Library and Information Services Division
Current References 2008-2
(Revised, May 2015)

National Oceanographic Data Center Publications and Products in the NOAA Central Library Network, 1961-2015

A Bibliography

Designed by Barbara Ambrose, NCDDC

Prepared by

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NOAA Central Library
1315 East-West Highway, Silver Spring, MD 20910

May 2015

U. S. Department of Commerce
National Oceanic and Atmospheric Administration
National Environmental Satellite, Data, and Information Service
National Centers for Environmental Information
NOAA Central and Regional Libraries

Preface to the 2015 revision

As of January 2015, the National Oceanographic Data Center (NODC) merged with the National Climatic Data Center (NCDC), and the National Geophysical Data Center (NGDC) to form the National Centers for Environmental Information (NCEI). The newly form NCEI organizational chart can be viewed at: http://docs.lib.noaa.gov/noaa_documents/NESDIS/NCEI/NCEI_organization-chart_2015_0129.pdf .

The original *Bibliography* was issued in November 2008 in the *LISD Current Reference Series 2008-2* and then revised in August 2012.This current revision includes all entries from the previous versions and adds publications and peer-reviewed journal articles issued since the last revision in August 2012. This cumulative revision supersedes all previous versions and serves as a comprehensive bibliography for the National Oceanographic Data Center.

Many of the entries in the *Bibliography* include a link to the described resource and thus may also serve as an Internet locator for print and online resources by NODC Staff.

Section III. Internet Resources and Products Developed in NODC has been enlarged and updated with resources and products developed by NODC staff between August 2012 and May 2015.

Section IV. Journal Articles by NODC Staff, 1961-March 2015 has been also enlarged to include additional peer-reviewed publications, journal articles, and conference contributions from the scientists and staff of the National Oceanographic Data Center (NODC) issued in the period August 2012 to March 2015. This section is organized by author/title sequence in accordance with the *APA Citation Style Guide, 6th Ed.*

This *Bibliography* is published online and is available via the NOAA Central Library home page - *Subject Guides and Bibliographies* at: http://docs.lib.noaa.gov/noaa_documents/NESDIS/NODC/LISD/Central_Library/current_references/current_references_2008_2_update_2015.pdf and also can be searched via the library's online catalog (NOAALINC) at: http://www.lib.noaa.gov/uhtbin/webcat/ .

The 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/refservices/ill.html

This revision of *Bibliography* would not have been possible without the assistance of librarians Angel Vu, Sarah Davis, Caroline Thomas, and UMCP intern Brittany Davis, and without the editorial advice of Dr. Neal Kaske, Director of the NOAA Central and Regional Libraries and Stanley Elswick, Acting Director of LISD.

All entries and URL links included in this document have been accessed and viewed during the month of May 2015. Any comments and suggestions are greatly appreciated.

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May, 2015

Preface to the original document

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

The *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/refservices/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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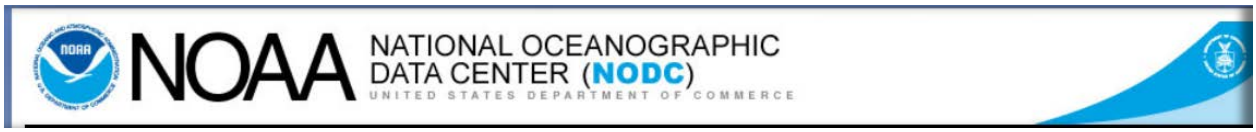
November 2008

Contents:



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.

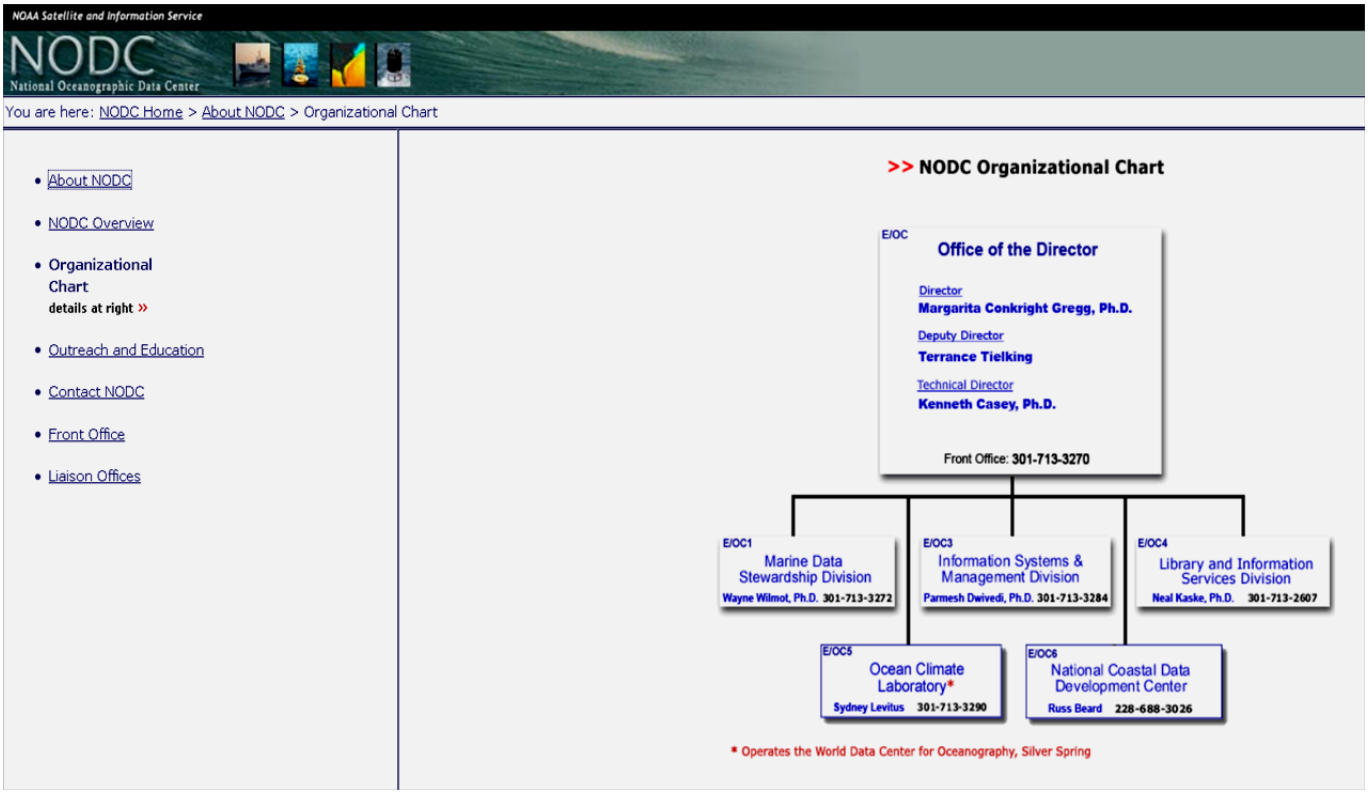


Figure 1. NODC Organizational Chart (http://www.nodc.noaa.gov/General/NODC-About/orgchart.html)

As of January 2015, the National Oceanographic Data Center (NODC) merged with the National Climatic Data Center (NCDC), and the National Geophysical Data Center (NGDC) to form the National Centers for Environmental Information (NCEI). The newly formed NCEI organizational chart can be viewed at: http://docs.lib.noaa.gov/noaa_documents/NESDIS/NCEI/NCEI_organization-chart_2015_0129.pdf

[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

II. NODC Publications in the NOAA Central Library Network Catalog (NOAALINC) 1961-2015

This section is organized alphabetically by title. All entries listed below have been accessed and viewed during month of May 2015.

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GC228.5 .W45 1998 disc 8

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QC994 .I57 1971

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GC10 .N6 1981

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GC10 .N6 1976

Annual report of the NODC. (1961-1967). Washington, D.C.: NOAA, National Oceanographic Data Center.
GC37.5 .N38 1960/61-1966/67

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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)
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III. Internet Resources and Products Developed in NODC

This section includes alphabetically listed websites, home pages, and database portals developed by the NODC staff. All entries listed below have been accessed and viewed during month of May 2015.

2008 NOAA Extreme Weather Information Sheet (NEWIS). Stennis Space Center, MS: National Coastal Data Development Center.
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.
Online access: http://www.lib.noaa.gov/docaqua/frontpage.htm

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

Arctic Regional Climatology. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: http://www.nodc.noaa.gov/OC5/regional_climate/arctic/
"The Arctic Ocean is an area of intense activity both for environmental and commercial interests. Climate change has disproportionally affected this region with rising ocean temperatures and continued loss of summer sea ice extent. Oil and mineral exploration and exploitation are occurring and intensifying. To facilitate study of the region, NODC Regional Climatology Team[1,2] developed a new set of high-resolution long-term mean surface/subsurface temperature and salinity fields. These mean fields incorporate a great deal of data not previously available."

Biology data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/biology.html

Brown Bag Seminar series. (1994-present).
Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.
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."

Chlorophyll data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/chloro.html

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

Climatological Atlas of the Nordic Seas and Northern North Atlantic. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: http://www.nodc.noaa.gov/OC5/nordic-seas/
"This Atlas is a result of an international collaboration between the Arctic and Antarctic Research Institute (Russia), Geophysical Institute, University of Bergen (Norway), and the National Oceanographic Data Center (USA). The Atlas is based on data collected from more than 500,000 stations between the years 1900 and 2012. It contains decadal, periodic, annual and monthly climatological fields for water temperature, salinity, and density on a 0.25-degree grid at different depths. In addition to the climatological maps, time-depth diagrams of all parameters, including oxygen, at twelve selected areas covered by long-term observational programs, are available."

Climatology Products for the Deepwater Horizon Incident. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.nodc.noaa.gov/General/DeepwaterHorizon/climatology.html

Theberge, Albert E., Jr. (2007).
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.
Online access: http://www.lib.noaa.gov/noaainfo/heritage/coastsurveyvol1/CONTENTS.html

Coastal ecosystem Maps – Gulf of Mexico. Stennis Space Center, MS: National Coastal Data Development Center.
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 Risk Atlas (CRA). Stennis Space Center, MS: National Coastal Data Development Center.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
Online access: http://www.nodc.noaa.gov/deepwaterhorizon/glider_float.html

Deepwater Horizon Support: Joint Analysis Group. Stennis Space Center, MS: National Coastal Data Development Center.
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.
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.
Online access: http://www.nodc.noaa.gov/General/DeepwaterHorizon/satellite.html

Deepwater Horizon Support: Ship Data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/DeepwaterHorizon/ships.html

Deepwater Horizon Support: Special Collections. Silver Spring, MD: National Oceanographic Data Center.
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.
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.
Online access: http://www.lib.noaa.gov/refservices/refshelf.html

Earth System Monitor. (1990-present).
Silver Spring, MD: National Oceanographic Data Center, 1990-present.
Online access: 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."

East Asian Seas Regional Climatology. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: http://www.nodc.noaa.gov/OC5/regional_climate/KPRclimatology/
"The National Oceanographic Data Center (USA) and the National Fisheries Research and Development Institute* (Republic of Korea) are pleased to release the first version of a set of temperature and salinity climatological mean fields for the East Asian Seas Regional Climatology. The user may view or download individual temperature or salinity climatological mean files or tar files of both climatological mean fields and related statistics."

EcoWatch Data Services. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/activities/healthy-oceans/ecowatch/ "
Gulf of Mexico Data Discovery Portal
Customizable Data Access Portal

Ecosystem Data Assembly Center (EDAC). Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.northerngulfinstitute.org/edac/
"The NOAA National Coastal Data Development Center (NCDDC), a division of the National Ocean Data Center (NODC), and the Northern Gulf Institute established the Ecosystems Data Assembly Center (EDAC) in July 2006. Serving as a developmental data site for NCDDC, the EDAC also directly supports the ecosystem-focused, Gulf of Mexico science mission of the NGI. NCDDC and NGI created the cyber-infrastructure of EDAC to provide access to ecosystem-related observations, data bases and ocean forecast output relevant in and around the Gulf of Mexico and elsewhere. This information (available to scientists, resource managers and the general public via the EDAC) supports research helping to increase the understanding of the unique physical, biological, and chemical characteristics of Gulf of Mexico Regional Ecosystems."

Ecosystem Goal Team (EGT) and Ecosystem Observation Program (EOP). Stennis Space Center, MS: National Coastal Data Development Center.
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.
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."

Fisheries Heritage Digital Collection. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.

Flower Garden Banks National Marine Sanctuary (NMS) Maps. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/interactive-maps/coastal-habitats/flower-garden-banks/
"The Flower Garden Banks National Marine Sanctuary (NMS) Maps application uses ESRI's ArcGIS server technology to integrate data and imagery into a user-friendly interface. The map was created in partnership with NOAA's National Marine Sanctuaries program. The Flower Garden Banks NMS is the only marine sanctuary located in the Gulf of Mexico. Our interactive map allows users to view sanctuary data, photographs, and shaded relief, along with reference data that includes buoys, artificial reefs, and climatology. "

Foreign climate data. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
Online access: http://docs.lib.noaa.gov/rescue/data_rescue_home.html

George Washington Carver and Tuskegee weather data. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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."

GIN Seas Regional Climatology. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: http://www.nodc.noaa.gov/OC5/regional_climate/gin-seas-climate/

Global Argo Data Repository (GADR). Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/argo/
Online access (Data): http://www.nodc.noaa.gov/argo/accessData.htm
"The Global Argo Data Repository (GADR) serves the Argo data in the new GADR netCDF format (GADR-3.0) using lowercase letters for the dimension and variable names and still preserving the contents of the original Argo data. The enhancement of the global attributes section allow Argo dataset discovery and facilitate mapping between dataset metadata (notably netCDF) and ISO 19115. These conventions identify and define a list of NetCDF global attributes recommended for describing a NetCDF dataset to discovery systems such as Digital Libraries. Software tools will use these attributes for extracting metadata from datasets, and exporting to Dublin Core, DIF, ADN, FGDC, ISO 19115 etc. metadata formats."

Global Ocean Heat and Salt Content. Silver Spring, MD: National Oceanographic Data Center.
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 (GTSPP). Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/GTSPP/
"The Global Climate Observing System (GCOS) recognizes the Global Temperature and Salinity Profile Programme (GTSPP) as one of the international operational activities that provide essential, sub-surface climate variables of temperature and salinity profile data. GTSPP 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."

Government Documents: Government Information and the Federal Depository Library Program (FDLP). Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.
Online access: http://www.lib.noaa.gov/collections/gov/govdocmaps.html

Gulf of Mexico Data Atlas. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://gulfatlas.noaa.gov/
"Based on the idea of a traditional atlas but offered via the Internet by NOAA, the Gulf of Mexico Data Atlas provides answers to questions related to the physical environment, marine resources, and economic activity in the Gulf of Mexico. Information is presented in the form of map plates with descriptions, written by recognized subject matter experts, explaining how the data were gathered and how they are relevant. The Gulf of Mexico Data Atlas has data from federal, state, non-governmental agencies, and academia."

Gulf of Mexico Historical Data and Information. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.nodc.noaa.gov/General/gulfmex.html

Gulf of Mexico Hypoxia Watch. Stennis Space Center, MS: National Coastal Data Development Center.
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.
Online access: http://www.ncddc.noaa.gov/activities/healthy-oceans/marine-debris/
"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 Regional Climatology. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: http://www.nodc.noaa.gov/OC5/regional_climate/GOMclimatology/
"A set of mean fields for temperature and salinity for the Gulf of Mexico are available for viewing and download."

Harmful Algal BloomS Observing System (HABSOS). Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://habsos.noaa.gov/
Online access http://www.ncddc.noaa.gov/interactive-maps/environmental-monitoring/habsos/
"HABSOS is a data collection and distribution system for harmful algal bloom (HAB) information in the Gulf of Mexico. The goal of HABSOS is to provide environmental managers, scientists, and the public with a data driven resource for HAB events. Cell counts and environmental information are combined into a single product and distributed on a map powered by ArcGIS. HABSOS strives to provide the most accurate picture of harmful algal bloom location and quantity by using the latest sample data available."

Heat Content 2004. Silver Spring, MD: National Oceanographic Data Center.
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."

Hypoxia Watch. Stennis Space Center, MS: National Coastal Data Development Center. Online access: http://www.ncddc.noaa.gov/interactive-maps/environmental-monitoring/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), National Centers for Environmental Information at Stennis (NCEI), and the CoastWatch-Caribbean/Gulf of Mexico Regional Node. Hypoxia Watch provides near-real-time data and map products using shipboard measurements of bottom-dissolved oxygen. These products form the basis for summertime advisories on anoxic and hypoxic conditions in the north-central Gulf of Mexico. This map provides a near-real-time, geospatially referenced view of dissolved oxygen measurements made during the annual summer Gulf of Mexico Southeastern Monitoring and Assessment Program (SEAMAP) cruise in the northwest and north-central Gulf of Mexico."

Interactive Maps. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/interactive-maps/

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

Long Term Stewardship and Reanalysis Facility (LTSRF). Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/SatelliteData/ghrsst/
"Long Term Stewardship and Reanalysis Facility (LTSRF) for the Group for High Resolution SST (GHRSST), is routinely delivering individual as well as multi-sensor blended SST products with high accuracy and fine spatial resolution."

Marine Metadata Interoperability Project (MMI). Stennis Space Center, MS: National Coastal Data Development Center.
Online access: https://marinemetadata.org/
"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.
Online access: http://www.lib.noaa.gov/researchtools/subjectguides/mpa_research_guide.html

MERMid. Stennis Space Center, MS: National Coastal Data Development Center.
Online access:
http://www.ncddc.noaa.gov/metadata-standards/mermaid/
"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.
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.

Monthly Weather Review. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.
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 Centers for Environmental Information (NCEI). (2015).
Formerly the National Oceanographic Data Center (NODC), http://www.nodc.noaa.gov/
Online access: http://ncei.noaa.gov/ (NCEI official home page).
"The demand for high-value environmental data and information has dramatically increased in recent years. NCEI is designed to improve NOAA's ability to meet that demand. The Consolidated and Further Continuing Appropriations Act, 2015, Public Law 113-235, approved the consolidation of NOAA's existing three National Data Centers: the National Climatic Data Center, the National Geophysical Data Center, and the National Oceanographic Data Center into the National Centers for Environmental Information."

National Operational Model Archive and Distribution System (NOMADS). Stennis Space Center, MS: National Coastal Data Development Center.
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 enable 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.
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."

NCEI InformationOne-pagers. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/about-ncddc/publications/
"These publications are one-pagers about a variety of activities at NCEI at Stennis. Additional publications are available from NCEI at Silver Spring ."

Theberge, Albert E., Jr.
NOAA Browser: Organization via Web pages. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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 and Information Network Catalog (NOAALINC). Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
Online access: http://www.lib.noaa.gov/uhtbin/webcat/

NOAA Central Library home page. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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 Central Library Journal Subscription List. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
Online access: http://www.lib.noaa.gov/researchtools/journals/journals.html
"This listing contains all of the journals and magazines currently subscribed to by the NOAA Central Library. It also contains some open access journals on topics of interest to NOAA. Access to the full text of hundreds of additional journals is available through the library's subscriptions to the Wiley Online Library, JSTOR, EconLit, Hein Online, and Lexis.com. Over 6,000 additional journals are available through the Directory of Open Access Journals."

NOAA Extreme Weather Information Sheets. Stennis Space Center, MS: National Coastal Data Development Center.
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 Habitat Restoration Monitoring. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/interactive-maps/environmental-monitoring/noharm/
"The NOAA Habitat Restoration Monitoring (NOHARM) map combines Google Maps technology with ESRI's ArcGIS Server and ArcIMS products to create a comprehensive resource for monitoring and assessment of the coastal habitat. The National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries (NMFS), and the National Centers for Environmental Information at Stennis teamed to develop the NOAA Habitat Restoration Monitoring (NOHARM) website. Data presented there are part of an experimental approach to monitoring selected NOAA-sponsored restoration projects. The initial focus is on projects funded by the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA)."

NOAA heritage. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
Online access: http://www.lib.noaa.gov/noaainfo/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.
Online access: http://www.history.noaa.gov/

NOAA Libraries and Information Network directory. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.
Online access: http://www.lib.noaa.gov/uhtbin/webcat/

NOAA Marine Environmental Buoy Database. Silver Spring, MD: National Oceanographic Data Center.
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.
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., Ward, Janet.
NOAA Photo Library. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.

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.
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.
Online access: http://www.ncddc.noaa.gov/oer/
"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."

NOAA-Wide and Open Access Databases and E-Journals. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
Online access: http://www.lib.noaa.gov/researchtools/journals/noaawide.html

NODC 4 km AVHRR Pathfinder Project. Silver Spring, MD: National Oceanographic Data Center.
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 GHRSST Data Specification Version 2 (GDS2.0)."

NODC CD-ROM & DVD products. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/NODC-cdrom.html

NODC Coastal Water Temperature Guide (CWTG). Silver Spring, MD: National Oceanographic Data Center.

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.
Online access: http://www.nodc.noaa.gov/General/NODC-datafmts.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.
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.
Online access: http://www.nodc.noaa.gov/search/prod/
Online access: http://data.nodc.noaa.gov/geoportal/catalog/search/search.page (Search OAS)

NODC Ocean Color Archive. Silver Spring, MD: National Oceanographic Data Center.
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 (Public Outreach). Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/NODCPubs/

NODC Support for the Deepwater Horizon Incident. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/DeepwaterHorizon/support.html

NODC Time Series Database (TSDB). Silver Spring, MD: National Oceanographic Data Center.
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.
Online access: http://www.northerngulfinstitute.org/
"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.
Online access: http://www.nodc.noaa.gov/General/nutrients.html

Ocean Climate Laboratory products. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
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.
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.
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.
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.
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.
Online access: http://www.nodc.noaa.gov/about/faq.html

Ocean In Situ Data: Deepwater Horizon Support. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/DeepwaterHorizon/oceanprofile.html

Ocean profile data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/profile.html

Oceanographic data at NODC. Silver Spring, MD: National Oceanographic Data Center.
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.
Online access: http://www.nodc.noaa.gov/SatelliteData/Education/

OceanNOMADS. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://ecowatch.ncddc.noaa.gov/OceanNOMADS
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.
Online access: http://oceanservice.noaa.gov/programs/ocrm/
"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.
Online access: http://www.nodc.noaa.gov/General/NODC-About/Outreach/

Oxygen data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/oxygen.html

OXYGEN/AOU Content (1955-1998). Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: http://www.nodc.noaa.gov/OC5/DATA_ANALYSIS/oxy_intro.html
Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/PUBLICATIONS/O2_04GL0.pdf (Manuscript)
"Data distribution figures, anomaly, and climatological oxygen/AOU fields associated with "On the variability of dissolved oxygen and apparent oxygen utilization content for the upper world ocean: 1955 to 1998" by Hernan E. Garcia, T.P Boyer, S. Levitus, R. A. Locarnini, and J.I. Antonov published in *Geophysical Research Letters*."

Pacific Region Integered Data Enterprise (PRIDE). Silver Spring, MD: National Oceanographic Data Center.
Online access: http://apdrc.soest.hawaii.edu/PRIDE/
"Advance NOAA's mission objectives and meet critical regional needs for ocean, climate and ecosystem information to protect lives and property, support economic development and enhance the resilience of Pacific Island communities in the face of changing environmental conditions. Developed in partnership with the National Oceanographic Data Center."

Pacific Islands Climate Change Virtual Library. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://docs.lib.noaa.gov/vlib/PICCP/

Phytoplankton Monitoring Network. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/interactive-maps/environmental-monitoring/pmn/
"As a NOAA-sponsored outreach program, the Phytoplankton Monitoring Network (PMN) teaches students, teachers, and the general public about phytoplankton and harmful algal blooms. Volunteers sample various sites along the coasts of many different states, from Hawaii to Massachusetts, and in the U.S. Virgin Islands. This interactive map provides access to information collected by the Phytoplankton Monitoring Network volunteers. Map users can access data from 2001 through the present. The map also allows the user to create queries to derive specific information on 40 different species of phytoplankton."

Plankton data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/plankton.html

Publication summary of the NODC Ocean Climate Laboratory, 1982-2015. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
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.

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. 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.
Online access: http://www.nodc.noaa.gov/OC5/DATA_ANALYSIS/sal_intro.html
Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/DATA_ANALYSIS/PDF/saltrend.pdf (manuscript)
"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.
Online access: http://www.nodc.noaa.gov/General/salinity.html

Satellite data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/satellite.html

Satellite oceanography at NODC. Silver Spring, MD: National Oceanographic Data Center.
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."

Science and Technology Enterprise. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/activities/science-technology/

Science and Technology Enterprise. **Data Management Best Practices**. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/activities/science-technology/data-management/

Science and Technology Enterprise. **Digital Atlas Portal**. Stennis Space Center, MS: National Coastal Data Development Center.

Online access: http://www.ncddc.noaa.gov/activities/science-technology/digital-atlas/

Science and Technology Enterprise. **Okeanos Explorer Ship Tracker Map**. Stennis Space Center, MS: National Coastal Data Development Center.
Online access: http://www.ncddc.noaa.gov/activities/science-technology/okeanos/
http://www.ncddc.noaa.gov/activities/protected-species/view

Sea level data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/sealevel.html

Shipboard Sensor Database (SSD). Silver Spring, MD: National Oceanographic Data Center.
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: the NOAA Library and Information Services Division 'Current REference Series." Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
Online access: http://www.lib.noaa.gov/researchtools/subjectguides/bibliographies.html

Temperature data. Silver Spring, MD: National Oceanographic Data Center.
Online access: http://www.nodc.noaa.gov/General/temperature.html

U.S. Army Signal Corps/Weather Bureau annual reports, 1861-1942. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.
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.
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.
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.wpc.ncep.noaa.gov/dwm/dwm.shtml"

United States Fish Commission annual reports. Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.
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.
Online access: http://www.nodc.noaa.gov/General/wave.html

Weather and Climate Sites. Silver Spring, MD: National Oceanographic Data Center, NOAA Central Library.
Online access: http://www.lib.noaa.gov/researchtools/subjectguides/weathersites.html

Why the weather? Silver Spring, MD: National Oceanographic Data Center, Library and Information Services Division.
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.
Online access: http://www.lib.noaa.gov/researchtools/subjectguides/wind/windandsea.html
"This 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.
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 Atlas 2013. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory. doi:10.7289/V55X26VD (publication); doi:10.7289/V5F769GT (dataset)
Online access: http://www.nodc.noaa.gov/OC5/woa13/
"World Ocean Atlas 2013 (WOA13) 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 5°, 1°, and 0.25° grids. More info (215 KB)."

World Ocean Database 2013. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory. doi:10.7289/V5NZ85MT (publication)
Online access: http://www.nodc.noaa.gov/OC5/WOD13/
"World Ocean Database 2013 is an update of World Ocean Database 2009 (WOD09) with the full set of quality control used to create World Ocean Atlas 2009 (WOA09). More information "

World Ocean Database and World Ocean Atlas Series. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
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.
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 2013 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 WOD13 native, 'csv', and netCDF data formats."

XBT Bias Depth and Temperature Corrections. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: https://www.nodc.noaa.gov/OC5/XBT_BIAS/xbt_bias.html
"Gouretski and Koltermann (2007) shows statistics from Expendable Bathythermograph (XBT) vs. Conductivity-Temperature-Depth (CTD)/reversing thermometer instrument comparisons which reveal a warm bias in XBT temperatures. This bias varies over time and over depth. The bias may be due to both errors in the calculation of depth and in measurement of the temperature. An important deviation from the majority of existing correction schemes is that depth correction varies with depth."

XBT Quality Test Reference Table. Silver Spring, MD: National Oceanographic Data Center, Ocean Climate Laboratory.
Online access: http://www.nodc.noaa.gov/OC5/XBT_BIAS/xbt_bibliography.html

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 through December 2014. Some entries from early months of 2015 are also included. The citations listed below have been selected based on searching Web of Science database, Google Scholar, various Internet sites, and NOAA/NODC websites. All entries listed below have been accessed and viewed during month of May 2015.
The citations are organized in Author/Title sequence and formatted according to the *APA Citation Style Guide, 6th ed.*

Abraham, J. P., Baringer, M., Bindoff, N. L., Boyer, T., Cheng, L. J., Church, J. A., . . . Willis, J. K. (2013). **A review of global ocean temperature observations: implications for ocean heat content estimates and climate change**. *Reviews of Geophysics, 51*(3), 450-483. doi: 10.1002/rog.20022

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

Arndt, D. S., Blunden, J., Willett, K. M., Dolman, A. J., Hall, B. D., Thorne, P. W., . . . Phillips, D. (2012). **State of the Climate in 2011**: Special Supplement to the Bulletin of the American Meteorological Society Vol. 93, No. 7, July 2012: Introduction. *Bulletin of the American Meteorological Society, 93*(7), S1-S282. doi: 10.1175/2012BAMSStateoftheClimate.1

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

Balmaseda, M. A, F. Hernandez A. Storto, M. D. Palmer, O. Alves, L. Shi, G. C. Smith, T. Toyoda, M. Valdivieso, B. Barnier, D. Behringer, T. Boyer, Y-S. Chang, G. A. Chepurin N. Ferry G. Forget, Y. Fujii, S. Good, S. Guinehut, K. Haines, Y. Ishikawa, S. Keeley, A. Khl, T. Lee, M. Martin, S. Masina, S. Masuda, B. Meyssignac, K. Mogensen, L. Parent, K. A. Peterson4, Y. M. Tang, Y. Yin, G. Vernieres, X. Wang, J. Waters, R. Wedd , O. Wang, Y. Xue, M. Chevallier, J-F. Lemieux, F. Dupont, T. Kuragano, M. Kamachi, T. Awaji, A. Caltabiano, K. Wilmer-Becker, F. Gaillard. (2014). **The Ocean Reanalyses Intercomparison Project (ORA-IP)**. *Journal of Operational Oceanography*, under review.

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

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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. (2013). **A bibliometric analysis of articles supported by NOAA's Office of Ocean Exploration and Research**. *Scientometrics*, 95(2), 629-644. doi:10.1007/s11192-012-0836-0

Belter, C. W., & Seidel, D. J. (2013). **A bibliometric analysis of climate engineering research**. *Wiley Interdisciplinary Reviews-Climate Change, 4*(5), 417-427. doi: 10.1002/wcc.229

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., J. Antonov, J. Reagan, C. Schmid, and R. Locarnini. (2014). **[Subsurface salinity] Global Oceans [in "State of the Climate in 2013"]**. *Bulletin of American Meteorological Society*, 95, S62-S65. doi: 10.1175/2014BAMSStateoftheClimate.1

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. P., Garcia. H. E., Locarnini, R. A., Zweng, M. M., Mishonova, A. V., Reagan, J. R., . . . Paver, C. R. (2014). **2013 World Ocean Atlas Aids High-Resolution Climate** Studies. *Eos, Transactions American Geophysical Union*, 95(41), 369-370. doi:10.1002/2014EO410002.
Online Access: http://onlinelibrary.wiley.com/doi/10.1002/2014EO41/pdf

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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

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Online access: ftp://ftp.nodc.noaa.gov/pub/data.nodc/woa/DATA_ANALYSIS/PDF/saltrend.pdf

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Bruno, J. F., Selig, E. R., Casey, K. S., Page, C. A., Willis, B. L., Harvell, C. D., . . . Melendy, A. M. (2007). **Thermal stress and coral cover as drivers of coral disease outbreaks**. *Plos Biology*, 5(6), 1220-1227. doi: 10.1371/journal.pbio.0050124

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