

H11189

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey **Special Hydrographic**

Registry No. **H11189**

LOCALITY

State/Territory Louisiana

General Locality New Iberia

Sub-locality New Iberia Drainage Canal

2002

CHIEF OF PARTY
David B. Elliott -Team Leader

LIBRARY & ARCHIVES

DATE

NOAA FORM 77-28 U.S. DEPARTMENT OF COMMERCE (11-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION <p style="text-align: center;">HYDROGRAPHIC TITLE SHEET</p>	REGISTRY NUMBER: <p style="text-align: center;">H11189</p>																																										
INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	FIELD NUMBER: "A"																																										
<table> <tr> <td>State/Territory:</td> <td colspan="2">Louisiana</td> </tr> <tr> <td>General Locality:</td> <td colspan="2">New Iberia</td> </tr> <tr> <td>Sub-Locality:</td> <td colspan="2">New Iberia Drainage Canal</td> </tr> <tr> <td>Scale:</td> <td>1:10,000</td> <td>Date of Survey: 27 Oct, 2002</td> </tr> <tr> <td>Instructions Dated:</td> <td>23 Oct 02</td> <td>Project Number: OPR-S-K908-NRB-02</td> </tr> <tr> <td>Vessel:</td> <td colspan="2">NOAA Launch 1210</td> </tr> <tr> <td>Chief of Party:</td> <td colspan="2">David B. Elliott - Team Leader</td> </tr> <tr> <td>Surveyed by:</td> <td colspan="2">David Elliott, Mark McMann & Robert Ramsey (NRT2)</td> </tr> <tr> <td>Soundings by:</td> <td colspan="2">Innerspace 448</td> </tr> <tr> <td>Graphic record scaled by:</td> <td colspan="2">DE, MM, RR</td> </tr> <tr> <td>Graphic record checked by:</td> <td colspan="2">DE, MM, RR</td> </tr> <tr> <td>Protracted by:</td> <td>N/A</td> <td>Automated Plot: HP-2500CP (office)</td> </tr> <tr> <td>Verification by:</td> <td colspan="2">Atlantic Hydrographic Branch Personnel</td> </tr> <tr> <td>Soundings in:</td> <td colspan="2">FEET at MLLW</td> </tr> </table>		State/Territory:	Louisiana		General Locality:	New Iberia		Sub-Locality:	New Iberia Drainage Canal		Scale:	1:10,000	Date of Survey: 27 Oct, 2002	Instructions Dated:	23 Oct 02	Project Number: OPR-S-K908-NRB-02	Vessel:	NOAA Launch 1210		Chief of Party:	David B. Elliott - Team Leader		Surveyed by:	David Elliott, Mark McMann & Robert Ramsey (NRT2)		Soundings by:	Innerspace 448		Graphic record scaled by:	DE, MM, RR		Graphic record checked by:	DE, MM, RR		Protracted by:	N/A	Automated Plot: HP-2500CP (office)	Verification by:	Atlantic Hydrographic Branch Personnel		Soundings in:	FEET at MLLW	
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Remarks: * Hand written notes in Descriptive Report were made during office processing. <i>1) All Times are UTC.</i> <i>2) This is a Special Hydrographic Survey.</i> <i>3) Projection is UTM Zone 15.</i>																																											

FIELD EXAMINATION REPORT
to Accompany
Hydrographic Survey H11189
OPR-S-K908-NRB-02
1:10,000 - 2002
NAVIGATION SERVICES DIVISION
Navigation Response Team 2 – Launch 1210
Capt. John Wilder, Chief - NOAA

This examination was conducted according to Port Instructions OPR-S-K908-NRB-02, New Iberia South Drainage Canal, Louisiana dated October 23, 2002 ✓

The purpose of this project is to obtain hydrography in the New Iberia South Drainage Canal, Louisiana, as An Emergency Response to Hurricane Lilly (2002) and in support of a new 1:40,000 scale inset to National Ocean Service nautical chart 11350. The new chart coverage responds to a request by the Port of New Iberia for an inset of the port and access via the New Iberia Drainage Canal. ✓

A. AREA SURVEYED

There was no sheet letter designated for this project.

The approximate survey area limits are:

	29°56'58.7"N ✓ CONCUR
	091°51'26.4"W ✓ CONCUR
	29°50'13.9"N ✓ CONCUR
	091°49'05.6"W ✓ CONCUR

This survey was conducted on: October 27, 2002 (DN: 300) ✓

B. DATA ACQUISITION AND PROCESSING

B1. Equipment

An Innerspace model 448 depth sounder, S/Ns 188 was used to collect all echo soundings on this survey. A standard lead line calibrated in meters, S/N 1210, was used during this survey for comparison with the echo sounder. No problems were encountered with any of the sounding equipment. ✓

The instrument used for determining corrections for the speed of sound through the water column was a Seabird-Seacat Velocity Profiler, model 19-03, S/N 198671-1477. ✓

NOAA launch 1210, a 27-foot SeaArk with a draft of 0.5 meters, was used to collect all survey data. There were no unusual vessel configurations or problems encountered with the vessel. ✓

B2. Quality Control

The integrity of the survey data for H11189 has been insured by following the Field Procedures Manual and the NOS Hydrographic Surveys Specifications and Deliverables Manual, June 2000. Due to the nature of this survey as Chart Evaluation, percentages of crosslines were not calculated or specific to mainscheme hydrography. ✓

The lead line for launch 1210 was calibrated using a steel tape on Nov. 27, 2001. No corrections were necessary. A static draft of 0.5 meters was applied to the sounding plots by the HPS REAPPLY program. The draft was measured by subtracting the difference from a punch mark on the side of launch 1210, 0.6 meter above the transducer, to the water surface. ✓

Settlement and squat measurements for launch 1210 were taken on Nov. 27, 2001. These measurements were conducted in Jacksonville, FL using the level method. ✓

Differential GPS (DGPS) was used for all hydrographic data acquired on this survey. DGPS performance checks were conducted in accordance with FPM 3.4.4 by comparing the DGPS position of the vessel to a high accuracy calibration point. ✓

B3. Corrections to Echo Soundings

There are no deviations to be discussed in this section. * Refer to Section "C" Correction to Echo Soundings of the Data Acquisition and Processing Report. ✓

C. VERTICAL AND HORIZONTAL CONTROL

The instrument used for determining corrections for the speed of sound through the water column was a Seabird-Seacat Velocity Profiler. The manufacturer calibrated this unit on Nov. 30, 2001. Data quality assurance tests were performed after each cast. Program VELOCITY was used for computing the correctors. ✓

The horizontal control datum for this project is the North American Datum (NAD) of 1983 in UTM. The control reference station used for this survey was the USCG DGPS English Turn, LA (Station ID #814), located at 29°52.73743'N, 089°56.50329'W. ✓

* DATA FILED WITH ORIGINAL FIELD RECORDS.

D. RESULTS AND RECOMMENDATIONS

D1. Chart Comparison * SEE ALSO EVALUATION REPORT

The following is a list of Charts compared during H11189:

Chart Number	Edition	Edition Date
11345	30th	March 10, 2001
11350	50th 25 TH	August 28, 1999 JULY 2003

D2. Additional Results

Note: Heavy Rainfall from Oct.25th to Oct 28th resulted in approximately 4.3 inches of rainfall in the New Iberia region according to the NOAA weather internet site. ✓

E. APPROVAL SHEET


Attached next page.

**APPROVAL SHEET
OPR-S-K908-NRB-02
Field Examination – H11189
New Iberia, LA
NRT-2 Launch 1210
2002**

This Basic Survey (single beam) consisting of three primary channel lines and centerlines on slips for the New Iberia South Drainage Canal is complete and adequate for its intended purpose. The Port of New Iberia requested the contemporary soundings for a new NOAA chart inset. The survey includes a Field Examination Report (ie. Descriptive Report), digital data and all accompanying records.

The following reports are included with this submission:

Field Examination Report (DR)	October 2002
Data Acquisition and Processing Report	October 2002
Vertical and Horizontal Control Report	October 2002
Tides and Water Level Package	October 2002

Approved by:  David B. Elliott – Team Leader
NOAA-Navigation Response Team 2



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: March 4, 2003

HYDROGRAPHIC BRANCH: Atlantic
HYDROGRAPHIC PROJECT: S-K908-NRT2-2002
HYDROGRAPHIC SHEET: H11189

LOCALITY: New Iberia Drainage Canal, TX
TIME PERIOD: October 27, 2002

TIDE STATION USED: 876-5171 New Iberia, LA
Lat. 29° 56.7'N Lon. 91° 50.2' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.556 meters

REMARKS: RECOMMENDED ZONING
Use zone(s) identified as: WLA1, WLA2, WLA3 & WLA4.

Refer to attachments for zoning information.

Note 1: Provided time series data are tabulated in metric units
(meters), relative to MLLW and on Greenwich Mean Time.

Thomas N. Meru 3/4/03

CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION

LETTER TRANSMITTING DATA

DATA AS LISTED BELOW WERE FORWARDED TO YOU
BY (Check)

- ORDINARY MAIL
- REGISTERED MAIL
- GBL (Give number) _____
- AIR MAIL
- EXPRESS

TO:

CHIEF, DATA CONTROL GROUP, N/CS3x1
 NOAA / NATIONAL OCEAN SERVICE
 STATION 6815, SSMC3
 1315 EAST-WEST HIGHWAY
 SILVER SPRING, MARYLAND 20910-3282

DATE FORWARDED

26 SEP 2003

NUMBER OF PACKAGES

1

NOTE: A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

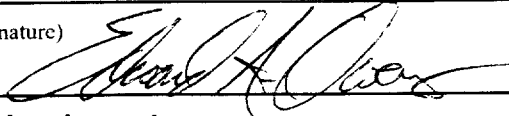
H11189

LOUISIANA, NEW IBERIA, NEW IBERIA DRAINAGE CANAL

ONE TUBE CONTAINING THE FOLLOWING:

- 1 SMOOTH SHEET FOR SURVEY H11189
- 1 ORIGINAL DESCRIPTIVE REPORT
- 1 RECORD OF APPLICATION TO CHART FORM (NOAA FORM #75-96) FOR SURVEY H11189
- 1 H-DRAWING ON MYLAR FOR NOS CHART 11350

FROM: (Signature)



RECEIVED THE ABOVE
(Name, Division, Date)

Return receipted copy to:

NOAA \ NATIONAL OCEAN SERVICE
 ATLANTIC HYDROGRAPHIC BRANCH N/CS33
 439 WEST YORK STREET
 NORFOLK, VA. 23510-1114

**ATLANTIC HYDROGRAPHIC BRANCH
EVALUATION REPORT FOR H11189 (2002)**

This Evaluation Report has been written to supplement and/or clarify the original Descriptive Report. Sections in this report refer to the corresponding sections of the Descriptive Report.

B. AUTOMATED DATA ACQUISITION AND PROCESSING

The following software was used to process data at the Atlantic Hydrographic Branch:

Hydrographic Processing System (HPS)
NADCON, version 2.10
MicroStation J, version 07.01.04.16
I/RAS B, version 07.01.000.18

The smooth sheet was plotted using an Hewlett-Packard DesignJet 2500CP plotter.

C. CONTROL STATIONS

Horizontal control used for this survey during data acquisition is based upon the North American Datum of 1983 (NAD 83). All geographic positions listed in this report are on NAD 83 datum unless otherwise specified.

D. RESULTS AND RECOMMENDATIONS

COMPARISON WITH CHART 11345 (31st Edition, Dec 07/02)
11350 (25th Edition, Jul/03)
Corrected through NM Jul 19/03
Corrected through LNM Jul 19/03

Hydrography

A comparison with chart 11350 (Inset-1:40,000 scale) was made. H11189 data determined that the charted centerline controlling depth of 12 feet throughout the New Iberia Drainage Canal has shoaled to a least depth of 10 feet. It is recommended that the Acadiana Navigation Channel note be revised to read: "Acadiana Navigation Channel- The channel is privately maintained with a controlling depth of 10 feet reported from the Gulf Intracoastal Waterway Depth to the main entrance of the port. Depths along the edge of the channel may be subject to shoaling." The note should be dated October 2002.

S. MISCELLANEOUS

Chart compilation using the present survey was done by Atlantic Hydrographic Branch personnel in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland. The Following National Ocean Service Chart was compiled using the present survey.

11350 (25th Edition, Jul/03)

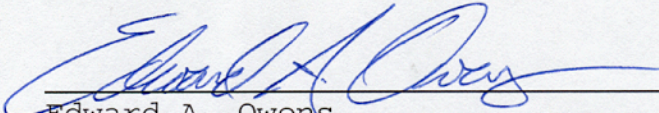
Corrected through NM Jul 19/03

Corrected through LNM Jul 19/03

APPROVAL SHEET

H11189


The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disproval of charted data. The digital data have been completed and all revisions and additions made to the smooth sheet during survey processing have been entered in the digital data for this survey. The survey records and digital data comply with NOS requirements except where noted in the Evaluation Report.



Edward A. Owens
Physical Scientist,
Atlantic Hydrographic Branch

Date: 9/25/03

I have reviewed the smooth sheet, accompanying data, and reports. This survey and accompanying digital data meet or exceed NOS requirements and standards for products in support of nautical charting except where noted in the Evaluation Report.

Approved: 

Emily B. Christman
Commander, NOAA
Chief, Atlantic Hydrographic Branch

Date: 9/26/03

AWOIS/SURF

9/29/03
mcr

A handwritten signature in cursive script, appearing to read "Edward A. Owens", written over a horizontal line.

Edward A. Owens
Physical Scientist,
Atlantic Hydrographic Branch
Verification of Field Data
Evaluation and Analysis

