

NODC Electronic Data Documentation Form

NOAA FORM 24-13
(Revised 9/2001)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL OCEANOGRAPHIC DATA CENTER
SSMC-3 FOURTH FLOOR, 1315 EAST WEST HWY
SILVER SPRING MD 20910-3282

FORM APPROVAL PENDING

This form should accompany all data submissions to the National Oceanographic Data Center. Section 1, Contributor Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent descriptive information about the submitted data at that time. Please include any relevant reports, publications, or other supporting documentation that assist in describing data collection, analysis, and format specifics.

SECTION 1. CONTRIBUTOR IDENTIFICATION

(PLEASE COMPLETE INFORMATION ABOUT WHO IS SENDING THE DATA TO NODC.)

<p>1. Name of contributor Paul Blankinship</p>	<p>5. Telephone (919) 832-7242</p>
<p>2. Organization/Institution name SAIC</p>	<p>6. Email Paul.R.Blankinship@saic.com</p>
<p>3. Mailing address SAIC 615 Oberlin Road, Suite 100 Raleigh, NC 27605</p>	<p>7. FAX (919) 832-7243</p>
<p>4. City Raleigh State/Province NC Zip/Postal Code 27605 Country USA</p>	<p>8. Other contact methods/information</p>

SECTION 2. DATA COLLECTOR IDENTIFICATION

(PLEASE COMPLETE INFORMATION ABOUT WHO COLLECTED THESE DATA.)

<p>1. Name of data collector Jim Singer, Paul Blankinship, Van Waddell, Peter Hamilton, Bob Leben, Randy Watts, Cathy Donohue</p>	<p>5. Telephone (919) 832-7242</p>
<p>2. Organization/Institution name SAIC</p>	<p>6. Email Paul.R.Blankinship@saic.com</p>
<p>3. Mailing address SAIC 615 Oberlin Road, Suite 100 Raleigh, NC 27605</p>	<p>7. FAX (919) 832-7243</p>
<p>4. City Raleigh State/Province NC Zip/Postal Code 27605 Country USA</p>	<p>8. Other contact methods/information</p>

SECTION 3. GENERAL DATASET DESCRIPTION
(PLEASE COMPLETE GENERAL INFORMATION ABOUT THESE DATA.)

1. Dataset Title (if applicable) (may be sent in an included ASCII text file named "abcTITLE.TXT" where abc are your initials) Survey of Deepwater Currents in the Northwestern Gulf of Mexico	
2. Dataset Abstract (please provide a brief description of the contents of the dataset) (may be sent in an included ASCII text file named "abcABSTRACT.TXT" where abc are your initials) The Minerals Management Service (MMS) awarded a contract to Science Applications International Corporation (SAIC) to conduct a study titled: Survey of Deepwater Currents in the Northwestern Gulf of Mexico (often referred to as the NW Gulf Study). The timing and general area of investigation extends the focus of a series of preliminary studies that as a group will provide a basis for effective design and implementation of comprehensive ocean investigations having a goal of in-depth understanding and characterization of Gulf of Mexico (GOM) circulation and dynamics. As identified in the Request for Proposal (RFP), a possible design for the study involved 13 full-depth moorings instrumented with various and appropriate sensors to resolve and estimate key parameters and conditions within the study area. Additionally, a combination of remotely sensed (satellite) data types (e.g., altimetry, radiometry, and color) were to be acquired and used to aid in the interpretation of mesoscale	
3. Dataset Purpose (please provide a brief statement about the purpose for collecting these data) (may be sent in an included ASCII text file named "abcPURPOSE.TXT" where abc are your initials) OBJECTIVES: (1) To collect current data to increase our deepwater database and knowledge of the deep circulation in the northwestern GOM; (2) To gather information to estimate oceanographic parameters needed to make experimental designs of full-scale physical oceanography studies in deepwater; and (3) To provide information to use in oil spill analyses including the emerging deep spill analysis, other ongoing studies, to help evaluate exploration plans, and contribute to the preparation of NEPA documents	
4. Dataset collection dates March 20, 2004 First day of data collection July 3, 2005 Last day of data collection	
5. Dataset location Northernmost Latitude 27 Degrees 24.7' N Southernmost Latitude 26 Degrees 02.02' N Easternmost Longitude 93 Degrees 46.15' W Westernmost Longitude 96 Degrees 16.96' W Gulf of Mexico	6. Platform(s) used to collect these data Platform name(s) and type(s) Subsurface moorings, bottom mounted PIES, CTD, Remote Sensing (Altimetry, Ocean Color, SST)
7. Instruments used to collect these data Instrument(s) Profiling ADCP, Aanderaa current meters RCM-7/8/11, Star-Oddi temperature, Hugin Temperature, MicroCats, SeaCats, InterOcean S4's, PIES, SeaBird CTD 911+	8. Parameters measured Parameters Currents, temperature, salinity, pressure, PIES bottom pressure and travel times,
9. Project name(s) Survey of Deepwater Currents in the Northwestern Gulf of Mexico	10. Original cruise name(s) PE04-33, PE05-11, LH-873, PE05-45, LH-886
11. Volume of data transferred (in bytes) 433 MB	12. Filenames in data submission

SECTION 4. SCIENTIFIC CONTENT OF DATASET
(PLEASE COMPLETE SPECIFIC INFORMATION ABOUT THESE DATA.)

Include enough information concerning the manner of observation, instrumentation, analysis, and data reduction techniques to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained "as is" as a permanent part of the data and will be available for future users. Equivalent information already available may be substituted for this section of this form (i.e., publications, reports, and README files containing descriptions of observational and analytical methods).

NAME OF MEASURED PARAMETER:	UNIT OF MEASURE USED FOR PARAMETER:	OBSERVATION METHOD AND INSTRUMENT USED (TYPE & MODEL)	ANALYTICAL METHOD AND LABORATORY PROCEDURES USED (INCLUDING MODIFICATIONS)	DATA PROCESSING TECHNIQUES (WITH FILTERING AND AVERAGING)
Currents	cm/sec	Profiling LongRanger and Workhorse ADCPs; RCM 7/8/11's; S4		All times GMT, remove data prior to deployment and following recovery; interpolate across single outliers; correct for magnetic declination (adjust to True N); present data as raw, 3-HLP and 40-HLP
Temperature	Deg C	ADCP, RCM 7/8/11's, S4, Hugin, Star-Oddi, MicroCat, SeaCat		All times GMT, remove data prior to deployment and following recovery; interpolate across single outliers; present data as raw, 3-HLP and 40-HLP
Salinity	PSU	MicroCat, SeaCat		All times GMT, remove data prior to deployment and following recovery; interpolate across single outliers; present data as raw, 3-HLP and 40-HLP
Pressure	dbar	LongRanger, MicroCat, RCM 7/8		All times GMT, remove data prior to deployment and following recovery; interpolate across single outliers; present data as raw, 3-HLP and 40-HLP
CTD	PSU, Deg C, dbar	SeaBird 911 plus		Downcast only

SECTION 5. DATA FORMAT OF DATASET**(PLEASE COMPLETE SPECIFIC INFORMATION ABOUT THE FORMAT OF THESE DATA.)**

Include enough information concerning the format of these data to make them understandable to future users. Furnish at least the minimum documentation considered relevant for your data. Documentation will be retained 'as is' as a permanent part of the data and will be available for future users. Equivalent information already available may be substituted for this section of this form (i.e., publications, reports, and README files containing descriptions of the data format). At a minimum, please include the following information:

1. Media type on which data were submitted (e.g., FTP, exabyte tape, etc.)

CD

2. Name of included file that contains specific record layout, if applicable, including:

FIELD NAME, POSITION FROM 0 MEASURED IN (BITS, BYTES, ETC.), LENGTH (NUMBER, UNITS), ATTRIBUTES, USE AND MEANING

The "README" file in the "DOCS" directory provides the filename scheme.

3. Brief description of file organization

Directory Structure:

Data-SAIC

-Cicese

-NDBC Met Data

-PIES

-Shell

Docs

4. Record type(s)

netcdf format

5. Data format information contact person

Name Paul Blankinship

Email Paul.R.Blankinship@saic.com

Telephone 919 832-7242

Address SAIC

615 Oberlin Road, Suite 100

Raleigh, NC 27605

SECTION 6. INSTRUMENT CALIBRATION**(PLEASE COMPLETE SPECIFIC CALIBRATION INFORMATION ABOUT INSTRUMENTS USED TO COLLECT THESE DATA.)**

Include enough information about instrument calibration to make it understandable to future users. Furnish the minimum documentation considered relevant for each instrument. Documentation will be retained 'as is' as a permanent part of the data and will be available for future users. Equivalent information already available may be substituted for this section of this form (i.e., publications, reports, and README files containing descriptions of observational and analytical methods).

1. Name of included file that contains specific calibration details, if applicable, including:

INSTRUMENT TYPE (MFR., MODEL#), DATE OF LAST CALIBRATION, LAST CALIBRATED BY (NAME, ORGANIZATION), INSTRUMENT CALIBRATED AT (FIXED INTERVALS/BEFORE USE/AFTER USE/BEFORE AND AFTER USE/ONLY AFTER REPAIR/ONLY WHEN NEW/OTHER (SPECIFY)/INSTRUMENT NOT CALIBRATED.

All instruments were calibrated by their manufacturer to their standards just prior to their deployment in this program.