## NOAA FORM 76-35A

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

## DESCRIPTIVE REPORT

Type of Survey Basic Hydrographic
Field No.
Registry No H-11322
LOCALITY
State Rhode Island
General Locality Buzzards Bay and Rhode Island Sound
Sublocality 5 NM SE of Point Judith
2004
CHIEF OF PARTY
LT Todd A Haupt, NOAA
LIBRARY & ARCHIVES
DATE

NOAA FORM 77-28 (11-72)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTRY №. H11022		
	HYDROGRAPHIC TITLE SHEET			
INSTRUCTIONS — The Hydregraphic Sheet should be accompanied by this form, filled In as completely as pecs & le, when the sheet is forwarded to the Office.				
State RHODE	ISLAND			
General Locality	BUZZARDS BAY and RHODE ISLAND SOUND			
Sub-Locality 5	NM SE of POINT JUDITH			
Scale1:10000	Date of	Survey <u>JULY 6-16, 2004</u>		
Instructions date	ed March 26, 2004 Project	No. S-B912-RU-04		
Vessel NOAA	A Ship RUDE 5590			
Chief of Party_	LT Todd A. Hapt, NOAA			
Surveyed by <u>LT</u>	Haupt, LT Zezula, ENS Edmundsen, SST Kitt, ST Stephens, S	ST Moore		
Soundings by ed	ho sounder, hand lead, pole _ODOM Echotrak DF3200 Mk)	I, Reson SeaBat 8125		
Graphic record :	scaled by RIIDE Personnel			
Graphic record	checked by RUDE Personnel Automated I	lot N/A		
Verification by_	Atlantic Hydrographic Branch Personnel			
Soundings in	fathoms feet at MLW MILLW Feet at MLLW			
REMARKS:	All times are UTC			
	Soundings have been corrected with verified tides			
	Projection in UTM zone 19			

Notes in red, bold, italic were added during office processing.

H11322	NOAA Ship RUDE
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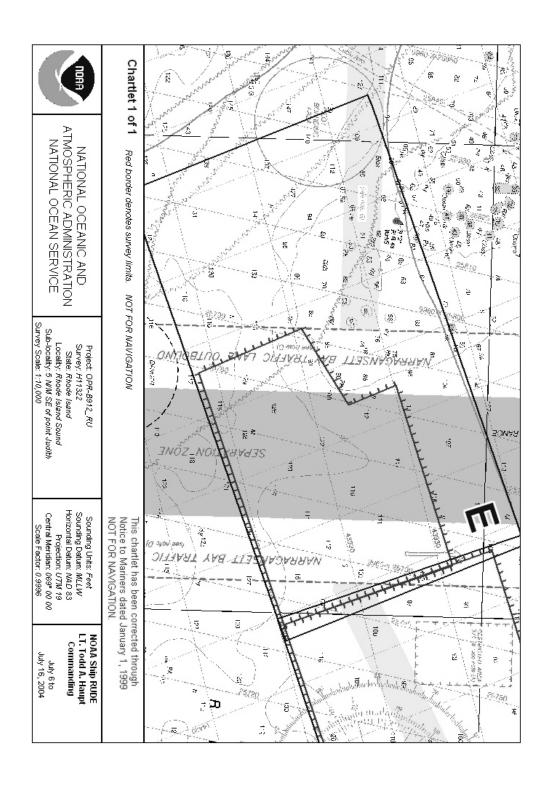
## A. AREA SURVEYED

This hydrographic survey was conducted in accordance with Hydrographic Survey Letter Instructions for project OPR-B912-RU updated March 26, 2004.

This project is being conducted to provide side scan sonar and/or multibeam data in support of National Ocean Service (NOS) nautical charts, as a response to requests from the Northeast Marine Pilots. This project was conducted in accordance with NOS requirements for side scan sonar and multibeam data acquisition and processing.

Full bottom coverage, consisting of 200% side scan with Multibeam developments was achieved within the entire limits of hydrography for this survey.

For complete survey limits, see the chartlet on the following page.



## B. DATA ACQUISITION AND PROCESSING See also the Evaluation Report

#### **B1.** Equipment

Data was acquired by NOAA Ship RUDE (S-590).

The RUDE is 90 feet in length with a 22-foot beam and 7-foot draft.

Vertical-beam echo sounding data were acquired on RUDE with an Odom Echotrac dual-beam echo sounder (24 and 200 kHz). RUDE vertical-beam data was used in conjunction with Side Scan Sonar to ensonify objects on the bottom not apparent at side scan nadir and also for crossline checks with the mainscheme lines. No vertical beam data were acquired during multibeam operations.

RUDE acquired all side scan sonar data using a Klein 5500 towfish. Side scan sonar data was recorded digitally on RUDE using Triton ISIS software and archived in Extended Triton Format.

Single frequency (455 kHz) multi-beam data were acquired with a Reson SeaBat 8125 shallow water sonar system. Positioning and attitude for RUDE were determined with a TSS POS/MV and utilizing a Trimble DSM-212L DGPS receiver.

Sound velocity data were acquired using a Sea-Bird SBE 19 SEACAT Conductivity, Temperature and Depth (CTD) Profiler.

No unusual vessel configurations or problems were encountered. Data acquisition and Processing Report (DAPR) has been submitted. \* Please refer to the 2004 DAPR for detailed equipment and vessel configuration. \*Data filed at the Atlantic Hydrographic Branch.

## **B.2 QUALITY CONTROL**

#### **Side Scan Sonar Quality Control**

Daily confidence checks were made by observing the outer ranges of the side scan sonar images. A good check consisted of distinguishing contacts, i.e. lobster pots, drag scours, cable lines, or sand waves across the entire range of the side scan trace. Under conditions of questionable data quality due to high refraction or surface noise, these confidence checks were conducted as often as possible. SSS data acquisition was suspended when targets approximately 1 meter in characteristic size could not be resolved to the edge of the range scale in use.

## **Shallow Water Multibeam Quality Control**

There were no major faults with the shallow water multibeam system, which affected data integrity in this survey. Confidence checks were provided by comparing nadir sounding data to the VBES and ensonification of known side scan contacts. Please refer to the project's \*DAPR for detailed discussion of SWMB system calibrations, patch test, data acquisition, and data processing.

#### Crosslines

The total distance of crosslines is 28.02 linear nautical miles, which is equal to 9.8% of total mainscheme lines. Crossline to mainscheme line comparison was conducted using MapInfo 6.5 and visually inspecting the resulting sounding plot printout. Comparison is adequate, with the majority of differences being one foot or less.

\*\*A complete autonomous MapInfo workspace and tables may be found following (Local Drive):\Pydro\_Proj\B-912\_Buzz\_bay\SheetE\Descriptive Report\MapInfo Files\Crosslines.

## Junctions See also the Evaluation Report

Survey H11322 junctions with survey H11321 to the East. The soundings in the present survey were in agreement with those in survey H11321. Junctions were inspected visually using MapInfo and found to be adequate, generally within one to two feet with adjacent sounding. \*\*A complete autonomous MapInfo workspace and tables may be found following this data path (Local Drive):\Pydro\_Proj\B-912\_Buzz\_bay\SheetE\Descriptive Report\MapInfo Files\Junctions

#### **B.3 CORRECTIONS TO ECHO SOUNDINGS**

All methods or instruments were implemented as described in the Correction to Echo Sounding section of the \*DAPR for this project. A table detailing all sound velocity profiles is located in \*\* Separate III. Sound velocity data has been submitted on a CD-ROM with the digital data package.

<sup>\*</sup> Data filed at the Atlantic Hydrographic Branch

<sup>\*\*</sup> Data filed with field records.

#### C. VERTICAL AND HORIZONTAL CONTROL

#### **Vertical Control**

The tidal datum for this project is Mean Lower Low Water (MLLW). All soundings are referenced to MLLW. Mean High Water (MHW) is the tidal datum for all above water vertical clearances. The operating National Water Level Observation Network (NWLON) station at Newport Rhode Island (845-2660) served as datum control for the survey area. All soundings were reduced to Mean Lower Low Water with verified tides. Opening and closing levels were performed by CO-OPS.

A Request for Approved Tides letter was sent to N/OPS1 August 6, 2004 \*\* (Appendix IV). Verified tides from the N/OPS1 CO-OPS website were downloaded and applied to all soundings for this sheet. Tide corrections were applied to the soundings using CARIS HIPS and SIPS v5.3. Approved tides were re-applied to survey in CARIS during office processing.

## Horizontal Control See also the Evaluation Report

The horizontal datum used for this survey is the North American Datum of 1983 (NAD 83), projected using UTM zone 19.

Sounding positional control was determined using the Global Positioning System (GPS) corrected by U.S. Coast Guard differential GPS (DGPS) beacon stations. The primary DGPS beacon used for this survey was Acushnet MA. When the primary signal was weak or disabled, the secondary DGPS beacon (Montauk NY) was used. No horizontal control stations were established for this survey.

Horizontal dilution of precision (HDOP) was monitored daily. Data were re-acquired if the HDOP value exceeded 2.5. The TSS POS/MV positioning system was also used to monitor the accuracy of the ship's position and orientation. Data were re-acquired if POS M/V's Estimated position accuracy exceeded 4 m. \* Refer to section A.3 of the 2004 field season DAPR for more details regarding Rude's POS M/V settings and operation. \*Data filed at the Atlantic Hydrographic Branch.

<sup>\*\*</sup> Data filed with field records.

## D. RESULTS AND RECOMMENDATIONS See also the Evaluation Report

## **D.1 Chart Comparison**

Chart 13218 is the largest scale chart affected by this survey.

13218 1:80,000 39<sup>th</sup> Ed., JUN /04 NM JUN 12/04 LNM MAY 25/04

United States Coast Guard Notice to Mariners and Local Notice to Mariners corrections were applied through 01 Mar 2004.

Comparisons could only be made with chart 13218 (in feet) due to the scale of the charts. *concur* 

Agreement with chart 13218 was excellent, with current soundings within plus or minus 2 feet by visual inspection of soundings overlaid on the chart in the PSS. *concur* 

#### **D.2 Additional Results**

## **Item Investigation**

There were no AWOIS items investigated. *concur* 

There were no Danger TO Navigation reports (DTONs) submitted for this survey. No charted features and four uncharted items are addressed in this Descriptive Report. Please refer to \* separates for all the investigated items to be submitted. \* Data attached to this report.

## **General Description of Surveyed Area and Sounding Comparison**

H11322 covers an area approximately 14.74 square nautical miles. The bottom is generally flat with distinct areas of sand, mud and occasional rocks. Agreement with chart 13218 was excellent, with current soundings within plus or minus 2 feet by visual inspection of soundings overlaid on the chart in the PSS. *concur* 

#### **Shoreline**

Shoreline investigation was not required for this survey. concur

## **Submarine Cable**

The Charted submarine cable located on the southwest side of the survey was not evident in 200% Side scan coverage. *concur* 

## **Bottom Samples**

Bottom sediment samples were collected at 11 sites within the survey area. With a few exceptions, the bottom characteristic is that of various grains of brown sand, And green sticky mud. The hydrographer recommends updating the charts with the given characteristics from the bottom samples is \* Appendix V, Supplemental Survey Records and Correspondence. *concur* \* *Data filed with field records*.

H11322 NOAA Ship RUDE APPROVAL SHEET LETTER OF APPROVAL REGISTRY NO. H11322 Data acquisition, processing, and analysis contributing to the accomplishment of this navigable area survey were conducted under my direct supervision with frequent personal checks of progress and adequacy. All data, field sheets, this Descriptive Report, and accompanying records were reviewed in their entirety and are approved. This survey is adequate to supersede all prior surveys in common areas and is considered complete and adequate for nautical charting. Respectfully Submitted: Harlan Y Stephens, ST NOAA Ship RUDE Approved: LT Todd A. Laupt, NOAA Commanding Officer NOAA Ship RUDE 11

**Registry Number:** H11322

State: Rhode Island
Locality: Buzzards Bay

**Sub-locality:** 5 N/M SE of point Judith

**Project Number:** OPR-B912-RU-04

**Survey Date:** 07/13/2004

## **Charts Affected**

Number	Version	Date	Scale
13218	38th Ed.	03/10/2001	1:80000
12300	43rd Ed.	03/01/2003	1:400000
13006	31st Ed.	06/01/2003	1:675000
5161	13th Ed.	10/01/2003	1:1058400
13003	47th Ed.	06/01/2003	1:1200000

## **Features**

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Shoal	35.07 m	41.27317526° N	71.36507175° W	
1.2	Shoal	26.01 m	41.28545145° N	71.42508335° W	
1.3	Shoal	33.20 m	41.30402640° N	71.37652753° W	
1.4	Shoal	27.16 m	41.30529957° N	71.41611232° W	
1.1	Rk	115 ft	41°16′23.43′′N,	71°21'54.26''W	
<i>1.2</i>	Rk	85 ft	41°17′07.62′′N,	71°25′30.30′′W	
1.3	<b>Obstr</b>	109 ft	41°18′14.50′′N,	71°22'35.50''W	
1.4	Rk	89 ft	41°18′19.08′′N,	71°24′58.00′′W	



# $1.1)\ Profile/Beam - 383/144\ from\ h11322\_sheet\_e\ /\ ru00\_mb\ /\ 2004-195\ /\ 802\_0859$

## **Survey Summary**

Survey Position: 41.27317526° N, 71.36507175° W 41°16'23.43"N, 71°21'54.26"W

**Least Depth:** 35.07 m 115 ft

**Timestamp:** 2004-195.09:00:29.183 (07/13/2004)

**Survey Line:** h11322\_sheet\_e / ru00\_mb / 2004-195 / 802\_0859

**Profile/Beam:** 383/144

**Charts Affected:** 13218\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

Remarks:

Rock

## **Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11322_sheet_e/ru00_mb/2004-195/802_0859	383/144	0.00	0.000	Primary
h11322_sheet_e/ru00_sss/2004-189/101_1053	0001	11.70	230.7	Secondary
h11322_sheet_e/ru00_sss/2004-189/201_1013	0001	14.13	085.0	Secondary
h11322_sheet_e/ru00_sss/2004-189/102_1133	0001	17.60	080.5	Secondary

## **Hydrographer Recommendations**

Chart as 115 ft Rk concur 115Rk

**Cartographically-Rounded Depth (Affected Charts):** 

115ft (13218\_1) 19fm (12300\_1, 13006\_1, 13003\_1) 35m (5161\_1)

## **Feature Images**

H11322 1 - New Features

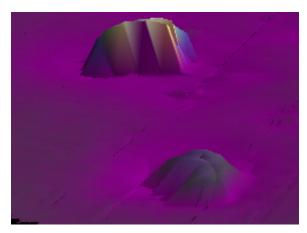


Figure 1.1.1

## 1.2) Profile/Beam - 598/105 from h11322\_sheet\_e / ru00\_mb / 2004-195 / 820\_0616

## **Survey Summary**

Survey Position: 41.28545145° N, 71.42508335° W 41°17'07.62"N, 71°25'30.30"W

Least Depth: 26.01 m 85 ft

**Timestamp:** 2004-195.06:18:48.108 (07/13/2004)

**Survey Line:** h11322\_sheet\_e / ru00\_mb / 2004-195 / 820\_0616

**Profile/Beam:** 598/105

**Charts Affected:** 13218\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

Remarks:

Rock

## **Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11322_sheet_e/ru00_mb/2004-195/820_0616	598/105	0.00	0.000	Primary
h11322_sheet_e/ru00_sss/2004-190/218_1312	0001	10.06	063.8	Secondary
h11322_sheet_e/ru00_sss/2004-189/118_1924	0001	18.27	058.6	Secondary
h11322_sheet_e/ru00_sss/2004-190/217_1345	0001	21.48	263.9	Secondary

## **Hydrographer Recommendations**

Chart as 85 ft Rk concur 85Rk

**Cartographically-Rounded Depth (Affected Charts):** 

85ft (13218\_1) 14fm (12300\_1, 13006\_1, 13003\_1) 26m (5161\_1)

## **Feature Images**

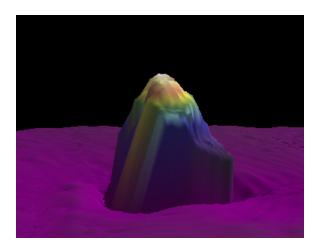


Figure 1.2.1

# $1.3)\ Profile/Beam - 482/125\ from\ h11322\_sheet\_e\ /\ ru00\_mb\ /\ 2004-195\ /\ 809\_0821$

## **Survey Summary**

Survey Position: 41.30402640° N, 71.37652753° W 41°18'14.50"N, 71°22'35.50"W

**Least Depth:** 33.20 m 109 ft

**Timestamp:** 2004-195.08:23:52.615 (07/13/2004)

**Survey Line:** h11322\_sheet\_e / ru00\_mb / 2004-195 / 809\_0821

**Profile/Beam:** 482/125

**Charts Affected:** 13218\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

#### Remarks:

non-dangerous Obstn

## **Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11322_sheet_e/ru00_mb/2004-195/809_0821	482/125	0.00	000.0	Primary
h11322_sheet_e/ru00_sss/2004-190/221_1127	0001	3.93	228.1	Secondary
h11322_sheet_e/ru00_sss/2004-189/121_2044	0001	12.55	066.5	Secondary

## **Hydrographer Recommendations**

chart as non-dangerous Obstn, with a least depth of 109 ft concur 1090bstn

#### **Cartographically-Rounded Depth (Affected Charts):**

109ft (13218\_1) 18fm (12300\_1, 13006\_1, 13003\_1) 33m (5161\_1)

## **Feature Images**

H11322 1 - New Features

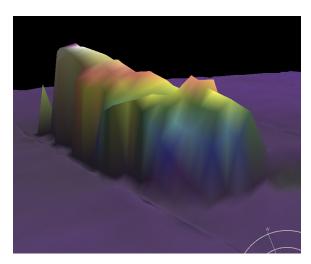


Figure 1.3.1

## 1.4) Profile/Beam - 309/51 from h11322\_sheet\_e / ru00\_mb / 2004-195 / 831\_0520

## **Survey Summary**

Survey Position: 41.30529957° N, 71.41611232° W 41°18'19.08"N, 71°24'58.00"W

**Least Depth:** 27.16 m 89 ft

**Timestamp:** 2004-195.05:21:59.849 (07/13/2004)

**Survey Line:** h11322\_sheet\_e / ru00\_mb / 2004-195 / 831\_0520

**Profile/Beam:** 309/51

**Charts Affected:** 13218\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

Remarks:

Rock

## **Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11322_sheet_e/ru00_mb/2004-195/831_0520	309/51	0.00	0.000	Primary
h11322_sheet_e/ru00_sss/2004-189/128_0002	0001	10.66	070.4	Secondary

## **Hydrographer Recommendations**

Chart as 89 ft Rk concur 89Rk

#### Cartographically-Rounded Depth (Affected Charts):

89ft (13218\_1) 15fm (12300\_1, 13006\_1, 13003\_1) 27m (5161\_1)

## **Feature Images**

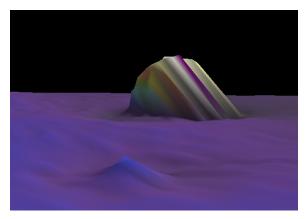


Figure 1.4.1



## UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SERVICE Silver Spring, Maryland 20910

#### TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: March 1, 2005

HYDROGRAPHIC BRANCH: Atlantic

HYDROGRAPHIC PROJECT: S-B912-RU-2004

HYDROGRAPHIC SHEET:

H11322

LOCALITY:

5 nm SE of Point Judith Rhode Island Sound, RI

TIME PERIOD:

April 5 - July 14, 2004

TIDE STATION USED:

845-2660 Newport, RI

Lat. 41° 30.3'N

Lon. 71° 19.6'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.099 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: NA627 & NA629

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 on the new 1983-2001 National Tidal Datum Epoch (NTDE).

CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION



NOAA FORM 61-29 (12-71)	U.S. DEPARTMENT NATIONAL OCEANIC AND ATMOSPHERIC A		REFERENCE NO. N/CS33-30-05
LETTER TRA	ANSMITTING DATA		DATA AS LISTED BELOW WERE FORWARDED TO YOU BY (Cheek)
			ORDINARY MAIL AIR MAIL
TO:			REGISTERED MAIL X EXPRESS
		_	
CHIEF, DATA ACQUISITION A	ND CONTROL	•	GBL (Give number)
NOAA, NOS, OCS, HSD 1315 EAST-WEST HIGHWAY	IND CONTROL		DATE FORWARDED 12/20/2005
SSMC3, STATION 6704,			NUMBER OF PACKAGES
. SILVER SPRING, MARYLAND	20910-3282		NUMBER OF PACKAGES 1
<b>NOTE:</b> A separate transmittal letter is to be include an executed copy of the transmittal letter the copy will be returned as a receipt. This	etter in each package. In addition the original	ginal and one co	magnetism, etc. State the number of packages and py of the letter should be sent under separate cover. ng accounting documents.
	H11222		
	H11322		
RHODE ISLAND, BUZZA	ARDS BAY AND RHODE ISLAND	SOUND, 5 N	IM SE OF POINT JUDITH
ONE TUBE CONTAINING THE FOL	LOWING:		
1 SMOOTH SHEET MYLAR PLOT 1 MYLAR H-DRAWING PLOT FOR 1 RECORD OF APPLICATION TO (	NOS CHART 13218	1322	
,,			
2			
FROM: (Signature)			RECEIVED THE ABOVE
Deliveral a Bla			(Name, Division, Date)
Willow a Bla			
Return receipted copy to:			
* NOAA \ NATIONAL OCEAN	SERVICE	•	
ATLANTIC HYDROGRAPHI			
439 WEST YORK STREET			
NORFOLK, VA. 23510-1114			
•		•	

## ATLANTIC HYDROGRAPHIC BRANCH EVALUATION REPORT FOR H11322 (2004)

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. DATA ACQUISITION AND PROCESSING

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

Hydrographic Processing System
MicroStation J, version 07.01.04.16
I/RAS B, version 07.01.000.18
MapInfo, version 6.5
CARIS HIPS/SIPS 5.3
PYDRO, version 3.7.1

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

## JUNCTIONS

## H11321 (2004) to the east

A standard junction was effected between the present survey and H11321 (2004) to the east.

There are no contemporary surveys to the west, north or south of the present survey. Present survey depths are in harmony with the charted hydrography to the west, north and south.

## C. HORIZONTAL CONTROL

Horizontal control used for this survey during data acquisition is based upon the North American Datum of 1983 (NAD83), UTM Zone 19N. Office processing of this survey is based on these values.

## D. RESULTS AND RECOMMENDATIONS

COMPARISON WITH Chart 13218 (39<sup>TH</sup> Edition, Jun/04)

Corrected through NM Jun 12/04

Corrected through LNM May 25/04

#### Hydrography

The charted hydrography originates with the prior surveys and requires no further consideration. A comparison with prior surveys was not done during office processing in accordance with section 4. of the memorandum titled, "Changes to Hydrographic Survey Processing", dated May 24, 1995. The hydrographer makes adequate chart comparisons in section D. of the Descriptive Report. The following should be noted:

1) An uncharted non-dangerous <u>rock</u> with <u>a depth of 86 feet</u> in Latitude 41°16'55.50"N, Longitude 71°26'03.97"W, was located during office inspection of the present survey. It is recommended that a <u>rock</u> with <u>a depth of 86 feet</u> be charted as shown on the present survey.

The present survey is adequate to supersede the charted hydrography within the common area.

#### MISCELLANEOUS

Chart compilation was done by Atlantic Hydrographic Branch personnel, in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland.

13218 (39<sup>TH</sup> Edition, Jun/04) Corrected through NM Jun 12/04 Corrected through LNM May 25/04

#### ADEQUACY OF SURVEY

This is an adequate hydrographic/side scan sonar/multibeam survey. No additional work is recommended.

## APPROVAL SHEET H11322

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. 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.

Deborah A. Bland

Date: 12/19/2005

Cartographer,

Atlantic Hydrographic Branch

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.

Date: 12/19/2005

Approved:

P. Tod Schattgen,

Lieutenant Commander, NOAA

Chief, Atlantic Hydrographic Branch

## MARINE CHART BRANCH

## **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
3718	10/05	D. A. Blane	Full Part Botore After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
* 3			Full Part Before After Marine Center Approval Signed Via
#			Drawing No.
	7		Full Part Before After Marine Center Approval Signed Via
	14		Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
3			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
<u> </u>			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.