

**Library and Information Services Division
Current References 2008-2**

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



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U. S. Department of Commerce
National Oceanic and Atmospheric Administration
National Environmental Satellite, Data, and Information Service
National Oceanographic Data Center
NOAA Central Library
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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://www.nodc.noaa.gov/General/NODCPubs/bibls.html>.

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: http://docs.lib.noaa.gov/noaa_documents/NESDIS/NODC/LISD/Central_Library/current_references/current_references_2008_2.pdf

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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.

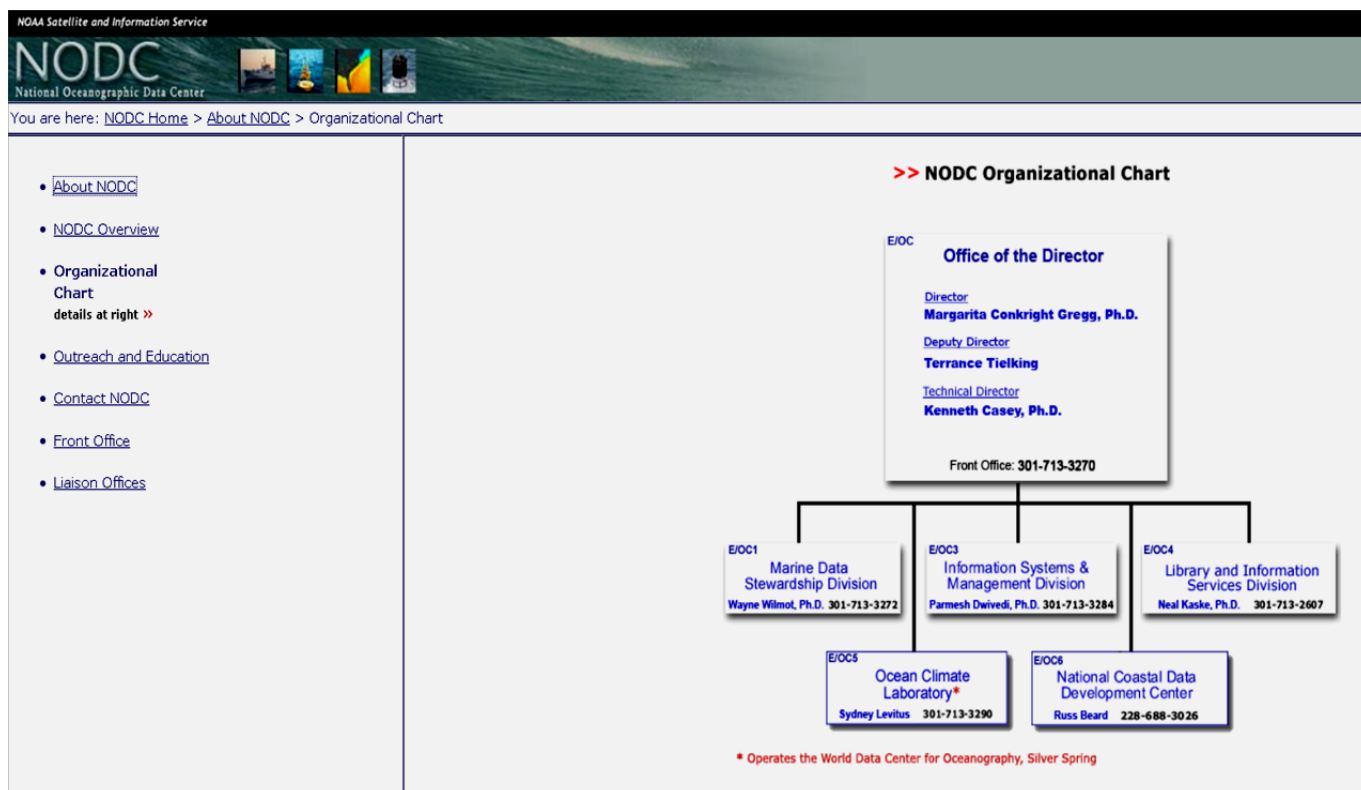
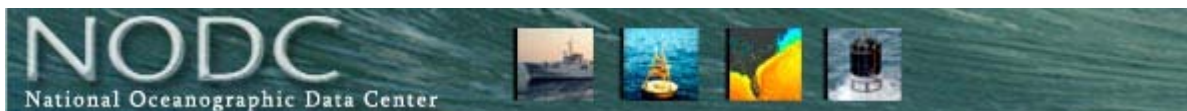


Figure 1. NODC Organizational Chart (<http://www.nodc.noaa.gov/General/NODC-About/orgchart.html>)

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Locarnini, R. A., T. D. O'Brien, H. E. Garcia, J. I. Antonov, T. P. Boyer, M. E. Conkright, C. Stephens. **World ocean atlas 2001. Vol. 3, Oxygen.** 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, 2002. (*NOAA atlas NESDIS* ; 51.)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa01v3d.pdf>
(Documentation)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa1v3f1.pdf> (Figures – dissolved oxygen)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa1v3f2.pdf> (Figures - percent oxygen saturation)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa1v3f3.pdf> (Figures - apparent oxygen utilization)

G1046.C1 N3 no.51

Conkright, M. E., H. E. Garcia, T. D. O'Brien, R. A. Locarnini, T. P. Boyer, C. Stephens J. I. Antonov. **World ocean atlas 2001. Vol. 4, Nutrients.** 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, 2002. (*NOAA atlas NESDIS* ; 52.)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa01v4d.pdf>
(Documentation)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa1v4f1.pdf> (Figure 1)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa1v4f2.pdf> (Figure 2)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa1v4f3.pdf> (Figure 3)

G1046.C1 N3 no.52

O'Brien, T. D., M. E. Conkright, T. P. Boyer, C. Stephens, J. I. Antonov, R. A. Locarnini, H. E. Garcia. **World ocean atlas 2001. Vol. 5, Plankton.** 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, 2002. (*NOAA atlas NESDIS* ; 53.)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa01v5d.pdf>
(Documentation)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa01v5f.pdf> (Figures)
G1046.C1 N3 no.53

Conkright, M. E., T. D. O'Brien, C. Stephens, R. A. Locarnini, H. E. Garcia, T. P. Boyer, J. I. Antonov. **World ocean atlas 2001. Vol. 6, Chlorophyll.** 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, 2002. (*NOAA atlas NESDIS* ; 54.)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa01v6d.pdf>
(Documentation)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/woa01v6f.pdf> (Figures)
G1046.C1 N3 no.54

Locarnini, R. A., A. V. Mishonov, J. I. Antonov, T. P. Boyer, and H. E. Garcia.

World ocean atlas 2005. Vol. 1, Temperature. 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* ; 61.)

Online access: ftp://ftp.nodc.noaa.gov/pub/WOA05/DOC/woa05_vol1_text_figures.pdf
G1046.C1 N3 no.61

Antonov, J. I., R. A. Locarnini, T. P. Boyer, A. V. Mishonov, and H. E. Garcia.

World ocean atlas 2005. Vol. 2, Salinity. 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* ; 62.)

Online access: ftp://ftp.nodc.noaa.gov/pub/WOA05/DOC/woa05_vol2_text_figures.pdf
G1046.C1 N3 no.62

Garcia, H. E., R. A. Locarnini, T. P. Boyer, and J. I. Antonov.

World ocean atlas 2005. Vol. 3, Dissolved oxygen, apparent oxygen utilization, and oxygen saturation. 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* ; 63.)

Online access: ftp://ftp.nodc.noaa.gov/pub/WOA05/DOC/woa05_vol3_text_figures.pdf
G1046.C1 N3 no.63

Garcia, H. E., R. A. Locarnini, T. P. Boyer, and J. I. Antonov.

World ocean atlas 2005. Vol. 4, Nutrients (phosphate, nitrate, silicate). 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* ; 64.)

Online access: ftp://ftp.nodc.noaa.gov/pub/WOA05/DOC/woa05_vol4_text_figures.pdf
G1046.C1 N3 no.64

World Ocean Circulation Experiment. Data Information Unit.

World Ocean Circulation Experiment satellite data CD-ROM. World Ocean Circulation Experiment, Florida State University, NASA, Physical Oceanography DAAC. [Southampton, U.K. : WOCE International Project Office, Data Information Unit ; Silver Spring, Md. : Available from the U.S. National Oceanographic Data Center, 1998-
GC228.5 .W45 1998 disc 13

National Oceanographic Data Center (U.S.). Ocean Climate Laboratory.

World ocean database 1998. 5 CD-ROMs. 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, 1998. Version 2.0 of WOD98 was released January 2000. (*NOAA atlas NESDIS*.)

G1046.C1 N34 1998
G1046.C1 N34 1998
G1046.C1 N3 no.18-21a CD-ROM
G1046.C1 N34 1998 Documentation

Levitus, S., T. P. Boyer, M. E. Conkright, T. O' Brien, J. Antonov, C. Stephens, L. Stathoplos, D. Johnson, R. Gelfeld.

World ocean database, 1998. Vol. 1, Introduction. 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, 1998. (*NOAA atlas NESDIS ; 18*)

G1046.C1 N3 no.18

Levitus, S., T.P. Boyer, M.E. Conkright, D. Johnson, T. O' Brien, J. Antonov, C. Stephens, R. Gelfeld.

World ocean database, 1998. Vol. 2, Temporal Distribution of Mechanical Bathythermograph Profiles. 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, 1998. (*NOAA atlas NESDIS ; 19*)

G1046.C1 N3 no.19

Boyer, T.P., J. Antonov, S. Levitus, M.E. Conkright, T. O' Brien, C. Stephens, D. Johnson, R. Gelfeld.

World ocean database, 1998. Vol. 3, Temporal Distribution of Expendable Bathythermograph Profiles. 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, 1998. (*NOAA atlas NESDIS ; 20*)

G1046.C1 N3 no.20

Boyer, T.P., M.E. Conkright, S. Levitus, C. Stephens, T. O' Brien, D. Johnson, R. Gelfeld.

World ocean database, 1998. Vol. 4, Temporal Distribution of Conductivity/Salinity-Temperature-Depth. 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, 1998. (*NOAA atlas NESDIS ; 21*)

G1046.C1 N3 no.21

Boyer, T.P., M.E. Conkright, S. Levitus, C. Stephens, T. O' Brien, D. Johnson, R. Gelfeld.

World ocean database, 1998. Vol. 5, Temporal Distribution of Station Data Temperature and Salinity Profiles. 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, 1998. (*NOAA atlas NESDIS ; 22*)

G1046.C1 N3 no.22

Conkright, M.E., T.P. Boyer, S. Levitus, D. Johnson, T. O' Brien, C. Stephens, R. Gelfeld.

World ocean database, 1998. Vol. 6, Temporal Distribution of Station Data Nutrient Profiles. 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, 1998. (*NOAA atlas NESDIS ; 23*)

G1046.C1 N3 no.23

O' Brien, T., M.E. Conkright, T.P. Boyer, S. Levitus, D. Johnson, C. Stephens, R. Gelfeld.

World ocean database, 1998. Vol. 7, Temporal Distribution of Station Data Oxygen, pH, and Alkalinity Profiles. 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, 1998. (*NOAA atlas NESDIS ; 24*)
G1046.C1 N3 no.24

Conkright, M.E., T. O'Brien, L. Stathoplos, C. Stephens, T.P. Boyer, D. Johnson, S. Levitus, R. Gelfeld.

World ocean database, 1998. Vol. 8, Temporal Distribution of Station Data Chlorophyll and Plankton Profiles. 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, 1998. (*NOAA atlas NESDIS ; 25*)
G1046.C1 N3 no.25

Conkright, M. E. ... [et.al.]

World ocean database 1998 : CD-ROM data set documentation. 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, [1998] (*Internal report (National Oceanographic Data Center)*)
G1046.C1 N35 1998

Conkright, M. E., J. I. Antonov, O. Baranova, T. P. Boyer, H. E. Garcia, R. Gelfeld, D. Johnson, R. A. Locarnini, P. P. Murphy, T. D. O'Brien, I. Smolyar, C. Stephens.

World ocean database 2001. Vol. 1, Introduction. 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, 2002. (*NOAA atlas NESDIS ; 42*)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/wod01_1.pdf

G1046.C1 N3 no.42

Boyer, T. P., M. E. Conkright, J. I. Antonov, O. Baranova, H. E. Garcia, R. Gelfeld, D. Johnson, R. A. Locarnini, P. P. Murphy, T. D. O'Brien, I. Smolyar, C. Stephens.

World ocean database 2001. Vol. 2, Temporal Distribution of Bathythermograph Profiles. 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, 2002. (*NOAA atlas NESDIS ; 43*)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/wod01_2.pdf

G1046.C1 N3 no.43

Stephens, C, M. E. Conkright, J. I. Antonov, O. Baranova, T. P. Boyer, H. E. Garcia, R. Gelfeld, D. Johnson, R. A. Locarnini, P. P. Murphy, T. D. O'Brien, I. Smolyar.

World ocean database 2001. Vol. 3, Temporal Distribution of Conductivity/Salinity-Temperature-Depth (Pressure) Casts. 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, 2002. (*NOAA atlas NESDIS ; 44*)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/wod01_3.pdf

G1046.C1 N3 no.44

Locarnini, R. A., M. E. Conkright, J. I. Antonov, O. Baranova, T. P. Boyer, H. E. Garcia, R. Gelfeld, D. Johnson, P. P. Murphy, T. D. O'Brien, I. Smolyar, C. Stephens.

World ocean database 2001. Vol. 4, Temporal Distribution of Temperature, Salinity and Oxygen Profiles.

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, 2002. (*NOAA atlas NESDIS* ; 45)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/wod01_4.pdf

G1046.C1 N3 no.45

Conkright, M. E., T. P. Boyer, J. I. Antonov, O. K. Baranova, H. E. Garcia, R. Gelfeld, D. Johnson, R. A. Locarnini, P. P. Murphy, T. D. O'Brien, I. Smolyar, C. Stephens.

World ocean database 2001. Vol. 5, Temporal Distribution of Nutrient Profiles.

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, 2002. (*NOAA atlas NESDIS* ; 46)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/wod01_5.pdf

G1046.C1 N3 no.46

P. P. Murphy, M. E. Conkright, T. P. Boyer, J. I. Antonov, O. K. Baranova, H. E. Garcia, R. Gelfeld, D. Johnson, R. A. Locarnini, T. D. O'Brien, I. Smolyar, C. Stephens.

World ocean database 2001. Vol. 6, Temporal Distribution of pH, Alkalinity, pCO₂ and tCO₂ Data.

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, 2002. (*NOAA atlas NESDIS* ; 47)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/wod01_6.pdf

G1046.C1 N3 no.47

World ocean database 2001. Vol. 7, Temporal Distribution of Chlorophyll and Plankton Data.

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, 2002. (*NOAA atlas NESDIS* ; 48)

Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/wod01_6.pdf

G1046.C1 N3 no.48

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

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* ; 60)

Online access: ftp://ftp.nodc.noaa.gov/pub/WOD05/DOC/wod05_intro.pdf

G1046.C1 N3 no.60

Johnson, Daphne R., Hernan E. Garcia, and Tim P. Boyer.

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

World ocean database 2005 documentation. 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.) ; 18)*)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/WOD05/DOC/wod05readme.pdf>

Levitus, S., C. Stephens, J. Antonov, and T. P. Boyer.

Yearly and year-season upper ocean temperature anomaly fields, 1948-1998. Washington, D.C. : U.S. G.P.O., 2000. (*NOAA atlas NESDIS ; 40.*)

Online access: <ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/nesdis40.pdf>

G1046.C1 N3 no.40

Markhaseva, E. L., A. A. Golikov, T. A. Agapova, A. A. Beig, I. Smolyar.

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.*

QL123 .Z67 2002



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 on Sept. 24, 2008.

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/docaqua/frontpage.htm>

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
“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>

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

Online access: <http://www.ncddc.noaa.gov/activities/coastal-habitat/view>

“Coastal Habitat showcases several pilot projects developed by NCDDC in collaboration with National Marine Fisheries including GIS applications that assist with monitoring and assessment of habitats.”

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.”

CoRIS : NOAA's Coral Reef Information System. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Aug. 19, 2008->

Online access: <http://www.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 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>

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, Sept. 17, 2008->

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, Sept. 22, 2008->

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

“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 Temperature-Salinity Profile Program (GTSP). Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 19, 2008->

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

“The U.S. National Oceanographic Data Center (NODC) maintains the global database of temperature and salinity data as a result of NODC participation in the Global Temperature – Salinity Profile Program (GTSP). The GTSP data are maintained in a relational database, the so called Continuously Managed Database (CMD), that is managed by commercial software on a UNIX workstation. Real-time data are added, as they arrive from Canada's Marine Environmental Data Service (MEDS) three times per week. Higher quality delayed mode data are now being quality controlled and added to the CMD. As these observations are added, the matching real-time data are tagged to avoid accepting two copies of the same data. The database makes it possible to quickly load and retrieve data, as well as statistics about the number of observations per geographic region, time period, ship, or data type. Other NODC roles include preparing monthly data sets and transferring them to participants in the U.S., Australia and France, as well as to other requesters and maintaining GTSP files on line.”

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.”

Gulf Hypoxia Monitoring Stakeholder Committee. Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

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

“The Gulf Hypoxia Monitoring Stakeholder Committee was established to ascertain the needs of the stakeholder communities for a comprehensive, integrative, sustainable monitoring program for the northern Gulf of Mexico hypoxic zone (“Dead Zone”). The Committee will also determine the monitoring required to improve management of regional inshore hypoxia along the Gulf of Mexico and the Education

and Outreach activities necessary to raise public awareness on the health and economic impacts of hypoxia.”

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 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.”

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

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

Harmful Algal Blooms Observing System (HABSOS). Stennis Space Center, MS : National Coastal Data Development Center, <Last updated, Sept. 18, 2008->

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.”

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.”

International Polar Year 2007-2008 : polar resources in the NOAA Library Network. 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 Archive for Sea Level. Honolulu, Hawaii : University of Hawaii, Sea Level Center; in collaboration with National Oceanographic Data Center, <Last viewed, Sept. 22, 2008->

Online access: <http://uhslc.soest.hawaii.edu/uhslc/jasl.html>

Online access via NCDDC: <http://www.ncddc.noaa.gov/activities/jasl/view>

“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.ncddc.noaa.gov/activities/jasadcp/view>

“Joint Archive for Shipboard Acoustic Doppler Current Profiler (JASADCP) acquires, reviews, documents, archives, and distributes ocean current shipboard ADCP data sets.”

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.”

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.”

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.”

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, Mar. 15, 2007->

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.”

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.”

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/noaainfo/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 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/noaainfo/heritage/heritage.html>

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, Sept. 10, 2008->

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.”

NOAA Photo Library. Silver Spring, MD : National Oceanographic Data Center, Library and Information Services Division, <Last updated, Mar. 14, 2007->

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

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 CD-ROM & DVD products. Silver Spring, MD : National Oceanographic Data Center, <Last updated, Sept. 22, 2008->

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

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

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.”

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, 1982-2008. 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>

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.”

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, July 11, 2008->

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, May 7, 2008->

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, Library and Information Services Division, <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>

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 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 WOD*select* 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.

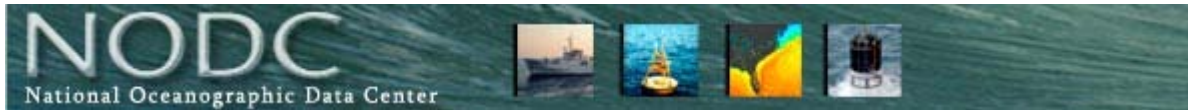
XBT bias depth and temperature corrections. Silver Spring, MD : National Oceanographic Data Center, Ocean Climate Laboratory, <Last updated, Aug. 7, 2008->

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.”

For more information contact:

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Visit the NOAA Central Library home page:
<http://www.lib.noaa.gov/>



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