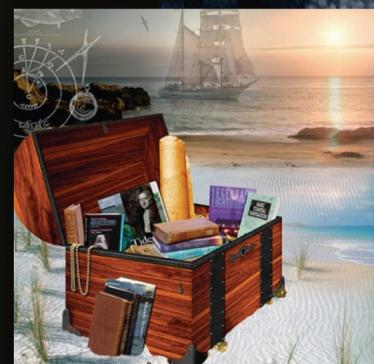
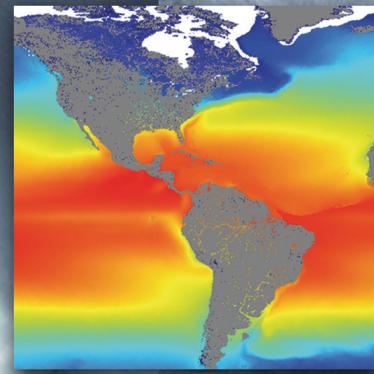


ANNUAL REPORT FISCAL YEAR 2008

NATIONAL OCEANOGRAPHIC DATA CENTER

An Ocean of Data and Information

www.nodc.noaa.gov



**National Oceanographic Data Center
Annual Report Fiscal Year 2008**

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Message from the Director

I am pleased to initiate the first of many annual reports that highlight the strategic direction and accomplishments of the National Oceanographic Data Center (NODC). This has been an active, productive, and exciting year that saw many changes to the center. I joined NODC at the end of calendar year 2007 with a firm desire to communicate NODC's critical mission to all our partners within NESDIS, NOAA, other federal agencies, academia, the international community, and the private sector. As NOAA tackles challenging problems with our coasts and oceans, our role of maintaining the largest collection of oceanographic data and information continues to become more important in our changing environment.

During Fiscal Year 2008, we initiated a series of activities to enhance communication with our customers regarding NODC's multitude of products and services, and to receive input on what ocean data and information are required by the community we serve. We also focused on development of tools and services that will facilitate the exchange of ocean data and information. This is a critical topic since the issues we are dealing with are global and regional, such as the response of marine ecosystems to climate change.

Understanding the oceans in a changing climate requires historical as well as real-time ocean data and information. NODC, in its role as the national stewards for ocean data and information, is working with the national and international community to provide the essential products needed to address climate change issues, provide the baseline and integrated data for Integrated Ecosystem Assessments, and enable end to end coastal support.

During Fiscal Year 2009, we will continue to communicate NODC's mission and vision, which reflect the core capabilities of the data center, and deal with the growing requirements for ocean data and information. This report provides a draft of the goals and objectives that define how NODC will face these increasing challenges.

We look forward to your input on how we can best present the service NODC provides NOAA, the Nation, and our international partners in "acquiring, processing, preserving, and disseminating coastal and ocean data and information." Our success relies on national and international partnerships. We judge our accomplishments by the usefulness of our data and information products to our current users, and by planning what services our customers will need in the future.

Margarita Conkright Gregg, Ph.D.
Director
November, 2008

1. NODC Strategic Goals and Objectives

NODC supports its ocean stewardship mission through the implementation of the following strategic goals and objectives

Goal 1: Provide access to the Nation's coastal and ocean data resources

- Provide coordinated data management for coastal data
- Establish partnerships with coastal communities to meet data requirements
- Provide a data discovery mechanism for coastal and ocean data
- Lead the development of a data integration framework to meet Integrated Ecosystem Assessment requirements.

Goal 2: Acquire and archive the Nation's coastal and ocean data

- Leverage international data management efforts by using standard protocols
- Leverage the data management efforts of federal agencies and educational institutes that fund ocean projects
- Automate the ingest of data received on a regular basis
- Engage with the data providers to ensure appropriate metadata are submitted

Goal 3: Build climate data records for key ocean variables

- Develop products based on user requirements
- Build scientifically, quality-controlled global oceanographic databases
- Develop improved ocean climatologies for annual, seasonal, and monthly compositing periods

Goal 4: Provide information technology services

- Maintain data and information in a secure, sustainable, permanent and readily accessible archive
- Provide a secure but accessible IT infrastructure for the archive and preservation of NODC data and information
- Provide access and knowledge resources to expand utility of NODC data and information holdings
- Maintain and support network connectivity, email, and Web servers

Goal 5: Ensure the delivery of information to users

- Meet the expanding needs for information services
- Build a NOAA-wide institutional repository of electronic publications
- Provide NOAA-wide desktop access to journals and databases

Goal 6: Enable the realization of NOAA Core Values

- Implement processes that challenge and expand the core competencies of all NODC personnel
- Leverage the capabilities of NODC employees across organizational structures within NODC, NESDIS, and NOAA
- Strive for excellence in Science, Service, and Stewardship
- Increase the efficiency of NODC's financial, acquisition, and administrative functions

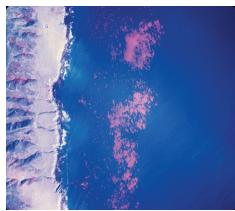
2. Accomplishments in Fiscal Year 2008

The Nobel Peace Prize for 2007 was awarded to the Intergovernmental Panel on Climate Change (IPCC) and Albert Gore. Sydney Levitus of NODC was a Lead Author of Chapter 5 (Observations: Oceanic Climate Change and Sea Level) of the most recent IPCC Assessment. Dr. Hernan Garcia, Mr. Tim Boyer and Dr. John Antonov were Contributing Authors to this chapter. Levitus, Garcia, and Boyer are federal employees at NESDIS/NODC and Antonov is a UCAR visiting scientist at NESDIS/NODC.

Goal 1: Provide Access to the Nation's Coastal and Ocean Data Resources



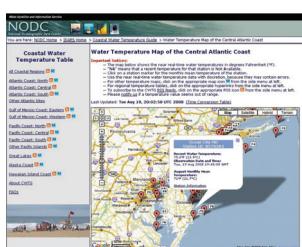
The Regional Ecosystem Data Management portal supports the Integrated Ecosystem Assessments (IEA) by integrating disparate (physical, biological, economic, etc.) data sets from current NOAA and Regional Association observing and information management systems, increasing access to observing system data. National decision makers will have free access to operational NOAA and partner products via the Internet (Ecosystem Goal).



NODC rescued California Current Regional Ecosystem data and made it available to the public via NODC's online Ocean Archive. Ecologists need historic ecosystem survey data to assess the current health of an ecosystem. They may use the images from these surveys to **assess the health of the California Current Regional Ecosystem** (Ecosystem Goal).



The National Oceanographic Data Center coordinated with NOS, NMFS, OAR, and other NESDIS personnel to design, develop, implement and deploy the Coral Reef regional portal site. The CoRIS Regional Portal enables a broad audience of users to **discover NOAA-funded coral ecosystems data and information products** based on the region relevant to those data and information products (Ecosystem Goal).



NODC developed and implemented a strategy to fulfill its response to tens of thousands of requests per day for the water temperatures off the U.S. coastal areas, including the Great Lakes, in a timely and user-friendly manner. The Coastal Water Temperature Guide has become the primary gateway for providing useful **information for planning beach activities** such as swimming or fishing (Weather and Water Goal).

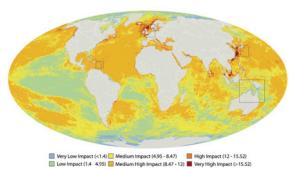
Goal 2: Acquire and Archive the Nation's Coastal and Ocean Data

NODC acquired and archived over 11,600 data sets from more than 70 oceanographic organizations and offices, including many in NOAA. Among the benefits, scientists will use these archival data long after their originally intended use has passed – e.g., to study the climate and to create baselines for ecosystem assessments (Ecosystem Goal and Climate Goal).

The GODAE High Resolution Sea Surface Temperature product increased the number of users by 20% in 2007. This translated to a greater than 300% increase in data distributed. Pathfinder data increased over 128%, leading to a 230% user increase.

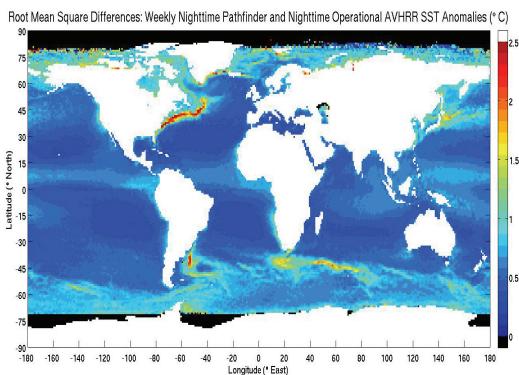
The initial data sets from the NCEP Real-Time Ocean Forecast System (RTOFS) Atlantic data were ingested into the NODC archives. These model outputs are now directly available online via the NODC Ocean Archive System (Mission Support – Environmental Modeling)

Goal 3: Build Climate Data Records for Key Ocean Variables



Pathfinder data was used in a new study, which shows the extent of harmful human influences on global marine ecosystems using Pathfinder data. The study was published in *Science* magazine, of which Kenneth Casey was a co-author. **NODC provides scientific stewardship for these data.** (Climate Goal)

NODC increased the amount of historical as well as modern profile data in the World Ocean Database. Data from approximately 200,000 Ocean Station Data casts and approximately 200,000 Conductivity-Temperature-Depth casts were processed for inclusion into World Ocean Database 2009 (including data from the Argo and Global Temperature and Salinity Profile Programs). These data were used to document that the world **ocean has warmed during the past fifty years**. The data are frequently used as internal and external boundary conditions in ocean general circulation models and in assimilation studies (Climate Goal).



NODC created an online Sea Surface Temperature (SST) intercomparison framework that provides standardized access to an international collection of satellite, *in situ*, and blended SST analysis products, community-consensus intercomparison diagnostics, and interactive online graphics that make all of the

intercomparison diagnostic data easily viewable and accessible. These efforts are leading to an enhanced **understanding of our changing climate**, specifically the critically important parameter of SST (Climate Goal).

Goal 4: Provide Information Technology Services

NODC Archive Doubles Between FY07 and FY08: The size of the NODC archive doubled from 31TB in FY07 to 60 TB in FY08. This increase is due to expanding the archive to include satellite and model data. In contrast, back in 1968, the size of the archive was 1GB.

NODC IT Security: Worked extensively with NESDIS Chief Information Officer (CIO) and with NOAA Computer Incident Response Team (NCIRT) on security & policy issues, risk assessments, data calls, and POA&M. Provided active support to the NESDIS Information Resources Management Team, CLASS, Ground Systems, and other projects.

NODC C&A, and COOP/BCP: Continuously worked on NODC's Certification and Accreditation to enhance and document its security posture. NODC completed 80% of its Points of Actions and Milestones (POA&Ms).

NODC Archive Management Systems (AMS): NODC implemented major modifications to the NODC Archive Management System that significantly improved system performance and enhanced the ability of users to discover archived originator data.

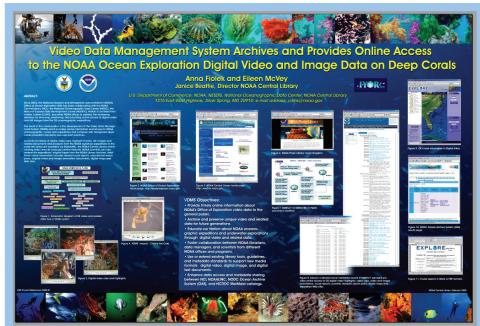
Goal 5: Ensure the Delivery of Information to Users



NODC and other NESDIS Employees publish the Earth System Monitor, a free quarterly bulletin that reports on NOAA environmental data and information programs, projects, and activities. This fiscal year focused on the NOAA mission goals "*Weather and Water*", "*Commerce and Transportation*" and the "*Satellite*" subgoal. These publications benefit the public by **reporting on NOAA environmental data and information** programs, projects, and activities with more than 4,000 subscribers (Cross-Goals).

The number of accesses into the online Photo Library and the online legacy databases surpassed all previous records. From October 2007 through September 2008, there were over 2,043,610 online visitors and 9,429,638 pages viewed from the online Photo Library. During that same period, there were 9,853,670 accesses to the Climate Data Modernization web sites and collections. The unique historical foreign climate data from 54 countries, the U.S. Daily Weather Maps from 1870 through the present, and the full text of the *Monthly Weather Review* from 1871, for example, are used by

professors of climatology, students of meteorology, researchers, and the public (Weather and Water Goal).



Library staff, in anticipation of interest in polar information from the IPY initiatives, created resources such as the online bibliography *International Polar Year 2007-2008: Resources on Polar Research in the NOAA Central Library Network*. This accomplishment harvested and made available to the public and to the research community **documents from the NOAA Central Library legacy collections**.



NODC updated its entire web presence including the library website to allow **easier access to NODC's data and information**. By following the OneNOAA concept, the websites include a NOAA-wide search solution that is available from every webpage. NODC's site also contains an enhanced customer survey form and enhanced usability.

Ms. Mary Glackin, DUS, visited NOAA Activities at the Stennis Space Center on January 22, 2008.



NESDIS developed the end-to-end data management process necessary to discover (metadata development), and access ocean survey data through the Digital Atlas, visualize the data, and provide the architecture for transport and archive to the appropriate NOAA national data center.

Dr. Margarita Gregg, Julie Bosch and Bob Gelfeld attended the First Session of the IODE/JCOMM Forum on Oceanographic Data Management and Exchange Standards in Oostende, Belgium on January 21-25, 2008.

Goal 6: Enable the Realization of NOAA Core Values

NODC had 100% completion of the Safety Awareness Course, and had **no safety violations and no injuries** for Fiscal Year 08.

NODC **celebrated its diverse culture** by hosting a potluck luncheon celebrating Asian culture.

NESDIS EEO/Diversity Council Northern Gulf Institute Internship Grant Completed. This program **provides career exploration opportunities** in geospatial metadata

management and metadata creation for coastal ecosystem data to undergraduate and graduate students from diverse communities.



NODC Provides Race for the Cure Web Pages for NOAA Team (8th year in a row) -- NODC hosted the NOAA Race for the Cure web pages again for 2008. This site helps organize the NOAA Race Team (named Running with the Currents) in registering, setting meeting times, and raising awareness for this important event. NODC works with NOAA Team Captains Mary Glackin and Christine Alex on this project on a yearly basis.

3. Path Toward Achieving Our Vision

Key Focus Areas for Fiscal Year 2009

Goal 1: Provide access to the Nation's coastal and ocean data resources

- Foster tools that incorporate our technology advances such as the use of ontologies in the discovery of data
- Continue to foster partnerships with the regional NGOs, state, federal, local, and private coastal and ocean communities
- Expand the capabilities of the Metadata Enterprise Resource Management Aid (MERMAid)
- Implement the Regional Ecosystem Data Management (REDM) framework

Measure of Success:

- Number of tools developed
- Number of partnerships initiated in Fiscal Year 2009

Goal 2: Acquire and archive the Nation's coastal and ocean data and information

- Improve methods for interactions between data producers and the data center at the interagency, institutional, and international levels
- Enhance the NODC archives with additional ocean data and information
- Understand and document user requirements for ocean data and information through interactions with the scientific and operational communities
- Ensure support for NOAA programs such as IOOS

Measure of Success:

- Decrease the time between data receipt and data availability
- Number of datasets added to the NODC archives
- Number of agreements between NODC and the user community

Goal 3: Build climate data records for key ocean variables

- Publish the World Ocean Database (WOD) 2009
- Describe changes in the ocean heat content
- Establish initial in-house AVHRR Pathfinder reprocessing system

- Identify gaps in key products required by the ocean community related to climate and integrated ecosystem assessments

Measure of Success:

- Number of datasets added since last official release of WOD
- Number of new variables since last release of WOD
- Years of AVHRR data re-processed

Goal 4: Provide information technology services

- Develop tools that increase access to NODC's data and information, such as OPeNDAP, THREDDS Data Server, Live Access Server, and ArmorDAP (these must be implemented in a secure manner).
- Develop procedures that formalize and document changes to NODC's configuration management

Measure of Success:

- Number of tools or data services implemented to improve access to archived historical data
- Sustained Certification and Accreditation for NODC's IT security posture

Goal 5: Ensure the delivery of information to users

- Engage the ocean data and information user community in the development of an NODC strategic plan
- Work within NESDIS and across NOAA to increase the efficiency of the NOAA information services
- Initiate an Institutional Repository pilot project

Measure of Success:

- Increases utilization of library materials (online searches and downloaded articles)
- Increase of the use of the photo library and other online library resources
- Define a concept of operations for the NOAA Central Library and branches

Goal 6: Enable the realization of NOAA Core Values

- Develop and prioritize NODC's strategic directions
- Engage on key issues with internal and external groups through the NODC Working Group
- Enhance divisional cooperation in areas such as Metadata, Geospatial Information Services (GIS), and IOOS/DMAC
- Increase the efficiency of NODC's financial, acquisition, and administrative functions

Measure of Success:

- Establish performance objectives for each NODC goal
- Expand the NCDDC Northern Gulf of Mexico Minority Summer Internship
- Engage with the national and international community on requirements for ocean data and information

Appendix 1. Celebrating NODC's Employees

NODC Employee of the Season

Winter, 2008 – Thomas Ryan

Spring, 2008 – Tess Brandon

Summer, 2008 - Andrew Allegra

NODC FY08 Certificates of Appreciation

Albert E. Therberg (Skip)

For His Contributions to the 200th NOAA Anniversary

Andrew Allegra

For His Initiative, Energy, and Leadership of the NODC Communications Team

Andrew Allegra, Joseph Shirley, Jefferson Ogata, John Relph, and Hajure Fontaine

For Your Dedicated and Extensive Effort on the New NOAA Central Library Website

Angela Sallis

For Outreach Efforts and Dedication in Making NEWIS Available to Key Gulf Coastal Communities

Barbara Ambrose

For Her BEAUTIFUL Artwork that Clearly Communicates the NCDDC Goals

Brenda Robinson

For Her Contributions As Recording Secretary To Blacks in Government

Chad Webb

For Timely Completion of the NCDDC System-Wide Upgrade

Cheryl Ingram

For Your Contributions as Chair of the NODC Safety Committee and Inter-Divisional Support with C-Request Submissions

Charles Sun

For Implementing an Automated Procedure for Displaying the Argo Data

Diane Abney, Tess Brandon, Mary Lou Cumberpatch, Sarah Davis, Hernan Garcia, Robert Gelfeld, Mary Hollinger, Brenda Robinson, Beth Kirton-Crane, Gulnar Nagashybayeva, Shannon Niou, Steve Quillen, Li Zhang and Cynthia Zeigler

For Their Contribution to the 2008 NOAA "Take Your Daughters and Sons to Work Day"

**Donald Collins, Ken Casey, Robert Gelfeld, Hernan Garcia, Scott Cross, Steve Rutz,
Peter Grimm, Eric Ogata**
NODC's New Data Champions

Francis Mitchell
Taught the Next Generation of NODC Employees How to Be Data Custodians

Freud Park
For Your Active Participation and Engagement in the NESDIS EEO/Diversity Council

Helen Gibson
For Her Daily Support Across All NODC Divisions

Julie Bosch, Rost Parsons and Kenneth Casey
For Helping NODC Integrate with IOOS

Kathy Martinolich
For the Invaluable Work Spearheading the EEO Diversity Internship Program at NCDDC

**Mary Hollinger, Linda Pikula, Angela Sallis, Kenneth Casey, Andrew Allegra and
Donald Collins**
For their Outreach and Support Services at the Ocean Sciences Meeting 2008

Mary O'Chery
For Her Extraordinary Work Dealing with a Diversity of Contracts and Contracting Issues

National Coastal Data Development Center
For TEAMWORK

National Coastal Data Development Center
For the Design and Distribution of the NOAA Extreme Weather Information Sheets
(NEWIS)

**Neal Kaske, Mary Cumberpatch, Caroline Woods, Kathy Kelly, Anna Fiolek, Gulnar
Nagashbayeva, Diane Abney, Sheri Phillips, Phyllis Chui, Li Zhang, and Elizabeth
Kirton-Crane**
For Your Dedicated and Extensive Effort on the New NOAA Central Library Website

**Parmesh Dwivedi, William Burton, Michael Chepurin, Jefferson Ogata, Cynthia
Zeigler, and Joseph Shirley**
For Your Outstanding IT Support for the Committee on Earth Observation Satellites
(CEOS) – Group on Earth Observations (GEO) Workshop

Ricardo Locarnini
Gatekeeper of the World Ocean Database

Russ Beard
For leading NCDDC in the Development, Implementation, and Budgeting of REDM

Russ Beard, Janice Beattie, Parmesh Dwivedi, Helen Gibson, Sydney Levitus, Mary O'Chery, Linda Pikula, Steve Quillen, Brian Voss, Wayne Wilmot, Cynthia Ziegler
For Outstanding Efforts in Reconciling Personal Property

Scott Mowery

For leading the FY09-FY11 PPBES Process

Shannon Niou, Cynthia Ziegler, Cheryl Ingram, Margaret Eggleston, Daphne Johnson, Christopher Paver, Mike Chepurin, Hernan Garcia, Eric Ogata, and Vicky Lin

For Their Contributions to the NODC Cultural Diversity Potluck - March 2008

Sharon Mesick, Susan Gottfried, Scott Hill, Dafina Abernathy, Stacy Ladner, David Sallis, and Denise Gordon

For the Development and Implementation of the Cruise Information Management System on the *Okeanos Explorer*

Sherry Goynes, Amanda Waltman, Rachel Kard, Steven Blesse, Chad Webb, Matt Hode, Lenny Collazo, Susan Starke, and Monty Peffley

For Dedication to the Computer Systems that are the Lifeline of the Center

Sheri Phillips

For Her Contribution to the NODC Spirit of Outreach and Communications

Sheri Phillips, Hajure Fortaine, William Burton, Cynthia Ziegler, Eileen McVey, Daphne Johnson and Barbara Ambrose

For Designing and Contributing to the National Oceanographic Data Center Posters

Steve Quillen for 30 Years of Service

Susan Gottfried, Scott Hill, Stacy Ladnier, Barbara Ambrose and Kathy Martinolich
For Teamwork with the National Oceanographic Data Center in Receiving the Department of Commerce Bronze Award for Support of the Ocean Exploration (OE) Program

Sydney Levitus, Tim Boyer, Hernan Garcia, John Antonov

For Key Contributions to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change

Tim Boyer and Olga Baranova

For Your Efforts in Providing More Timely Oceanographic Data to the Public via the World Ocean Database (WOD) Select Quarterly Updates

Appendix 2. NODC Publications in FY 2008

Published

Bindoff, N.L., J. Willebrand, V. Artale, A. Cazenave, J. Gregory, S. Gulev, K. Hanawa, C. Le Quéré, S. Levitus, Y. Nojiri, C.K. Shum, L. D. Talley, and U. Unnikrishnan, 2007: Observations: Oceanic Climate Change and Sea Level. In: Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Maquis, K. B. Averyt, M. Tignor and H. L. Miller (eds.)]. Cambridge University Press, United Kingdom and New York, NY, USA.

Chu, Peter C., Charles Sun, and Chenwu Fan, 2008: "Variability in the Atlantic Meridional Overturning Circulation and Heat Transport Detected Remotely From Argo Floats", Proceedings, 2008 IEEE Geoscience and Remote Sensing Symposium, July 6-11, 2008, Boston, MA.

Halpern, B.S., S. Walbridge, K.A. Selkoe, C.V. Kappel, F. Micheli, C. D'Agrosa, J.F. Bruno, K.S. Casey, et al. (2008). A global map of human impact on marine ecosystems, *Science*, v. 319, pp. 948-952 [DOI: 10.1126/science.1149345].

Kara, A. B., C. N. Barron, A. J. Wallcraft, T. Oguz, and K. S. Casey (2008). Advantages of fine resolution SSTs for small ocean basins: Evaluation in the Black Sea, *J. Geophys. Res.*, 113, C08013 [DOI: 10.1029/2007JC004569].

Karageorgis, A.P., W.D. Gardner, D. Georgopoulos, A.V. Mishonov, E. Krasakopoulou and C. Anagnostou, 2008: Particle dynamics in the Eastern Mediterranean Sea: A synthesis based on light transmission, PMC, and POC archives (1991-2001), *Deep Sea Research I*, 55(2):177-202. doi:10.1016/j.dsr.2007.11.002.

Lee, ZhongPing, Brandon Casey, Robert Arnone, Alan Weidemann, Rost Parsons, Marcos J. Montes, Bo-Cai Gao, Wesley Goode, Curtiss O. Davis, and Julie Dye, Water and bottom properties of a coastal environment derived from Hyperion data measured from the EO-1 spacecraft platform, *Journal of Applied Remote Sensing*, Vol 1, 011502 (December 26, 2007)

Accepted for Publication

Kara, B, R. Helber, C. Barron, T. Boyer, 2008, Mixed layer depth in the Aegean, Marmara, Black, and Azov Seas: Part I: General Features, *Journal of Marine Science*, accepted.

Helber, R., B. Kara, C. Barron, T. Boyer, 2008, Mixed layer depth in the Aegean, Marmara, Black, and Azov Seas: Part II: Relation to the sonic layer depth, *Journal of Marine Systems*, accepted.

Appendix 3. NODC FY2008 Budget

NESDIS BUDGET LINES		
PROGRAM TITLE:		%
FULL TIME PERMANENT LEAVE SURCHARGE OTHER PERS COMPENSATION	5,412,928 1,985,661 124,900	
SUBTOTAL, LABOR:	7,523,489	48.1
PERSONNEL BENEFITS		
SUBTOTAL, BENEFITS	1,869,676	11.9
DOMESTIC TRAVEL FOREIGN TRAVEL TRANS OF THINGS UTILITIES/TELECOM RENT, COMM & UTILITIES PRINT & REPRODUCTION CONTRACTUAL SERVICES SUPPLIES & MATERIAL EQUIPMENT	138,917 24,700 4,203 9,840 798,432 24,433 3,595,828 104,031 81,965	
SUBTOTAL, NON-LABOR/BENEFITS:	4,782,349	30.6
SUBTOTAL, INDIRECT COSTS:	1,038,241	6.6
NVDS FUNDING	438,455	2.8
TOTAL OPERATING PLAN	15,652,210	100.0

Appendix 4 – FY08 Annual Operating Plan

NOAA Mission Goal	NODC Mission Goal	Milestones	NOAA FY08 Priority
Ecosystem	Provide access	Extend MERMAID Capabilities to include additional organizational affiliations, vocabularies and profiles; discovery and access to EGT/EOP activities	Integrated Ecosystem Assessments
		Expand Regional Ecosystem Data Management (REDM) activities for the California Current, GOM, include Alaska Ecosystem Complex as resource allows.	
		Gulf of Mexico Alliance (GOMA)	
		Data Management support to EGT programs in addition to EOP and NOAA Strategic Goals	
	Acquire and archive data	Global Argo Data Repository	Integrated Earth Observations
		Global Temperature-Salinity Profile Program	
		GODAE High Resolution SST (GHRSST)	
		Publish archival underway ship data from NOAA Marine and Aviation Operations (NMAO) Scientific Computer System (SCS)	
		Archive NCEP RTOFS, WAVE, ROFS/COFS	
		Ocean Heat Content variability	
Climate	Analyses of data	Develop World Ocean Database 2009 (WOD09)	Climate Observations and Analysis
		Pathfinder V5 Sea Surface Temperature	
Mission Support	Information Technology Services Delivery of Information	Maintain NCDDC Certification and Accreditation (C&A)	Integrated Earth Observations
		NODC CLASS project - Full Operational Capability (FOC)	
		OPeNDAP, THREDDS, NOMADS, Operational Deployment	
		Coral Reef Information System (CoRIS) Enhancement	
		Coral Reef Conservation Program	
		Publish archival images from three California Coastal Marine Ecosystem Surveys	
		One additional NOAA-wide E-resource	
		Institutional Repository software selected and beta tested--subject to IT approval	
		Develop and create Climate Change Portal in conjunction with NOS	President's Management Agenda

Appendix 5 - Orders by Customer Class FY2008

With Free & Data Exchanges

Begin Date: 2007/10/01

End Date: 2008/09/30

Data Center: NODC

Customer Class	Number
Business	11
Consulting Meteorologist	1
Department of Defense	2
Depository Library	2
Engineer	3
Individual	4
NOAA non-NWS	18
Non-Profit Organization	2
Non-US: Government	52
Non-US: Other	18
Non-US: Research	25
Non-US: University	67
Other Federal Government	10
Research US	8
US Media	2
University	45
Subtotal for Type: Order	270
Grand Total	270

Summary of Information Requests by Request Origin FY2008

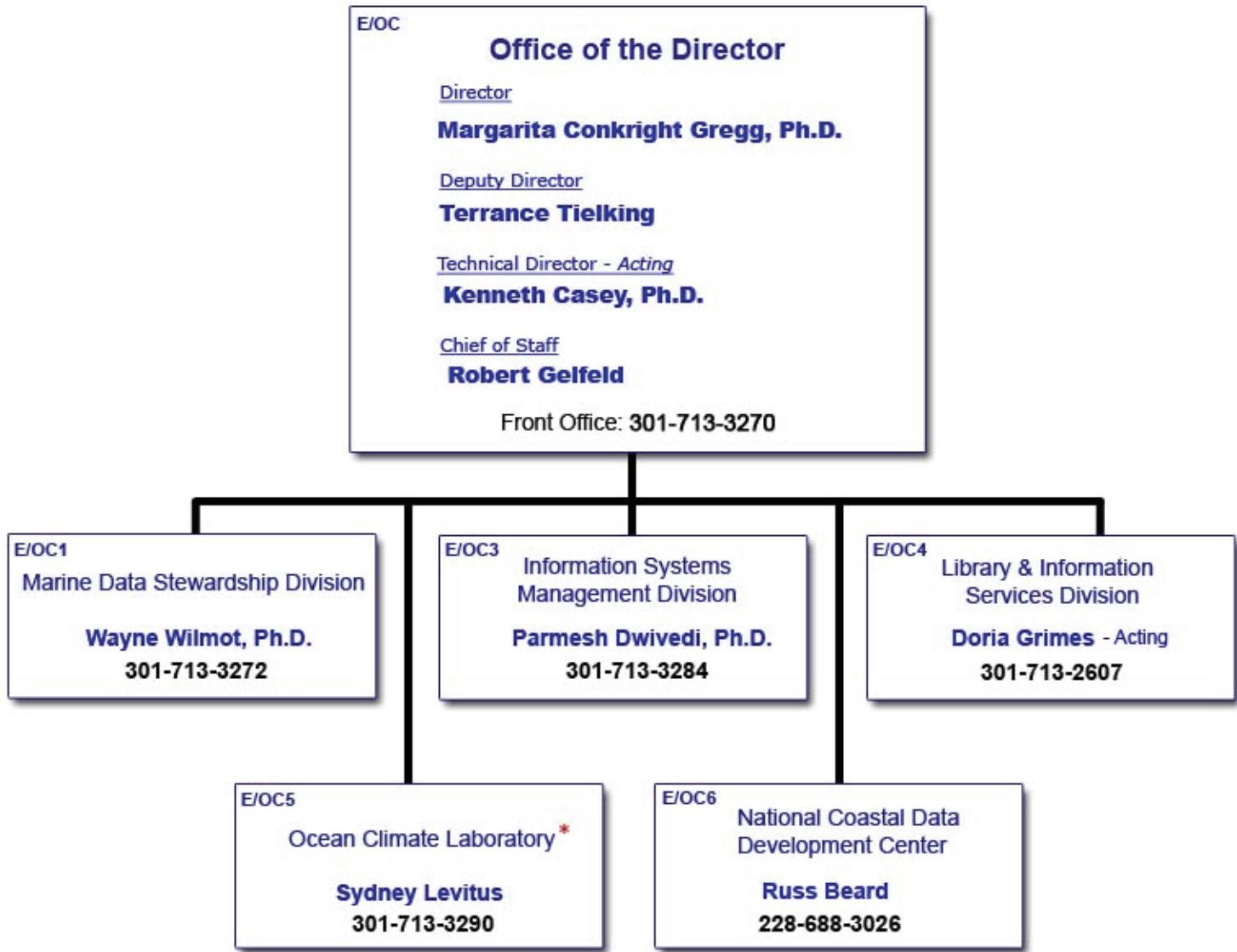
Begin Date: 2007/10/01

End Date: 2008/09/30

Data Center: NODC

Request Origin	Number
EMAIL	557
FAX	1
LETTER	5
PHONE	89
TOTAL	652

Appendix 6 – NODC Organization Table



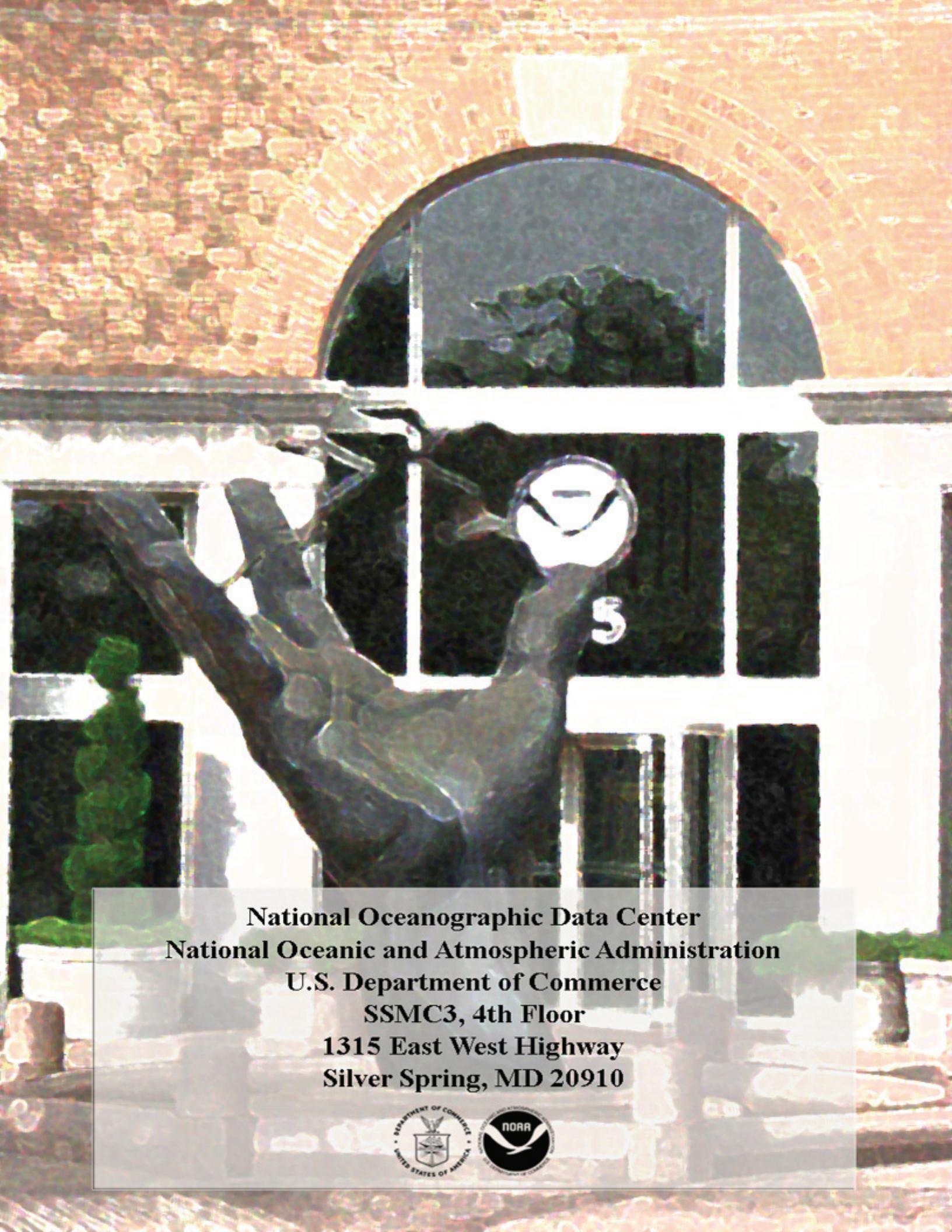
* Operates the World Data Center for Oceanography, Silver Spring

Appendix 7 – NODC Workforce

Division	# Federal Employees	# Contractors
Front Office	10	0
Marine Data Stewardship	15	6
Information Systems and Management	8	3
Library Information Services	13	14
Ocean Climate Laboratory	7	6
National Coastal Data Development Center	14	29
TOTAL	64	61



The Faces of NODC



**National Oceanographic Data Center
National Oceanic and Atmospheric Administration
U.S. Department of Commerce
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