corrections may be applied. While the GDACs are established to provide immediate service to all types of users with high speed Internet access, there are other users who will not be able to get the data in this way. The GADR provides alternate means for users to get Argo data and information.”

Global climate change resources. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, July 28, 2008->

Online access: <http://www.lib.noaa.gov/climatechangeresources.html>

Global Ocean Heat and Salt Content. Silver Spring, MD : National Oceanographic Data Center, <Last update, <Last updated, June 11, 2012->

Online access: http://www.nodc.noaa.gov/OC5/3M_HEAT_CONTENT/

“Data distribution figures for temperature and salinity observations, temperature and salinity anomaly fields for depths 0-2000m, heat content and steric sea level (thermosteric, halosteric, total). Temperature anomalies and heat content fields are detailed in World Ocean Heat Content and Thermosteric Sea Level change (0-2000 m), 1955-2010, [pdf](#) (8.1 MB). The same calculations have been extended to keep the fields current and include fields of salinity anomalies, and steric sea level components. Explanation of differences in heat content between published work and online values is outlined in the [notes](#) (pdf, 4.2 MB).”

Global Temperature-Salinity Profile Program (GTSP). Silver Spring, MD : National Oceanographic Data Center, <Last updated, May 22, 2012->

Online access: <http://www.nodc.noaa.gov/GTSPP/gtspp-home.html>

“The Global Climate Observing System (GCOS) recognizes the Global Temperature and Salinity Profile Programme (GTSP) as one of the international operational activities that provide essential, sub-surface climate variables of temperature and salinity profile data. GTSP provides timely and complete data with documented quality flags and implements internationally agreed quality control and overall management of ocean data fully in accordance with the GCOS action plan.”

GoMODP. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/gomodp/view>

“The Gulf of Maine Ocean Data Partnership (GoMODP) collects physical, biological, chemical, or geologic data about the Gulf of Maine.”

Government documents. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, July 31, 2008->

Online access: <http://www.lib.noaa.gov/collections/gov/gov.html>

“The NOAA Central Library (NCL) has been a selective depository library for U.S. government publications distributed through the U.S. Federal Depository Library Program since 1993 (About the FDLP). The NCL depository selects federal publications in a variety of formats on NOAA-related subjects to support the library's mission of providing scientific, technical and legislative information services to NOAA employees. More specifically the depository collects publications on oceanography, atmospheric sciences, meteorology, coastal zone management, fisheries, satellites, minerals management and environmental sciences as well as congressional documents covering these subjects. Cartographic materials such as NOAA nautical charts, U.S. Geological Survey maps and Federal Aviation Administration aeronautical charts are also received through the FDLP program. The depository materials are available to other federal, industry, and academic users as well as the general public.”

Government Maps and Charts. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Feb. 13, 2012->

Online access: <http://www.lib.noaa.gov/collections/gov/govdocmaps.html>

Gulf of Maine Ocean Observing System (GoMOOS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/gomoos/view>

“The Gulf of Maine Ocean Observing System (GoMOOS) delivers information to solve problems, predict events, and better understand the Gulf of Maine.”

Gulf of Mexico Alliance (GoMA). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/goma/view>

“The Gulf of Mexico Alliance (GoMA) resulted from a call to action by the Governors of Florida, Alabama, Mississippi, Louisiana, and Texas to support a regional approach for the protection of the Gulf of Mexico.”

Gulf of Mexico Coastal Ocean Observing System (GCOOS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/gcoos/view>

“The Gulf of Mexico Coastal Ocean Observing System (GCOOS) is a regional observing system that promotes regional collaboration within the Gulf of Mexico.”

Gulf of Mexico Data Atlas. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 12, 2012->

Online access: <http://gulfatlas.noaa.gov/>

“The study area encompasses Gulf of Mexico coastal counties of the USA, as defined by the Federal Coastal Zone Management Act, and Mexican municipal districts bordering on Gulf of Mexico waters. The seaward boundaries of the study area extend to the Yucatan Channel and the Straits of Florida.”

Gulf of Mexico Historical Data and Information. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 20, 2012->

Online access: <http://www.nodc.noaa.gov/General/gulfmex.html>

Gulf of Mexico Hypoxia Watch. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/hypoxia/>

“The Gulf of Mexico Hypoxia Watch evolved as a cooperative project among the National Oceanic and Atmospheric Administration's (NOAA's) National Marine Fisheries Service - [NMFS](#), the National Coastal Data Development Center (NCDDC), and the CoastWatch - [Caribbean/Gulf of Mexico](#) - Regional Node.”

Gulf of Mexico Marine Debris Project. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/marine-debris/view>

“The Gulf of Mexico Marine Debris Project responds to the severe damage Hurricane Katrina inflicted on the Gulf of Mexico coastal region.”

Harmful Algal BloomS Observing System (HABSOS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, 2012?->

Online access: <http://habsos.noaa.gov/>

“The Harmful Algal Blooms Observing System (HABSOS) website is a regional, web-based data and information dissemination tool. This website provides a secure data entry tool for collection of cell count observations of the algal species *Karenia brevis*. Data entered into the system are aggregated and available for display in the HABSOS Internet Mapping Service (IMS). Online assessment and analysis of HAB events are enhanced through the integration of in-situ observations, surface forecasts, and powerful satellite imagery products into the IMS. A link is also provided to the official NOAA HAB Bulletin.”

Heat Content 2004. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Oct. 15, 2007->

Online access: http://www.nodc.noaa.gov/OC5/DATA_ANALYSIS/heat_intro.html

Manuscript in PDF: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/grlheat05.pdf>

“Data distribution figures, temperature anomaly fields, and heat content fields associated with “Warming of the World Ocean: 1955-2003”, Levitus, Antonov, and Boyer. Published in: Geophysical Research Letters.”

Interactive Maps. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access: <http://www.ncddc.noaa.gov/interactive-maps/>

Interagency Working Group on Ocean and Coastal Mapping (IWG-OCM). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/iwg-ocm/view>

“The Interagency Working Group on Ocean and Coastal Mapping (IWG-OCM) is currently developing an inventory of ocean mapping activities within the Federal government.”

Fiolek, Anna.

International Polar Year 2007-2008 : polar resources in the NOAA Library Network [home page].

Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Sep. 9, 2008->

Online access: <http://www.lib.noaa.gov/collections/ipy.html>

“The NOAA Historical Polar Research Collection home page has been prepared to support the Agency's and NOAA Central Library (NCL) activities during International Polar Year 2007-2008. It displays the NCL network's unique online resources on exploration and research in Polar Regions. The collection

includes selected library holdings from the 1st (1881-1883) through the 3rd (1957-1958) International Polar Years. This Web site offers full-text access to unique polar documents in the NOAA Library collections. Over two hundred of the listed documents are linked to previously scanned historically significant publications online. These documents are also accessible via the Polar Bibliography: *International Polar Year 2007-2008: Resources on Polar Research in the NOAA Central Library Network: a Selected Bibliography* published online under LISD Current Reference Series 2006-1 (Updated as of September 2008) and is available to the international community via the NOAA Central Library Bibliography's home page and its online catalog NOAALINC. In addition, over 2000 digital images on polar aspects from the NOAA Photo Library and NOAA Polar Posters are here also available.”

Joint Analysis Group. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access: <http://www.ncddc.noaa.gov/activities/healthy-oceans/jag/>

Joint Archive for Sea Level. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access : <http://www.ncddc.noaa.gov/activities/climate/jasl/index.html>

Online access (Hawaii): <http://uhslc.soest.hawaii.edu/home>

“The Joint Archive for Sea Level (JASL) is a collaborative arrangement between the National Oceanographic Data Center (NODC), the World Data Center (WDC-SS) for Oceanography, Silver Spring, and the University of Hawaii Sea Level Center (UHSLC). Beginning in the Fall of 2000, the JASL is supported by the new NOAA National Coastal Data Development Center (NCDDC). The JASL is responsible for the collaborative archive referred to as the Research Quality Data Set.”

Joint Archive for Shipboard Acoustic Doppler Current Profiler (JASADCP). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.nodc.noaa.gov/General/adcp.html>

Online access (direct): <http://ilikai.soest.hawaii.edu/sadcp/>

“Joint Archive for Shipboard Acoustic Doppler Current Profiler (JASADCP) acquires, reviews, documents, archives, and distributes ocean current shipboard ADCP data sets. The NODC established the [Joint Archive for Shipboard ADCP \(JASADCP\)*](#) at the University of Hawaii for the acquisition, review, documentation, archival, and distribution of shipboard ADCP data sets. The activities are overseen by the NODC liaison, Pat Caldwell, and the locality takes advantage of close proximity to the ADCP and Common Oceanographic Data Analysis System (CODAS) experts of the E.Firing ADCP Laboratory.”

Katrina Impact Assessment. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/Katrina-2005>

“This Katrina Impact Assessment Project is a cooperative effort whose objective is to assess and monitor the environmental and physical impact of Hurricane Katrina on the ecosystems and infrastructure of the Mississippi Gulf Coast. The project website includes an interactive map service, which offers a common, geospatially referenced view of recent coastal and ocean observations. Geospatial data sources will include in situ sensor information, coastal circulation modeling, post-Katrina survey data, and photogrammetry, including fixed-wing photography, and satellite imagery (LandSat, commercial, hyper/multispectral, and LIDAR), as it becomes available.”

Long Term Stewardship and Reanalysis Facility (LTSRF). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 10, 2011->

Online access: <http://www.nodc.noaa.gov/SatelliteData/ghrsst/>

“Long Term Stewardship and Reanalysis Facility (LTSRF) for the Group for High Resolution SST (GHRSSST), is routinely delivering individual as well as multi-sensor blended SST products with high accuracy and fine spatial resolution.”

Marine Metadata Interoperability (MMI). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/mmi/view>

“Marine Metadata Interoperability (MMI) makes marine data easier to advertise, distribute, reuse, and combine with other data sets. Marine Metadata Interoperability (MMI) project's mission seeks to promote the exchange, integration and use of marine data through enhanced data publishing, discovery, documentation and accessibility. As its goal, Marine Metadata Interoperability promotes collaborative research in the marine science domain by simplifying the incredibly complex world of metadata into specific, straightforward guidance. MMI hopes to encourage scientists and data managers at all levels to apply good metadata practices from the start of a project by providing the best advice and resources for data management. MMI is also developing web applications and stand-alone tools to enable sophisticated interactions across marine data systems. National Coastal Data Development Center (NCDDC) Scientist Julie Bosch is a member of the MMI Steering Committee.”

Kelly, Kathleen A.

Marine Protected Areas Research Guide. Silver Spring, Md. : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite, Data, and Information Service, National Oceanographic Data Center, NOAA Central Library. <Last updated, June 18, 2012->

Online access: http://www.lib.noaa.gov/researchtools/subjectguides/mpa_research_guide.html

MERMid. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008-> Online access:

<http://www.ncddc.noaa.gov/activities/metadata-enterprise-resource-management-aid-mermaid-1/view>

“Data and information about the coastal environment is more diverse and is distributed among a larger number of sources than traditional oceanographic data. This fact makes a single physical repository for all coastal data impractical. NOAA created the National Coastal Data Development Center (NCDDC) to provide access to this diverse and distributed data.”

Metadata Standards. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access: <http://www.ncddc.noaa.gov/metadata-standards/>

NCDDC works closely with the broader metadata community and standards organizations in the development of these standards; and to provide assistance in the implementation of diverse metadata standards for local, state and national organizations as needed.

Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/macoora/view>

“The Mid-Atlantic Coastal Ocean Observing Regional Association (MACOORA) is a regional observing system that promotes regional collaboration from Cape Cod to Cape Hatteras.”

Modeling and Analysis Steering Team (MAST). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/mast/view>

“Ocean.US established the Modeling and Analysis Steering Team (MAST) to help guide the development of ocean and coastal modeling activities.”

Monthly Weather Review. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Sep. 14, 2009->

Online access: http://docs.lib.noaa.gov/rescue/mwr/data_rescue_monthly_weather_review.html

“The Monthly weather review first began publication in July 1872. It was issued by the Office of the Chief Signal Officer from 1872 until 1891. In 1891 the duties of the Signal Office transferred to the new Weather Bureau where the *Review* was published until June 1966. From Aug. 1966-Oct. 1970, it was published by the United States Environmental Science Services Administration. When the Bureau became part of the newly-formed National Oceanic and Atmospheric Administration, the *Review* was published by NOAA until the end of 1973. In 1974 publication was turned over to the American Meteorological Society which continues publishing it as a subscription. The Weather Bureau published the *Monthly weather review. Supplement* irregularly from 1914 to 1949. The Bureau never published no. 43.”

Monthly Weather Review Author and Subject Index, 1873-1935. Silver Spring, MD : National Oceanographic Data Center, NOAA Central Library, <Last updated, Sep. 14, 2009->

Online access: <http://www.lib.noaa.gov/researchtools/subjectguides/mwr/mwrindex.html>

The *Monthly Weather Review Author and Subject Index 1873-1935* is based on the *Monthly Weather Review* index to volumes 1-63, and supplements 1-35, covering the period 1873-1935. Samuel Baig of the New York Public Library compiled this index for the Weather Bureau in 3 typewritten volumes; the volumes are cataloged in the library's Rare Books collection. These three volumes hold the key to the voluminous information contained in the *Monthly Weather Review* and are much more comprehensive than an author-article table of contents. The index originally was comprised of both subject matter and authors in one alphabetical master index. The NOAA Central Library transcribed these volumes and separated them into two sub-indices: an author index and a subject matter index. These indices greatly enhance the usefulness of the *Monthly Weather Review* as they refer not only to articles, but in many instances to material contained within various articles such as location of specific tornadoes and other weather phenomena, reference to various types of equipment, individuals mentioned within articles, etc. These indices will be of value to modern meteorologists in tracing the evolution of various instruments and techniques, climatologists in researching various historical weather events, historians of meteorological science, and those who are looking for the sheer enjoyment of reading great weather stories.

National Operational Model Archive and Distribution System (NOMADS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/nomads/view>

“NOAA's National Operational Model Archive and Distribution System (NOMADS) provides both real-time and retrospective format independent access to climate and weather model data within a web-services project. NOMADS comprises a network of data servers using established and emerging technologies to access and integrate model and other data stored in geographically distributed repositories in heterogeneous formats. NOMADS enables the sharing and inter-comparing of model results and represents a major collaborative effort, spanning multiple government agencies and academic institutions.”

NCDDC Public Website. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/>

“NCDDC is a major component of the National Oceanographic Data Center (NODC). NCDDC, NODC, and the NOAA Central Library are integrated to provide access to the world's most comprehensive sources of marine environmental data and information. NCDDC has two major divisions, Information Technology Operations and Science Programs.”

Theberge, Albert E., Jr.

NOAA Browser : Organization via Web pages. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Mar. 8, 2008->

Online access: <http://www.lib.noaa.gov/noainfo/browser/browse1.html>

“This browser provides direct links to over 500 NOAA science, policy, and administrative Web pages. It is meant to help NOAA personnel, personnel from other Government agencies, and the general public navigate their way through the many NOAA web sites. The NOAA Browser is organized in a hierarchical manner that reflects NOAA's organization. In general, NOAA's organizational units follow the same structure: main (line) component, office, laboratory or division, branch, and down to programs and projects. The NOAA Browser also covers the NOAA organizations which operate in a matrix (cross-program) environment.

A second purpose of the NOAA Browser is to help interested individuals explore NOAA. NOAA's areas of responsibility extend from the sun through the atmosphere, from the coastal ocean to the abyss, and from the surface to the center of the earth. There are many wonderful web sites that have been built by NOAA personnel to describe their work and scientific endeavors in this vast realm. The Browser can help navigate through the nooks and crannies of NOAA's realm.”

NOAA Central Library home page. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Aug. 17, 2008->

Online access: <http://www.lib.noaa.gov/>

“The NOAA Central Library, located in Silver Spring, Maryland, and its libraries at the Atlantic Oceanographic and Meteorological Laboratory (Miami), National Hurricane Center/Tropical Prediction Center (Miami), Western Regional Center (Seattle), and Camp Springs (Maryland), provide information and research support to NOAA staff and the public. The library also networks with over 30 NOAA libraries across the nation. Disciplines covered include weather and atmospheric sciences, oceanography, ocean engineering, nautical charting, marine ecology, marine resources, ecosystems, coastal studies, aeronomy, geodesy, cartography, mathematics and statistics.”

NOAA Data Management Integration Team (DMIT). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/dmit/view>

“NOAA has tasked the Data Management Integration Team (DMIT) with developing a plan to enable integration of NOAA's many existing data management systems, allowing data consumers both within and outside NOAA the broadest possible access to NOAA data resources.”

NOAA Extreme Weather Information Sheets. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access: <http://www.ncddc.noaa.gov/activities/weather-ready-nation/newis/>

“NOAA's National Coastal Data Development Center (NCDDC) produces the NOAA Extreme Weather Information Sheets (NEWIS). Published each year for the Atlantic hurricane season, the NOAA Extreme Weather Information Sheets provide critical information for contacting government officials and monitoring information resources. The laminated and waterproof NOAA Extreme Weather Information Sheets are an ideal reference in the home, automobile, or boat. NOAA Extreme Weather Information

Sheets provide residents with a "one-stop" ready reference containing phone numbers and Web site information residents can use during potentially life-threatening weather emergencies.”

NOAA heritage. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Feb. 4, 2008->

Online access: <http://www.lib.noaa.gov/noainfo/heritage/heritage.html>

Theberge, Albert E., Jr., & Janet Ward.

NOAA history : a science odyssey. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Apr. 20, 2008->

Online access: <http://www.history.noaa.gov/>

NOAA Integrated Ecosystem Assessment (IEA) Priority Area Task Team (PATT). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/iea-patt/view>

“Priority Area Task Teams (PATTs) form a part of the NOAA's Regional Collaboration Effort. NOAA established Regional Teams within each region to develop and implement appropriate strategies for addressing priority areas. The PATTs exist on the national level to help develop a NOAA-wide strategy for addressing each of the priority areas. Current PATTs include one for Hazard Resilient Coastal Communities, one for Integrated Water Resource Services, and one for Integrated Ecosystems Assessment. The NOAA Integrated Ecosystems Assessment (IEA) PATT is coordinating the Regional Team efforts for the the development of IEAs. These IEAs will offer a consistent view of the status of each ecosystem examined and the resources needed for each management sector to understand the activities and impacts of others. Management of coastal and marine ecosystems will improve through integration of physical, biological, and social information. Currently, the IEA PATT focuses on the development of IEAs for the Western, Alaska, and North Atlantic regions. The IEA PATT is working with the NOAA Regional Teams to lay groundwork for the California Current Ecosystem Data Management project under the Pacific Coast Ocean Observing System (PaCOOS). The IEA PATT is also focusing key existing NOAA ecosystem modeling capabilities on IEA efforts in the Western, Alaska, and the North Atlantic regions.”

NOAA Libraries and Information Network directory. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Jul. 7, 2008->

Online access: http://www.lib.noaa.gov/about/lib_network.html

“This directory contains addresses, telephone numbers, web sites, hours, and personnel names on NOAA libraries. NOAA staff should use their nearest line office library and can contact the NOAA Central Library in Maryland if they do not know which one this is. A brief description of each library's collection is included below.”

NOAA Library and Information Network Catalog (NOAALINC). Powered by Sirsi/Dynix. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, 2000-<Last updated, 2003?->

Online access: <http://www.lib.noaa.gov/uhtbin/webcat/>

NOAA Marine Environmental Buoy Database. Silver Spring, MD : National Oceanographic Data Center, <Last updated, June 13, 2012->

Online access: <http://www.nodc.noaa.gov/BUOY/buoy.html>

“The NOAA Marine Environmental Buoy Database (NODC File 291) is one of the largest and most frequently used data archives maintained by the NODC. This database holds wind, wave, and other

marine data collected by the NOAA National Data Buoy Center (NDBC). The data are collected from NDBC moored buoys and from C-MAN (Coastal-Marine Automated Network) stations located on piers, offshore towers, lighthouses, and beaches. Parameters reported by both buoys and C-MAN stations include air temperature and pressure, wind speed and direction, wind gust, and sea surface temperature. The buoys (and a few C-MAN stations located on offshore towers) also report wave data, usually including wave height, wave period, and wave spectra. Since the late 1980s some buoys have reported directional wave spectra. NODC receives the data from NDBC on a monthly basis, generally 2-3 weeks after the last observation from the given month, and makes them available online.”

NOAA newsletters. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Dec. 10, 2007->

Online access: <http://www.lib.noaa.gov/noaainfo/newsletters.html>

“The following list contains periodic, sporadic, and one-issue newsletters from around NOAA. These newsletters showcase in NOAA happenings, news, stories, and items of general interest. Some of these newsletters are technically oriented, some are industry specific, some are chatty and contain information on local personnel and happenings, and some, such as *Consequences*, contain information of value to a much wider outside community. Taken as a whole, these newsletters provide insight into the daily operations and concerns of the NOAA community and its constituents.”

Theberge, Albert E., Jr., & Janet Ward.

NOAA Photo Library. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Sep. 30, 2009->

Online access: <http://www.photolib.noaa.gov/>

The NOAA Photo Library has been built so as to capture the work, observations, and studies that are carried on by the scientists, engineers, commissioned officers, and administrative personnel that make up this complex and scientifically diverse agency. It also has been built in an attempt to capture NOAA's scientific heritage, which is in fact a heritage shared by much of the physical and environmental science communities in the United States today. To date, over 35,000 images have been digitized and reside in the online NOAA Photo Library. This number will continue growing as long as there are environmental problems to study and solve, as long as the citizens of the United States are threatened by violent weather, as long as mariners need nautical charts, and as long as creatures of the sea need our protection to survive. Until then, you are invited to join NOAA in this photographic essay that spans the World's oceans and atmosphere, carries you from the surface of the sun to the bottom of the sea, and travels through centuries of scientific thought and observations.”

NOAA publication sources. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Jan. 30, 2008->

Online access: <http://www.lib.noaa.gov/noaainfo/pubsource.html>

The Website contains links to various NOAA organizations that distribute data and publications.

NOAA's collection of rare 19th century oceanography books. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, in collaboration with National Ocean Service, Special Programs Office, <Last updated, May 23, 2007->

Online access: <http://celebrating200years.noaa.gov/rarebooks/welcome.html>

“This collection features 19th century rare books that are part of the larger NOAA Central Library Rare Book Room and which capture the spirit and accomplishments of the formative years of oceanography. The volumes are diverse, including official accounts and results of oceanographic cruises, descriptions of traditional and new technologies, personal reminiscences, the first English-language textbook of

oceanography, and even a German-language volume selected for the beauty of its presentation, as much as for its content. Many of the authors were among the "founding fathers" of modern oceanography."

NOAA's Office of Ocean Exploration and Research. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/oceanexploration/view>

"The Ocean Exploration and Research data management project provides a unique end-to-end system for OER sponsored expeditions, thus ensuring data and information discovery, access and archival for perpetuity. Poised to build on a rich legacy of undersea exploration, discovery, and research, NOAA's Office of Ocean Exploration and Research (OER) builds from the merger of two unique NOAA programs – NOAA's Undersea Research Program (NURP) and the Office of Ocean Exploration (OE). The office will provide NOAA and the Nation with a unique capability to discover and investigate new ocean areas and phenomena, conduct the basic research required to capitalize on discoveries, and to seamlessly disseminate data and information-rich products to a multitude of users. In response to recommendations within the Report of the President's Panel on Ocean Exploration (2001, .pdf, 2.54 MB) for NOAA to establish a broad-based data management task force, The National Oceanographic Data Center led the formation of an Integrated Product Team (IPT). The Team took form in partnership with OE, other NOAA and non-NOAA partners, and has provided a framework for exploration data management since 2002. This resulted in the development of several Data Management tools, some of which provide extensible functions to other applications."

NODC 4 km AVHRR Pathfinder Project. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Apr. 20, 2012->

Online access: <http://www.nodc.noaa.gov/SatelliteData/pathfinder4km/>

"The NOAA National Oceanographic Data Center (NODC) is pleased to release the AVHRR Pathfinder Version 5.2 (PFV52) sea surface temperature data set. This new version of Pathfinder includes substantial updates to the data format, content, and metadata. While previous versions of Pathfinder, including V5.0 and V5.0, were in HDF-SDS format, the new Version 5.2 is in CF-compliant netCDF-4, conforming to [GHRSSST Data Specification Version 2 \(GDS2.0\)](#)."

NODC CD-ROM & DVD products. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Aug. 10, 2011->

Online access: <http://www.nodc.noaa.gov/General/NODC-cdrom.html>

NODC Coastal Water Temperature Guide (CWTG). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 22, 2008->

Online access: <http://www.nodc.noaa.gov/dsdt/cwtg/>

Online access (CWTG handout in PDF): http://www.nodc.noaa.gov/dsdt/cwtg/CWTG_handout.pdf

"The water temperatures in the NODC Coastal Water Temperature Guide (CWTG) are near real-time temperatures from NOAA's National Ocean Service (NOS) tidal stations and Physical Oceanographic Real-Time System (PORTS®) and most recent (within the past six hours) temperatures from NOAA's National Data Buoy Center (NDBC) moored buoys. In addition to near real-time water temperatures, the CWTG tables also include average water temperatures computed from long-period records ranging from several years to several decades depending on how long observations have been taken at a given station. Temperature tables (except Hawaii, Alaska, and Pacific Islands table) were originally created in the early 1980s by former NODC meteorologist Richard M. DeAngelis. Hawaii, Alaska, and Pacific Islands table values are based on NOAA/NOS publication "Surface Water Temperature and Density, Pacific Coast, North and South America & Pacific Ocean Islands." Although ocean conditions vary from year to year, water temperatures are less variable than air temperatures, so these averages can provide useful

information for planning beach activities such as swimming or fishing. For the Gulf coast, only monthly averages are presented. Water temperatures vary more along the Atlantic and Pacific coasts of the United States, so for these stations two-week averages are presented from April through October. Clicking on the hyperlinked "Recent Temperatures" in the table will display time series plots of the last few hours of NOS Water Temperature data for the tide station, or will go to the NDBC Buoy Page for the location."

NODC formats & codes. Silver Spring, MD : National Oceanographic Data Center, <Last updated, May 30, 2008->

Online access: <http://www.nodc.noaa.gov/General/NODC-dataformats.html>

"Table of the principal NODC data storage (or data output) formats and codes. Some may be quite old, but are listed here because they can still be obtained in these formats. This list covers only data stored in the NODC archive databases; it does not include formats for all NODC data collections on CD-ROM, DVD, or other various online projects. [CD-ROM/DVD datasets](#) and online projects are described in documentation files included with each data product."

NODC – National Oceanographic Data center home page. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 17, 2008->

Online access: <http://www.nodc.noaa.gov/index.html>

"The National Oceanographic Data Center is a national repository and dissemination facility for global oceanographic data which acquires and preserves a historical record of the Earth's changing environment to be used for operational applications and ocean climate research.

NODC is an organization made up of the National Oceanographic Data Center, National Coastal Data Development Center, World Data Center for Oceanography, and the NOAA Central Library which are integrated to provide access to the world's most comprehensive sources of marine environmental data and information."

NODC Ocean Archive System (OAS). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Oct. 9, 2007->

Online access: <http://www.nodc.noaa.gov/search/prod/>

NODC Ocean Color Archive. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Aug. 3, 2011->

Online access: <http://www.nodc.noaa.gov/SatelliteData/OceanColor/>

"This site contains an overview of the NOAA archive services being provided for Level 2 (L2) ocean color products generated by the [CoastWatch program](#). CoastWatch is an operational NOAA program that processes near real-time satellite data and makes it available to a variety of users in order to manage U.S. coastal resources and understand climate variability. CoastWatch currently produces near real-time ocean color products from multiple platforms. These include Level 1A (L1A) data from the Sea-viewing Wide Field-of-view Sensor (SeaWiFS) on board NASA/GeoEye's OrbView-2 satellite, and L2 data from SeaWiFS, the Moderate Resolution Imaging Spectroradiometer (MODIS) on board the NASA Aqua and Terra satellites, and the Medium Resolution Imaging Spectroradiometer (MERIS) on board the European Space Agency's (ESA) Envisat platform."

NODC publications. Silver Spring, MD : National Oceanographic Data Center, <Last updated, July 11, 2012->

Online access: <http://www.nodc.noaa.gov/General/NODCPubs/>

NODC Support for the Deepwater Horizon Incident. Silver Spring, MD : National Oceanographic Data Center, <Last updated, June 6, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/support.html>

NODC Time Series Database (TSDB). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 27, 2007->

Online access: <http://www.nodc.noaa.gov/tsdb/>

“The Marine Data Stewardship Division of the National Oceanographic Data Center begun a project for developing a prototype time series database (TSDB). The primary objective of this project is to integrate coastal ocean time series observations from a variety of instruments with different resolution, accuracy and response to spatial and temporal variability into a common database.”

Northern Gulf Institute (NGI). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/northern-gulf-institute/view>

“The Northern Gulf Institute stands as a NOAA Cooperative Institute, created to develop and maintain a center of excellence in research relevant to the Northern Gulf of Mexico Region.”

Nutrients data. Silver Spring, MD: National Oceanographic Data Center, <Last updated, Dec. 11, 2007->

Online access: <http://www.nodc.noaa.gov/General/nutrients.html>

Ocean Climate Laboratory products. Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Aug. 8, 2008->

Online access: <http://www.nodc.noaa.gov/OC5/indprod.html#inter>

This site lists “World ocean database”, “World ocean atlas”, and “International ocean atlas and information” series, products developed by the NODC Ocean Climate Laboratory staff.

Ocean currents. Silver Spring, MD: National Oceanographic Data Center, <Last updated, Oct. 10, 2007->

Online access: <http://www.nodc.noaa.gov/General/current.html>

Ocean Currents Data in the Gulf of Mexico. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, July 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/oceancurrents.html>

Belter, Chris, Mary Lou Cumberpatch..

Ocean Exploration and Research bibliography. Silver Spring, Md. : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite, Data, and Information Service, National Oceanographic Data Center, NOAA Central Library, 2008-; <Last updated, Apr. 10, 2012->

Online access: http://www.lib.noaa.gov/researchtools/subjectguides/oer_bibliography.html NOAA's [Office of Ocean Exploration and Research](#) has funded multiple [Ocean Explorer explorations](#) since 2001. The Office of Ocean Exploration and Research also maintains an interactive [Digital Atlas](#) of all of the cruises sponsored by the Ocean Explorer program. The data gathered on these expeditions has resulted in the publication of over 400 peer-reviewed journal articles, reviews, and notes.

Ocean Exploration Digital Atlas. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, July 2012->

Online access: http://www.ncddc.noaa.gov/website/google_maps/OE/mapsOE.htm

Includes selected data from NOAA’s Ocean Exploration expeditions from 2001-present

Ocean FAQs. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 23, 2008->

Online access: <http://www.nodc.noaa.gov/General/NODC-oceanfaq.html>

Ocean In Situ Data: Deepwater Horizon Support. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Fe. 23, 2012->

Online access: <http://www.nodc.noaa.gov/General/DeepwaterHorizon/oceanprofile.html>

Ocean profile data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 23, 2008->

Online access: <http://www.nodc.noaa.gov/General/profile.html>

Oceanographic data at NODC. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 23, 2008->

Online access: <http://www.nodc.noaa.gov/General/getdata.html>

Oceanography Education Activities at NODC. Lesson Plan contribution to the Digital Library for Earth System Education (DELESE) system. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 23, 2008->

Online access: <http://www.nodc.noaa.gov/SatelliteData/Education/>

OceanNOMADS. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, June 21, 2012->

Online access: <http://www.ncddc.noaa.gov/ocean-nomads/>

The NOAA Operational Model Archive and Distribution System - ([NOMADS](#)), provides distributed, web-service access for real-time and retrospective, format-independent climate and weather model data and related datasets. NOAA NCDDC, with partners including National Weather Service National Centers for Environmental Prediction (NCEP) and the Northern Gulf Institute, has created this NOMADS node for ocean-model access, called OceanNOMADS. This site provides retrospective access to long timeseries of output from mature ocean modeling and prediction systems, including models from NOAA's National Weather Service (NWS) and the U.S. Navy. Long-term archival of selected model fields is done at NOAA's National Oceanographic Data Center. A developmental version of the [OceanNOMADS](#) capability developed under the NGI Ecosystem Data Assembly Center (EDAC) project continues to offer data access and analysis-tool development as well as access to newer NOAA and Navy ocean prediction capabilities, with a geographic focus on the Gulf of Mexico.

Office of Ocean and Coastal Resource Management (OCRM). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/ocrm/view>

“NOAA's Office of Ocean and Coastal Resource Management (OCRM) provides national leadership, strategic direction, and guidance to state and territory coastal programs and estuarine research reserves. The Office of Ocean and Coastal Resource Management's (OCRM) six divisions oversee a number of programs that assist states in managing, preserving, and developing their marine and coastal resources. OCRM activities include working with states and territories to conserve and protect coral reefs, operate a system of National Estuarine Research Reserves, and implement the National Coastal Zone Management Program, as well as developing a system of marine protected areas. NOAA's National Coastal Data Development Center (NCDDC) has partnered with OCRM and hosts a custom content type.”

OneNOAA Science Discussion Seminars. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 5, 2008->

Online access: <http://www.nodc.noaa.gov/General/NODC-About/Outreach/>

Oxygen data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Dec. 11, 2007->
Online access: <http://www.nodc.noaa.gov/General/oxygen.html>

Sun, Charles.

Pacific Region Ocean Data & Information Portal (PRODIP). Silver Spring, MD : National Oceanographic Data Center, 2006-present. <Last updated, Mar. 19, 2008->

Online access: <http://www.nodc.noaa.gov/PRODIP/>

“In late February 2005, the NOAA PRIDE (Pacific Region Integrated Data Enterprise)* project funded Dr. Charles Sun's proposal titled "Integrated Pacific Region Data Delivery for Low and High Bandwidth Internet Connections" to leverage from and integrate numerous newly developed, proven technologies and prototypes to develop and implement operationally a Pacific regional ocean data and information portal (PRODIP) within a year. The goal of PRODIP is to develop and implement an end-to-end ocean data and information portal with capabilities of exploring in-situ data from real-time data streams and integrating the data streams with archives across the Internet through a "one-stop shopping" (single interface) query for users who have a high bandwidth Internet connection. Alternatively, users without high-speed network access can order CD/DVD-ROMs from the NODC that contain the integrated dataset and then use software over potentially low-bandwidth/high-latency network connections to periodically update the CD/DVD-ROM-based archive with new data.”

Pacific Islands Climate Change Virtual Library. Silver Spring, MD : National Oceanographic Data Center, <Last updated, 2011->

Online access: <http://docs.lib.noaa.gov/vlib/PICCP/>

Plankton data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Nov. 15, 2007->
> Online access: <http://www.nodc.noaa.gov/General/plankton.html>

Protected species maps. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/protected-species/view>

“NCDDC developed Protected Species maps for Johnson’s Seagrass and Gulf Sturgeon in the Tampa Bay wetlands area and the northern Gulf of Mexico.”

Priority Habitat Information System (PHINS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/phins/view>

“The Priority Habitat Information System (PHINS) comprises a state/federal partnership created to identify and inventory the habitats that make up the ecosystem of the Gulf of Mexico.”

Publication summary of the NODC Ocean Climate Laboratory, 1982-2012. Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Aug. 29, 2008->

Online access: <http://www.nodc.noaa.gov/OC5/indpub.html>

List all peer reviewed journal articles, reports, scientific papers, and atlases by the NODC Ocean Climate Laboratory staff from 1982 through present <2012->

Quality Assurance of Real-Time Oceanographic Data (QARTOD). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/qartod/view>

“Quality Assurance of Real-Time Oceanographic Data (QARTOD) is a multi-agency effort to address the quality assurance and quality control issues of the Integrated Ocean Observing System (IOOS) community.”

Regional Ecosystem Data Management (REDM). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://ecowatch.ncddc.noaa.gov/>

“NOAA's National Coastal Data Development Center (NCDDC) provides a coordinated data management system and data discovery mechanism for atmospheric, oceanographic, and terrestrial physical sciences to facilitate sustained economic growth, scientifically sound environmental management, and public safety to the Nation and the international community. NCDDC is a leader in Regional Ecosystem Data Management (REDM) and the establishment of Regional Ecosystem Data Assembly Portals that provide access to data and information through the cataloging, formatting, archiving, and dissemination of the data streams in collaboration with federal and state agencies, regional observing system associations, academic researchers, and non-governmental organizations. NCDDC ensures that core data variables for an Integrated Ecosystem Assessment (IEA) are available to scientists in common usage formats via a web-based portal providing timely access to integrated observations data, information, products, and model analyses.”

Fiolek, Anna.

Resources on TIROS and Satellite Meteorology : NOAA Central Library Network : TIROS I – 50th Anniversary of the First Weather Satellite. Home page developed by Anna Fiolek. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, NOAA Central Library, <Last updated, Mar. 13, 2012->

Online access: <http://www.lib.noaa.gov/collections/TIROS/tiros.html> The [NOAA Central Library \(NCL\)](#) developed this website to mark [NOAA's](#) celebration of the 50th Anniversary of TIROS I, the first meteorological satellite, launched on April 1, 1960. The website gives a short history of TIROS I and offers a selection of links to significant resources highlighting environmental satellites, satellite meteorology, and related educational websites. In a separate section on [Historical Resources on TIROS I and Satellite Meteorology in the NOAA Libraries Network](#) over 300 unique documents from the 1950s to the present are offered online. These full text documents are also accessible online via the [TIROS Bibliography](#) published as *LISD Current Reference Series 2007-1* (Updated as of September 2009). In addition a [Photo and Video Gallery](#) offers a selection of digital videos and over 530 still images on TIROS and various aspects of satellite meteorology. The images originate from the [NOAA in Space](#) digital image album which is part of the [NOAA Photo Library](#).

Salinity Anomalies (1955-1998). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Oct. 15, 2007->

Online access: http://www.nodc.noaa.gov/OC5/DATA_ANALYSIS/sal_intro.html

Manuscript in PDF: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/DATA_ANALYSIS/PDF/saltrend.pdf

“Data distribution figures, salinity climatologies, and salinity anomaly fields associated with "Linear trends in salinity for the World Ocean 1955-1998" by Timothy P. Boyer, S. Levitus, J.I. Antonov, R.A. Locarnini, and H.E. Garcia. Published in: *Geophysical Research Letters*.”

Salinity data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 23, 2008->

Online access: <http://www.nodc.noaa.gov/General/salinity.html>

Satellite data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Oct. 10, 2007->

Online access: <http://www.nodc.noaa.gov/General/satellite.html>

Satellite oceanography at NODC. Silver Spring, MD : National Oceanographic Data Center, <Last updated, June 12, 2012->

Online access: <http://www.nodc.noaa.gov/SatelliteData/>

“The primary goal of the NODC satellite group is to provide scientific stewardship of satellite-derived oceanographic datasets and analyses. The group pursues this goal by developing consistently-processed, satellite-based climate data records and applying them to various scientific problems. The satellite group at NODC focuses on three of the key functions of satellite data stewardship: (1) Generating authoritative long-term records through satellite data reprocessing efforts; (2) Using those climate data records to place the current state of the environment in its proper historical perspective; and (3) Insuring the data are properly archived and easily accessed by a wide range of users.”

Sea level data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Oct. 10, 2007->

Online access: <http://www.nodc.noaa.gov/General/sealevel.html>

Subcommittee on Integrated Management of Ocean Resources (SIMOR). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008?>

Online access: <http://ecowatch.ncddc.noaa.gov/simor>

“This page provides an overview of the Subcommittee on Integrated Management of Ocean Resources (SIMOR). The Subcommittee on Integrated Management of Ocean Resources (SIMOR) was formed to help address the challenges in the development and use of “best practices” for establishing science-based management tools, strategies and information to improve ocean, coastal, and Great Lakes resource management (SIMOR Work Plan March, 2006).”

Southeast Coastal Ocean Observing System Regional Association (SECOORA). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/seacora/view>

“The Southeast Coastal Ocean Observing System Regional Association (SECOORA) forms a regional observing system that promotes regional collaboration within southeastern US.”

Shipboard Sensor Database (SSD). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Feb. 2, 2011->

Online access: <http://www.nodc.noaa.gov/ssd/>

“The U.S. National Oceanographic Data Center (NODC) periodically receives a standard suite of shipboard sensor data (also known as underway data) from each NOAA ship with the Scientific Computer System (SCS). These data include measurements of salinity and temperature from thermosalinographs, bottom depth, wind speed and direction, atmospheric temperature, pressure and humidity, position and date/time. The NODC archives, quality-controls, and loads these data into the Shipboard Sensor Database (SSD), which may be queried by date, position, and data type, and from which data may be downloaded. The SCS was developed by NOAA Marine and Aviation Operations to acquire data from a ship's meteorological, oceanographic, fishery, and navigational sensors and to provide these data to scientists in real time. The NOAA ships shown above and below are currently equipped with the SCS.

Subject guides and bibliographies. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, July 30, 2008->

Online access: <http://www.lib.noaa.gov/researchtools/subjectguides/bibliographies.html>

Temperature data. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 23, 2008->

Online access: <http://www.nodc.noaa.gov/General/temperature.html>

Texas Geographic Information Council (TGIC). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/tgic/view>

“In May on 1997, the Texas state legislature established the Texas Geographic Information Council (TGIC). TGIC members consist of qualified state agencies, state-wide association, federal agencies, state universities, state university affiliated research laboratories and extension offices that provide state-wide services and local organizations that provide services on a regional level.”

U.S. Army Signal Corps/Weather Bureau annual reports, 1861-1942. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Aug. 8, 2007->

Online access: http://docs.lib.noaa.gov/rescue/cso/data_rescue_signal_corps_annual_reports.html

U.S. Coast and Geodetic Survey annual reports. Silver Spring, MD : National Oceanographic Data Center, NOAA Central Library, <Last updated, Jan. 7, 2008->

Online access: http://docs.lib.noaa.gov/rescue/cgs/data_rescue_cgs_annual_reports.html

“This site provides access to the annual reports of the Coast and Geodetic Survey from 1852 to 1950 in PDF format. The Library also provides access to the Coast and Geodetic Survey annual reports, 1844-1910 : bibliography. This bibliography provides author and subject access to the articles found in the appendices to the reports, as well as notes on the history and functions of the Survey. The Library makes the bibliography available online at <http://www.lib.noaa.gov/researchtools/subjectguides/cgsreports.html>.”

U.S. Coast and Geodetic Survey special reports. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Sept. 18, 2008->

Online access: http://docs.lib.noaa.gov/rescue/cgs_specpubs/data_rescue_cgs_specpubs.html

“This site provides online access to the Special Publications of the Coast and Geodetic Survey that were published from 1898 to 1956 in PDF format. “

U.S. Daily Weather Maps Project. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Jan. 17, 2007->

Online access: http://docs.lib.noaa.gov/rescue/dwm/data_rescue_daily_weather_maps.html

“This site provides access to historical daily weather maps from 1871 thru 2002. To see weather maps for 2003-present go to: <http://www.hpc.ncep.noaa.gov/dailywxmap/index.html>”

United States Fish Commission annual reports. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Jan. 17, 2007->

Online access: http://docs.lib.noaa.gov/rescue/cof/data_rescue_fish_commission_annual_reports.html

“This site provides access to the annual reports of the United States Fish Commission, also known as the United States Fish and Fisheries Commission, from 1871 to 1940 in PDF format.”

Virtual Libraries. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Feb. 4, 2008->

Online access: http://www.lib.noaa.gov/collections/virtual_libs/virtual_libraries.html

“NOAA Central Library provides content management support to several Virtual Library Projects at NOAA.”

Waves. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 23, 2008->

Online access: <http://www.nodc.noaa.gov/General/wave.html>

Weather and Climate Sites. Silver Spring, MD : National Oceanographic Data Center, NOAA Central Library, <Last updated, June 26, 2012->

Online access: <http://www.lib.noaa.gov/researchtools/subjectguides/weathersites.html>

West Coast Observing System (WCOS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

Online access: <http://www.ncddc.noaa.gov/activities/wcos/view>

“West Coast Observing System (WCOS) is an end-to-end data management system created in partnership with NOAA's Office of National Marine Sanctuaries.”

Why the weather? Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Mar. 20, 2008->

Online access: <http://docs.lib.noaa.gov/rescue/whytheweather/whytheweather.html>

“Charles Franklin Brooks, the founder and Secretary of the American Meteorological Society, composed daily public service announcements for the Science Service beginning in May 1923. These daily meteorological miscellany were also authored by Charles Fitzhugh Talman (1927-1935) and Alfred H. Thiessen (1938-1941). The essays were designed to present meteorology to the general public, by radio and newspapers, using clear and simple explanations of weather facts, phenomena and proverbs. "Beware of weather proverbs," wrote Brooks on May 28, 1923, "or better still, pick the true ones and throw aside those which have not been proved..." such as, "Thunder does not sour milk!" The NOAA Central Library maintains a set of these mimeographed sheets beginning with No. 1, May 1923, and continuing through April 1941.”

WINDandSEA : the oceanic and atmospheric sciences Internet guide. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Jan. 16, 2008->

Online access: <http://www.lib.noaa.gov/researchtools/subjectguides/wind/windandsea.html>

“his Internet Guide was built in response to the many reference questions that are posed to the library and is meant to make Internet searching more efficient for the NOAA community, the academic community, other government agencies concerned with oceanic and atmospheric issues, and the general public. Presently WINDandSEA has over 1,000 selected links to science and policy sites organized by topic and alphabetically within topic. All of these sites have been reviewed and annotated by NOAA Central Library and NOAA Regional Libraries staff.”

World Ocean Atlas 2009 : data sets & products .: Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Apr. 13, 2011->

Online access: http://www.nodc.noaa.gov/OC5/WOA09/pr_woa09.html

“World Ocean Atlas 2009 (WOA09) is a set of objectively analyzed (1° grid) climatological fields of in situ temperature, salinity, dissolved oxygen, Apparent Oxygen Utilization (AOU), percent oxygen saturation, phosphate, silicate, and nitrate at standard depth levels for annual, seasonal, and monthly compositing periods for the World Ocean. It also includes associated statistical fields of observed oceanographic profile data interpolated to standard depth levels on both 1° and 5° grids.”

World Ocean Database : data sets & products .: Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, June 24, 2011->

Online access: http://www.nodc.noaa.gov/OC5/WOD/pr_wod.html

“World Ocean Database (WOD) contains the World Ocean Database 2009 (WOD09) with the full set of quality control used to create World Ocean Atlas 2009 (WOA09) and all updates to the database (Feb. 2009 to present) with only initial quality control.”

World Ocean Database and World Ocean Atlas series : data sets & products .: Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, April 30, 2012->
Online access: <http://www.nodc.noaa.gov/OC5/indprod.html>

World Ocean Database select and search. Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, July 24, 2008->

Online access: <http://www.nodc.noaa.gov/OC5/SELECT/dbsearch/dbsearch.html>

“The WODselect retrieval system allows a user to search World Ocean Database 2005 and new data added since its release using a user-specified search criteria. A distribution map and cast count of these search criteria will give the user the option to have the data extracted and placed on the NODC FTP site in the WOD05 native and ".csv" data format.

XBT bias depth and temperature corrections. Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Aug. 7, 2008->

XBT quality test reference table. Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Aug. 8, 2008->

“The XBT bibliography table lists all known research papers which deal with the accuracy and reliability of data from Expendable Bathythermographs (XBTs) as well as cruise reports, notes, and technical reports with references to comparison tests with other instruments, usually Conductivity-Temperature-Depth probes. The main purpose of the page is to provide the XBT and CTD data from the comparison tests to be used to validate XBT drop rate/bias correction estimates and, possibly, to present new estimates based only on direct comparison test data.”



IV. Journal Articles

This section includes entries to the scientific papers, journal articles, peer-review publications, and conference papers by the National Oceanographic Data Center staff from 1961 till June 2012 and . The citations listed below have been selected based on searching Web of Science database, Google Scholar, various Internet sites, and NOAA/NODC websites. The citations are organized in Author/Title sequence and formatted according to the *APA Citation Style Guide, 6th ed.*

Anderson, D., & McVey E. (2007). **The Coral Reef Digital Library.** *Earth System Monitor*, 15(4), 4.
Online access: http://www.nodc.noaa.gov/General/NODCPubs/ESM/ESM_MAY2007vol15no4.pdf

Antonov, J. I. (1993). **Linear trends of temperature at intermediate and deep layers of the North Atlantic Ocean and the North Pacific Ocean: 1957-1981.** *Journal of Climate*, 6, 1928-1942.

Antonov, J. I., Levitus, S., & Boyer, T. P. (2002). **Steric sea level variations during 1957-1994: Importance of salinity.** *Journal of Geophysical Research-Oceans*, 107(C12). doi: 10.1029/2001jc000964

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/bo_jgr02.pdf

Antonov, J. I., Levitus, S., & Boyer, T. P. (2004). **Climatological annual cycle of ocean heat content.** *Geophysical Research Letters*, 31(4). doi: 10.1029/2003gl018851

Antonov, J. I., Levitus, S., & Boyer, T. P. (2005). **Thermosteric sea level rise, 1955-2003.** *Geophysical Research Letters*, 32(12). doi: 10.1029/2005gl023112

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/GL023112.pdf>

Arnold, J., & Kaske, N. K. (2005). **Evaluating the quality of a chat service.** *portal: Libraries and the Academy*, 5(2), 177-193.

Auladell, M., Pelegri, J. L., Garcia-Olivares, A., Kirwan, A. D., Lipphardt, B. L., Martin, J. M., Pascual, A., Sangra, P., & Zweng, M. (2010). **Modelling the early evolution of a Loop Current ring.** *Journal of Marine Systems*, 80 (3-4), 160-171.

Baker-Yeboah, S., Byrne, D. A., & Watts, D. R. (2010). **Observations of mesoscale eddies in the South Atlantic Cape Basin: Baroclinic and deep barotropic eddy variability.** *Journal of Geophysical Research-Oceans*, 115. doi: 10.1029/2010jc006236

Barton, A. D., & Casey, K. S. (2005). **Climatological context for large-scale coral bleaching.** *Coral Reefs*, 24(4), 536-554. doi: 10.1007/s00338-005-0017-1

Bassett, R., Beard, R., Burnett, W., Crout, R., Griffith, B., Jensen, R., & Signell, R. (2010). **Implementing the national integrated ocean from the observing system (IOOS (R))-Federal Agency perspective.** *Marine Technology Society Journal*, 44(6), 32-41.

Belkin, I. M. & Gordon, A. L. (1996). **Southern Ocean fronts from the Greenwich Meridian to Tasmania.** *Journal of Geophysical Research-Oceans*, 101, 3675-3696.

Belkin, I. M., & Levitus, S. (1996). **Temporal variability of the subarctic front near the Charlie-Gibbs fracture zone.** *Journal of Geophysical Research-Oceans*, 101(C12), 28317-28324. doi: 10.1029/96jc02794

Belkin, I., Levitus, S., Antonov, J., & S.-A. Malmberg. (1997). **On the North Atlantic "great salinity anomalies"**, *ICES CM 1997/R:05*, 42 pp.

Belkin, I. M., Levitus, S., Antonov, J., & Malmberg, S. A. (1998). **"Great salinity anomalies" in the North Atlantic.** *Progress in Oceanography*, 41(1), 1-68. doi: 10.1016/s0079-6611(98)00015-9

Belkin, I. M., Levitus, S., Antonov, J., & Malmberg, S. A. (2000). **"Great salinity anomalies" in the North Atlantic (vol 41, pg 1, 1998).** *Progress in Oceanography*, 45(1), 107-108. doi: 10.1016/s0079-6611(00)00003-3

Belter C. (2012). **Visualizing networks of scientific research.** *Online* 36(3):14-19. Online access: <http://www.infotoday.com/online/may12/Belter-Visualizing-Networks-of-Scientific-Research.shtml>

Belter, C. W. In Press. **A bibliometric analysis of articles supported by NOAA's Office of Ocean Exploration and Research.** *Scientometrics*. doi:10.1007/s11192-012-0836-0

- Boehlert, G. W., Costa, D. P., Crocker, D. E., Green, P., O'Brien, T., Levitus, S., & Le Boeuf, B. J. (2001). **Autonomous pinniped environmental samplers: Using instrumented animals as oceanographic data collectors.** *Journal of Atmospheric and Oceanic Technology*, 18(11), 1882-1893. doi: 10.1175/1520-0426(2001)018<1882:apesui>2.0.co;2
- Boyer, T., Conkright, M. E., & Levitus, S. (1999). **Seasonal variability of dissolved oxygen, percent oxygen saturation, and apparent oxygen utilization in the Atlantic and Pacific Oceans.** *Deep-Sea Research Part I-Oceanographic Research Papers*, 46(9), 1593-1613. doi: 10.1016/s0967-0637(99)00021-7
- Boyer, T., Gopalakrishna, V. V., Reseghetti, F., Naik, A., Suneel, V., Ravichandran, M., . . . Chico, R. A. (2011). **Investigation of XBT and XCTD Biases in the Arabian Sea and the Bay of Bengal with Implications for Climate Studies.** *Journal of Atmospheric and Oceanic Technology*, 28(2), 266-286. doi: 10.1175/2010jtecho784.1
- Boyer, T. P., & Levitus, S. (2002). **Harmonic analysis of climatological sea surface salinity.** *Journal of Geophysical Research-Oceans*, 107(C12). doi: 10.1029/2001jc000829
Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/bo_jgr02.pdf
- Boyer, T., Levitus, S., Antonov, J., Locarnini, R., Mishonov, A., Garcia, H., & Josey, S. A. (2007). **Changes in freshwater content in the North Atlantic Ocean 1955-2006.** *Geophysical Research Letters*, 34(16). doi: 10.1029/2007gl030126
- Boyer, T. P., Levitus, S., Garcia, H., Locarnini, R. A., Stephens, C., & Antonov, J. (2005). **Objective analyses of annual, seasonal, and monthly temperature and salinity for the world ocean on a 0.25 degrees grid.** *International Journal of Climatology*, 25(7), 931-945. doi: 10.1002/joc.1173
- Boyer, T. P., Levitus, S., Antonov, J. I., Locarnini, R. A., & Garcia, H. E. (2005). **Linear trends in salinity for the World Ocean, 1955-1998.** *Geophysical Research Letters*, 32(1). doi: 10.1029/2004gl021791
Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/DATA_ANALYSIS/PDF/saltrend.pdf
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