

H11441A

NOAA FORM 76-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
<i>Type of Survey:</i>	Navigable Area
<i>Registry Number:</i>	H11441
LOCALITY	
<i>State:</i>	Connecticut & New York
<i>General Locality:</i>	Eastern Long Island Sound
<i>Sub-locality:</i>	New London Harbor and Approaches
2005	
CHIEF OF PARTY	
CAPT Emily B. Christman, NOAA	
DATE	LIBRARY & ARCHIVES

NOAA FORM 77-28
(11-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

REGISTRY NUMBER:

HYDROGRAPHIC TITLE SHEET**H11441**

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State: **Connecticut and New York**

General Locality: **Eastern Long Island Sound**

Sub-Locality: **New London Harbor and Approaches**

Scale: **1:10,000** Date of Survey: **04/27/2005 to 5/22/2005**

Instructions Dated: **3/25/2005** Project Number: **OPR-B370-TJ-05**

Change No. 1 Dated: **04/12/2005**

Change No. 2 Dated: **04/29/2005**

Vessel: **NOAA Ship THOMAS JEFFERSON, S-222**

Chief of Party: **Capt Emily B. Christman, NOAA**

Surveyed by: **THOMAS JEFFERSON Personnel**

Soundings by: **Reson SeaBat 8101 multibeam sonar**
Reson SeaBat 8125 multibeam sonar

Graphic record checked by: **N/A**

Protracted by: **N/A** Automated Plot: **N/A**

Verification by: **Atlantic Hydrographic Branch**

Soundings in: **Meters at MLLW**

Remarks:

- 1) All Times are UTC.**
- 2) This is a Navigable Area Hydrographic Survey.**
- 3) Projection is North American Datum 83 (NAD83), UTM Zone 18**

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DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SURVEY H11441

Scale of Survey: 1:10,000
Year of Survey: 2005
NOAA Ship THOMAS JEFFERSON
Capt Emily B. Christman, Commanding

A. AREA SURVEYED

This hydrographic survey was conducted in accordance with Hydrographic Survey Letter Instructions for project OPR-B370-TJ-05. The original instructions are dated March 25, 2005. Two letters describing changes to these instructions were received by the THOMAS JEFFERSON on April 12th, 2005 and April 29th 2005 respectively.

This Descriptive Report (DR) applies to sheet “A” of project OPR-B370-TJ-05 which covers the approaches to the Thames River, and New London, Connecticut. The registry number of this sheet is H11441 and the survey area includes the north east corner of Long Island Sound, the Lower Thames River and the western edge of Fisher’s Island Sound. See survey area chart: figure A.

Safe navigation of this waterway is important for national security and is critical for the economy of the region. The Thames River and its approaches provide access to the US Navel Base, Groton, US Coast Guard Base, New London, the US Coast Guard Academy, General Dynamics, several shipping terminals, a fuel depot which serves Eastern Long Island, many pleasure boat marinas and ferry access to Fisher’s Island, Long Island and Block Island. Long Island and Fisher’s Island Sounds are also valuable lobster and fishing grounds. Future cruise ship docking is also proposed near Fort Trumbull south of New London.

B: Purpose

As stated in the *Hydrographic Survey Letter Instructions* of March 25, 2005; the four goals of this survey are:

- 1: “To provide contemporary surveys to update National Ocean Service (NOS) nautical charts thus reducing the critical survey backlog in the Long Island Sound Region”
- 2: “to address a specific request from the Northeast Marine Pilots for updated surveys in the vicinity of New London and New Haven, Connecticut; particularly in the vicinity of Fort Trumbull in New London Harbor where cruise ships are expected to begin docking”

3: “to evaluate the efficacy of the Combined Uncertainty and Bathymetry Estimator (CUBE) algorithm for post-processing bathymetric data,”

4: “to conduct a comprehensive comparison and evaluation of recent vintage LIDAR data to ascertain the reliability and effectiveness of LIDAR for near shore survey work in the east coast survey paradigm.”

As goal 4 (comparison to LIDAR datum) has already been addressed in the Descriptive Report for registry number H11442B it will not be discussed extensively in this report. Many of the contacts presented in this survey, however, do have LIDAR as well as SONAR coverage. Where they exist, LIDAR descriptions are attached to contacts presented in this DR.

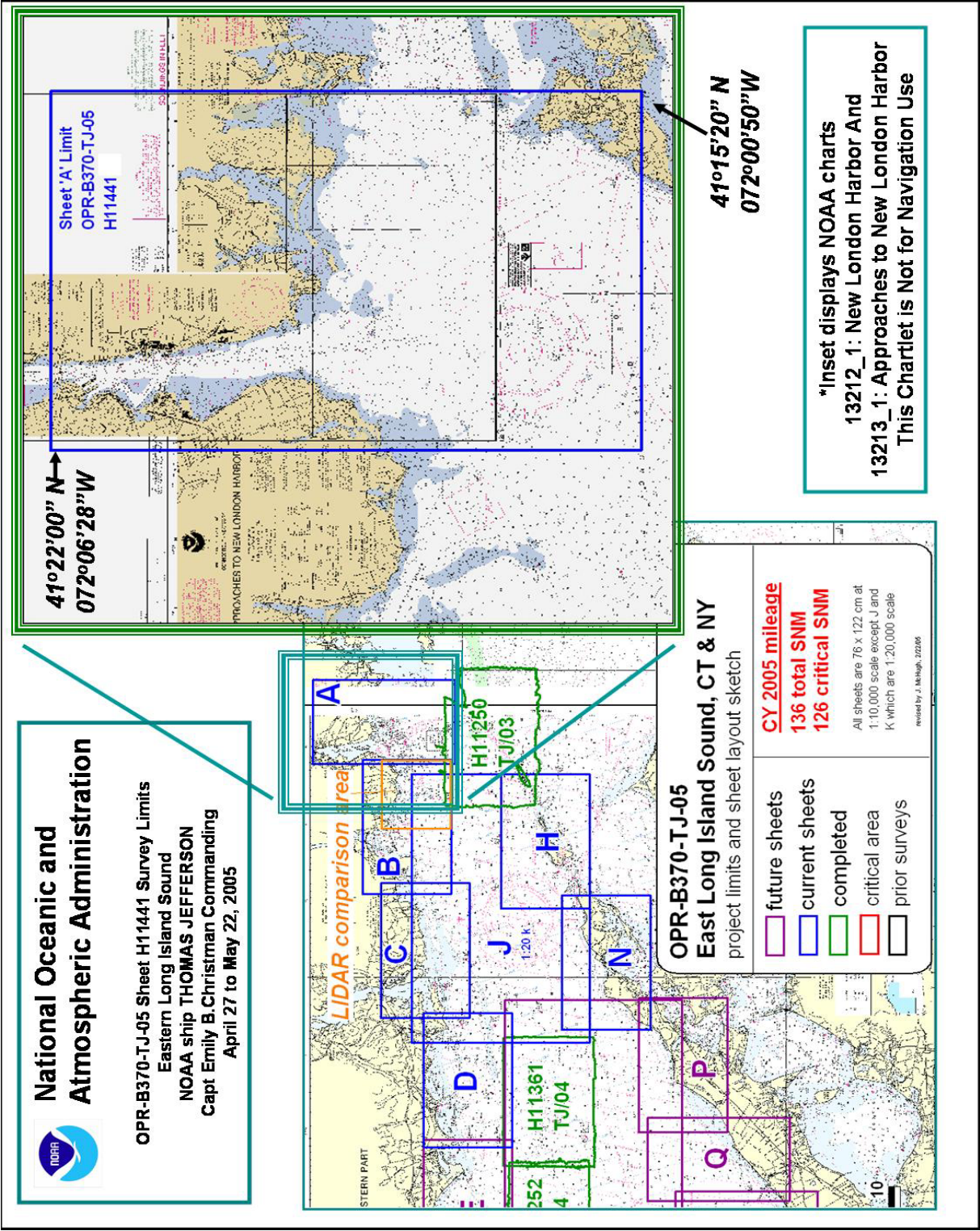


Figure A: Survey area

C. DATA ACQUISITION AND PROCESSING

EQUIPMENT

All data for this survey were acquired with NOAA Launch 1005 and NOAA launch 1014. Both launches are 8.5 meter Jensen vessels with approximately 0.5 meter draft.

Launch 1005 was equipped with a Reson, Seabat 8101 Multibeam Echo Sounder (MBES) and Launch 1014 was equipped with a Reson Seabat 8125 MBES. For each launch, attitude and position were monitored by a Applinx TSS POS/MV 320 Version 3 GPS aided navigation system.

Where Side Scan Sonar (SSS) acquisition was acquired, a Klein 5000 SONAR was mounted on the starboard side of Launch 1005 slightly aft of the Reson Seabat 8101 transducer. See DAPR submitted on April 1st, 2005 for equipment quality tests and calibration procedures; and see figure 'B' to see where each type of data acquisition was made.

QUALITY CONTROL

Side Scan Sonar Quality Control

As each side scan sonar line of data was examined for potential contacts it was also scrutinized for data quality. Often there were dotted interference patterns visible on the port side presumed to be noise from the 8101 MBES; these did not, however, significantly obscure the image. Some refraction due to radical temperature variation in the water column was observed over some of the survey area. This is to be expected in shallow water in the spring and summer months in New England and it was not too extreme to allow contact detection. There were 215 lineal nautical miles of 100% side scan sonar supplemented with 13 lineal nautical miles of 200% Side Scan Sonar (SSS) data collected for this survey, see figure 'B' for SSS coverage area

No problems were observed which would have prevented contact detection over the surveyed area.

Shallow Water Multibeam Quality Control

To check the precision of the MBES survey a total of approximately 53 lineal nautical miles of crosslines were run. This equals about 6% of the total 875 nautical of multi beam echo sounding data collected for this survey. 460 nm of the total SSS data were acquired with Launch 1005 and 415 nm with Launch 1014. In more than 50 random locations throughout the sheet crosslines were inspected with CARIS subset editor and their reported depths compared to the line that they crossed. These comparisons were made after verified tide data, and sound velocity corrections were applied. In areas of less than 20 meters no vertical variation of more than 0.2 meters was observed. In areas of over 20 meters in depth the maximum observed vertical difference was 0.3

meters. In all cases the vertical difference between a cross line and main lines that it crossed were less than 2% of the water depth.

During the time that this survey was being conducted, the THOMAS JEFFERSON was also conducting surveys on registry number H11442 in, and around Niantic Bay, Connecticut, immediately to the west. The junction between this sheets and H11441 was studied along its length with CARIS subset editor. No variation greater than 3% of the water depth was found between these two surveys where they overlap.

Water column sound velocity checks were made with a CTD cast from each launch by hand and the Sound Velocity Profile (SVP) data were applied to the MBES data in post processing. Casts were made at least every three hours during acquisition, however, casts were generally made much more often as the launches frequently changed survey locations or tidal movement of water masses caused artifacts in the data.

During this survey there were a few MBES survey lines where along track breaks in bathymetric data collection occurred. These data gaps were referred to as 'stutter'. The cause of this problem is not yet known but where there were significant gaps in the data a line was re-acquired.

Refer to this project's attached DAPR for a detailed description of each launches MBES system calibrations and quality checks and CTD procedures.

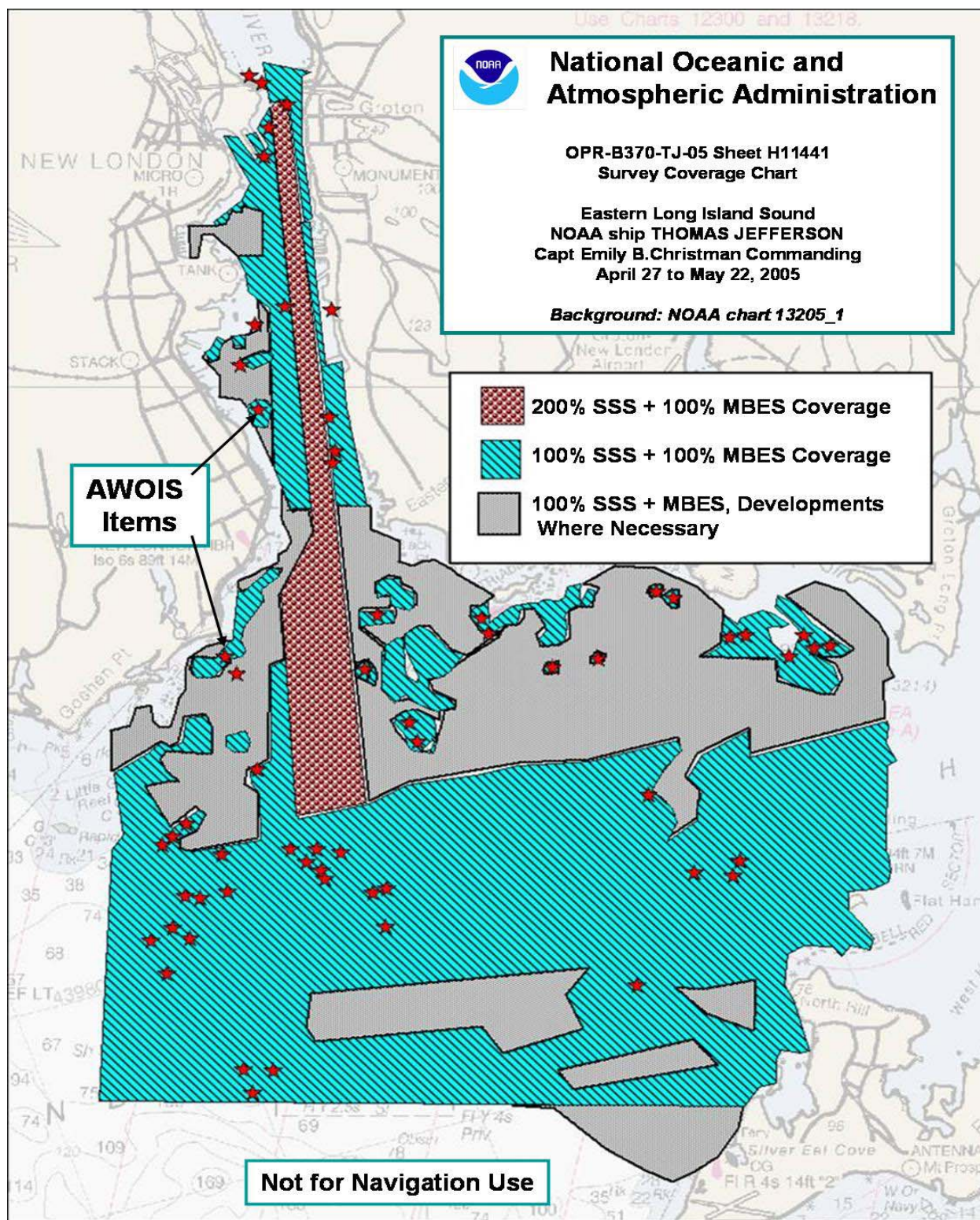


Figure B: survey coverage with AWOIS item locations.

CUBE Surfaces

MBES data from Launch 1005 and Launch 1014 were combined and divided using the CARIS HIPS program into 60 field sheets. MBES data points within the bounds of each of these field sheets were made into a CUBE surface at a 40 or 80 cm grid resolution depending on the water depth. These combined surfaces were finalized then combined into 2.5 meter surfaces which were subsequently imported into the Pydro program. See table 1 for a list of surfaces and figure 'C' for a chart of the location of each field sheet.

Combined Surface	Field Sheet	Resolution
H11441_Combined_River_250cm	H11441_1	40cm
	H11441_2	40cm
	H11441_3	40cm
	H11441_4	40cm
	H11441_5	40cm
	H11441_6	40cm
	H11441_7	40cm
	H11441_8	40cm
	H11441_9	40cm
	H11441_10	40cm
H11441_Combined_NorthWest_250cm	H11441_11	40cm
	H11441_12	40cm
	H11441_13	40cm
	H11441_14	40cm
	H11441_22	40cm
	H11441_23	40cm
	H11441_24	40cm
	H11441_25	40cm
	H11441_26	40cm
H11441_Combined_NorthEast_250cm	H11441_15	40cm
	H11441_16	40cm
	H11441_17	40cm
	H11441_18	40cm
	H11441_19	40cm
	H11441_20	40cm
	H11441_21	40cm

H11441_Combined_EastCentral_250cm	H11441_33	40cm
	H11441_34	40cm
	H11441_35	40cm
	H11441_41B_80cm	40cm
	H11441_41A_80cm	80cm
	H11441_42B	80cm
H11441_Combined_Central_250cm	H11441_30	40cm
	H11441_31	40cm
	H11441_32	40cm
	H11441_36	40cm
	H11441_37	80cm
	H1141_42A	80cm
	H11441_43	80cm
H11441_Combined_CentralWest_250cm	H11441_29	40cm
	H11441_38	40cm
	H11441_39B	80cm
	H11441_44A	80cm
	H11441_44B	80cm
H11441_Combined_WestCentral_250cm	H11441_27	40cm
	H11441_28	40cm
	H11441_39A	40cm
	H11441_40	40cm
H11441_Combined_SouthEast_250cm	H11441_46	40cm
	H11441_52	40cm
	H11441_53	80cm
H11441_Combined_SouthCentral_250cm	H11441_55	80cm
	H11441_54	80cm
H11441_Combined_Central_South_250cm	H11441_47	80cm
	H11441_48	80cm
	H11441_49	80cm
H11441_Combined_SouthWest_250cm	H11441_45	80cm
	H11441_50	80cm
	H11441_51	80cm
	H11441_56	80cm

Table 1: base surfaces and grid resolution.

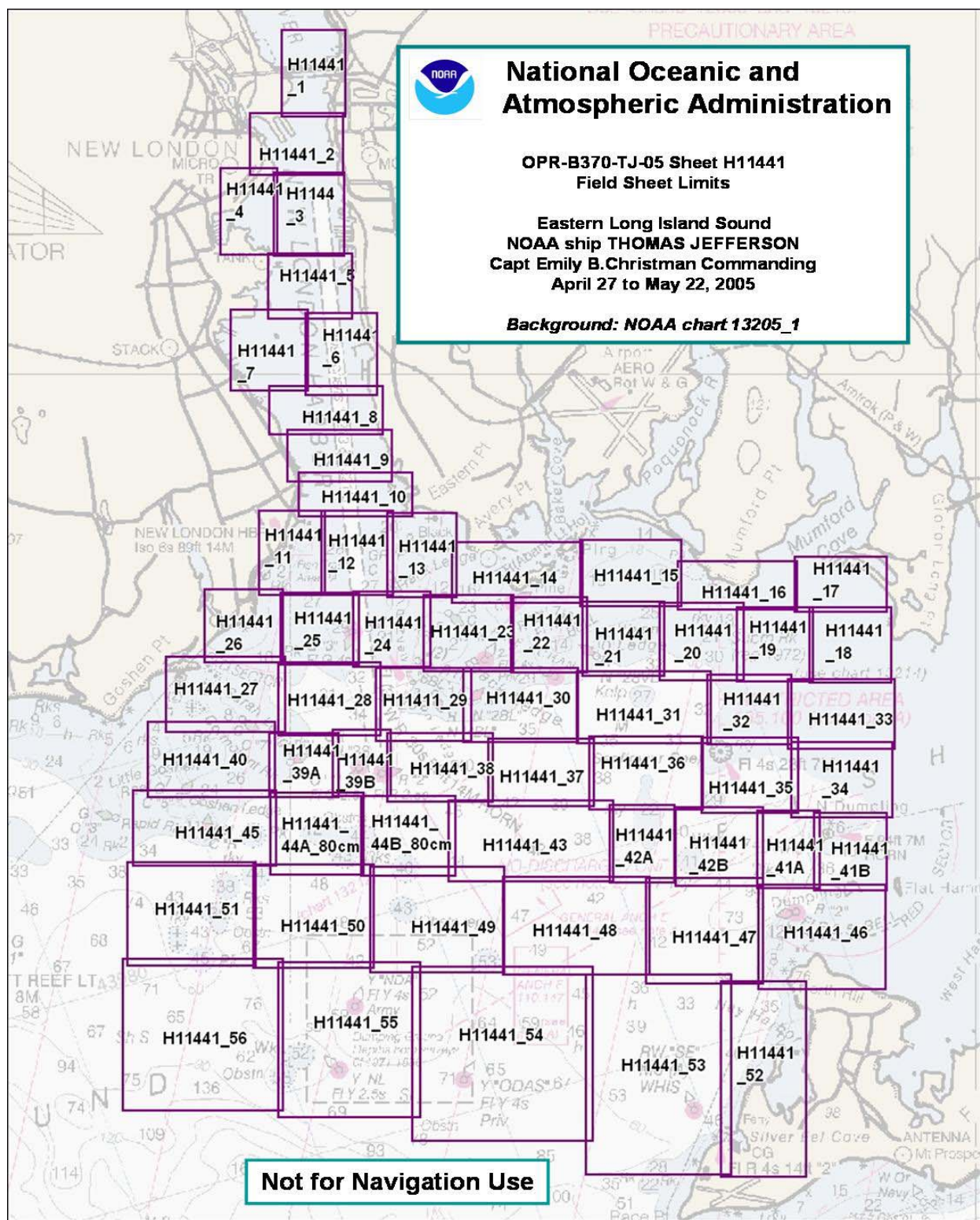


Figure C: field sheet coverage

D. VERTICAL AND HORIZONTAL CONTROL

VERTICAL CONTROL

A Request for Approved Tides letter was sent to N/OPS1 on May 23, 2005, see appendix IV. Verified tides from the N/OPS1 CO-OPS website were subsequently downloaded and applied to all sounding data.

Soundings in this survey are all presented relative to Mean Low Lower Water (MLLW) tidal datum. Tidal information was received from National Water Level Observation Network (NWLON) stations at New London, Connecticut (846-1490) and Montauk, New York (851-0560). The Physical Oceanographic Real Time System (PORTS) station at New Haven, Connecticut (846-5705) provided a control datum for the survey and for its subordinate station at Silver Eel Pond, Fisher's Island, New York (851-0719).

HORIZONTAL CONTROL

The horizontal datum used for this survey is the North American Datum of 1983 (NAD 83) projected using UTM zone 18.

Horizontal position was determined using the Global Positioning System (GPS) corrected by U.S. Coast Guard differential GPS (DGPS) beacon stations. Two DGPS beacons were used for this survey: Moriches, New York (site ID = 803, transmission frequency = 293 kHz) and Sandy Hook, New Jersey (site ID = 804, transmission frequency = 286 kHz). No horizontal control stations were established for this survey.

Horizontal dilution of precision (HDOP) was monitored daily on the both launches. The observed HDOP values did not exceed 4.00 during data acquisition.

E: RESULTS AND RECOMMENDATIONS

CHART COMPARISON

There are nine charts affected by this survey:

Number	Version	Edition Date	Scale
12354	41	04/01/2004	1:80,000
13212_1	36	03/01/2004	1:20,000
13213_1	41	03/01/04	1:10,000
13214_1	27	06/01/02	1:20,000
13205_1	37	09/01/2004	1:80,000
12300_1	45	03/01/2005	1:400,000
13006_1	32	02/01/2005	1:675,000
13003_1	48	10/01/2004	1:1,200,000
5161_1	13	10/01/2003	1:1,058,400

Table 2: NOAA charts affected by this survey.

General Agreement with Charted soundings

In areas where the water depth is greater than 8 meters this survey nearly always concurred with the current published charts. Specific areas where significant differences between charted depth and observed depth were observed are addressed in following sections of this report. Along the shoals and reefs with depths of less than 8 meters many reefs and outcrops were found to have contacts which were shoal of the charted depths. The current surveys MBES DTM should be carefully consulted to update these shallow regions.

One area of significant change is at the Fisher's Island Ferry Warf in New London, CT. At approximately 41°21'10.5" north by 072°05'33.7 west there has been considerable shoreline development which has encroached into New London Harbor. Consult the MBES DTM in this area to locate the bottom edge of the seawall protecting the recently expanded parking lot.

Other specific differences between this survey and current charts are addressed in the DTon, AWOIS, Un-Charted Features and Charted Features appendices of this report.

AWOIS Items and Significant Contacts

There are 52 AWOIS items addressed in this report. Of these three could not be developed by MBES coverage because they were either in water which was too shoal or in a security area where launches could not go. See appendix I-2 for details on these.

Dangers to Navigation

3 potential Dangers to Navigation (DTon) are listed in this report. Two of these are locations which are significantly shoal of the charted soundings in areas where there could be large vessels transiting in the future. One Dton is a wreck or debris shoal of charted soundings but near shore and likely to remain outside of large vessel traffic. None of these contacts are within channels, their direct approaches or anchorage areas. These Dton's were submitted on May 16th, 2006, see appendix 1-1 for details.

Charted Features

Some features were found to significantly differ from the current published charts. See appendix 1-3 for information on these.

Significant Non-Charted Features

Shoals and features which were found but do not appear on the current charts are reported in appendix 1-4.

ADDITIONAL RESULTS

Aids to Navigation and Other Detached Positions

All charted aids to navigation were found to be on station with three exceptions: Chart 13212_1 displays two buoys labeled "Fl Y 4S" south-east of Black Ledge. These buoys are described in appendix I.4.62 and I.4.63 respectively. Neither of these buoys was observed at or near their charted locations during this survey and it is recommended that they be removed from the chart.

In Green Harbor on the west side of the Thames River, nun "2A" appears to be charted to the east-north-east of the position where it was observed. The observed location of this buoy during the survey is described in appendix I.4.40.

Bridges and Overhead Cables

US Route 95 and Amtrak have bridges which span the Thames River at the very northern edge of this survey. Route 95 crosses with two separate spans and Amtrak has one with a drawbridge over the dredged channel. The buttresses of the Amtrak drawbridge appear to be charted

approximately 8 meters east of the location that this survey observed them at. It is recommended that the charts be updated to reflect this change.

Amtrak also crosses the survey area with a swing bridge which provides access to the marina in Shaw Cove. This appears to be charted correctly.

Ferry Routes

New London Harbor supports ferry service to Orient Point, Long Island, and Block Island from Winthrop Cove. The ferry to Fisher's Island leaves from the new development south of City Pier and north of Shaw Cove. Each of these services operate many trips per day adding considerable traffic to the Thames River.

Submarine Cables and Pipelines

A charted sewer outflow is located in the Thames River east of the main channel at a position described in appendix I.2.2. There is 100% MBES coverage over this feature.

A second submerged pipe was charted in the Thames River about 440 meters north-east of Powder Island. This item is described in appendix I.2.44, it slopes gradually upward toward shore to the west. There is full MBES coverage over its eastern 150 meters.

Spanning the main channel 100 meters north of buoy '7' and buoy '8' is a ship degaussing range. This consists of a cable or cables set in a cross-channel dredged trench. There is full MBES coverage of this feature and all contacts are deeper than the surrounding channel. This does not appear to be an obstruction to marine traffic; see appendix I.3.22 for details.

There is also an additional exposed sub-marine cable or pipeline observed by Klein SSS imagery. This item is described in appendix I.4.1 and is unlikely to be navigationally significant.

APPROVAL SHEET

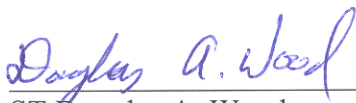
OPR-B370-TJ-05
New London Harbor and Approaches
Survey Registry No: H11441

Field operations for this basic hydrographic survey were conducted under my daily supervision with frequent checks of progress and adequacy. All field sheets, this Descriptive Report, and all accompanying records and data are approved.

This survey is adequate to supersede all prior surveys in common areas, and for application to the relevant NOS nautical charts.

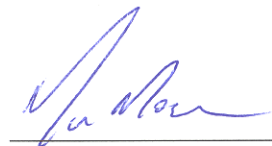
Respectfully,

Submitted:

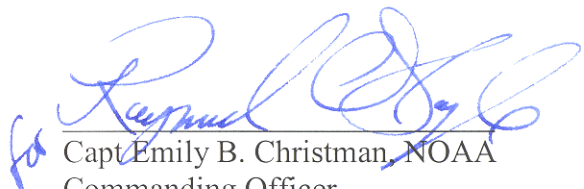


ST Douglas A. Wood
Hydrographer

Approved and Forwarded:



Lt Marc S. Moser, NOAA
Field Operations Officer



Capt Emily B. Christman, NOAA
Commanding Officer

APPENDIX I

ITEM INVESTIGATION REPORTS

Following are item investigation reports detailing four groups of features:

I.1. Dangers to Navigation (DTon)

I.2. Automated Wreck and Obstruction Information System (AWOIS) Items

I.3. Charted Features

I.4. Significant Uncharted Features

Contact Report

Registry Number: H11441
State: Connecticut and New York
Locality: Eastern Long Island Sound
Sub-locality: New London Harbor and Approaches
Project Number: OPR-B370-TJ-05
Survey Dates: 4/27/2005 - 5/22/2005

Charts Affected

Number	Version	Date	Scale
13213	41st Ed.	03/01/2004	1:10000
13212	36th Ed.	03/01/2004	1:20000
13214	27th Ed.	06/01/2002	1:20000
12372	33rd Ed.	08/01/2004	1:40000
12354	41st Ed.	04/01/2004	1:80000
13205	37th Ed.	09/01/2004	1:80000
12300	44th Ed.	07/01/2004	1:400000
13006	32nd Ed.	02/01/2005	1:675000
5161	13th Ed.	10/01/2003	1:1058400
13003	48th Ed.	10/01/2004	1:1200000

Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	DTON 532/34	Rock	6.45 m	041° 17' 52.104" N	72° 02' 27.132" W	---
1.2	DTON 658/106	Rock	6.01 m	041° 17' 55.702" N	72° 05' 38.235" W	---
1.3	DTON 463/200	Obstruction	3.48 m	041° 21' 00.145" N	72° 05' 45.334" W	---
2.1	AWOIS 12177	Rock	[None]	041° 18' 32.787" N	72° 01' 21.846" W	12177
2.2	AWOIS 11885	Sounding	4.57 m	041° 19' 50.841" N	72° 04' 53.364" W	11885
2.3	AWOIS 12143	Shoal	6.49 m	041° 19' 34.743" N	72° 04' 51.523" W	12143
2.4	AWOIS 12164	Rock	4.31 m	041° 17' 43.795" N	72° 05' 25.657" W	12164
2.5	AWOIS 11913	Wreck	17.57 m	041° 15' 56.233" N	72° 05' 17.617" W	11913
2.6	AWOIS 12405	Rock	13.40 m	041° 17' 08.049" N	72° 04' 57.438" W	12405

2.7	AWOIS 12407	Rock	12.28 m	041° 17' 01.101" N	72° 04' 26.390" W	12407
2.8	AWOIS 12408	Rock	2.07 m	041° 18' 19.641" N	72° 04' 37.087" W	12408
2.9	AWOIS 12165	Rock	2.82 m	041° 18' 38.581" N	72° 03' 46.142" W	12165
2.10	AWOIS 12166	Rock	3.96 m	041° 18' 34.945" N	72° 03' 40.791" W	12166
2.11	AWOIS 12170	Rock	4.66 m	041° 18' 48.708" N	72° 02' 28.119" W	12170
2.12	AWOIS 7109	Wreck	15.58 m	041° 17' 07.360" N	72° 02' 11.893" W	7109
2.13	AWOIS 11844	Rock	5.95 m	041° 21' 23.732" N	72° 05' 23.852" W	11844
2.14	AWOIS 12160	Rock	3.98 m	041° 18' 23.282" N	72° 05' 40.697" W	12160
2.15	AWOIS 12176	Rock	6.21 m	041° 18' 22.979" N	72° 01' 29.336" W	12176
2.16	AWOIS 12174	Rock	3.42 m	041° 18' 28.348" N	72° 01' 18.790" W	12174
2.17	AWOIS 12175	Rock	3.69 m	041° 18' 28.603" N	72° 01' 12.028" W	12175
2.18	AWOIS 8346	Sounding	21.36 m	041° 17' 11.835" N	72° 01' 51.347" W	8346
2.19	AWOIS 12167	Rock	4.94 m	041° 19' 38.941" N	72° 04' 51.914" W	12167
2.20	AWOIS 8345	Sounding	16.46 m	041° 17' 06.617" N	72° 01' 54.516" W	8345
2.21	AWOIS 12162	Rock	3.19 m	041° 17' 16.405" N	72° 06' 07.491" W	12162
2.22	AWOIS 12163	Rock	4.36 m	041° 17' 20.804" N	72° 06' 01.377" W	12163
2.23	AWOIS 12161	Rock	4.36 m	041° 17' 24.515" N	72° 05' 57.314" W	12161
2.24	AWOIS 12158	Rock	3.45 m	041° 18' 40.112" N	72° 04' 32.283" W	12158
2.25	AWOIS 11880	Obstruction	4.63 m	041° 19' 53.693" N	72° 05' 24.113" W	11880
2.26	AWOIS 12159	Rock	5.32 m	041° 18' 18.679" N	72° 05' 34.450" W	12159
2.27	AWOIS 12171	Rock	4.47 m	041° 18' 22.070" N	72° 03' 16.316" W	12171
2.28	AWOIS 12406	Rock	13.59 m	041° 17' 05.384" N	72° 04' 56.600" W	12406
2.29	AWOIS 8769	Rock	13.95 m	041° 17' 15.115" N	72° 04' 58.711" W	8769
2.30	AWOIS 8768	Sounding	13.65 m	041° 17' 11.110" N	72° 05' 03.138" W	8768
2.31	AWOIS 8312	Obstruction	13.20 m	041° 17' 15.904" N	72° 05' 10.415" W	8312
2.32	AWOIS 1857	Rock	13.45 m	041° 16' 59.240" N	72° 05' 38.445" W	1857
2.33	AWOIS 1855	Rock	11.37 m	041° 16' 58.276" N	72° 05' 50.760" W	1855
2.34	AWOIS 12404	Rock	12.40 m	041° 17' 14.446" N	72° 05' 40.351" W	12404
2.35	AWOIS 3177	Rock	12.96 m	041° 16' 47.822" N	72° 06' 01.277" W	3177
2.36	AWOIS 12422	Rock	14.60 m	041° 16' 42.408" N	72° 05' 56.950" W	12422
2.37	AWOIS 3178	Rock	13.58 m	041° 16' 41.388" N	72° 06' 11.453" W	3178
2.38	AWOIS 11914	Rock	18.23 m	041° 15' 47.895" N	72° 05' 26.706" W	11914
2.39	AWOIS 11843	Pile	8.82 m	041° 21' 34.748" N	72° 05' 21.730" W	11843
2.40	AWOIS 7073	Rock	6.24 m	041° 17' 17.302" N	72° 02' 33.066" W	7073
2.41	AWOIS 12173	Rock	3.26 m	041° 18' 32.406" N	72° 01' 57.227" W	12173
2.42	AWOIS 6957	Rock	5.22 m	041° 18' 30.608" N	72° 01' 43.411" W	6957

2.43	AWOIS 12169	Rock	5.39 m	041° 18' 46.297" N	72° 02' 20.974" W	12169
2.44	AWOIS 11883	Pipe	6.25 m	041° 20' 29.659" N	72° 05' 14.638" W	11883
2.45	AWOIS 12423	Rock	14.29 m	041° 16' 31.459" N	72° 06' 07.490" W	12423
2.46	AWOIS 11841	AWOIS	[no data]	[no data]	[no data]	---
2.47	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
2.48	AWOIS 1853	Rock	9.95 m	041° 16' 19.188" N	72° 02' 41.550" W	1853
2.49	AWOIS 13001	Rock	14.79 m	041° 17' 00.205" N	72° 05' 55.604" W	13001
2.50	AWOIS 3180	Rock	13.07 m	041° 16' 48.834" N	72° 04' 28.250" W	3180
2.51	AWOIS 12995	Shoal	11.31 m	041° 21' 43.597" N	72° 05' 13.616" W	12995
2.52	AWOIS 13002	Rock	13.03 m	041° 17' 10.656" N	72° 04' 48.408" W	13002
2.53	AWOIS 12420	Rock	9.90 m	041° 18' 02.278" N	72° 04' 18.551" W	12420
2.54	AWOIS 12421	Sounding	10.72 m	041° 17' 53.824" N	72° 04' 14.219" W	12421
2.55	AWOIS 1847	Shoal	18.60 m	041° 15' 57.989" N	72° 05' 34.448" W	1847
2.56	AWOIS 3179	Shoal	13.34 m	041° 17' 00.287" N	72° 04' 33.645" W	3179
3.1	Rock 328_1518_0013	Rock	[None]	041° 16' 02.857" N	72° 01' 27.937" W	---
3.2	157_1243_0001	Rock	[None]	041° 17' 18.272" N	72° 01' 05.098" W	---
3.3	Wreck 685/81	Wreck	21.10 m	041° 17' 12.549" N	72° 01' 46.063" W	---
3.4	Sndg 452/80	Rock	2.04 m	041° 18' 45.906" N	72° 03' 07.128" W	---
3.5	Obstn 1530/53	Rock	16.16 m	041° 16' 31.327" N	72° 03' 49.857" W	---
3.6	Rock 6483/54	Rock	13.59 m	041° 16' 45.868" N	72° 05' 58.692" W	---
3.7	Sndg 472/184	Rock	1.13 m	041° 17' 52.991" N	72° 06' 24.570" W	---
3.8	Dol 155_1930_0007	Pile	[None]	041° 21' 52.852" N	72° 05' 24.805" W	---
3.9	Dol 101_1448_0002	Pile	[None]	041° 20' 07.041" N	72° 04' 55.377" W	---
3.10	Rock 209_1835_0003	Rock	[None]	041° 21' 43.789" N	72° 05' 19.953" W	---
3.11	216_1037_0014	Stationary structure, floating or fixed	[None]	041° 21' 03.165" N	72° 05' 44.360" W	---
3.12	216_1037_0019	Wreck	[None]	041° 20' 54.407" N	72° 05' 45.285" W	---
3.13	Dol 223_1954_0004	Pile	[None]	041° 20' 58.105" N	72° 05' 55.482" W	---
3.14	231_1046_0005	Stationary structure, floating or fixed	[None]	041° 20' 14.014" N	72° 05' 50.097" W	---
3.15	231_1047_0006	Stationary structure, floating or fixed	[None]	041° 20' 00.636" N	72° 05' 44.533" W	---
3.16	231_1047_0008	Stationary structure, floating or fixed	[None]	041° 19' 44.626" N	72° 05' 25.503" W	---
3.17	231_1048_0004	Rock	[None]	041° 19' 14.353" N	72° 05' 17.132" W	---
3.18	234_1800_0005	Stationary structure, floating or fixed	[None]	041° 20' 08.501" N	72° 04' 55.408" W	---
3.19	235_1812_0006	Stationary structure, floating or fixed	[None]	041° 19' 33.051" N	72° 04' 38.345" W	---
3.20	235_1813_0003	Stationary structure, floating or fixed	[None]	041° 20' 11.040" N	72° 04' 52.565" W	---
3.21	235_1813_0001	Stationary structure, floating or fixed	[None]	041° 20' 02.142" N	72° 04' 48.697" W	---
3.22	200_2113_0004	Stationary structure, floating or fixed	[None]	041° 20' 22.834" N	72° 05' 04.098" W	---

3.23	245_2039_0005	Stationary structure, floating or fixed	[None]	041° 21' 38.170" N	72° 05' 25.097" W	---
3.24	Dol 47/101	Pile	2.63 m	041° 20' 05.903" N	72° 04' 54.311" W	---
3.25	Sndg 1202/40	Rock	16.59 m	041° 17' 32.353" N	72° 00' 55.736" W	---
3.26	Rock 306/95	Rock	3.61 m	041° 21' 31.401" N	72° 05' 30.333" W	---
3.27	Buoy 2195/49	Red buoy	4.07 m	041° 20' 01.844" N	72° 05' 28.388" W	---
3.28	Obstn 2445/15	Obstruction	30.29 m	041° 17' 18.234" N	72° 01' 46.098" W	---
3.29	Dol 1030/1	Pile	1.88 m	041° 20' 07.376" N	72° 04' 54.358" W	---
3.30	883/101	Pile	2.94 m	041° 20' 09.421" N	72° 04' 53.921" W	---
3.31	Sndg 1747/4	Rock	4.31 m	041° 17' 24.385" N	72° 06' 12.122" W	---
3.32	Rock 388/7	Rock	2.96 m	041° 18' 40.954" N	72° 03' 45.601" W	---
3.33	901/197	Stationary structure, floating or fixed	3.88 m	041° 21' 11.675" N	72° 05' 29.761" W	---
3.34	Dol 236/1	Pile	8.45 m	041° 20' 10.166" N	72° 04' 55.849" W	---
3.35	Dol 1268/5	Pile	6.09 m	041° 21' 34.909" N	72° 05' 23.056" W	---
3.36	1605/4	Pile	5.06 m	041° 21' 35.125" N	72° 05' 24.443" W	---
3.37	209_1834_0008	Stationary structure, floating or fixed	[None]	041° 21' 26.219" N	72° 05' 05.132" W	---
3.38	108_1835_0015	Stationary structure, floating or fixed	[None]	041° 21' 44.478" N	72° 05' 05.748" W	---
3.39	209_1834_0004	Pile	[None]	041° 21' 11.936" N	72° 05' 04.118" W	---
3.40	Dol 216_1938_0035	Pile	[None]	041° 21' 27.066" N	72° 05' 35.901" W	---
3.41	Black Ledge Lighted Research Buoy	Open buoy	[None]	041° 18' 18.000" N	72° 03' 49.997" W	---
3.42	Vixens Ledge Lighted Research Buoy	Open buoy	[None]	041° 18' 11.999" N	72° 03' 16.999" W	---
3.43	ENC_US4CN21M_#58	Stationary structure, floating or fixed	[None]	041° 18' 54.076" N	72° 03' 48.463" W	---
3.44	ENC_US4CN21M_#33	GP	[None]	041° 18' 48.305" N	72° 05' 32.975" W	---
3.45	ENC_US4CN21M_38	GP	[None]	041° 18' 54.335" N	72° 03' 41.162" W	---
3.46	154_1916_0003	Stationary structure, floating or fixed	[None]	041° 21' 47.429" N	72° 05' 05.438" W	---
3.47	Dol 222/101	Pile	2.36 m	041° 20' 11.394" N	72° 04' 56.014" W	---
3.48	Dol 470/101	Pile	2.21 m	041° 20' 11.968" N	72° 04' 55.152" W	---
3.49	Sndg 1734/12	Rock	2.72 m	041° 18' 44.365" N	72° 05' 24.808" W	---
3.50	Rock 903/109	Rock	1.63 m	041° 20' 13.328" N	72° 05' 44.697" W	---
3.51	Rock 531/113	Rock	0.82 m	041° 20' 17.915" N	72° 05' 43.469" W	---
3.52	A28	GP	0.98 m	041° 18' 27.900" N	72° 01' 28.877" W	---
3.53	A31	Rock	3.49 m	041° 18' 47.974" N	72° 01' 33.042" W	---
3.54	A42	Rock	4.94 m	041° 18' 50.080" N	72° 03' 08.064" W	---
3.55	A46	GP	6.22 m	041° 18' 44.064" N	72° 03' 59.141" W	---
3.56	B120	Rock	-0.89 m	041° 17' 58.564" N	72° 06' 03.499" W	---
3.57	226_1321_0005	Stationary structure, floating or fixed	[None]	041° 20' 41.275" N	72° 05' 27.560" W	---
3.58	226_1321_0006	Stationary structure, floating or fixed	[None]	041° 20' 38.370" N	72° 05' 27.996" W	---

4.1	Cable 126_1924_0002	Pipe	[None]	041° 16' 47.312" N	72° 03' 57.174" W	---
4.2	Rock 245_1847_0016	Rock	[None]	041° 18' 43.770" N	72° 04' 29.862" W	---
4.3	Rock 147_1449_0004	SSS	[None]	041° 15' 39.481" N	72° 01' 57.247" W	---
4.4	Rock 147_1449_0002	Rock	[None]	041° 15' 31.971" N	72° 02' 07.808" W	---
4.5	Obstn 228_2244_0001	SSS	[None]	041° 20' 20.248" N	72° 05' 20.774" W	---
4.6	Rock 252_1858_0004	Rock	[None]	041° 18' 01.097" N	72° 06' 15.857" W	---
4.7	Rock 263_2032_0005	Rock	[None]	041° 17' 45.559" N	72° 05' 41.751" W	---
4.8	Rock 265_2050_0002	Rock	[None]	041° 17' 36.469" N	72° 05' 41.226" W	---
4.9	Rock 294_1550_0001	Rock	[None]	041° 17' 40.039" N	72° 02' 25.999" W	---
4.10	Rock 306_1602_0001	Rock	[None]	041° 18' 01.070" N	72° 01' 43.096" W	---
4.11	Rock 308_1615_0003	Rock	[None]	041° 18' 07.249" N	72° 01' 23.056" W	---
4.12	Rock 321-1342_0004	Rock	[None]	041° 17' 13.087" N	72° 01' 05.133" W	---
4.13	Rock 859_2157_0002	Rock	[None]	041° 18' 19.150" N	72° 05' 24.408" W	---
4.14	Dol 216_1037_0007	Pile	[None]	041° 21' 08.198" N	72° 05' 34.322" W	---
4.15	231_1047_0005	Stationary structure, floating or fixed	[None]	041° 20' 06.508" N	72° 05' 43.052" W	---
4.16	231_1047_0007	Stationary structure, floating or fixed	[None]	041° 19' 51.844" N	72° 05' 31.906" W	---
4.17	Rock 235_1812_0001	Rock	[None]	041° 19' 14.407" N	72° 04' 33.686" W	---
4.18	Rock 235_1812_0005	Rock	[None]	041° 19' 28.398" N	72° 04' 38.034" W	---
4.19	Rock 235_1812_0007	Rock	[None]	041° 19' 38.261" N	72° 04' 40.840" W	---
4.20	243_1740_0001	SSS	[None]	041° 19' 48.130" N	72° 04' 44.210" W	---
4.21	Rock245_1728_0001	Rock	[None]	041° 19' 04.963" N	72° 04' 35.201" W	---
4.22	Rock 253_1117_0012	Rock	[None]	041° 18' 27.050" N	72° 05' 44.921" W	---
4.23	Rock253_1118_0001	Rock	[None]	041° 18' 26.221" N	72° 05' 55.239" W	---
4.24	398/7	Rock	12.24 m	041° 19' 27.175" N	72° 04' 54.639" W	---
4.25	483/16	Rock	17.50 m	041° 16' 13.522" N	72° 03' 57.374" W	---
4.26	Sndg 2485/34	Rock	14.87 m	041° 16' 14.401" N	72° 04' 14.336" W	---
4.27	7749/65	Shoal	19.12 m	041° 16' 05.574" N	72° 04' 57.871" W	---
4.28	Sndg 3706/24	Rock	21.56 m	041° 16' 21.614" N	72° 05' 48.101" W	---
4.29	Sndg 1692/19	Rock	5.76 m	041° 18' 21.298" N	72° 02' 23.557" W	---
4.30	Sndg 8420/53	Rock	4.84 m	041° 20' 06.643" N	72° 05' 18.774" W	---
4.31	Rock 6050/17	Rock	4.53 m	041° 18' 21.011" N	72° 05' 46.091" W	---
4.32	Obstn 5961/92	Obstruction	11.50 m	041° 21' 48.121" N	72° 05' 12.211" W	---
4.33	1174/17	Obstruction	6.04 m	041° 21' 47.880" N	72° 05' 20.853" W	---
4.34	Sndg 17367/16	Shoal	11.08 m	041° 21' 45.513" N	72° 05' 16.838" W	---
4.35	2747/31	Rock	5.35 m	041° 20' 57.860" N	72° 05' 54.668" W	---
4.36	Sndg 348/98	Rock	4.59 m	041° 18' 53.909" N	72° 05' 19.242" W	---

4.37	Rock 16356/8	Rock	2.07 m	041° 18' 41.258" N	72° 05' 33.899" W	---
4.38	Sndg 1707/66	Rock	15.58 m	041° 16' 04.947" N	72° 04' 12.200" W	---
4.39	640/80	Rock	3.33 m	041° 18' 53.192" N	72° 05' 22.320" W	---
4.40	1725/3	Rock	17.64 m	041° 17' 21.579" N	72° 01' 20.732" W	---
4.41	2313/96	Rock	16.91 m	041° 17' 33.062" N	72° 01' 25.177" W	---
4.42	Sndg 972/20	Rock	9.46 m	041° 17' 09.478" N	72° 06' 21.774" W	---
4.43	702/99	Rock	7.16 m	041° 17' 13.880" N	72° 05' 56.815" W	---
4.44	Sndg 215/98	Rock	11.87 m	041° 17' 04.670" N	72° 06' 03.056" W	---
4.45	Sndg 2008/79	Rock	10.15 m	041° 17' 06.339" N	72° 06' 26.297" W	---
4.46	513/96	Rock	8.35 m	041° 18' 20.137" N	72° 01' 26.782" W	---
4.47	338/98	Rock	7.47 m	041° 18' 19.023" N	72° 01' 16.501" W	---
4.48	Sndg 458/101	Rock	8.19 m	041° 17' 44.076" N	72° 02' 35.417" W	---
4.49	Rock 1848/71	Obstruction	9.05 m	041° 20' 40.800" N	72° 05' 30.551" W	---
4.50	Sndg 917/101	Rock	4.70 m	041° 18' 47.576" N	72° 04' 24.182" W	---
4.51	504/1	Rock	5.84 m	041° 18' 16.629" N	72° 01' 11.819" W	---
4.52	Pile 1700/1	Pile	2.17 m	041° 18' 53.025" N	72° 03' 50.982" W	---
4.53	Sndg 412/99	Shoal	2.84 m	041° 16' 44.968" N	72° 00' 57.681" W	---
4.54	Obstn 5315/158	Obstruction	8.18 m	041° 20' 06.047" N	72° 05' 07.696" W	---
4.55	Sndg 684/240	Rock	4.72 m	041° 21' 22.285" N	72° 05' 25.711" W	---
4.56	Wreck 745/192	Wreck	13.83 m	041° 17' 15.864" N	72° 02' 09.710" W	---
4.57	Pile 270/229	Pile	3.64 m	041° 21' 10.060" N	72° 05' 31.232" W	---
4.58	Sndg 504/237	Rock	11.88 m	041° 17' 01.764" N	72° 06' 12.776" W	---
4.59	3967/74	Rock	16.35 m	041° 16' 40.051" N	72° 05' 39.385" W	---
4.60	Pile 1579/240	Pile	8.10 m	041° 20' 37.694" N	72° 05' 01.820" W	---
4.61	Obstn 2271/19	Obstruction	7.94 m	041° 21' 26.000" N	72° 05' 25.175" W	---
4.62	Obstn 2507/87	Obstruction	8.06 m	041° 21' 27.364" N	72° 05' 26.072" W	---
4.63	Obstn 2233/167	Rock	6.32 m	041° 21' 21.133" N	72° 05' 22.781" W	---
4.64	Sndg 329/180	Rock	7.32 m	041° 18' 04.595" N	72° 02' 38.073" W	---
4.65	Sndg 368/74	Rock	6.16 m	041° 18' 14.843" N	72° 01' 25.804" W	---
4.66	4474/7	Bottom Sample	11.50 m	041° 18' 22.135" N	72° 04' 45.197" W	---
4.67	Sndg 381/143	Rock	14.57 m	041° 16' 28.182" N	72° 04' 08.241" W	---
4.68	Obstn 3190/2	Obstruction	5.92 m	041° 20' 13.089" N	72° 05' 16.830" W	---
4.69	Obstn 4013/185	Obstruction	4.95 m	041° 21' 04.460" N	72° 05' 03.255" W	---
4.70	Sndg 372/36	Rock	4.75 m	041° 21' 00.757" N	72° 05' 40.469" W	---
4.71	Dol 421/1	Pile	6.11 m	041° 20' 07.700" N	72° 04' 55.453" W	---
4.72	Sndg 901/235	Rock	6.08 m	041° 21' 21.250" N	72° 05' 24.708" W	---

4.73	Rock 1159/187	Rock	3.02 m	041° 21' 27.720" N	72° 05' 31.579" W	---
4.74	Sndg 583/240	Rock	4.62 m	041° 21' 15.108" N	72° 05' 29.405" W	---
4.75	Rock 325/71	Rock	6.96 m	041° 21' 55.762" N	72° 05' 21.187" W	---
4.76	Buoy 368/198	Open buoy	7.07 m	041° 21' 56.261" N	72° 05' 21.020" W	---
4.77	Sndg 479/39	Rock	6.13 m	041° 18' 09.614" N	72° 03' 27.463" W	---
4.78	Obstn 1285/81	Obstruction	7.78 m	041° 21' 26.338" N	72° 05' 22.981" W	---
4.79	Sndg 317/20	Rock	7.75 m	041° 21' 25.364" N	72° 05' 20.370" W	---
4.80	209_1834_0006	Wreck	[None]	041° 21' 14.418" N	72° 05' 03.512" W	---
4.81	209_1834_0003	Stationary structure, floating or fixed	[None]	041° 21' 06.996" N	72° 05' 01.180" W	---
4.82	209_1834_0007	Pile	[None]	041° 21' 16.635" N	72° 05' 03.709" W	---
4.83	209_1834_0014	Pile	[None]	041° 21' 40.931" N	72° 05' 04.154" W	---
4.84	209_1834_0001	Pile	[None]	041° 21' 07.370" N	72° 05' 02.837" W	---
4.85	290_1834_0010	Pile	[None]	041° 21' 28.124" N	72° 05' 07.016" W	---
4.86	216_1938_0017	Pile	[None]	041° 21' 18.147" N	72° 05' 29.697" W	---
4.87	216_1938_0018	Stationary structure, floating or fixed	[None]	041° 21' 15.508" N	72° 05' 30.216" W	---
4.88	216_1938_0024	Pile	[None]	041° 21' 18.846" N	72° 05' 31.000" W	---
4.89	216_1938_0015	Pile	[None]	041° 21' 19.396" N	72° 05' 29.367" W	---
4.90	216_1938_0016	Pile	[None]	041° 21' 19.581" N	72° 05' 30.272" W	---
4.91	216_1938_0023	Pile	[None]	041° 21' 21.701" N	72° 05' 33.270" W	---
4.92	216_1938_0014	Pile	[None]	041° 21' 20.663" N	72° 05' 29.849" W	---
4.93	26_1938_0013	Pile	[None]	041° 21' 20.800" N	72° 05' 30.887" W	---
4.94	216_1938_0012	Pile	[None]	041° 21' 21.003" N	72° 05' 32.096" W	---
4.95	216_1938_0022	Pile	[None]	041° 21' 21.738" N	72° 05' 32.649" W	---
4.96	216_1938_0036	Pile	[None]	041° 21' 28.082" N	72° 05' 38.251" W	---
4.97	216_1938_0030	Pile	[None]	041° 21' 23.044" N	72° 05' 33.198" W	---
4.98	216_1938_0010	Pile	[None]	041° 21' 22.531" N	72° 05' 32.090" W	---
4.99	216_1938_0011	Pile	[None]	041° 21' 21.788" N	72° 05' 31.870" W	---
4.100	ENC_US4CN21M_#88	Wreck	28.60 m	041° 16' 55.657" N	72° 01' 43.784" W	---
4.101	Dol 1807/101	Pile	0.76 m	041° 21' 08.454" N	72° 05' 32.633" W	---
4.102	Dol 1205/101	Pile	1.06 m	041° 20' 13.530" N	72° 04' 53.041" W	---
4.103	Rock 1593/200	Rock	11.13 m	041° 20' 36.200" N	72° 05' 15.737" W	---
4.104	Sndg 8838/233	Shoal	4.51 m	041° 21' 28.051" N	72° 05' 32.736" W	---
4.105	43/3	Shoal	5.63 m	041° 20' 39.887" N	72° 05' 29.607" W	---
4.106	Sndg 251/101	Rock	4.32 m	041° 19' 17.912" N	72° 04' 38.270" W	---
4.107	777/3	Rock	2.84 m	041° 19' 14.208" N	72° 05' 13.938" W	---
4.108	Dol 220_1341_0002	Stationary structure, floating or fixed	[None]	041° 21' 12.838" N	72° 05' 31.754" W	---

4.109	Dol 220_1341_0001	Pile	[None]	041° 21' 10.502" N	72° 05' 31.676" W	---
4.110	Dol 220_1341_0003	Pile	[None]	041° 21' 10.436" N	72° 05' 32.479" W	---
4.111	Dol 220_1341_0004	Pile	[None]	041° 21' 10.160" N	72° 05' 32.842" W	---
4.112	Dol 220_1341_0006	Pile	[None]	041° 21' 09.834" N	72° 05' 33.198" W	---
4.113	Dol 220_1341_0007	Pile	[None]	041° 21' 08.346" N	72° 05' 33.477" W	---
4.114	Dol 220_1341_0008	Pile	[None]	041° 21' 08.906" N	72° 05' 33.557" W	---
4.115	Dol 220_1341_0009	Pile	[None]	041° 21' 09.118" N	72° 05' 33.595" W	---
4.116	Dol 220_1341_0011	Pile	[None]	041° 21' 08.785" N	72° 05' 34.240" W	---
4.117	Dol 220_1341_0012	Pile	[None]	041° 21' 09.039" N	72° 05' 34.282" W	---
4.118	Dol 220_1341_0013	Pile	[None]	041° 21' 09.347" N	72° 05' 34.320" W	---
4.119	Dol 220_1341_0015	Pile	[None]	041° 21' 09.436" N	72° 05' 33.661" W	---
4.120	Dol 220_1341_0016	Pile	[None]	041° 21' 09.683" N	72° 05' 33.780" W	---
4.121	FA1	Obstruction	7.00 m	041° 20' 30.480" N	72° 04' 59.880" W	---
4.122	FA9	GP	0.83 m	041° 18' 30.960" N	72° 00' 43.560" W	---
4.123	Sndg 826/95	Rock	8.71 m	041° 17' 11.351" N	72° 06' 05.197" W	---
4.124	Rock 4550/1	Rock	7.52 m	041° 18' 51.379" N	72° 05' 07.057" W	---
4.125	Obstn 754/212	Obstruction	4.50 m	041° 20' 50.399" N	72° 05' 19.282" W	---
4.126	Rock 245_1847_0016	Rock	[None]	041° 18' 43.770" N	72° 04' 29.862" W	---

1 - I.1. Dangers to Navigation (DToN)

1.1) Profile/Beam - 532/34 from h11441 / 1014_mb / 2005-136 / 557_1733**DANGER TO NAVIGATION****Survey Summary**

Survey Position: 041° 17' 52.104" N, 72° 02' 27.132" W
Least Depth: 6.45 m
Timestamp: 2005-136.17:34:26.883 (05/16/2005)
Survey Line: h11441 / 1014_mb / 2005-136 / 557_1733
Profile/Beam: 532/34
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock cluster, RESON 8125 shows this to be significantly shoal of nearest reported sounding. This is an area where there is the potential for large ship traffic.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-136/557_1733	532/34	0.00	000.0	Primary
H11224_LIDAR_OK.csv	7	3.01	348.8	Secondary (grouped)
h11441/1005_100/2005-131/291_2116	0002	13.10	200.2	Secondary (grouped)
h11441/1005_100/2005-131/290_2135	0001	13.84	326.5	Secondary (grouped)
h11441/1005_100/2005-131/290_2135	0002	53.38	132.8	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

21ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

3 ½fm (12300_1, 13006_1, 13003_1)

6.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known
 STATUS - 1:permanent
 TECSOU - 3:found by multi-beam
 VALSOU - 6.449 m
 VERDAT - 12:Mean lower low water
 WATLEV - 3:always under water/submerged

1.2) Profile/Beam - 658/106 from h11441 / 1014_mb / 2005-142 / 214_1854

DANGER TO NAVIGATION

Survey Summary

Survey Position: 041° 17' 55.702" N, 72° 05' 38.235" W
Least Depth: 6.01 m
Timestamp: 2005-142.18:55:25.779 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 214_1854
Profile/Beam: 658/106
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, 8125 MBES shows it to be significantly shoal of charted soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/214_1854	658/106	0.00	000.0	Primary
H11224_LIDAR_OK.csv	1	5.36	162.0	Secondary
h11441/1005_100/2005-134/262_2020	0001	14.40	229.0	Secondary

Hydrographer Recommendations

Chart per digital data, consider moving buoy '7' to the east to keep ship traffic clear of this rock.

Cartographically-Rounded Depth (Affected Charts):

19ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

3 ¼fm (12300_1, 13006_1, 13003_1)

6.0m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 STATUS - 1:permanent
 TECSOU - 3:found by multi-beam

VALSOU - 6.008 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

1.3) Profile/Beam - 463/200 from h11441 / 1014_mb / 2005-141 / 169_1541

DANGER TO NAVIGATION

Survey Summary

Survey Position: 041° 21' 00.145" N, 72° 05' 45.334" W
Least Depth: 3.48 m
Timestamp: 2005-141.15:41:55.391 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 169_1541
Profile/Beam: 463/200
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Debris with mast or pile tipped at angle toward shore. Foul area around.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/169_1541	463/200	0.00	000.0	Primary
h11441/1005_100/2005-135/222_1338	0002	3.01	172.3	Secondary
h11441/1005_100/2005-135/216_1037	0015	8.06	009.8	Secondary

Hydrographer Recommendations

Chart obstruction at this location.

Cartographically-Rounded Depth (Affected Charts):

11ft (13213_1, 12372_4, 12354_1, 13205_1)

1 ¾fm (12300_1, 13006_1, 13003_1)

3.5m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 3.485 m

WATLEV - 3:always under water/submerged

2 - I.2. Automated Wreck and Obstruction System (AWOIS) Items

2.1) Contact/Point - 0002/1 from h11441 / 1005_100 / 2005-134 / 315_1715**Primary Feature for AWOIS Item #12177**

Search Position: 041° 18' 32.700" N, 72° 01' 23.300" W
Historical Depth: 1.83 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- 6 FT SOUNDING NOW CHARTED IN POSITION: 41°18'32.7" N 072°01'23.25" W [NAD 83]
[ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 32.787" N, 72° 01' 21.846" W
Least Depth: [None]
Timestamp: 2005-316.01:13:36 (11/12/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 315_1715
Contact/Point: 0002/1
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Horshoe Reef, rocky area as charted. MBES coverage could not safely be acquired directly over this rock.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/315_1715	0002	0.00	000.0	Primary
h11441/1005_100/2005-134/314_1711	0003	3.59	208.5	Secondary
H11224_LIDAR_OK.csv	18	22.72	220.6	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12177	27.82	230.1	Secondary (grouped)

Hydrographer Recommendations

Chart with LiDAR DTM if available.

S-57 Data

[None]

2.2) Profile/Beam - 4977/39 from h11441 / 1005_mb / 2005-117 / 164_1840

Primary Feature for AWOIS Item #11885

Search Position: 041° 19' 50.700" N, 72° 04' 54.100" W
Historical Depth: 4.88 m
Search Radius: 50
Search Technique: S2,MB,DI,SD
Technique Notes: SEARCH 50 M RADIUS AROUND EACH OF THE TWO POSITIONS GIVEN BELOW IN HISTORY

History Notes:

UNKNOWN SOURCE DOCUMENT-- TWO 16 FT SOUNDINGS AT CHARTED WESTERN END OF PIPELINE. SOUNDINGS NOW CHARTED IN POSITIONS: (1) 41°19'50.69" N 072°04'54.14" W (NAD 83) (2) 41°18'48.12" N 072°03'43.83" W (NAD 83) NOT SEEN ON MOST RECENT PRIOR SURVEY. ENTERED 1/9/04 JCM . BP102603/77 -- COE; 18 FT SOUNDING FROM AN ARMY CORPS OF ENGINEERS SURVEY OF THE CHANNEL LEADING TO NEW LONDON HARBOR. ENTERED 1/9/04 JCM .

Survey Summary

Survey Position: 041° 19' 50.841" N, 72° 04' 53.364" W
Least Depth: 4.57 m
Timestamp: 2005-117.18:44:35.512 (04/27/2005)
Survey Line: h11441 / 1005_mb / 2005-117 / 164_1840
Profile/Beam: 4977/39
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Charted sewer line. RESON 8101 MBES datum show pipe discharges to be slightly shoal of charted soundings suggest.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-117/164_1840	4977/39	0.00	000.0	Primary
h11441/1005_100/2005-135/101_1447	0004	5.04	188.5	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 11885	17.73	075.8	Secondary
h11441/1005_100/2005-135/234_1800	0007	22.22	053.0	Secondary
h11441/1005_100/2005-135/242_1538	0002	25.85	088.1	Secondary

h11441/1005_100/2005-135/243_1740	0003	68.17	286.5	Secondary (grouped)
h11441/1005_mb/2005-117/161_1911	596/101	86.84	012.3	Secondary (grouped)

Hydrographer Recommendations

Chart these per data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.5m (5161_1)

S-57 Data

Geo object 1: Pipeline area (PIPARE)

Attributes: CATPIP - 4:sewer

STATUS - 1:permanent

2.3) Profile/Beam - 2404/64 from h11441 / 1005_mb / 2005-117 / 164_1840

Primary Feature for AWOIS Item #12143

Search Position: 041° 19' 34.500" N, 72° 04' 52.300" W
Historical Depth: 5.49 m
Search Radius: 100
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

COE BP-102603/77 -- 18 FT SOUNDING FROM AN ARMY CORPS OF ENGINEERS SURVEY OF THE CHANNEL LEADING NORTH THROUGH NEW LONDON HARBOR. [ENTERED 1/9/04 JCM]

Survey Summary

Survey Position: 041° 19' 34.743" N, 72° 04' 51.523" W
Least Depth: 6.49 m
Timestamp: 2005-117.18:42:30.276 (04/27/2005)
Survey Line: h11441 / 1005_mb / 2005-117 / 164_1840
Profile/Beam: 2404/64
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

No SSS contacts were found in this location. RESON 8101 MBES investigation shows minimum depth within this circle to be equal to surrounding soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-117/164_1840	2404/64	0.00	000.0	Primary
H11224_LIDAR_OK.csv	50	17.05	024.2	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12143	19.63	067.5	Secondary (grouped)

Hydrographer Recommendations

Remove charted shoal per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 STATUS - 1:permanent
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

2.4) Profile/Beam - 4872/101 from h11441 / 1005_mb / 2005-131 / 107_1804

Primary Feature for AWOIS Item #12164

Search Position: 041° 17' 44.300" N, 72° 05' 25.400" W
Historical Depth: 4.88 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 16 FT SOUNDING NOW CHARTED IN POSITION: 41°17'44.28" N 072°05'25.36" W [NAD 83]
[ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 17' 43.795" N, 72° 05' 25.657" W
Least Depth: 4.31 m
Timestamp: 2005-131.18:08:21.611 (05/11/2005)
Survey Line: h11441 / 1005_mb / 2005-131 / 107_1804
Profile/Beam: 4872/101
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Sarah Ledge, at charted location. RESON 8125 MBES shows it to be slightly shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-131/107_1804	4872/101	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12164	16.71	201.0	Secondary
h11441/1005_100/2005-134/266_2100	0001	35.19	345.9	Secondary (grouped)
h11441/1005_100/2005-134/265_2050	0001	43.37	092.1	Secondary (grouped)
h11441/1005_100/2005-131/107_1804	0002	47.61	355.7	Secondary (grouped)
h11441/1005_100/2005-131/107_1804	0001	55.95	316.1	Secondary (grouped)
ChartGPs - ENC US4CN21M	AToN 19	74.05	309.9	Secondary (grouped)
h11441/1005_100/2005-131/106_1812	0001	104.15	263.5	Secondary (grouped)
h11441/1005_100/2005-131/106_1810	0001	119.94	267.4	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

14ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.3m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

2.5) Profile/Beam - 4010/85 from h11441 / 1005_mb / 2005-131 / 937_1652**Primary Feature for AWOIS Item #11913**

Search Position: 041° 15' 56.200" N, 72° 05' 17.700" W
Historical Depth: 15.85 m
Search Radius: 100
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

FE343/90; OPR-B660 -- 200% SIDE SCAN SONAR INDICATES A WRECK IN POSITION 41/15/56.2 NORTH LATITUDE, 072/05/17.7 WEST LONGITUDE (NAD83). DIVER INVESTIGATION YIELDED A LEAST DEPTH OF 16-METERS (52-FOOT DANGEROUS WRECK CHARTED). FOUR OTHER SIGNIFICANT CONTACTS WERE LOCATED IN THE IMMEDIATE VICINITY AND WERE DEVELOPED WITH SINGLE BEAM. (ENTERED 8/03 BY CG)

Survey Summary

Survey Position: 041° 15' 56.233" N, 72° 05' 17.617" W
Least Depth: 17.57 m
Timestamp: 2005-131.16:56:11.320 (05/11/2005)
Survey Line: h11441 / 1005_mb / 2005-131 / 937_1652
Profile/Beam: 4010/85
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Wreck as charted, RESON 8101 MBES shows minimum depth to be deeper than charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-131/937_1652	4010/85	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 11913	2.19	061.8	Secondary
h11441/1005_100/2005-131/937_1652	0001	3.22	217.3	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	45	6.54	069.7	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 86	7.89	240.8	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

57ft (13212_1, 12372_1, 12354_1, 13205_1)

9 ½fm (12300_1, 13006_1, 13003_1)

17.5m (5161_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 1:non-dangerous wreck

TECSOU - 1:found by echo-sounder; 2:found by side scan sonar

VALSOU - 17.567 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.6) Profile/Beam - 9064/30 from h11441 / 1005_mb / 2005-132 / 122_2041**Primary Feature for AWOIS Item #12405**

Search Position: 041° 17' 08.040" N, 72° 04' 56.670" W
Historical Depth: 13.11 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

FE-377/92 -- NOS; 43 FT ROCK IN POSITION: 41°17'08.04" N 072°04'56.76" W [NAD 83] [ENTERED 4/19/04 JCM]

Survey Summary

Survey Position: 041° 17' 08.049" N, 72° 04' 57.438" W
Least Depth: 13.40 m
Timestamp: 2005-132.20:48:29.950 (05/12/2005)
Survey Line: h11441 / 1005_mb / 2005-132 / 122_2041
Profile/Beam: 9064/30
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, RESON 8101 MBES shows it to be at depth and position comparable to the chart.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-132/122_2041	9064/30	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12405	17.92	270.9	Secondary
ChartGPs - ENC US4CN21M	Danger 60	29.26	220.2	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	4	38.30	247.6	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

44ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

7 ¼fm (12300_1, 13006_1, 13003_1)

13.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 13.398 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.7) Profile/Beam - 4083/16 from h11441 / 1005_mb / 2005-132 / 123_2023**Primary Feature for AWOIS Item #12407**

Search Position: 041° 17' 01.470" N, 72° 04' 27.980" W
Historical Depth: 12.19 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

FE-377 (9/8/93) -- 40 FT ROCK IN POSITION: 41°17'01.47" N 072°04'27.98" W [NAD 83] [ENTERED 4/19/04 JCM]

Survey Summary

Survey Position: 041° 17' 01.101" N, 72° 04' 26.390" W
Least Depth: 12.28 m
Timestamp: 2005-132.20:26:56.672 (05/12/2005)
Survey Line: h11441 / 1005_mb / 2005-132 / 123_2023
Profile/Beam: 4083/16
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock RESON 8101 shows it to be comparable to charted depth and location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-132/123_2023	4083/16	0.00	000.0	Primary
h11441/1005_100/2005-132/123_2023	0001	14.65	276.7	Secondary
H11224_LIDAR_ReqFldWrk.csv	6	31.11	125.1	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12407	38.83	107.1	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 62	80.60	168.6	Secondary (grouped)

Hydrographer Recommendations

Retain charted rock.

Cartographically-Rounded Depth (Affected Charts):

40ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

6 ¾fm (12300_1, 13006_1, 13003_1)

12.3m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: OBJNAM - Charted Rock

QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 12.279 m

VERDAT - 2:Mean lower low water springs

WATLEV - 3:always under water/submerged

2.8) Profile/Beam - 2629/7 from h11441 / 1005_mb / 2005-132 / 247_1816

Primary Feature for AWOIS Item #12408

Search Position: 041° 18' 20.230" N, 72° 04' 37.830" W
Historical Depth: 2.13 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H08966 (1968) --7 FT SOUNDING NOW CHARTED IN POSITION: 41°18'20.23 N 072°04'37.83" W [NAD 83]
 [ENTERED 4/19/04 JCM]

Survey Summary

Survey Position: 041° 18' 19.641" N, 72° 04' 37.087" W
Least Depth: 2.07 m
Timestamp: 2005-132.18:17:22.946 (05/12/2005)
Survey Line: h11441 / 1005_mb / 2005-132 / 247_1816
Profile/Beam: 2629/7
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock outcrop immediatly south-east of New London Ledge light. Good MBES coverage of this shoal.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-132/247_1816	2629/7	0.00	000.0	Primary
h11441/1005_100/2005-132/247_1816	0006	24.48	318.7	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 12408	25.15	136.4	Secondary (grouped)
h11441/1005_100/2005-132/244_1835	0010	25.45	251.9	Secondary
h11441/1005_100/2005-132/247_1816	0007	25.61	305.4	Secondary
h11441/1005_100/2005-132/848_1820	0001	33.44	324.3	Secondary (grouped)
h11441/1005_100/2005-132/247_1816	0004	63.52	127.4	Secondary (grouped)
h11441/1005_200/2005-135/200_2115	0001	202.78	108.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

7ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1fm (12300_1, 13006_1, 13003_1)

2.0m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 2.070 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.9) Profile/Beam - 4073/6 from h11441 / 1005_mb / 2005-133 / 279_2104

Primary Feature for AWOIS Item #12165

Search Position: 041° 18' 38.560" N, 72° 03' 46.320" W
Historical Depth: 3.05 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 10 FT SOUNDING FROM A ROCK NOW CHARTED IN POSITION: 41°18'38.56" N 072°03'46.21" W [NAD 83] [ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 18' 38.581" N, 72° 03' 46.142" W
Least Depth: 2.82 m
Timestamp: 2005-133.21:15:14.722 (05/13/2005)
Survey Line: h11441 / 1005_mb / 2005-133 / 279_2104
Profile/Beam: 4073/6
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock cluster as charted but MBES shows it to be slightly shoal of the charted soundings. Found with RESON 8101 and Klein 5000 sss

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-133/279_2104	4073/6	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	15	3.50	073.5	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12165	4.21	081.1	Secondary (grouped)
h11441/1005_100/2005-133/279_2104	0003	50.24	010.4	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

9ft (13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1)

1 ½fm (12300_1, 13006_1, 13003_1)

2.8m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 2.824 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.10) Profile/Beam - 8290/16 from h11441 / 1005_mb / 2005-133 / 280_2043

Primary Feature for AWOIS Item #12166

Search Position: 041° 18' 33.500" N, 72° 03' 43.000" W
Historical Depth: 3.66 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 12 FT SOUNDING NOW CHARTED IN POSITION: 41°18'33.48" N 072°03'42.97" W [NAD 83]
 [ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 18' 34.945" N, 72° 03' 40.791" W
Least Depth: 3.96 m
Timestamp: 2005-133.20:46:39.103 (05/13/2005)
Survey Line: h11441 / 1005_mb / 2005-133 / 280_2043
Profile/Beam: 8290/16
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Charted rock reef which runs south-west of Pine Island. Found with RESON 8125 and Klein 5000, depth reported from MBES show its depth to be comparable to the charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-133/280_2043	8290/16	0.00	000.0	Primary
h11441/1005_100/2005-132/235_1738	0006	45.28	215.5	Secondary (grouped)
h11441/1005_100/2005-133/280_2043	0002	49.23	250.7	Secondary (grouped)
h11441/1005_100/2005-133/279_2104	0002	51.09	224.3	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12166	68.21	049.1	Secondary (grouped)
H11224_LIDAR_OK.csv	30	68.47	052.3	Secondary (grouped)
h11441/1005_100/2005-133/281_2021	0003	85.57	053.6	Secondary (grouped)
h11441/1005_mb/2005-132/235_1738	18503/4	106.66	210.6	Secondary (grouped)

h11441/1005_100/2005-133/280_2043	0003	119.02	245.5	Secondary (grouped)
h11441/1005_mb/2005-139/235_1742	884/3	228.77	230.3	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

13ft (13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1)

2fm (12300_1, 13006_1, 13003_1)

3.9m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 3.963 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.11) Profile/Beam - 7185/15 from h11441 / 1005_mb / 2005-133 / 877_2212**Primary Feature for AWOIS Item #12170**

Search Position: 041° 18' 48.400" N, 72° 02' 29.000" W
Historical Depth: 4.57 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- 15 FT SOUNDING NOW CHARTED IN POSITION: 41°18'48.41" N 072°02'28.96" W [NAD 83]
[ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 48.708" N, 72° 02' 28.119" W
Least Depth: 4.66 m
Timestamp: 2005-133.22:15:51.213 (05/13/2005)
Survey Line: h11441 / 1005_mb / 2005-133 / 877_2212
Profile/Beam: 7185/15
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Cluster of rocks, 8101 MBES shows this to be as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-133/877_2212	7185/15	0.00	000.0	Primary
h11441/1005_100/2005-133/877_2212	0001	22.63	295.9	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 12170	22.66	065.2	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.6m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 4.657 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.12) Profile/Beam - 2306/41 from h11441 / 1005_mb / 2005-134 / 154_1215

Primary Feature for AWOIS Item #7109

Search Position: 041° 17' 07.500" N, 72° 02' 11.950" W
Historical Depth: 12.60 m
Search Radius: 75
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

FE343SS/90--OPR-B660-HE; SIDE SCAN AND DIVER INVESTIGATION LOCATED WHAT IS BELEIVED TO BE THE ITEM IN POS. LAT.41-17-07.5N, LONG.72-02-11.95W WITH A DIVER LEAST DEPTH OF 12.6M (41 FT) MLLW. THREE OTHER WRECK-LIKE OBJECTS WERE DISCOVERED DURING THE INVESTIGATION; SEE AWOIS ITEMS 8345-8347. (UPDATED 8/92 MCR)

Survey Summary

Survey Position: 041° 17' 07.360" N, 72° 02' 11.893" W
Least Depth: 15.58 m
Timestamp: 2005-134.12:17:25.577 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 154_1215
Profile/Beam: 2306/41
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Wreck, RESON 8125 MBES data show that it is significantly deeper than the charted depth and SSS shows that very little remains of this wreck.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/154_1215	2306/41	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 7109	4.52	162.9	Secondary
h11441/1005_100/2005-134/154_1215	0001	19.42	046.3	Secondary (grouped)
h11441/1005_mb/2005-134/154_1215	2046/24	53.88	261.1	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 87	59.06	045.4	Secondary (grouped)
h11441/1005_100/2005-134/121_1225	0001	62.57	262.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data; consider removing this wreck from the chart.

Cartographically-Rounded Depth (Affected Charts):

51ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

8 ½fm (12300_1, 13006_1, 13003_1)

15.6m (5161_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 1:non-dangerous wreck
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 15.579 m
WATLEV - 3:always under water/submerged

2.13) Profile/Beam - 3377/97 from h11441 / 1005_mb / 2005-134 / 215_2314

Primary Feature for AWOIS Item #11844

Search Position: 041° 21' 24.360" N, 72° 05' 23.070" W
Historical Depth: [None]
Search Radius: 50
Search Technique: S2,MB,DI,SD
Technique Notes: ROCK POSITIONS ARE NEAR 30FT CURVE

History Notes:

CL771/59--THE EXISTENCE OF SEVEN ROCKS ARE IN APPROXIMATE NAD 83 POSITION; LAT. 41-21-24.36 N, LONG 072-05-23.07 W. THE DEPTHS OF ROCKS INDICATED WERE FURNISHED BY A STATE PIER REPRESENTATIVE BASED ON AN INVESTIGATION MADE BY NAVY DIVERS. DEPTHS RANGE FROM 22FT TO 34 FT. NM 38/59 WAS FOUND INSCRIBED ON CL771/59. NM38/59--A FIELD INSPECTION BY THE CGS SHOWS SUBMERGED ROCKS COVERED BY 22 FEET AT M.L.W. ABOUT 385 YARDS 152 DEGREES FROM THE TANK. LAT. 41 21 35N, LONG. 72 05 31.5W (NAD 27) ENTERED RFE 04/03

Survey Summary

Survey Position: 041° 21' 23.732" N, 72° 05' 23.852" W
Least Depth: 5.95 m
Timestamp: 2005-134.23:15:54.070 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 215_2314
Profile/Beam: 3377/97
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock, This area between the enterances of State Pier and Long Dock is full of debris and rocks. Some rocks significantly shoal of the charted depth. There is complete MBES coverage of this rocky patch.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/215_2314	3377/97	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1938	0004	2.90	061.2	Secondary (grouped)
h11441/1005_100/2005-135/219_1353	0001	7.67	068.5	Secondary (grouped)
h11441/1005_100/2005-134/215_2314	0004	11.25	346.6	Secondary (grouped)
h11441/1005_mb/2005-140/002_1751	869/17	12.59	168.2	Secondary (grouped)

h11441/1005_mb/2005-140/002_1751	1021/11	14.91	113.0	Secondary (grouped)
h11441/1014_mb/2005-130/291_2319	940/176	18.34	267.8	Secondary (grouped)
h11441/1005_100/2005-135/216_1938	0006	19.99	131.8	Secondary (grouped)
h11441/1005_100/2005-135/216_1938	0005	21.10	265.9	Secondary (grouped)
h11441/1005_mb/2005-140/002_1751	924/57	21.32	144.1	Secondary (grouped)
h11441/1005_100/2005-134/214_2312	0004	21.34	253.0	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 11844	26.65	223.2	Secondary (grouped)
h11441/1014_mb/2005-130/292_2320	317/82	29.17	354.4	Secondary (grouped)
h11441/1014_mb/2005-142/100_2020	1378/4	29.82	329.1	Secondary (grouped)
h11441/1005_mb/2005-135/216_1938	147/89	33.53	190.0	Secondary
h11441/1014_mb/2005-135/414_1025	1370/124	33.56	190.7	Secondary (grouped)
h11441/1014_mb/2005-135/414_1025	1370/147	34.42	192.8	Secondary (grouped)
h11441/1014_mb/2005-142/100_2020	1352/4	36.41	330.4	Secondary (grouped)
h11441/1014_mb/2005-135/191_1122	1900/213	37.44	244.8	Secondary (grouped)
h11441/1014_mb/2005-135/191_1122	1874/237	45.14	251.0	Secondary (grouped)
h11441/1014_mb/2005-135/191_1122	1761/231	51.53	277.3	Secondary (grouped)
h11441/1005_mb/2005-134/215_2314	2782/88	53.11	157.3	Secondary (grouped)
h11441/1005_mb/2005-134/215_2314	2778/76	54.35	163.4	Secondary (grouped)
h11441/1005_100/2005-134/214_2312	0003	56.35	154.8	Secondary (grouped)
h11441/1014_mb/2005-135/414_1025	1551/156	57.03	174.4	Secondary (grouped)
h11441/1005_100/2005-134/215_2314	0008	61.85	153.3	Secondary (grouped)
h11441/1014_mb/2005-135/191_1122	2271/21	76.71	156.5	Secondary (grouped)
h11441/1005_100/2005-134/215_2314	0009	87.62	152.2	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 5.952 m

VERDAT - 12:Mean lower low water

2.14) Profile/Beam - 4737/3 from h11441 / 1005_mb / 2005-134 / 255_2211

Primary Feature for AWOIS Item #12160

Search Position: 041° 18' 24.800" N, 72° 05' 39.900" W
Historical Depth: 4.27 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 14 FT SOUNDING NOW CHARTED IN POSITION: 41°18'24.78" N 072°05'39.85" W [NAD 83]
[ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 18' 23.282" N, 72° 05' 40.697" W
Least Depth: 3.98 m
Timestamp: 2005-134.22:13:53.391 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 255_2211
Profile/Beam: 4737/3
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock outcrop, depth comparable to reported sounding. RESON 8101 MBES echosounder shows that this outcrop is most shoal on its south-west corner.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/255_2211	4737/3	0.00	000.0	Primary
h11441/1005_100/2005-134/255_2211	0003	23.61	270.4	Secondary (grouped)
h11441/1005_100/2005-134/252_1857	0002	31.90	297.7	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12160	50.48	201.6	Secondary (grouped)
h11441/1005_100/2005-134/256a2206	0001	51.47	016.9	Secondary (grouped)
h11441/1005_mb/2005-140/460_1444	285/7	70.34	207.2	Secondary (grouped)
h11441/1005_mb/2005-141/386_1713	646/81	79.27	021.6	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

13ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2fm (12300_1, 13006_1, 13003_1)

4.0m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 3.976 m
WATLEV - 3:always under water/submerged

2.15) Profile/Beam - 1988/96 from h11441 / 1005_mb / 2005-134 / 313_1650

Primary Feature for AWOIS Item #12176

Search Position: 041° 18' 25.200" N, 72° 01' 29.800" W
Historical Depth: [None]
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- ROCK AWASH AT MLLW. NOW CHARTED IN POSITION: 41°18'25.2" N 072°01'29.78" W [NAD 83] [ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 22.979" N, 72° 01' 29.336" W
Least Depth: 6.21 m
Timestamp: 2005-134.16:51:04.621 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 313_1650
Profile/Beam: 1988/96
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Horshoe Reef, rocky shoal extends to the south beyond what is described by the chart.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/313_1650	1988/96	0.00	000.0	Primary
h11441/1005_100/2005-132/311_1649	0007	5.13	277.1	Secondary (grouped)
h11441/1005_100/2005-134/313_1650	0002	11.89	073.0	Secondary (grouped)
h11441/1005_100/2005-132/311_1649	0006	51.79	032.2	Secondary (grouped)
h11441/1005_100/2005-134/313_1650	0001	59.40	079.5	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12176	69.52	171.0	Secondary (grouped)
H11224_LIDAR_OK.csv	16	72.52	171.9	Secondary (grouped)
h11441/1005_100/2005-134/312_1805	0001	85.10	136.6	Secondary (grouped)

Hydrographer Recommendations

Adjust the charted contour lines per digital data.

Cartographically-Rounded Depth (Affected Charts):

20ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

3 ¼fm (12300_1, 13006_1, 13003_1)

6.2m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 6.212 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.16) Profile/Beam - 1527/100 from h11441 / 1005_mb / 2005-134 / 314_1711

Primary Feature for AWOIS Item #12174

Search Position: 041° 18' 28.200" N, 72° 01' 18.700" W
Historical Depth: 4.27 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- 14 FT SOUNDING NOW CHARTED IN POSITION: 41°18'28.21" N 072°01'18.69" W [NAD 83]
[ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 28.348" N, 72° 01' 18.790" W
Least Depth: 3.42 m
Timestamp: 2005-134.17:11:49.018 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 314_1711
Profile/Beam: 1527/100
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock outcrop, MBES data show depth to be comparable to reported LIDAR, but both are significantly shall of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/314_1711	1527/100	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12174	5.03	335.2	Secondary
H11224_LIDAR_OK.csv	13	8.17	028.8	Secondary (grouped)
h11441/1005_100/2005-134/314_1711	0002	23.40	296.0	Secondary
H11224_LIDAR_OK.csv	14	131.82	209.7	Secondary (grouped)
h11441/1005_100/2005-134/915_1719	0001	262.55	162.3	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

11ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

1 ¾fm (12300_1, 13006_1, 13003_1)

3.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 3.424 m

VERDAT - 12:Mean lower low water

2.17) Profile/Beam - 3192/8 from h11441 / 1005_mb / 2005-134 / 314_1711

Primary Feature for AWOIS Item #12175

Search Position: 041° 18' 29.000" N, 72° 01' 11.600" W
Historical Depth: 3.96 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- 13 FT SOUNDING NOW CHARTED IN POSITION: 41°18'28.97" N 072°01'11.56" W [NAD 83]
 [ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 28.603" N, 72° 01' 12.028" W
Least Depth: 3.69 m
Timestamp: 2005-134.17:12:30.894 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 314_1711
Profile/Beam: 3192/8
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky shoal, as charted

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/314_1711	3192/8	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12175	15.84	219.1	Secondary
h11441/1005_100/2005-134/314_1711	0001	24.86	164.1	Secondary (grouped)
H11224_LIDAR_OK.csv	12	90.78	264.1	Secondary (grouped)
h11441/1014_mb/2005-137/602_1810	49/12	90.94	269.2	Secondary (grouped)
H11224_LIDAR_OK.csv	99	127.89	237.7	Secondary (grouped)
H11224_LIDAR_OK.csv	15	547.37	198.8	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

12ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

2fm (12300_1, 13006_1, 13003_1)

3.7m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 3.686 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.18) Profile/Beam - 354/95 from h11441 / 1005_mb / 2005-134 / 921_1227**Primary Feature for AWOIS Item #8346**

Search Position: 041° 17' 11.720" N, 72° 01' 51.350" W
Historical Depth: 22.80 m
Search Radius: 75
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

FE343SS/90--OPR-B660-HE; UNCHARTED WRECK DISCOVERED IN POS. LAT.41-17-11.72N, LONG.72-01-51.35 (NAD 83) WITH 22.8 M (MLLW) DEPTH OBTAINED ON IT. ITEM APPEARS TO BE A BARGE. (UPDATED 8/92 MCR)

Survey Summary

Survey Position: 041° 17' 11.835" N, 72° 01' 51.347" W
Least Depth: 21.36 m
Timestamp: 2005-134.12:28:15.499 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 921_1227
Profile/Beam: 354/95
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Wreck, 8125 MBES data show this to be slightly Shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/921_1227	354/95	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 8346	3.57	001.2	Secondary
h11441/1005_100/2005-134/921_1227	0001	17.61	147.9	Secondary

Hydrographer Recommendations

Retain wreck, chart depth per digital data.

Cartographically-Rounded Depth (Affected Charts):

70ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

11fm (12300_1, 13006_1, 13003_1)

21m (5161_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 1:non-dangerous wreck

STATUS - 1:permanent

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 21.356 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.19) Profile/Beam - 10776/6 from h11441 / 1005_mb / 2005-135 / 242_1538

Primary Feature for AWOIS Item #12167

Search Position: 041° 19' 38.700" N, 72° 04' 51.100" W
Historical Depth: 5.49 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8935/67 -- 18 FT SOUNDING NOW CHARTED IN POSITION: 41°19'38.74" N 072°04'51.08" W [NAD 83]
 [ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 19' 38.941" N, 72° 04' 51.914" W
Least Depth: 4.94 m
Timestamp: 2005-135.15:44:04.952 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 242_1538
Profile/Beam: 10776/6
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock cluster, slightly shoal and to the east of charted contact.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/242_1538	10776/6	0.00	000.0	Primary
h11441/1005_100/2005-135/242_1538	0001	2.28	150.7	Secondary (grouped)
h11441/1005_mb/2005-117/165_1833	5262/98	3.11	089.9	Secondary (grouped)
H11224_LIDAR_OK.csv	51	4.68	007.9	Secondary (grouped)
h11441/1005_100/2005-135/101_1447	0003	6.11	258.9	Secondary (grouped)
h11441/1005_mb/2005-137/402_1138	1097/97	9.63	293.8	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12167	20.41	291.4	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

16ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¾fm (12300_1, 13006_1, 13003_1)

4.9m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 4.940 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.20) Profile/Beam - 1878/7 from h11441 / 1005_mb / 2005-137 / 272_1743**Primary Feature for AWOIS Item #8345**

Search Position: 041° 17' 06.580" N, 72° 01' 54.380" W
Historical Depth: 16.90 m
Search Radius: 75
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

FE343SS/90--OPR-B660-HE; UNCHARTED WRECK DISCOVERED IN POS. LAT.41-17-06.58N, LONG.72-01-54.38W (NAD 83) WITH A DIVER LEAST DEPTH OF 16.9M (55 FT). A SHOALER DEPTH OF 16M (52 FT) WAS FOUND ON THE RECORDS DURING OFFICE PROCESSING. (ENTERED 8/92 MCR)

Survey Summary

Survey Position: 041° 17' 06.617" N, 72° 01' 54.516" W
Least Depth: 16.46 m
Timestamp: 2005-137.17:48:01.741 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 272_1743
Profile/Beam: 1878/7
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Wreck, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/272_1743	1878/7	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 8345	3.38	289.8	Secondary
h11441/1005_100/2005-134/121_1204	0002	16.16	289.2	Secondary

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

54ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

9fm (12300_1, 13006_1, 13003_1)

16.4m (5161_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 1:non-dangerous wreck
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 16.456 m
WATLEV - 3:always under water/submerged

2.21) Profile/Beam - 3225/4 from h11441 / 1005_mb / 2005-138 / 191_2041

Primary Feature for AWOIS Item #12162

Search Position: 041° 17' 17.100" N, 72° 06' 07.200" W
Historical Depth: 3.35 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 11 FT SOUNDING FROM A ROCK ("RAPID ROCK") NOW CHARTED IN POSITION:
 41°17'17.13" N 072°06'07.18" W [NAD 83] [ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 17' 16.405" N, 72° 06' 07.491" W
Least Depth: 3.19 m
Timestamp: 2005-138.20:43:57.988 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 191_2041
Profile/Beam: 3225/4
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rapid Rock, RESON 8101 shows its depth and location to be comparable to charted soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/191_2041	3225/4	0.00	000.0	Primary
h11441/1005_100/2005-132/922_2056	0006	8.03	323.4	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12162	22.53	197.5	Secondary (grouped)
ChartGPs - ENC US4CN21M	AToN 16	36.36	281.0	Secondary (grouped)
h11441/1005_100/2005-134/267_2109	0001	47.33	349.8	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

10ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1 ¾fm (12300_1, 13006_1, 13003_1)

3.2m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 3.192 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.22) Profile/Beam - 539/4 from h11441 / 1005_mb / 2005-138 / 195_2027

Primary Feature for AWOIS Item #12163

Search Position: 041° 17' 20.200" N, 72° 06' 02.500" W
Historical Depth: 4.88 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 16 FT SOUNDING NOW CHARTED IN POSITION: 41°17'20.21" N 072°06'02.5" W [NAD 83]
 [ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 17' 20.804" N, 72° 06' 01.377" W
Least Depth: 4.36 m
Timestamp: 2005-138.20:28:04.476 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 195_2027
Profile/Beam: 539/4
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, RESON 8101 MBES shows it to be slightly shoal of charted description.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/195_2027	539/4	0.00	000.0	Primary
H11224_LIDAR_OK.csv	5	14.73	236.7	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 12163	32.18	054.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

14ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.3m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 4.359 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.23) Profile/Beam - 904/78 from h11441 / 1005_mb / 2005-138 / 602_1911

Primary Feature for AWOIS Item #12161

Search Position: 041° 17' 24.900" N, 72° 05' 56.700" W
Historical Depth: 4.88 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 16 FT SOUNDING NOW CHARTED IN POSITION: 41°17'24.88" N 072°05'56.74" W [NAD 83]
[ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 17' 24.515" N, 72° 05' 57.314" W
Least Depth: 4.36 m
Timestamp: 2005-138.19:11:49.299 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 602_1911
Profile/Beam: 904/78
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, slightly shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/602_1911	904/78	0.00	000.0	Primary
h11441/1005_100/2005-134/267_2109	0002	10.28	046.2	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12161	18.63	230.2	Secondary (grouped)
h11441/1005_100/2005-134/266_2100	0003	19.50	276.2	Secondary (grouped)
H11224_LIDAR_OK.csv	4	20.84	245.0	Secondary (grouped)
H11225_LIDAR_OK.csv	84	20.84	245.0	Secondary (grouped)
H11225_LIDAR_TestArea.csv	59	22.25	253.4	Secondary (grouped)
h11441/1005_mb/2005-138/601_1908	940/97	80.15	271.8	Secondary (grouped)
h11441/1005_100/2005-134/267_2109	0003	113.91	251.8	Secondary (grouped)

h11441/1005_mb/2005-138/600_1940	326/100	158.00	239.9	Secondary (grouped)
H11224_LIDAR_OK.csv	3	158.34	240.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

14ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.3m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 4.359 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.24) Profile/Beam - 886/94 from h11441 / 1005_mb / 2005-139 / 327_1856

Primary Feature for AWOIS Item #12158

Search Position: 041° 18' 39.900" N, 72° 04' 32.500" W
Historical Depth: 3.66 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 12 FT SOUNDING NOW CHARTED IN POSITION: 41°18'39.95" N 072°04'32.53" W [NAD 83]
 [ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 18' 40.112" N, 72° 04' 32.283" W
Least Depth: 3.45 m
Timestamp: 2005-139.18:56:54.620 (05/19/2005)
Survey Line: h11441 / 1005_mb / 2005-139 / 327_1856
Profile/Beam: 886/94
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, 'Frank Ledge', RESON 8101 shows it to be slightly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-139/327_1856	886/94	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12158	8.29	037.6	Secondary (grouped)
h11441/1005_100/2005-132/245_1847	0014	10.31	348.9	Secondary (grouped)
h11441/1005_100/2005-132/244_1835	0018	36.36	160.2	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

11ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1 ¾fm (12300_1, 13006_1, 13003_1)

3.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 3.450 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.25) Profile/Beam - 1068/32 from h11441 / 1005_mb / 2005-140 / 040_1609**Primary Feature for AWOIS Item #11880**

Search Position: 041° 19' 53.400" N, 72° 05' 25.370" W
Historical Depth: [None]
Search Radius: 100
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

LN17/88--CGD1, 04/27/88; A 35FT WHITE HULL/BLUE BOTTOM BOAT HAS BEEN REPORTED SUNK IN POSITION LAT. 41-19- 53.1 , LONG. 072-05-27.1 (NAD 27) AND HAS BEEN MARKED WITH A TEMPORARY WRECK BUOY. ENTERED RFE 06/03.

Survey Summary

Survey Position: 041° 19' 53.693" N, 72° 05' 24.113" W
Least Depth: 4.63 m
Timestamp: 2005-140.16:10:13.604 (05/20/2005)
Survey Line: h11441 / 1005_mb / 2005-140 / 040_1609
Profile/Beam: 1068/32
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

35 foot wreck as reported was Not found within this AWOIS circle. Small, scattered debris were found; none significant to navigation.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-140/040_1609	1068/32	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	21	28.34	082.7	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 11880	30.70	072.9	Secondary (grouped)
h11441/1005_mb/2005-140/043_1555	1719/96	95.72	011.0	Secondary (grouped)

Hydrographer Recommendations

Disproven. Chart area per digital data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.6m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: QUASOU - 1:depth known

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 4.635 m

2.26) Profile/Beam - 1113/16 from h11441 / 1005_mb / 2005-141 / 393_1728**Primary Feature for AWOIS Item #12159**

Search Position: 041° 18' 18.500" N, 72° 05' 34.500" W
Historical Depth: 5.49 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8996/68 -- 18 FT SOUNDING FROM A ROCK NOW CHARTED IN POSITION: 41°18'18.5" N 072°05'34.53" W [NAD 83] [ENTERED 1/15/04 JCM]

Survey Summary

Survey Position: 041° 18' 18.679" N, 72° 05' 34.450" W
Least Depth: 5.32 m
Timestamp: 2005-141.17:29:26.567 (05/21/2005)
Survey Line: h11441 / 1005_mb / 2005-141 / 393_1728
Profile/Beam: 1113/16
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, as charted

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-141/393_1728	1113/16	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12159	5.65	012.0	Secondary
h11441/1005_100/2005-134/257_2202	0001	14.12	289.1	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 63	42.78	275.6	Secondary (grouped)
h11441/1005_mb/2005-141/392_1721	631/29	66.65	016.6	Secondary (grouped)
h11441/1005_100/2005-134/859_2157	0001	121.50	012.7	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

17ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¾fm (12300_1, 13006_1, 13003_1)

5.3m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 5.321 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.27) Profile/Beam - 305/215 from h11441 / 1014_mb / 2005-131 / 637_1051

Primary Feature for AWOIS Item #12171

Search Position: 041° 18' 21.400" N, 72° 03' 15.000" W
Historical Depth: 4.27 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- 14 FT SOUNDING FROM A ROCK NOW CHARTED IN POSITION: 41°18'21.42" N 072°03'14.98" W [NAD 83] [ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 22.070" N, 72° 03' 16.316" W
Least Depth: 4.47 m
Timestamp: 2005-131.10:51:38.305 (05/11/2005)
Survey Line: h11441 / 1014_mb / 2005-131 / 637_1051
Profile/Beam: 305/215
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock cluster, This contact is the shoalest point and is comparable to the charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-131/637_1051	305/215	0.00	000.0	Primary
h11441/1005_100/2005-133/283_1952	0001	13.19	309.5	Secondary (grouped)
h11441/1005_100/2005-132/283_1636	0003	23.97	341.0	Secondary (grouped)
h11441/1005_100/2005-132/283_1636	0002	29.49	096.6	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12171	37.04	304.0	Secondary (grouped)
h11441/1005_100/2005-133/283_1952	0002	41.95	103.4	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

14ft (13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 4.466 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.28) Profile/Beam - 951/218 from h11441 / 1014_mb / 2005-133 / 328_1134

Primary Feature for AWOIS Item #12406

Search Position: 041° 17' 04.830" N, 72° 04' 55.270" W
Historical Depth: 13.41 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

FE-377 (9/8/93) -- 44 FT ROCK IN POSITION: 41°17'04.83" N 072°04'55.27" W [NAD 83] [ENTERED 4/19/04 JCM]

Survey Summary

Survey Position: 041° 17' 05.384" N, 72° 04' 56.600" W
Least Depth: 13.59 m
Timestamp: 2005-133.11:35:34.485 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 328_1134
Profile/Beam: 951/218
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock or obstruction. RESON 8125 MBES shows it to be at a depth comparable to the charted sounding. The shoalest part of this rock is slightly west of the charted position.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/328_1134	951/218	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12406	35.46	298.9	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	5	49.59	273.7	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

44ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

7 ¼fm (12300_1, 13006_1, 13003_1)

13.6m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 13.585 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.29) Profile/Beam - 1821/180 from h11441 / 1014_mb / 2005-133 / 329_1141

Primary Feature for AWOIS Item #8769

Search Position: 041° 17' 15.500" N, 72° 04' 59.000" W
Historical Depth: [None]
Search Radius: 75
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

FE377SS/92--OPR-B660-RU; AN UNKNOWN OBSTRUCTION WAS FOUND ON SONARGRAMS IN POS. LAT.41-17-15.50N, LONG.72-04-59W (NAD 83) WITH AN ESTIMATED DEPTH OF 13.2M (43FT) IN SURROUNDING DEPTHS OF 48-49FT. EVALUATOR RECOMMENDS ADDITIONAL WORK TO RESOLVE THIS CONTACT. (ENTERED 9/93 MCR)

Survey Summary

Survey Position: 041° 17' 15.115" N, 72° 04' 58.711" W
Least Depth: 13.95 m
Timestamp: 2005-133.11:44:44.519 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 329_1141
Profile/Beam: 1821/180
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, at reported obstruction.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/329_1141	1821/180	0.00	000.0	Primary
h11441/1005_100/2005-132/120_2115	0002	1.57	346.5	Secondary (grouped)
h11441/1005_100/2005-132/922_2055	0001	4.37	100.8	Secondary (grouped)
h11441/1005_100/2005-131/104_1852	0001	7.14	012.9	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 8769	13.67	150.5	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	2	21.43	150.8	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data Delete Obstrn rep (1992).

Cartographically-Rounded Depth (Affected Charts):

46ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

7 ½fm (12300_1, 13006_1, 13003_1)

13.9m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 2:depth unknown

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 13.945 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.30) Profile/Beam - 1493/21 from h11441 / 1014_mb / 2005-133 / 331_1150

Primary Feature for AWOIS Item #8768

Search Position: 041° 17' 11.140" N, 72° 05' 03.340" W
Historical Depth: 13.50 m
Search Radius: 75
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

FE377SS/92--OPR-B660-RU; DURING THE SEARCH FOR THE NOW DISPROVED, LAZY DAYS (AWOIS 1858), SIDE SCAN SONAR LOCATED AN OBJECT WHICH DIVERS REVEALED TO BE A STEEL BEAM WITH A LEAST DEPTH OF 13.5M (44.3FT) IN POS. LAT.41-17-11.14N, LONG.72-05-03.34W (NAD 83). THE OBJECT WAS TWO 30 INCH CHANNEL IRONS SEPERATED APPROX. 40 IN. BY 1/4 INCH LACING BARS. ENTIRE BEAM WAS 20 FT LONG, LYING IN A NORTH/SOUTH DIRECTION. EVAL. RECOMMENDS TO CHART AS REPORTED. (ENTERED 9/92 MCR)

Survey Summary

Survey Position: 041° 17' 11.110" N, 72° 05' 03.138" W
Least Depth: 13.65 m
Timestamp: 2005-133.11:52:55.361 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 331_1150
Profile/Beam: 1493/21
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock or obstruction, RESON 8125 MBES shows it to be approximatly equal to the charted depth and position.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/331_1150	1493/21	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 8768	4.81	101.2	Secondary
h11441/1005_100/2005-132/922_2055	0002	8.58	033.3	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	3	12.01	138.3	Secondary (grouped)

Hydrographer Recommendations

Retain per digital data.

Cartographically-Rounded Depth (Affected Charts):

45ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

7 ½fm (12300_1, 13006_1, 13003_1)

13.6m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 13.645 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.31) Profile/Beam - 1682/182 from h11441 / 1014_mb / 2005-133 / 335_1209

Primary Feature for AWOIS Item #8312

Search Position: 041° 17' 15.820" N, 72° 05' 10.370" W

Historical Depth: [None]

Search Radius: 50

Search Technique: S2,MB,DI,SD

Technique Notes: [None]

History Notes:

FE345SS/90--OPR-B660-HE; UNIDENTIFIED OBSTRUCTION SHOWN ON SONARGRAMS OBTAINED DURING THE INVESTIGATION OF AWOIS 1858 (36 FT, WRECK, LAZY DAYS). ESTIMATED DEPTH ON CONTACT IS 11.6M (MLLW) AS DETERMINED FROM SIDE SCAN RECORDS. POSITION COMPUTED USING OFFSET FROM VESSEL TRACK IS LAT.41-17-16.2N, LONG.72-05-11.31W (NAD 83). (ENTERED 6/82 MCR) FE377SS/92--OPR-B660-RU; A 200% SIDE SCAN SONAR INVEST. TO A 100M RADIUS WITH DIVER INVESTIGATION REVEALED A PILE OF FOUR LARGE SPOOLS OF STEEL CABLE. SPOOLS WERE APPROX. 4FT IN DIAM. AND 5FT WIDE WITH ONE OF THE SPOOLS BROKEN WITH ITS WIRE STREWN NORTHWARD APPROX. 30FT. LEAST DEPTH ON THE SPOOLS WAS 12.8M (42FT) IN POS. LAT.41-17-15.82N, LONG.72-05-10.37W (NAD 83). EVAL/HYDROG. RECOMMEND TO CHART AN OBSTR. AT THE GIVEN POS. (UPDATED 9/93 MCR)

Survey Summary

Survey Position: 041° 17' 15.904" N, 72° 05' 10.415" W

Least Depth: 13.20 m

Timestamp: 2005-133.12:12:18.483 (05/13/2005)

Survey Line: h11441 / 1014_mb / 2005-133 / 335_1209

Profile/Beam: 1682/182

Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

'Obstn' as charted. Klein 5000 SSS imagery and 8125 MBES show a group of items which concur with the historical description of 4 large spools of wire.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/335_1209	1682/182	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 8312	2.80	337.7	Secondary (grouped)
h11441/1005_100/2005-131/105_1826	0001	3.86	152.2	Secondary (grouped)

h11441/1005_100/2005-132/120_2115	0001	5.39	311.4	Secondary (grouped)
h11441/1005_100/2005-132/922_2055	0003	6.38	059.7	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	1	19.70	212.7	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 5	39.18	175.8	Secondary (grouped)

Hydrographer Recommendations

retain as charted.

Cartographically-Rounded Depth (Affected Charts):

43ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

7 ¼fm (12300_1, 13006_1, 13003_1)

13.2m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: QUASOU - 1:depth known

TECSOU - 3:found by multi-beam

VALSOU - 13.200 m

2.32) Profile/Beam - 599/124 from h11441 / 1014_mb / 2005-133 / 350_1441

Primary Feature for AWOIS Item #1857

Search Position: 041° 17' 00.350" N, 72° 05' 38.270" W
Historical Depth: [None]
Search Radius: 0
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

NM 35/17--BUOY ESTABLISHED TO MARK SIGNALING APPARATUS. CL321/18--CGS; PRELIMINARY BOAT SHEET DATA; OBSTRUCTION AND 34 FT. SOUNDING CHARTED. CL60/19--CGS; FINAL WIRE DRAG DATA; REVISED TO 32 FT. OBSTRUCTION. CL388/27--USN HYDROGRAPHIC OFFICE; SEARCH FAILED TO LOCATE TRIPOD; BELIEVES IT NO LONGER EXISTS; DELETION RECOMMENDED. DESCRIPTION 24 NO.8654; SUNK 1919; POSITION ACCURACY WITHIN 1 MILE; REPORTED SALVAGED (SOURCE UNK)

Survey Summary

Survey Position: 041° 16' 59.240" N, 72° 05' 38.445" W
Least Depth: 13.45 m
Timestamp: 2005-133.14:42:29.754 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 350_1441
Profile/Beam: 599/124
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock RESON 8125 MBES echosounder shows this rock to be in the position and depth that it's charted at.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/350_1441	599/124	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	49	7.76	071.4	Secondary (grouped)
h11441/1005_100/2005-132/124_2009	0003	9.93	280.3	Secondary
h11441/1005_100/2005-132/124_2009	0011	15.19	081.1	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 1857	34.57	186.8	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 59	77.81	209.6	Secondary (grouped)

h11441/1005_100/2005-132/123_2024	0007	92.86	135.7	Secondary (grouped)
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Hydrographer Recommendations

Retain.

Cartographically-Rounded Depth (Affected Charts):

44ft (13212_1, 12372_1, 12354_1, 13205_1)

7 ¼fm (12300_1, 13006_1, 13003_1)

13.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: OBJNAM - Charted Rock
QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 13.447 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.33) Profile/Beam - 707/168 from h11441 / 1014_mb / 2005-133 / 354_1504

Primary Feature for AWOIS Item #1855

Search Position: 041° 16' 57.950" N, 72° 05' 50.370" W
Historical Depth: 11.58 m
Search Radius: 100
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

CL198/81--MONTHLY ACTIVITIES REPORT S-B610-RU/HE-80; ROCKY LEDGE DIVER INVESTIGATED AND 39 FT LD DETERMINED BY PNEUMODEPTH GAGE (PREDICTED); CLEARED BY 40 FT DRAG. H9951/80WD--S-B610-RU/HE-80; SUBM. REEF MEASURING APPROX. 15FT WIDE BY 40FT LONG WITH A LEAST DEPTH OF 38FT WAS LOCATED IN LAT.41-16-57.6N, LONG.72-05-52.1W. CLEARANCE OF 40FT IN ONE DIRECTION ONLY WAS OBTAINED. RECOMMEND CHARTING ROCK IN ACCORDANCE WITH PRESENT SURVEY. (REVISED, 2/84, RWD)

Survey Summary

Survey Position: 041° 16' 58.276" N, 72° 05' 50.760" W
Least Depth: 11.37 m
Timestamp: 2005-133.15:06:38.925 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 354_1504
Profile/Beam: 707/168
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock cluster as charted. RESON 8125 MBES data show depth and position to be comparable to the charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/354_1504	707/168	0.00	000.0	Primary
h11441/1005_100/2005-132/124_2009	0002	8.85	205.4	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 1855	13.57	317.9	Secondary
H11224_LIDAR_ReqFldWrk.csv	48	18.07	018.1	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 46	49.80	012.7	Secondary (grouped)
h11441/1005_100/2005-132/124_2009	0004	65.96	311.8	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

37ft (13212_1, 12372_1, 12354_1, 13205_1)

6 ¼fm (12300_1, 13006_1, 13003_1)

11.3m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 11.367 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.34) Profile/Beam - 140/217 from h11441 / 1014_mb / 2005-133 / 358_1525

Primary Feature for AWOIS Item #12404

Search Position: 041° 17' 13.760" N, 72° 05' 41.150" W
Historical Depth: 12.19 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

LNM 45/93 -- NOS; 40 FT ROCK IN POSITION: 41°17'13.76" N 072°05'41.15" W [NAD 83] [ENTERED 4/19/04 JCM]

Survey Summary

Survey Position: 041° 17' 14.446" N, 72° 05' 40.351" W
Least Depth: 12.40 m
Timestamp: 2005-133.15:25:42.037 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 358_1525
Profile/Beam: 140/217
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, 8125 MBES data shows it to be as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/358_1525	140/217	0.00	000.0	Primary
h11441/1005_100/2005-134/270_2147	0001	2.90	132.0	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 47	25.34	202.8	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12404	28.25	041.3	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

40ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

6 ¾fm (12300_1, 13006_1, 13003_1)

12.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 12.404 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.35) Profile/Beam - 1394/29 from h11441 / 1014_mb / 2005-134 / 621_1305**Primary Feature for AWOIS Item #3177****Search Position:** 041° 16' 47.390" N, 72° 06' 02.400" W**Historical Depth:** 14.02 m**Search Radius:** 0**Search Technique:** S2,MB,DI,SD**Technique Notes:** [None]**History Notes:**

H9951/80WD--S-B610-RU/HE-80; SUBM OBSTR, AN UNINVESTIGATED HANG AT 41FT NOT CLEARED, WAS LOCATED IN LAT.41-16-48.8N, LONG.72-06-27.3W BY DEL NORTE CONTROL. RECOMMENDS CHARTING THIS HANG AS A SUBM OBSTR. WITHOUT A WIRE DRAG CLEARANCE. SHOWN ON SMOOTH SHEET AS A GROUNDING; FALLS IN AREA WHICH WAS CLEARED BY 50 FT. ON H4008/17-18WD; BECAUSE OF THIS DISPARITY IN DEPTHS, QUALITY REVIEWER CONSIDERS IT LIKELY THAT THIS IS A WRECK.(ENTERED 11/14/83 RWD) FE343SS/90--OR-B660-HE; NUMEROUS SIDE SCAN SONAR CONTACTS WERE RECORDED IN THE AREA. SIX OF THE MOST SIGNIFICANT WERE EVALUATED FOR HEIGHT AND POSITION. ONE CONTACT WAS DETERMINED TO BE SIGNIFICANT ENOUGH FOR ECHO SOUNDER DEVELOPMENT. THIS WAS DETERMINED TO BE A ROCK WITH A LEAST DEPTH OF 14M (46 FT) IN POS. LAT.41-16-47.39N, LONG.72-06-02.40W (NAD 83). HYDROGRAPHER AND EVALUATOR RECOMMEND TO DELETE DANGEROUS OBSTRUCTION SYMBOL FROM THE CHART AND CHART LEAST DEPTHS FROM THIS INVESTIGATION. (UPDATED 8/92 MCR)

Survey Summary**Survey Position:** 041° 16' 47.822" N, 72° 06' 01.277" W**Least Depth:** 12.96 m**Timestamp:** 2005-134.13:08:25.766 (05/14/2005)**Survey Line:** h11441 / 1014_mb / 2005-134 / 621_1305**Profile/Beam:** 1394/29**Charts Affected:** 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1**Remarks:**

Large rock, 8125 MBES data shows this rock to be shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/621_1305	1394/29	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 3177	29.42	063.0	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 12.955 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.36) Profile/Beam - 1696/39 from h11441 / 1014_mb / 2005-134 / 625_1411

Primary Feature for AWOIS Item #12422

Search Position: 041° 16' 43.300" N, 72° 05' 54.900" W
Historical Depth: 14.63 m
Search Radius: 50
Search Technique: S2, MB, SD
Technique Notes: [None]

History Notes:

F-343ss/90 -- 48 FT ROCK CHARTED IN POSITION: 41°16'43.3" N 072°05'54.9" W [NAD 83] [ENTERED 5/4/04 JCM]

Survey Summary

Survey Position: 041° 16' 42.408" N, 72° 05' 56.950" W
Least Depth: 14.60 m
Timestamp: 2005-134.14:14:43.573 (05/14/2005)
Survey Line: h11441 / 1014_mb / 2005-134 / 625_1411
Profile/Beam: 1696/39
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

RESON 8125 MBES shows the charted depth to be correct but the shoalest point is southwest of the charted position. Rock found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/625_1411	1696/39	0.00	000.0	Primary
h11441/1005_100/2005-132/127_1908	0011	23.26	018.7	Secondary
H11224_LIDAR_ReqFldWrk.csv	46	47.36	233.4	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12422	55.23	240.0	Secondary (grouped)
h11441/1005_100/2005-132/127_1908	0010	58.79	210.5	Secondary (grouped)

Hydrographer Recommendations

Chart rock per digital data. Delete charted Obstn.

Cartographically-Rounded Depth (Affected Charts):

48ft (13212_1, 12372_1, 12354_1, 13205_1)

8fm (12300_1, 13006_1, 13003_1)

14.6m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 14.597 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.37) Profile/Beam - 5261/135 from h11441 / 1014_mb / 2005-134 / 626_1439

Primary Feature for AWOIS Item #3178

Search Position: 041° 16' 42.550" N, 72° 06' 12.070" W

Historical Depth: 12.50 m

Search Radius: 0

Search Technique: S2,MB,DI,SD

Technique Notes: [None]

History Notes:

H9951/80WD--S-B610-RU/HE-80; SUBM OBSTR, AN UNINVESTIGATED HANG AT 41FT NOT CLEARED, WAS LOCATED IN LAT.41-16-42.2N, LONG.72-06-13.8W BY DEL NORTE CONTROL. RECOMMENDS CHARTING THIS HANG AS A SUBM OBSTR WITHOUT A WIRE DRAG CLEARANCE.SHOWN ON SMOOTH SHEET AS A GROUNDING; FALLS IN AREA CLEARED BY 44 FT. ON H4008/17-18WD; BECAUSE OF THIS DIFFERENCE IN DEPTHS, THE QUALITY REVIEWER CONSIDERS IT LIKELY THAT THIS A CULTURAL FEATURE, SUCH AS DEBRIS OR A SMALL WRECK, RATHER THAN A NATURAL BOTTOM.(ENTERED 11/14/83 RWD) FE343SS/90--OPR-B660-HE; NUMEROUS SIDE SCAN CONTACTS WERE RECORDED IN THE AREA. MOST SIGNIFICANT CONTACT IN POS. LAT.41-16-47.39N, LONG.72-06-02.40W (NAD 83). SEE AWOIS 3177. (UPDATED 8/92 MCR)

Survey Summary

Survey Position: 041° 16' 41.388" N, 72° 06' 11.453" W

Least Depth: 13.58 m

Timestamp: 2005-134.14:50:30.900 (05/14/2005)

Survey Line: h11441 / 1014_mb / 2005-134 / 626_1439

Profile/Beam: 5261/135

Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

This contact is the shoalest point near this AWOIS item. The area is rocky, however, no wrecks were seen in MBES or SSS data.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/626_1439	5261/135	0.00	000.0	Primary
h11441/1005_100/2005-132/127_1908	0018	24.06	155.5	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 3178	38.71	158.2	Secondary (grouped)

Hydrographer Recommendations

Chart soundings per digital data, adjust 60 foot charted contour.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 2:found by side scan sonar; 3:found by multi-beam
VALSOU - 13.581 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.38) Profile/Beam - 437/36 from h11441 / 1014_mb / 2005-134 / 682_2043

Primary Feature for AWOIS Item #11914

Search Position: 041° 15' 48.080" N, 72° 05' 27.170" W
Historical Depth: 17.68 m
Search Radius: 100
Search Technique: S2,MB,DI
Technique Notes: [None]

History Notes:

FE343/90; OPR-B660 -- 58-FOOT SOUNDING LOCATED IN CURRENTLY CHARTED POSITION 41/15/48.08 NORTH LATITUDE, 072/05/27.17 WEST LONGITUDE (NAD83). THIS WAS ONE OF FIVE SIGNIFICANT CONTACTS LOCATED WITH SIDE SCAN SONAR IN THIS VICINITY; SEE AWOIS 11913. (ENTERED 8/03 BY CG)

Survey Summary

Survey Position: 041° 15' 47.895" N, 72° 05' 26.706" W
Least Depth: 18.23 m
Timestamp: 2005-134.20:45:01.833 (05/14/2005)
Survey Line: h11441 / 1014_mb / 2005-134 / 682_2043
Profile/Beam: 437/36
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Tall rock, RESON 8125 MBES data shows this to be at this location and slightly deeper than the charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/682_2043	437/36	0.00	000.0	Primary
h11441/1005_100/2005-131/940_1705	0001	3.79	149.1	Secondary (grouped)
h11441/1014_mb/2005-134/682_2043	437/58	4.39	218.6	Secondary (grouped)
h11441/1005_100/2005-131/137_1700	0001	4.51	256.6	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 11914	12.25	117.9	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	44	16.41	130.6	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 2	55.88	226.3	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

60ft (13212_1, 12372_1, 12354_1, 13205_1)

10fm (12300_1, 13006_1, 13003_1)

18.2m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 18.229 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.39) Profile/Beam - 790/1 from h11441 / 1014_mb / 2005-135 / 151_1138**Primary Feature for AWOIS Item #11843**

Search Position: 041° 21' 34.650" N, 72° 05' 21.080" W
Historical Depth: [None]
Search Radius: 30
Search Technique: S2,MB,DI,SD, VS
Technique Notes: SEARCH 30 M RADIUS AROUND EACH POSITION LISTED IN HISTORY BELOW

History Notes:

H08935/67--(742-5-1-67); NOS, A NUMBER OF DOLPHINS CHARTED AT LAT. 41 21.57W, LONG 72 05.4N (NAD27) HAVE BEEN CHARTED FROM A SUBSEQUENT COE 1968 SURVEY (BP75775) AND SHOULD BE RETAINED ON THE CHART BP75775/67--COE; THIS BP GRAPHIC DEPICTS FOUR GROUPINGS OF TWO DOLPHINS EACH NOW CHARTED IN THE FOLLOWING NAD 83 POSITIONS: 41-21-34.25 N 072-05-18.64 W 41-21-34.65 N 072-05-21.08 W 41-21-34.91 N 072-05-22.48 W 41-21-35.08 N 072-05-23.89 W CL244/69--REFERENCE; UNITED STATES NAVY COMMANDER REQUESTING THAT APPROPRIATE NOTICE TO MARINERS AND LOCAL NOTICE TO MARINERS BE ISSUED TO REFLECT REVISED NAVIGATION INFORMATION FOR PIER 17, NAVAL SUMARINE BASE, NEW LONDON AND CONNECTICUT STATE PIER. SUBSEQUENT CHART LETTER EXPLAINING THE CHARTS AFFECTED BY DOLPHINS HAVE BEEN CHANGED AND U.S. NAVAL OCEANOGRAPHIC OFFICE NOTICE TO MARINERS NUMBER 17, 1969 HAS BEEN ISSUED. NM17/69--CHART AMENDMENTS. A REPRODUCTION OF CHART 293 AND 359 SHOWS CHANGES IN THE HYDROGRAPHY FURNISHED BY THE U.S NAVY. APPROX. POSITION: LAT. 41 23 50W, LONG 72 05 30W (NAD 27) ENTERED RFE 04/03

Survey Summary

Survey Position: 041° 21' 34.748" N, 72° 05' 21.730" W
Least Depth: 8.82 m
Timestamp: 2005-135.11:39:49.053 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 151_1138
Profile/Beam: 790/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Believe uncharted pile breaks water surface but the top cannot be seen in MBES because pile height exceeds top of multibeam sweep. This pile extends this line of dolphins to the east of the line of charted dolphins.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/151_1138	790/1	0.00	000.0	Primary
h11441/1005_100/2005-135/500_1856	0002	5.20	078.6	Secondary
h11441/1005_100/2005-134/213_2317	0002	5.88	069.7	Secondary (grouped)
h11441/1005_100/2005-135/210_1846	0001	7.49	132.6	Secondary
h11441/1005_200/2005-135/245_2039	0003	8.10	199.1	Secondary
h11441/1005_100/2005-135/211_1849	0002	10.10	123.2	Secondary (grouped)
h11441/1005_100/2005-135/100_1514	0011	12.21	322.9	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 11843	15.47	281.4	Secondary (grouped)

Hydrographer Recommendations

Chart a dolphin at survey position

Cartographically-Rounded Depth (Affected Charts):

29ft (13213_1, 12372_4, 12354_1, 13205_1)

4 ¾fm (12300_1, 13006_1, 13003_1)

8.8m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

CONVIS - 1:visual conspicuous

2.40) Profile/Beam - 778/20 from h11441 / 1014_mb / 2005-136 / 576_1627**Primary Feature for AWOIS Item #7073**

Search Position: 041° 17' 35.350" N, 72° 02' 32.260" W
Historical Depth: [None]
Search Radius: 0
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

LNM31/78--3RD CGD; ORANGE AND WHITE HORIZONTALLY BANDED SPECIAL PURPOSE BUOY "A" HAS BEEN ESTABLISHED IN LAT 41-17-35N, LONG 72-02-34W; BUOY IS IN 38 FT. OF WATER AND IS ANCHORED TO A SUNKEN AUTOMOBILE. LNM22/83--3RD CGD; BUOY HAS BEEN PERMANENTLY DISCONTINUED; NO MENTION WAS MADE OF AUTOMOBILE; CHARTED AS AN OBSTRUCTION. (ENTERED MSM 1/89) FE343SS/90--OPR-B660-HE; SONARGRAMS SHOWED A ROCKY BOTTOM AREA JUST SOUTH OF ITEM. DIVER INVESTIGATION AMONG ROCKS AND MARINE GROWTH COULD NOT LOCATE CAR. A FATHOMETER DEPTH OF 9.3M (30 FT) WAS OBTAINED ON A ROCK IN POS. LAT.41-17-34.95N, LONG.72-02-33.64W (NAD 83). ANOTHER DEPTH ON A ROCK WAS 10.1M (33FT). EVALUATOR RECOMMENDS TO DELETE CHARTED OBSTRUCTION AND APPLY ROCKS FROM THIS SURVEY. (UPDATED 8/92 MCR) DESCRIPTION ***** PER TELECON WITH AIDS TO NAVIGATION, 1ST CGD, 6/5/89, AUTOMOBILE FELL OFF A CAR FERRY; NO PLANS FOR SALVAGE AT THIS TIME. (UPDATED MSM 5/89)

Survey Summary

Survey Position: 041° 17' 17.302" N, 72° 02' 33.066" W
Least Depth: 6.24 m
Timestamp: 2005-136.16:28:48.501 (05/16/2005)
Survey Line: h11441 / 1014_mb / 2005-136 / 576_1627
Profile/Beam: 778/20
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky shoal area as charted. This reef is close to 1 Km long generally oriented north-south. RESON 8125 shows that this reef is slightly shoal of currently charted depths. This survey found no sign of the described sunken automobile.

During this survey considerable fishing was observed over this reef.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-136/576_1627	778/20	0.00	000.0	Primary
h11441/1005_100/2005-133/152_1925	0007	47.48	295.2	Secondary (grouped)
h11441/1005_mb/2005-134/296_1540	6613/79	61.60	223.6	Secondary (grouped)
h11441/1005_mb/2005-134/297_1535	2238/33	66.36	067.7	Secondary (grouped)
h11441/1005_100/2005-134/296_1540	0005	69.23	155.7	Secondary (grouped)
h11441/1005_100/2005-134/296_1540	0006	72.62	357.1	Secondary (grouped)
h11441/1005_100/2005-133/151_1911	0001	96.49	282.9	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 70	97.47	359.0	Secondary (grouped)
h11441/1005_100/2005-134/297_1535	0003	104.51	065.1	Secondary (grouped)
h11441/1014_mb/2005-136/581_1804	484/101	112.05	062.3	Secondary (grouped)
h11441/1005_100/2005-134/298_1529	0001	116.13	084.8	Secondary (grouped)
h11441/1014_mb/2005-136/581_1804	778/113	122.76	116.9	Secondary (grouped)
h11441/1005_100/2005-133/922_1707	0001	161.03	003.8	Secondary (grouped)
h11441/1014_mb/2005-136/579_1757	1196/193	165.91	155.5	Secondary (grouped)
h11441/1005_100/2005-133/120_1730	0003	167.13	047.7	Secondary (grouped)
h11441/1005_100/2005-133/120_1730	0004	175.65	088.5	Secondary (grouped)
h11441/1005_100/2005-134/297_1535	0002	178.50	358.7	Secondary (grouped)
h11441/1014_mb/2005-136/577_1649	2566/41	180.50	357.7	Secondary (grouped)
h11441/1005_100/2005-134/296_1540	0004	187.46	175.7	Secondary (grouped)
h11441/1005_100/2005-134/295_1546	0001	191.85	203.9	Secondary (grouped)
h11441/1005_100/2005-134/296_1540	0007	197.59	313.2	Secondary (grouped)
h11441/1005_100/2005-133/153_1934	0001	204.05	324.2	Secondary (grouped)
h11441/1005_100/2005-134/297_1535	0005	212.17	166.5	Secondary (grouped)
h11441/1005_mb/2005-134/296_1540	5115/54	212.57	181.3	Secondary (grouped)
h11441/1005_100/2005-134/153_1140	0002	212.69	325.4	Secondary (grouped)
h11441/1005_100/2005-134/297_1535	0004	213.51	134.6	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 6	214.87	181.5	Secondary (grouped)
h11441/1005_100/2005-133/120_1730	0002	228.08	055.4	Secondary (grouped)
h11441/1005_100/2005-134/297_1535	0001	228.74	009.9	Secondary (grouped)
h11441/1005_100/2005-134/298_1529	0002	231.34	055.1	Secondary (grouped)
h11441/1005_100/2005-134/298_1529	0003	231.69	025.9	Secondary (grouped)
h11441/1005_100/2005-133/150_1860	0002	235.71	199.8	Secondary (grouped)
h11441/1005_100/2005-134/296_1540	0003	239.17	162.6	Secondary (grouped)

h11441/1005_100/2005-133/150_1860	0004	244.94	216.0	Secondary (grouped)
h11441/1014_mb/2005-136/573_1606	1018/13	249.85	193.7	Secondary (grouped)
h11441/1014_mb/2005-136/581_1804	1343/70	256.57	150.4	Secondary (grouped)
h11441/1005_mb/2005-134/297_1535	4446/34	281.43	151.9	Secondary (grouped)
h11441/1014_mb/2005-136/578_1752	635/72	282.00	167.5	Secondary (grouped)
H11224_LIDAR_OK.csv	6	300.61	168.5	Secondary (grouped)
h11441/1014_mb/2005-136/575_1614	473/220	301.25	178.5	Secondary (grouped)
h11441/1005_mb/2005-133/153_1934	2621/84	310.48	334.9	Secondary (grouped)
h11441/1005_100/2005-133/122_1658	0001	313.90	007.5	Secondary (grouped)
h11441/1005_100/2005-133/150_1860	0001	315.74	202.4	Secondary (grouped)
h11441/1005_100/2005-134/122_1147	0001	315.76	001.6	Secondary (grouped)
h11441/1005_100/2005-134/122_1147	0002	320.60	349.4	Secondary (grouped)
h11441/1005_100/2005-133/149_1848	0001	336.78	192.0	Secondary (grouped)
h11441/1005_100/2005-134/295_1546	0002	339.40	188.1	Secondary (grouped)
h11441/1014_mb/2005-136/570_1822	402/27	347.64	155.7	Secondary (grouped)
h11441/1005_100/2005-134/298_1529	0004	349.91	014.6	Secondary (grouped)
h11441/1005_100/2005-134/154_1215	0002	364.10	343.6	Secondary (grouped)
h11441/1005_100/2005-134/153_1140	0003	384.12	356.8	Secondary (grouped)
h11441/1005_100/2005-133/150_1860	0003	400.56	209.3	Secondary (grouped)
h11441/1005_mb/2005-141/438_1358	470/77	429.32	210.3	Secondary (grouped)
h11441/1005_100/2005-133/149_1848	0002	432.11	210.5	Secondary (grouped)
h11441/1005_100/2005-134/296_1540	0002	497.17	175.9	Secondary (grouped)
h11441/1005_100/2005-134/154_1215	0003	500.29	333.8	Secondary (grouped)
h11441/1005_100/2005-133/148_1841	0001	503.16	177.4	Secondary (grouped)
h11441/1005_100/2005-134/295_1546	0003	535.37	177.8	Secondary (grouped)
h11441/1005_mb/2005-133/148_1841	59/38	542.55	177.7	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 7073	558.39	181.9	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 7	578.00	185.0	Secondary (grouped)
h11441/1005_100/2005-134/295_1546	0004	596.56	185.4	Secondary (grouped)
ChartGPs - ENC US4CN21M	Seabed 24	690.74	331.0	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

20ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

3 ¼fm (12300_1, 13006_1, 13003_1)

6.2m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 6.238 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.41) Profile/Beam - 400/44 from h11441 / 1014_mb / 2005-137 / 611_1846

Primary Feature for AWOIS Item #12173

Search Position: 041° 18' 32.200" N, 72° 01' 56.300" W
Historical Depth: 3.96 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- 13 FT SOUNDING NOW CHARTED IN POSITION: 41°18'32.17" N 072°01'56.34" W [NAD 83]
[ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 32.406" N, 72° 01' 57.227" W
Least Depth: 3.26 m
Timestamp: 2005-137.18:47:07.123 (05/17/2005)
Survey Line: h11441 / 1014_mb / 2005-137 / 611_1846
Profile/Beam: 400/44
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky shoal; slightly shoal of currently charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-137/611_1846	400/44	0.00	000.0	Primary
H11224_LIDAR_OK.csv	22	1.60	091.8	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 12173	22.54	286.4	Secondary
h11441/1005_100/2005-133/280_2044	0001	28.97	190.9	Secondary (grouped)
h11441/1005_100/2005-134/914_1813	0001	29.33	201.3	Secondary (grouped)
h11441/1005_100/2005-134/913_1809	0001	39.34	073.5	Secondary (grouped)
h11441/1005_100/2005-133/279_2103	0002	80.02	122.0	Secondary (grouped)
h11441/1005_100/2005-133/281_2020	0001	181.23	031.3	Secondary (grouped)
h11441/1005_100/2005-133/282_2008	0001	182.04	022.1	Secondary (grouped)

h11441/1005_100/2005-133/282_2007	0008	233.04	040.6	Secondary (grouped)
h11441/1005_100/2005-133/282_2007	0004	247.73	038.6	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

10ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

1 ¾fm (12300_1, 13006_1, 13003_1)

3.2m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 3.264 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.42) Profile/Beam - 770/169 from h11441 / 1014_mb / 2005-137 / 626_1834**Primary Feature for AWOIS Item #6957**

Search Position: 041° 18' 32.850" N, 72° 01' 49.260" W
Historical Depth: [None]
Search Radius: 250
Search Technique: S2,MB,DI
Technique Notes: ONLY SEARCH THE PORTION OF THE SEARCH AREA THAT IS SEAWARD OF THE 18 FT DEPTH CURVE

History Notes:

CL1286/72--PRIVATE MARINER; WHILE TRAVELLING BETWEEN MUMFORD COVE AND FISHERS ISLAND, A SAILBOAT, DRAWING 3.5 FT., STRUCK A SUBMERGED PINNACLE IN AN AREA CHARTED AS HAVING 25 FT. OF WATER; EXTREME LOW TIDE AT THE TIME; LATEST PHOTOGRAPHY AND H8926/66 INSPECTED IN THE OFFICE FOR SIGN OF PINNACLE, WITH NEGATIVE RESULTS; 13 FT. PINNACLE ON SURVEY LOCATED APPROXIMATELY 175 YARDS WEST OF REPORTED STRIKING; BELIEVED TO BE AN INDICATION THAT OTHER PINNACLES MAY BE IN THE AREA. (ENTERED MSM 11/88)

Survey Summary

Survey Position: 041° 18' 30.608" N, 72° 01' 43.411" W
Least Depth: 5.22 m
Timestamp: 2005-137.18:35:08.229 (05/17/2005)
Survey Line: h11441 / 1014_mb / 2005-137 / 626_1834
Profile/Beam: 770/169
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

MBES data show that this rock is slightly shoal of charted data. This appears to be the only uncharted obstruction found within AWOIS 6957 circle and it is much deeper than the submerged rock reported in 1972.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-137/626_1834	770/169	0.00	000.0	Primary
h11441/1005_100/2005-134/914_1813	0002	7.23	214.2	Secondary (grouped)
h11441/1005_100/2005-134/913_1809	0002	27.34	195.6	Secondary (grouped)
h11441/1014_mb/2005-137/623_1827	921/165	77.36	274.6	Secondary (grouped)

H11224_LIDAR_ReqFldWrk.csv	66	77.74	270.2	Secondary (grouped)
h11441/1005_100/2005-134/312_1805	0002	114.91	318.3	Secondary (grouped)
h11441/1005_100/2005-134/312_1646	0001	119.42	321.7	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 73	122.62	105.3	Secondary (grouped)
h11441/1014_mb/2005-137/622_1826	687/200	129.54	188.1	Secondary (grouped)
h11441/1005_100/2005-134/317_1819	0002	132.73	186.0	Secondary (grouped)
H11224_LIDAR_OK.csv	21	149.16	115.6	Secondary (grouped)
h11441/1014_mb/2005-137/625_1831	1342/72	150.27	317.0	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 6957	153.09	116.9	Secondary (grouped)

Hydrographer Recommendations

AWOIS disproven. Chart rock per digital data. Delete Sumb Rock rep 1972.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 5.219 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.43) Profile/Beam - 356/155 from h11441 / 1014_mb / 2005-137 / 709_1855

Primary Feature for AWOIS Item #12169

Search Position: 041° 18' 46.200" N, 72° 02' 21.300" W
Historical Depth: 5.49 m
Search Radius: 50
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

H-8926/68 -- 18 FT SOUNDING NOW CHARTED IN POSITION: 41°18'46.2" N 072°02'21.27" W [NAD 83]
 [ENTERED 1/16/04 JCM]

Survey Summary

Survey Position: 041° 18' 46.297" N, 72° 02' 20.974" W
Least Depth: 5.39 m
Timestamp: 2005-137.18:56:16.262 (05/17/2005)
Survey Line: h11441 / 1014_mb / 2005-137 / 709_1855
Profile/Beam: 356/155
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Cluster of rocks as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-137/709_1855	356/155	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12169	8.18	068.5	Secondary
h11441/1005_100/2005-133/878_2205	0001	30.91	081.2	Secondary

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

17ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

3fm (12300_1, 13006_1, 13003_1)

5.4m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 5.395 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.44) Profile/Beam - 584/209 from h11441 / 1014_mb / 2005-141 / 136_1350

Primary Feature for AWOIS Item #11883

Search Position: 041° 20' 30.500" N, 72° 05' 13.600" W
Historical Depth: [None]
Search Radius: 100
Search Technique: S2, MB, DI, SD
Technique Notes: IF PIPE IS DETECTED, DEVELOP FEATURE TO FULLEST INSHORE EXTENT

History Notes:

LNM 9/77--1ST CGD, 3/2/77; CL 1617/77--COPY OF LNM 9/77 AND LISTED IN CHART HISTORY AS SOURCE OF TWO SUBM. PIPES. 1670 FT OF 48- INCH DIAMETER CONCRETE AND POLYETHELENE SUBAQUEOUS OUTFALL SEWER PIPE INSTALLED IN NEW LONDON HARBOR, LONG ISLAND SOUND. THE PIPE EXTENDS EASTWARD AWAY FROM FORT TRUMBULL, CT INTO THE CABLE AREA. POSITION IS GIVEN IN CHART HISTORY AS 41-20-30.5N, 72-05-31W NAD 27. HOWEVER, THE ITEMS WERE CHARTED 30M APART WITH A CENTRAL POS. IN 41 20 30.5N, 072 05 13.6W NAD 83, BASED ON PROVIDED CHART SECTION. ENTERED 1/8/04 JCM .

Survey Summary

Survey Position: 041° 20' 29.659" N, 72° 05' 14.638" W
Least Depth: 6.25 m
Timestamp: 2005-141.13:51:11.999 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 136_1350
Profile/Beam: 584/209
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Cable or (sewer?) pipeline with shoal at the end. No piles were found in this area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/136_1350	584/209	0.00	000.0	Primary
h11441/1005_200/2005-135/245_2038	0004	5.84	136.3	Secondary
h11441/1005_100/2005-134/229_2250	0001	15.70	006.7	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 11883	35.53	223.0	Secondary (grouped)
h11441/1014_mb/2005-141/145_1400	993/199	49.94	094.6	Secondary

h11441/1005_100/2005-135/230_1218	0001	52.58	101.4	Secondary (grouped)
h11441/1014_mb/2005-135/168_1701	2821/21	64.87	093.3	Secondary (grouped)
h11441/1014_mb/2005-135/168_1701	2811/140	72.06	093.7	Secondary (grouped)
h11441/1014_mb/2005-135/168_1701	2802/227	79.11	093.9	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data, chart 'Subm pipes' on chart. Remove 'pile circles' and 'Sumb pipes PA' from chart.

Cartographically-Rounded Depth (Affected Charts):

20ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

3 ¼fm (12300_1, 13006_1, 13003_1)

6.2m (5161_1)

S-57 Data

Geo object 1: Pipeline area (PIPARE)

Attributes: CATPIP - 4:sewer

STATUS - 1:permanent

2.45) Profile/Beam - 2209/52 from h11441 / 1014_mb / 2005-142 / 224_1555

Primary Feature for AWOIS Item #12423

Search Position: 041° 16' 30.800" N, 72° 06' 04.900" W
Historical Depth: 13.72 m
Search Radius: 50
Search Technique: S2, MB, SD
Technique Notes: [None]

History Notes:

F-00343ss/90 -- 45 FT ROCK CHARTED IN POSITION: 41°16'30.8" N 072°06'04.9" W [NAD 83] [ENTERED 5/4/04 JCM]

Survey Summary

Survey Position: 041° 16' 31.459" N, 72° 06' 07.490" W
Least Depth: 14.29 m
Timestamp: 2005-142.16:01:36.283 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 224_1555
Profile/Beam: 2209/52
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, near charted location. RESON 8125 shows the depth to be to the west and slightly deeper than the charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/224_1555	2209/52	0.00	000.0	Primary
h11441/1005_100/2005-132/129_1355	0009	21.93	276.1	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12423	63.78	288.6	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 42	99.63	273.6	Secondary (grouped)

Hydrographer Recommendations

Move charted rock to the west per digital data.

Cartographically-Rounded Depth (Affected Charts):

47ft (13212_1, 12372_1, 12354_1, 13205_1)

7 ¾fm (12300_1, 13006_1, 13003_1)

14.3m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 14.288 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.46) AWOIS #11841 - AWOIS 11841

No Primary Survey Feature for this AWOIS Item

Search Position: 041° 21' 53.550" N, 72° 05' 29.770" W

Historical Depth: [None]

Search Radius: 0

Search Technique: VS,S2,MB,DI,SD

Technique Notes: [None]

History Notes:

CL1207/72--USPS REPORTS THE WRECK ON THE WEST SIDE OF THE RIVER, AND IN VICINITY OF THE END OF THE NEW BRIDGE HAS BEEN REMOVED. ACCOMPANING CL1207/72 IS A GRAPHIC OF CHART 359 INDICATING THE WRECK LOCATION. LAT 41 21 50.5N, LONG 72 05 33.0W (NAD 83)
CL1067/70--USPS REPORTS THE WRECK HAS BEEN REMOVED. ACCOMPANING GRAPHIC OF CHART 116SC INDICATES THE LOCATION OF WRECK. ENTERED RFE 04/03

Survey Summary

Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

This AWOIS item is in water too shoal to safely survey with MBES or SSS sonar.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-B370-TJ-05_AWOIS	AWOIS # 11841	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LIDAR data if available.

S-57 Data

[None]

2.47) AWOIS #11884 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 041° 20' 29.500" N, 72° 04' 52.800" W
Historical Depth: [None]
Search Radius: 50
Search Technique: S2, MB, DI, VS
Technique Notes: SEARCH 50 M AROUND THE CHARTED POSITIONS OF THE THREE CHARTED DEADMEN GIVEN IN HISTORY BELOW.

History Notes:

CL 1488/73--COE PERMIT, 6/30/72; THREE CONCRETE DEADMAN INSTALLED IN THE THAMES RIVER NEAR GROTON, CT. POSITIONS OF DEADMEN SCALED FROM GRAPHICS IN CL 1488/73. CHARTED POSITIONS OF THREE DEADMEN: (1) 41°20'29.1" N 072°04'57.55" W (2) 41°20'26.83" N 072°04'56.29" W (3) 41°20'27.97" N 072°04'53.92" W [ENTERED JCM 1/21/05] ENTERED 1/8/04 JCM.

Survey Summary

Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

This item is inside of a security zone; no SSS or MBES data could be safely acquired in this area.

The item is located very close to shore.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-B370-TJ-05_AWOIS	AWOIS # 11884	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LiDAR data if available.

S-57 Data

[None]

2.48) Profile/Beam - 2246/101 from h11441 / 1005_mb / 2005-130 / 040_1518

Primary Feature for AWOIS Item #1853

Search Position: 041° 16' 26.850" N, 72° 02' 37.060" W
Historical Depth: 7.01 m
Search Radius: 200
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

***NOT PRESENTLY CHARTED; REASON(S) UNKNOWN H4008WD/17-18--HUNG AT 26 FT, CLEARED TO 23 FT, INDICATIONS THAT MAY BE WRECK RATHER THAN SHOAL. H8926/66-68--CLOSE SPACED DEVELOPMENT EAST OF CHARTED GP, NEITHER FOUND NOR DISPROVED, RETAIN AS CHARTED. DESCRIPTION 24 NO.8666; SUNK 1918; POSITION ACCURACY WITHIN 1 MILE; WD CLEARED TO 23 FT.; REPORTED THROUGH CGS SURVEY, DATED 1919.

Survey Summary

Survey Position: 041° 16' 19.188" N, 72° 02' 41.550" W
Least Depth: 9.95 m
Timestamp: 2005-130.15:21:21.936 (05/10/2005)
Survey Line: h11441 / 1005_mb / 2005-130 / 040_1518
Profile/Beam: 2246/101
Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

RESON 8101 multibeam shows a submerged pile or vertical object. Klein 5000 SSS shows an object which appears to be a rock with a significantly shorter shadow than the apparent MBES contact. This object is outside of the AWOIS circle but it is the shoalest point in the area. There is another contact on the the north-east edge of the AWOIS circle but it is significantly deeper than this object.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-130/040_1518	2246/101	0.00	000.0	Primary
h11441/1005_100/2005-133/131_1209	0002	2.87	271.4	Secondary
OPR-B370-TJ-05_AWOIS	AWOIS # 1853	259.06	203.9	Secondary (grouped)
h11441/1005_mb/2005-126/546_1826	6208/101	448.06	208.6	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: QUASOU - 1:depth known

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 9.946 m

WATLEV - 3:always under water/submerged

2.49) Profile/Beam - 1398/234 from h11441 / 1014_mb / 2005-133 / 356_1515**Primary Feature for AWOIS Item #13001**

Search Position: 041° 16' 58.890" N, 72° 05' 57.000" W
Historical Depth: 10.67 m
Search Radius: 100
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

UNDETERMINED CHARTING SOURCE -- 35 FT RK NOW CHARTED IN POSITION: 41-16-58.89 N, 072-05-57.00 W (NAD 83). UPDATED 3/3/2005 JCM.

Survey Summary

Survey Position: 041° 17' 00.205" N, 72° 05' 55.604" W
Least Depth: 14.79 m
Timestamp: 2005-133.15:17:45.215 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 356_1515
Profile/Beam: 1398/234
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky outcrop but no 35 foot rock per AWOIS was seen in this area. MBES data show this contact to be the shoal point within the AWOIS circle.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/356_1515	1398/234	0.00	000.0	Primary
h11441/1005_100/2005-132/124_2009	0010	35.82	338.0	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 13001	52.12	038.7	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data, adjust 60 foot contour line in this area.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 14.788 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.50) Profile/Beam - 3058/240 from h11441 / 1014_mb / 2005-134 / 618_1212**Primary Feature for AWOIS Item #3180**

Search Position: 041° 16' 47.930" N, 72° 04' 28.390" W
Historical Depth: 13.11 m
Search Radius: 75
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

H9951/80WD--S-B610-RU/HE-80; SUBM OBSTR, AN UNINVESTIGATED TEMPORARY HANG HUNG AT AN EFFECTIVE DEPTH OF 42FT, POSITION APPROX. IN LAT. 41-16-47.0N, LONG.72-04-29.6W. IT WAS CLEARED BY AN EFFECTIVE DEPTH OF 41FT IN ONE DIRECTION ONLY. RECOMMENDS CHARTING THIS HANG AS A SUBM OBSTRUCTION WITH A WIRE DRAG CLEARANCE TO 41FT. SHOWN ON SMOOTH SHEET AS A GROUNDING. (ENTERED 11/14/83 RWD) F00343SS/90--OPR-B660-HE; DURING OFFICE PROCESSING A SIDE SCAN SONAR CONTACT WITH AN ESTIMATED DEPTH OF 43 FT WAS COMPUTED IN POS. LAT.41-16-47.93N, LONG. 072-04-28.39W (UPDATED 3/05 MCR)

Survey Summary

Survey Position: 041° 16' 48.834" N, 72° 04' 28.250" W
Least Depth: 13.07 m
Timestamp: 2005-134.12:17:08.420 (05/14/2005)
Survey Line: h11441 / 1014_mb / 2005-134 / 618_1212
Profile/Beam: 3058/240
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/618_1212	3058/240	0.00	000.0	Primary
ChartGPs - ENC US4CN21M	Danger 3	0.86	093.1	Secondary (grouped)
h11441/1005_100/2005-132/126_1924	0003	9.17	008.5	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 3180	28.13	006.7	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	43	37.61	011.1	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

43ft (13212_1, 12372_1, 12354_1, 13205_1)

7fm (12300_1, 13006_1, 13003_1)

13.0m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes:

- QUASOU - 1:depth known
- STATUS - 1:permanent
- TECSOU - 3:found by multi-beam
- VALSOU - 13.071 m
- VERDAT - 12:Mean lower low water
- WATLEV - 3:always under water/submerged

2.51) Profile/Beam - 303/10 from h11441 / 1014_mb / 2005-135 / 133_1343**Primary Feature for AWOIS Item #12995**

Search Position: 041° 21' 43.000" N, 72° 05' 13.000" W
Historical Depth: [None]
Search Radius: 100
Search Technique: S2, SWMB, DI, SD
Technique Notes: [None]

History Notes:

NM 45/04 (11/6/04) -- DANGEROUS WRECK PA WITH UNKNOWN DEPTH REPORTED IN POSITION 41°21'43" N, 72°05'13" W (NAD83) [UPDATED 2/28/2005 JCM]

Survey Summary

Survey Position: 041° 21' 43.597" N, 72° 05' 13.616" W
Least Depth: 11.31 m
Timestamp: 2005-135.13:43:49.570 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 133_1343
Profile/Beam: 303/10
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoal at the eastern edge of the channel. This shoal runs north south and appears to be left over from an old butress from a bridge which crossed the river immediatly south of the Amtrak trestle. MBES and SSS coverage do not show any sign of a wreck within the AWOIS circle.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/133_1343	303/10	0.00	000.0	Primary
h11441/1005_200/2005-135/200_2059	0003	17.69	155.1	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12995	23.39	322.1	Secondary (grouped)

Hydrographer Recommendations

Wreck disproven. Chart shoal per digital data.

Cartographically-Rounded Depth (Affected Charts):

37ft (13213_1, 12372_4, 12354_1, 13205_1)

6fm (12300_1, 13006_1, 13003_1)

11.3m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area

QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VERDAT - 12:Mean lower low water

2.52) Profile/Beam - 542/217 from h11441 / 1014_mb / 2005-137 / 622_1342

Primary Feature for AWOIS Item #13002

Search Position: 041° 17' 14.400" N, 72° 04' 48.500" W
Historical Depth: 13.41 m
Search Radius: 100
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

F00345ss/90 -- THIS ORIGINAL SOURCE WAS NOT AVAILABLE FOR OFFICE REVIEW. LNM45/93 -- 44 FT ROCK REPORTED IN POSITION: 41-17-14.4 N, 072-04-48.5 (NAD 83). CHARTING RECOMMENDATION: ADD 44 FT SOUNDING AND LABEL RK. UPDATED 3/3/2005 JCM.

Survey Summary

Survey Position: 041° 17' 10.656" N, 72° 04' 48.408" W
Least Depth: 13.03 m
Timestamp: 2005-137.13:43:04.608 (05/17/2005)
Survey Line: h11441 / 1014_mb / 2005-137 / 622_1342
Profile/Beam: 542/217
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Significant rock or obstruction just outside of AWOIS circle. RESON 8125 MBES data show this to be the shoal point near this AWOIS circle.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-137/622_1342	542/217	0.00	000.0	Primary
ChartGPs - ENC US4CN21M	Danger 61	112.16	179.4	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 13002	115.78	178.9	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 8311	116.69	179.2	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

43ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

7fm (12300_1, 13006_1, 13003_1)

13.0m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VALSOU - 13.032 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

2.53) Profile/Beam - 597/50 from h11441 / 1014_mb / 2005-137 / 914_1614

Primary Feature for AWOIS Item #12420

Search Position: 041° 18' 01.400" N, 72° 04' 18.300" W
Historical Depth: 8.53 m
Search Radius: 100
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

COE BP 143044 (JUNE 1990) -- 28 FT ROCK IN POSITION APPROXIMATE: 41°18'01.44" N 072°04'18.40" W [NAD 83] [ENTERED 4/19/04 JCM]

Survey Summary

Survey Position: 041° 18' 02.278" N, 72° 04' 18.551" W
Least Depth: 9.90 m
Timestamp: 2005-137.16:15:17.008 (05/17/2005)
Survey Line: h11441 / 1014_mb / 2005-137 / 914_1614
Profile/Beam: 597/50
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock where charted. RESON 8125 MBES shows this rock to be deeper than charted depth. Rock outcrop swings a crescent shaped arc to the north.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-137/914_1614	597/50	0.00	000.0	Primary
h11441/1005_100/2005-131/110_2015	0001	27.47	060.7	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 12420	27.77	347.8	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	16	35.67	124.7	Secondary (grouped)
h11441/1005_100/2005-131/847_2304	0001	64.21	169.5	Secondary (grouped)
h11441/1005_100/2005-131/111_2021	0001	74.84	278.6	Secondary (grouped)
H11224_LIDAR_OK.csv	33	87.63	140.4	Secondary (grouped)
h11441/1005_100/2005-131/288_2204	0004	100.86	271.9	Secondary (grouped)

h11441/1014_mb/2005-137/924_1552	568/227	123.85	285.8	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	17	128.83	166.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

32ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

5 ¼fm (12300_1, 13006_1, 13003_1)

9.9m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 9.896 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.54) Profile/Beam - 464/240 from h11441 / 1014_mb / 2005-137 / 932_1528

Primary Feature for AWOIS Item #12421

Search Position: 041° 17' 54.500" N, 72° 04' 14.400" W
Historical Depth: 10.06 m
Search Radius: 100
Search Technique: S2, MB, DI
Technique Notes: [None]

History Notes:

COE BP 143044 (JUNE 1990) -- 33 FT ROCK IN POSITION APPROXIMATE: 41°17'54.5" N 072°04'14.7" W [NAD 83] [ENTERED 5/4/04 JCM]

Survey Summary

Survey Position: 041° 17' 53.824" N, 72° 04' 14.219" W
Least Depth: 10.72 m
Timestamp: 2005-137.15:28:50.719 (05/17/2005)
Survey Line: h11441 / 1014_mb / 2005-137 / 932_1528
Profile/Beam: 464/240
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, RESON 8125 shows that there is a large rock at this location which is slightly deeper than the charted sounding. There is also a large rock cluster within the AWOIS circle 115 meters north of this point. The rocks to the north is significantly shoal of charted depth

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-137/932_1528	464/240	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 12421	21.34	168.6	Secondary (grouped)
h11441/1005_100/2005-131/111_2021	0003	22.61	027.0	Secondary (grouped)
h11441/1005_100/2005-131/110_2015	0002	26.26	045.1	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	7	39.65	109.6	Secondary (grouped)
h11441/1005_100/2005-131/111_2021	0002	50.25	209.1	Secondary (grouped)
h11441/1014_mb/2005-137/927_1543	291/178	112.41	191.2	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	8	115.21	192.7	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

35ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

5 ¾fm (12300_1, 13006_1, 13003_1)

10.7m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 10.718 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

2.55) Profile/Beam - 1273/177 from h11441 / 1014_mb / 2005-134 / 680_2022**Primary Feature for AWOIS Item #1847**

Search Position: 041° 15' 56.350" N, 72° 05' 31.270" W
Historical Depth: [None]
Search Radius: 0
Search Technique: S2,MB,DI,SD
Technique Notes: [None]

History Notes:

CL271/18--CGS; ADVANCE INFO FROM WIRE DRAG PARTY 1; AN OBSTRUCTION, PROBABLY A WRECK, FOUND IN LAT 41-15-58N, LONG 72-05-34W; LEAST DEPTH NOT YET DETERMINED; DRAG CAUGHT WHILE SET TO 58 FT. CL60/19--CGS; FINAL WIRE DRAG SURVEY DATA; 54 FT. OBSTRUCTION CHARTED IN LAT 41-15-56N, LONG 72-05-33W. H9212/71--OBSTRUCTION DELETED. DESCRIPTION 24 NO.8668; SUNK 1919; POSITION ACCURACY WITHIN 1 MILE; WD CLEARED TO 56 FT. (SOURCE UNK.); REPORTED THROUGH CGS SURVEY, DATED 1919 (REG. NO. NOT ASCERTAINED)

Survey Summary

Survey Position: 041° 15' 57.989" N, 72° 05' 34.448" W
Least Depth: 18.60 m
Timestamp: 2005-134.20:25:27.727 (05/14/2005)
Survey Line: h11441 / 1014_mb / 2005-134 / 680_2022
Profile/Beam: 1273/177
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Interesting shaped object with shadow RESON 8101 MBES shows outcrop to be slightly shoal of surrounding terrain. No wreck or obstruction as reported by AWOIS was seen at this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/680_2022	1273/177	0.00	000.0	Primary
h11441/1005_100/2005-131/937_1652	0002	53.15	333.5	Secondary (grouped)
OPR-B370-TJ-05_AWOIS	AWOIS # 1847	89.83	304.4	Secondary (grouped)

Hydrographer Recommendations

disproved. Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 2:found by side scan sonar; 3:found by multi-beam
VERDAT - 12:Mean lower low water

2.56) Profile/Beam - 4387/172 from h11441 / 1014_mb / 2005-136 / 620_2129**Primary Feature for AWOIS Item #3179****Search Position:** 041° 17' 00.250" N, 72° 04' 34.270" W**Historical Depth:** 12.50 m**Search Radius:** 0**Search Technique:** S2,MB,DI,SD**Technique Notes:** [None]**History Notes:**

H9951/80WD--S-B610-RU/HE-80; SUBM OBSTR, AN UNINVESTIGATED HANG WITH AN EFFECTIVE DEPTH OF 43FT WAS CLEARED BY AN EFFECTIVE DEPTH OF 41FT. LOCATED IN LAT.41-16-59.9N, LONG.72-04-36.0W BY DEL NORTE CONTROL. RECOMMENDS CHARTING THIS HANG AS A SUBM OBSTR WITH A WIRE DRAG CLEARANCE OF 41FT. SHOWN ON SMOOTH SHEET AS A GROUNDING. (ENTERED 11/14/83 RWD) FE343SS/90--OPR-B660-HE; SONARGRAMS SHOWED ONLY A FEW SMALL BOULDER FIELDS IN SEARCH AREA. NO SIGNIFICANT CONTACTS WERE FOUND. SURVEY DEPTHS SHOW THAT ORIGINAL WIRE DRAG WAS PASSING WITHIN TWO FEET OF THE BOTTOM THROUGHOUT THE AREA AND THIS ITEM WAS PROBABLY A GROUNDING. HYROGRAPHER AND EVALUATOR RECOMMEND TO DELETE CHARTED OBSTRUCTION AND APPLY DEPTHS FROM THIS INVESTIGATION. (UPDATED 8/92 MCR)id

Survey Summary**Survey Position:** 041° 17' 00.287" N, 72° 04' 33.645" W**Least Depth:** 13.34 m**Timestamp:** 2005-136.21:36:50.576 (05/16/2005)**Survey Line:** h11441 / 1014_mb / 2005-136 / 620_2129**Profile/Beam:** 4387/172**Charts Affected:** 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1**Remarks:**

This area is full of rocks and obstructions. MBES DTM show that none in this area shoal to significantly shoal of charted depths.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-136/620_2129	4387/172	0.00	000.0	Primary
OPR-B370-TJ-05_AWOIS	AWOIS # 3179	14.62	085.5	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 2:found by side scan sonar; 3:found by multi-beam
VERDAT - 12:Mean lower low water

3 - I.3. Charted Features

3.1) Contact/Point - 0013/1 from h11441 / 1005_100 / 2005-133 / 328_1518

Survey Summary

Survey Position: 041° 16' 02.857" N, 72° 01' 27.937" W

Least Depth: [None]

Timestamp: 2005-140.02:39:22 (05/20/2005)

Survey Line: h11441 / 1005_100 / 2005-133 / 328_1518

Contact/Point: 0013/1

Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

huge bolder field and various size rocks entire West coast of Fisher's Is. There are too many contacts in this area to directly address each.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-133/328_1518	0013	0.00	000.0	Primary
h11441/1005_100/2005-133/328_1518	0012	2.48	154.0	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0014	9.45	031.7	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 66	10.17	148.6	Secondary (grouped)
h11441/1005_100/2005-133/327_1458	0005	18.37	167.3	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0002	23.20	064.3	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0003	24.83	127.5	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0004	40.11	097.9	Secondary (grouped)
ChartGPs - ENC US4CN21M	Other 27	84.09	272.4	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0015	109.99	004.6	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0005	117.97	027.1	Secondary (grouped)
h11441/1005_100/2005-133/328_1517	0019	171.52	199.3	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0016	227.20	035.0	Secondary (grouped)
h11441/1005_100/2005-133/328_1517	0018	233.04	190.5	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0006	274.30	034.0	Secondary (grouped)
h11441/1005_100/2005-133/327_1458	0004	305.81	043.5	Secondary (grouped)
h11441/1005_100/2005-133/147_1449	0001	310.55	041.3	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	39	327.98	040.8	Secondary (grouped)
h11441/1005_mb/2005-136/012_1841	454/5	350.32	047.4	Secondary (grouped)

ChartGPs - ENC US4CN21M	Danger 65	377.06	022.3	Secondary (grouped)
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Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 2:depth unknown
TECSOU - 3:found by multi-beam

3.2) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-134 / 157_1243

Survey Summary

Survey Position: 041° 17' 18.272" N, 72° 01' 05.098" W
Least Depth: [None]
Timestamp: 2005-141.07:49:05 (05/21/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 157_1243
Contact/Point: 0001/1
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Massive rocks in bolder field surrounding North Dumpling Island. Some contacts are more shoal than chart indicates. Contacts too numerous to address each one.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/157_1243	0001	0.00	000.0	Primary
h11441/1005_100/2005-134/321_1342	0001	0.72	019.7	Secondary
h11441/1005_100/2005-134/158_1201	0002	6.83	259.8	Secondary (grouped)
h11441/1005_100/2005-134/321_1342	0002	9.26	080.9	Secondary
h11441/1005_100/2005-134/156_1248	0001	21.20	319.2	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 72	53.72	113.6	Secondary (grouped)
h11441/1005_100/2005-134/157_1243	0002	60.27	096.4	Secondary (grouped)
h11441/1005_mb/2005-134/158_1201	458/19	79.71	072.7	Secondary (grouped)
h11441/1005_100/2005-134/077_1422	0001	149.44	203.7	Secondary (grouped)
h11441/1005_100/2005-134/158_1201	0003	192.77	349.0	Secondary (grouped)
h11441/1005_100/2005-134/076_1420	0002	223.65	215.4	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: TECSOU - 2:found by side scan sonar

WATLEV - 3:always under water/submerged

3.3) Profile/Beam - 685/81 from h11441 / 1005_mb / 2005-134 / 921_1227

Survey Summary

Survey Position: 041° 17' 12.549" N, 72° 01' 46.063" W
Least Depth: 21.10 m
Timestamp: 2005-134.12:28:44.445 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 921_1227
Profile/Beam: 685/81
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Non dangerous wreck, slightly shoal of charted depth, appears to be barge.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/921_1227	685/81	0.00	000.0	Primary
h11441/1005_100/2005-134/921_1227	0002	14.88	024.0	Secondary
ChartGPs - ENC US4CN21M	Danger 89	36.34	295.0	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

69ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

11fm (12300_1, 13006_1, 13003_1)

21m (5161_1)

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 1:non-dangerous wreck
 STATUS - 1:permanent
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 21.099 m
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

3.4) Profile/Beam - 452/80 from h11441 / 1005_mb / 2005-139 / 221_1639

Survey Summary

Survey Position: 041° 18' 45.906" N, 72° 03' 07.128" W
Least Depth: 2.04 m
Timestamp: 2005-139.16:39:28.841 (05/19/2005)
Survey Line: h11441 / 1005_mb / 2005-139 / 221_1639
Profile/Beam: 452/80
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-139/221_1639	452/80	0.00	000.0	Primary
h11441/1005_100/2005-132/235_1738	0003	26.90	091.7	Secondary (grouped)
h11441/1005_100/2005-133/273_2227	0001	46.53	114.5	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	70	61.86	170.6	Secondary (grouped)
h11441/1005_mb/2005-132/235_1738	9618/8	64.48	277.2	Secondary (grouped)
h11441/1005_100/2005-133/878_2205	0003	65.91	188.7	Secondary (grouped)
ChartGPs - ENC US4CN21M	AToN 35	208.19	191.6	Secondary (grouped)
ChartGPs - ENC US4CN21M	Other 45	219.33	141.4	Secondary (grouped)
ChartGPs - ENC US4CN21M	Other 47	291.34	157.3	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

6ft (13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1)

1fm (12300_1, 13006_1, 13003_1)

2.0m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

3.5) Profile/Beam - 1530/53 from h11441 / 1014_mb / 2005-131 / 244_2254

Survey Summary

Survey Position: 041° 16' 31.327" N, 72° 03' 49.857" W
Least Depth: 16.16 m
Timestamp: 2005-131.22:57:55.827 (05/11/2005)
Survey Line: h11441 / 1014_mb / 2005-131 / 244_2254
Profile/Beam: 1530/53
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

'Obstn', Rocky area, west of charted 'obstn'

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-131/244_2254	1530/53	0.00	000.0	Primary
h11441/1005_100/2005-133/129_1227	0001	7.21	138.4	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 4	51.29	326.4	Secondary (grouped)

Hydrographer Recommendations

Move 'obstn' to west per digital data.

Cartographically-Rounded Depth (Affected Charts):

53ft (13212_1, 12372_1, 12354_1, 13205_1)

8 ¾fm (12300_1, 13006_1, 13003_1)

16.1m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 16.155 m
 WATLEV - 3:always under water/submerged

3.6) Profile/Beam - 6483/54 from h11441 / 1014_mb / 2005-134 / 622_1320

Survey Summary

Survey Position: 041° 16' 45.868" N, 72° 05' 58.692" W
Least Depth: 13.59 m
Timestamp: 2005-134.13:33:01.289 (05/14/2005)
Survey Line: h11441 / 1014_mb / 2005-134 / 622_1320
Profile/Beam: 6483/54
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area which appears to be significantly deeper than charted depth, charted '35' rock to north-east was not seen. 8125 MBES shows this to be shoalest point in area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/622_1320	6483/54	0.00	000.0	Primary
h11441/1005_100/2005-132/127_1908	0009	2.49	032.3	Secondary (grouped)
h11441/1005_100/2005-132/126_1923	0002	5.95	273.8	Secondary (grouped)
h11441/1005_100/2005-132/127_1908	0014	35.78	290.2	Secondary (grouped)
h11441/1005_100/2005-132/127_1908	0015	35.94	308.5	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	47	57.04	220.0	Secondary (grouped)
h11441/1005_100/2005-132/126_1923	0009	68.45	243.2	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 43	84.48	239.3	Secondary (grouped)

Hydrographer Recommendations

Remove charted '35' rock to north east of this location.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VALSOU - 13.585 m
 WATLEV - 3:always under water/submerged

3.7) Profile/Beam - 472/184 from h11441 / 1014_mb / 2005-142 / 183_1335

Survey Summary

Survey Position: 041° 17' 52.991" N, 72° 06' 24.570" W
Least Depth: 1.13 m
Timestamp: 2005-142.13:36:10.433 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 183_1335
Profile/Beam: 472/184
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoal rock as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/183_1335	472/184	0.00	000.0	Primary
h11441/1005_100/2005-134/258_1918	0002	4.19	226.3	Secondary (grouped)
h11441/1005_100/2005-134/272_1914	0001	17.31	271.9	Secondary (grouped)
ChartGPs - ENC US4CN21M	Danger 54	24.69	230.9	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

3ft (13212_1, 12372_1, 12354_1, 13205_1)

0 ½fm (12300_1, 13006_1, 13003_1)

1.1m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

3.8) Contact/Point - 0007/1 from h11441 / 1005_100 / 2005-135 / 155_1930

Survey Summary

Survey Position: 041° 21' 52.852" N, 72° 05' 24.805" W
Least Depth: [None]
Timestamp: 2005-138.10:47:27 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 155_1930
Contact/Point: 0007/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin or pile. The position error is increased due to navigation interference by the bridge. There is a pile charted near this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/155_1930	0007	0.00	000.0	Primary
ChartGPs - Digitized	1	31.50	108.6	Secondary (grouped)

Hydrographer Recommendations

Retain charted 'dol' in this area.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

3.9) Contact/Point - 0002/1 from h11441 / 1005_100 / 2005-135 / 101_1448

Survey Summary

Survey Position: 041° 20' 07.041" N, 72° 04' 55.377" W
Least Depth: [None]
Timestamp: 2005-138.07:50:13 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 101_1448
Contact/Point: 0002/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/101_1448	0002	0.00	000.0	Primary
h11441/1005_100/2005-135/235_1813	0005	7.42	019.2	Secondary
h11441/1005_100/2005-135/234_1800	0004	8.54	000.1	Secondary (grouped)

Hydrographer Recommendations

Chart dolphin here.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

3.10) Contact/Point - 0003/1 from h11441 / 1005_100 / 2005-135 / 209_1835

Survey Summary

Survey Position: 041° 21' 43.789" N, 72° 05' 19.953" W
Least Depth: [None]
Timestamp: 2005-138.10:31:05 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1835
Contact/Point: 0003/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area along shore line.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1835	0003	0.00	000.0	Primary
h11441/1005_100/2005-135/209_1835	0002	11.88	086.3	Secondary (grouped)
h11441/1005_100/2005-135/209_1834	0021	12.82	116.0	Secondary
h11441/1005_100/2005-135/156_1925	0007	14.46	134.0	Secondary
h11441/1005_100/2005-135/155_1930	0001	16.70	133.2	Secondary
h11441/1005_100/2005-135/100_1514	0007	29.88	156.4	Secondary

Hydrographer Recommendations

Chart as 'foul'

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
 TECSOU - 2:found by side scan sonar
 WATLEV - 3:always under water/submerged

3.11) Contact/Point - 0014/1 from h11441 / 1005_100 / 2005-135 / 216_1037**Survey Summary**

Survey Position: 041° 21' 03.165" N, 72° 05' 44.360" W
Least Depth: [None]
Timestamp: 2005-138.06:19:52 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1037
Contact/Point: 0014/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Ruins along shoreline, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1037	0014	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CONDTN - 2:ruined
NATCON - 6:wooden

3.12) Contact/Point - 0019/1 from h11441 / 1005_100 / 2005-135 / 216_1037**Survey Summary**

Survey Position: 041° 20' 54.407" N, 72° 05' 45.285" W
Least Depth: [None]
Timestamp: 2005-138.06:22:59 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1037
Contact/Point: 0019/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Charted wreck (Barge?) near shore. Shadow off trace, minimum depth unknown.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1037	0019	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1037	0018	12.40	170.0	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 2:dangerous wreck
STATUS - 1:permanent
TECSOU - 2:found by side scan sonar

3.13) Contact/Point - 0004/1 from h11441 / 1005_100 / 2005-135 / 223_1954**Survey Summary**

Survey Position: 041° 20' 58.105" N, 72° 05' 55.482" W
Least Depth: [None]
Timestamp: 2005-138.10:57:04 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 223_1954
Contact/Point: 0004/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/223_1954	0004	0.00	000.0	Primary

Hydrographer Recommendations

As charted.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

3.14) Contact/Point - 0005/1 from h11441 / 1005_100 / 2005-135 / 231_1046**Survey Summary**

Survey Position: 041° 20' 14.014" N, 72° 05' 50.097" W
Least Depth: [None]
Timestamp: 2005-138.06:38:33 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 231_1046
Contact/Point: 0005/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

pier face, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/231_1046	0005	0.00	000.0	Primary

Hydrographer Recommendations

Retain.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4: pier (jetty)

3.15) Contact/Point - 0006/1 from h11441 / 1005_100 / 2005-135 / 231_1047**Survey Summary**

Survey Position: 041° 20' 00.636" N, 72° 05' 44.533" W
Least Depth: [None]
Timestamp: 2005-138.06:44:04 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 231_1047
Contact/Point: 0006/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Ruins or pier face

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/231_1047	0006	0.00	000.0	Primary

Hydrographer Recommendations

Verify with aerial imagery.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)
OBJNAM - ruins

3.16) Contact/Point - 0008/1 from h11441 / 1005_100 / 2005-135 / 231_1047**Survey Summary**

Survey Position: 041° 19' 44.626" N, 72° 05' 25.503" W
Least Depth: [None]
Timestamp: 2005-138.06:45:13 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 231_1047
Contact/Point: 0008/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Ruins, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/231_1047	0008	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)
CONDTN - 2:ruined
OBJNAM - ruins

3.17) Contact/Point - 0004/1 from h11441 / 1005_100 / 2005-135 / 231_1048**Survey Summary**

Survey Position: 041° 19' 14.353" N, 72° 05' 17.132" W
Least Depth: [None]
Timestamp: 2005-138.06:49:55 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 231_1048
Contact/Point: 0004/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area near shore, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/231_1048	0004	0.00	000.0	Primary
h11441/1005_100/2005-135/231_1048	0002	4.51	145.1	Secondary (grouped)

Hydrographer Recommendations

Retain.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar

3.18) Contact/Point - 0005/1 from h11441 / 1005_100 / 2005-135 / 234_1800

Survey Summary

Survey Position: 041° 20' 08.501" N, 72° 04' 55.408" W
Least Depth: [None]
Timestamp: 2005-138.10:08:30 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 234_1800
Contact/Point: 0005/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier face, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/234_1800	0005	0.00	000.0	Primary
h11441/1005_mb/2005-137/416_1051	1415/1	5.43	119.6	Secondary
h11441/1005_100/2005-135/101_1448	0004	6.08	014.1	Secondary (grouped)
h11441/1014_mb/2005-141/172_1818	299/1	6.56	347.2	Secondary (grouped)
h11441/1014_mb/2005-141/172_1818	344/1	7.87	142.0	Secondary (grouped)
h11441/1014_mb/2005-141/172_1818	309/1	10.61	349.5	Secondary (grouped)
h11441/1014_mb/2005-141/172_1818	335/1	11.09	209.9	Secondary (grouped)
h11441/1014_mb/2005-141/172_1818	327/1	14.19	201.4	Secondary (grouped)
h11441/1014_mb/2005-141/172_1818	318/1	14.55	350.1	Secondary (grouped)

Hydrographer Recommendations

Retain as charted

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)

3.19) Contact/Point - 0006/1 from h11441 / 1005_100 / 2005-135 / 235_1812**Survey Summary**

Survey Position: 041° 19' 33.051" N, 72° 04' 38.345" W
Least Depth: [None]
Timestamp: 2005-138.10:13:39 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 235_1812
Contact/Point: 0006/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier face, verifies chart.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/235_1812	0006	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)

3.20) Contact/Point - 0003/1 from h11441 / 1005_100 / 2005-135 / 235_1813**Survey Summary**

Survey Position: 041° 20' 11.040" N, 72° 04' 52.565" W
Least Depth: [None]
Timestamp: 2005-138.10:17:52 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 235_1813
Contact/Point: 0003/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/235_1813	0003	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)

3.21) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-135 / 235_1813

Survey Summary

Survey Position: 041° 20' 02.142" N, 72° 04' 48.697" W
Least Depth: [None]
Timestamp: 2005-138.10:17:06 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 235_1813
Contact/Point: 0001/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier face, verifies charted data

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/235_1813	0001	0.00	000.0	Primary
h11441/1005_100/2005-135/236_1750	0001	4.63	067.4	Secondary
h11441/1005_100/2005-135/235_1813	0002	26.00	197.9	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)
 OBJNAM - Fuel terminal pier.

3.22) Contact/Point - 0004/1 from h11441 / 1005_200 / 2005-135 / 200_2113

Survey Summary

Survey Position: 041° 20' 22.834" N, 72° 05' 04.098" W
Least Depth: [None]
Timestamp: 2005-139.05:14:05 (05/19/2005)
Survey Line: h11441 / 1005_200 / 2005-135 / 200_2113
Contact/Point: 0004/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Degaussing Range, as charted. Dredged, cross channel trench with cable assembly within. All cables and structures appear to be set deeper than the surrounding channel.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_200/2005-135/200_2113	0004	0.00	000.0	Primary
h11441/1005_mb/2005-135/200_2113	4948/45	4.85	187.7	Secondary
h11441/1005_100/2005-135/101_1448	0008	7.36	184.5	Secondary (grouped)
h11441/1005_100/2005-135/100_1515	0001	13.12	262.2	Secondary (grouped)
h11441/1014_mb/2005-135/160_1908	268/195	15.49	250.0	Secondary (grouped)
h11441/1014_mb/2005-135/162_1856	356/240	53.55	092.0	Secondary (grouped)
h11441/1005_100/2005-135/232_1824	0005	53.98	257.3	Secondary (grouped)
h11441/1014_mb/2005-140/171_1828	1964/1	88.16	263.8	Secondary (grouped)
h11441/1005_100/2005-135/232_1824	0004	162.12	261.2	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Pipeline, submarine/on land (PIPSOL)
Attributes: INFORM - submerged cable
 OBJNAM - Degaussing Range

STATUS - 1:permanent

3.23) Contact/Point - 0005/1 from h11441 / 1005_200 / 2005-135 / 245_2039

Survey Summary

Survey Position: 041° 21' 38.170" N, 72° 05' 25.097" W
Least Depth: [None]
Timestamp: 2005-317.01:55:37 (11/13/2005)
Survey Line: h11441 / 1005_200 / 2005-135 / 245_2039
Contact/Point: 0005/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

warf, verifies chart.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_200/2005-135/245_2039	0005	0.00	000.0	Primary
h11441/1005_100/2005-135/209_1835	0004	21.12	206.9	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 6:wharf (quay)
STATUS - 1:permanent
WATLEV - 2:always dry

3.24) Profile/Beam - 47/101 from h11441 / 1005_mb / 2005-117 / 165_1833

Survey Summary

Survey Position: 041° 20' 05.903" N, 72° 04' 54.311" W
Least Depth: 2.63 m
Timestamp: 2005-117.18:33:18.119 (04/27/2005)
Survey Line: h11441 / 1005_mb / 2005-117 / 165_1833
Profile/Beam: 47/101
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large dolphin.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-117/165_1833	47/101	0.00	000.0	Primary
h11441/1005_mb/2005-117/165_1833	38/101	1.90	189.3	Secondary (grouped)
h11441/1005_100/2005-135/234_1800	0006	2.64	024.3	Secondary
h11441/1005_100/2005-135/236_1750	0002	3.42	208.1	Secondary (grouped)
h11441/1005_100/2005-135/235_1813	0004	3.46	077.3	Secondary (grouped)
h11441/1005_mb/2005-117/165_1833	52/101	3.61	276.4	Secondary (grouped)
h11441/1005_mb/2005-117/165_1833	69/101	3.94	352.4	Secondary (grouped)
h11441/1005_mb/2005-117/165_1833	29/101	4.39	207.5	Secondary (grouped)
h11441/1005_100/2005-135/101_1448	0001	4.81	224.4	Secondary (grouped)
h11441/1005_mb/2005-117/161_1911	2718/62	91.67	032.8	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

8ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

1 ½fm (12300_1, 13006_1, 13003_1)

2.6m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

3.25) Profile/Beam - 1202/40 from h11441 / 1005_mb / 2005-134 / 155_1417

Survey Summary

Survey Position: 041° 17' 32.353" N, 72° 00' 55.736" W
Least Depth: 16.59 m
Timestamp: 2005-134.14:18:34.978 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 155_1417
Profile/Beam: 1202/40
Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock outcrop as charted. RESON 8101 MBES shows it to be shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/155_1417	1202/40	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

54ft (13212_1, 13214_1, 12372_1, 13205_1)

9fm (12300_1, 13006_1, 13003_1)

16.6m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

3.26) Profile/Beam - 306/95 from h11441 / 1005_mb / 2005-134 / 215_2314

Survey Summary

Survey Position: 041° 21' 31.401" N, 72° 05' 30.333" W
Least Depth: 3.61 m
Timestamp: 2005-134.23:14:27.881 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 215_2314
Profile/Beam: 306/95
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky foul area, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/215_2314	306/95	0.00	000.0	Primary
h11441/1005_mb/2005-134/215_2314	281/90	3.53	200.5	Secondary (grouped)
h11441/1005_100/2005-134/215_2314	0005	3.75	290.8	Secondary
h11441/1005_mb/2005-134/215_2314	341/97	4.60	004.0	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

12ft (13213_1, 12372_4, 12354_1, 13205_1)

2fm (12300_1, 13006_1, 13003_1)

3.6m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 3.610 m
 WATLEV - 3:always under water/submerged

3.27) Profile/Beam - 2195/49 from h11441 / 1005_mb / 2005-135 / 239_1550

Survey Summary

Survey Position: 041° 20' 01.844" N, 72° 05' 28.388" W
Least Depth: 4.07 m
Timestamp: 2005-135.15:52:01.125 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 239_1550
Profile/Beam: 2195/49
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Buoy "2A", located approximately 104 m south-west of charted location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/239_1550	2195/49	0.00	000.0	Primary
h11441/1005_100/2005-135/239_1550	0001	12.06	100.8	Secondary

Hydrographer Recommendations

Verify with aerial imagery, update buoy position if necessary.

Cartographically-Rounded Depth (Affected Charts):

13ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.0m (5161_1)

S-57 Data

Geo object 1: Buoy, isolated danger (BOYISD)
Attributes: BOYSHP - 1:conical (nun, ogival)
 COLOUR - 3:red

3.28) Profile/Beam - 2445/15 from h11441 / 1005_mb / 2005-137 / 277_1535

Survey Summary

Survey Position: 041° 17' 18.234" N, 72° 01' 46.098" W
Least Depth: 30.29 m
Timestamp: 2005-137.15:42:01.341 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 277_1535
Profile/Beam: 2445/15
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

'Obstn' in deep water as charted. Appears as Small ridge.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/277_1535	2445/15	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

99ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

16fm (12300_1, 13006_1, 13003_1)

30m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 30.291 m
 WATLEV - 3:always under water/submerged

3.29) Profile/Beam - 1030/1 from h11441 / 1005_mb / 2005-137 / 416_1051

Survey Summary

Survey Position: 041° 20' 07.376" N, 72° 04' 54.358" W
Least Depth: 1.88 m
Timestamp: 2005-137.10:52:18.650 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 416_1051
Profile/Beam: 1030/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/416_1051	1030/1	0.00	000.0	Primary
h11441/1005_mb/2005-137/416_1051	1046/1	2.62	096.9	Secondary (grouped)
h11441/1005_mb/2005-137/416_1051	1041/1	3.72	082.4	Secondary (grouped)
h11441/1005_100/2005-135/235_1813	0006	3.74	068.2	Secondary
h11441/1005_mb/2005-137/416_1051	996/1	4.68	037.7	Secondary (grouped)
h11441/1005_mb/2005-137/416_1051	985/4	5.69	034.6	Secondary (grouped)

Hydrographer Recommendations

Chart dolphin here.

Cartographically-Rounded Depth (Affected Charts):

6ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

1fm (12300_1, 13006_1, 13003_1)

1.9m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

3.30) Profile/Beam - 883/101 from h11441 / 1005_mb / 2005-137 / 416_1120**Survey Summary**

Survey Position: 041° 20' 09.421" N, 72° 04' 53.921" W
Least Depth: 2.94 m
Timestamp: 2005-137.11:21:06.494 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 416_1120
Profile/Beam: 883/101
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphins

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/416_1120	883/101	0.00	000.0	Primary

Hydrographer Recommendations

Retain pier as charted

S-57 Data**Geo object 1:** Pile (PILPNT)

3.31) Profile/Beam - 1747/4 from h11441 / 1005_mb / 2005-138 / 167_2054

Survey Summary

Survey Position: 041° 17' 24.385" N, 72° 06' 12.122" W
Least Depth: 4.31 m
Timestamp: 2005-138.20:55:49.872 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 167_2054
Profile/Beam: 1747/4
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, slightly shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/167_2054	1747/4	0.00	000.0	Primary
h11441/1005_100/2005-134/265_2050	0003	25.83	250.1	Secondary (grouped)
h11441/1005_mb/2005-138/167_2054	1532/98	39.37	016.4	Secondary (grouped)
h11441/1005_100/2005-134/266_2100	0004	56.64	327.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

14ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.3m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

3.32) Profile/Beam - 388/7 from h11441 / 1005_mb / 2005-139 / 253_1801

Survey Summary

Survey Position: 041° 18' 40.954" N, 72° 03' 45.601" W
Least Depth: 2.96 m
Timestamp: 2005-139.18:01:48.160 (05/19/2005)
Survey Line: h11441 / 1005_mb / 2005-139 / 253_1801
Profile/Beam: 388/7
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock cluster, shoal of charted sounding. Found with RESON 8101 and Klein 5000.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-139/253_1801	388/7	0.00	000.0	Primary
h11441/1005_100/2005-133/879_2119	0002	15.96	099.9	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

9ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1 ½fm (12300_1, 13006_1, 13003_1)

2.9m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 2.957 m
 WATLEV - 3:always under water/submerged

3.33) Profile/Beam - 901/197 from h11441 / 1014_mb / 2005-132 / 902_1256

Survey Summary

Survey Position: 041° 21' 11.675" N, 72° 05' 29.761" W
Least Depth: 3.88 m
Timestamp: 2005-132.12:56:49.149 (05/12/2005)
Survey Line: h11441 / 1014_mb / 2005-132 / 902_1256
Profile/Beam: 901/197
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoal formed from sunken pier.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-132/902_1256	901/197	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

12ft (13213_1, 12372_4, 12354_1, 13205_1)

2fm (12300_1, 13006_1, 13003_1)

3.9m (5161_1)

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)

Attributes: CONDTN - 2:ruined

OBJNAM - sunken pier.

3.34) Profile/Beam - 236/1 from h11441 / 1014_mb / 2005-141 / 172_1818

Survey Summary

Survey Position: 041° 20' 10.166" N, 72° 04' 55.849" W
Least Depth: 8.45 m
Timestamp: 2005-141.18:19:12.364 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 172_1818
Profile/Beam: 236/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large dolphin, as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/172_1818	236/1	0.00	000.0	Primary
h11441/1005_100/2005-135/234_1800	0002	4.08	147.2	Secondary
h11441/1005_100/2005-135/101_1448	0005	10.59	169.3	Secondary (grouped)

Hydrographer Recommendations

Retain.

Cartographically-Rounded Depth (Affected Charts):

27ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

4 ½fm (12300_1, 13006_1, 13003_1)

8.4m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

3.35) Profile/Beam - 1268/5 from h11441 / 1005_mb / 2005-135 / 500_1856

Survey Summary

Survey Position: 041° 21' 34.909" N, 72° 05' 23.056" W
Least Depth: 6.09 m
Timestamp: 2005-135.18:57:18.668 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 500_1856
Profile/Beam: 1268/5
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Addition line of pile clusters, These are large dolphins.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/500_1856	1268/5	0.00	000.0	Primary
h11441/1005_100/2005-134/213_2317	0004	0.51	228.4	Secondary
h11441/1005_100/2005-135/209_1835	0005	5.04	211.2	Secondary
h11441/1005_100/2005-135/500_1856	0003	7.26	125.5	Secondary (grouped)
h11441/1005_100/2005-135/211_1849	0003	9.36	093.3	Secondary
h11441/1005_100/2005-135/211_1849	0004	19.24	104.5	Secondary
h11441/1014_mb/2005-135/142_1152	3186/128	40.86	114.9	Secondary

Hydrographer Recommendations

Chart a dolphin at this survey position.

Cartographically-Rounded Depth (Affected Charts):

20ft (13213_1, 12372_4, 12354_1, 13205_1)

3 ¼fm (12300_1, 13006_1, 13003_1)

6.1m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 1:stake

3.36) Profile/Beam - 1605/4 from h11441 / 1005_mb / 2005-135 / 500_1856

Survey Summary

Survey Position: 041° 21' 35.125" N, 72° 05' 24.443" W
Least Depth: 5.06 m
Timestamp: 2005-135.18:57:28.146 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 500_1856
Profile/Beam: 1605/4
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Western extension of line of dolphins.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/500_1856	1605/4	0.00	000.0	Primary
h11441/1005_100/2005-135/500_1856	0004	4.95	172.4	Secondary (grouped)

Hydrographer Recommendations

Chart dolphin at this survey location.

Cartographically-Rounded Depth (Affected Charts):

16ft (13213_1, 12372_4, 12354_1, 13205_1)

2 ¾fm (12300_1, 13006_1, 13003_1)

5.0m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 1:stake

3.37) Contact/Point - 0008/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 26.219" N, 72° 05' 05.132" W
Least Depth: [None]
Timestamp: 2005-138.10:24:46 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0008/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shore

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0008	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Land area (LNDARE)
Attributes: STATUS - 1:permanent

3.38) Contact/Point - 0015/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 44.478" N, 72° 05' 05.748" W
Least Depth: [None]
Timestamp: 2005-138.10:27:25 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0015/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoreline concurs with raster chart.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0015	0.00	000.0	Primary

Hydrographer Recommendations

Correct shroeline from ENC US4CN21M chart.

S-57 Data

Geo object 1: Land area (LNDARE)
Attributes: STATUS - 1:permanent

3.39) Contact/Point - 0004/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 11.936" N, 72° 05' 04.118" W
Least Depth: [None]
Timestamp: 2005-138.10:22:48 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0004/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0004	0.00	000.0	Primary

Hydrographer Recommendations

Leave charted piles on raster chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

3.40) Contact/Point - 0035/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 27.066" N, 72° 05' 35.901" W
Least Depth: [None]
Timestamp: 2006-025.04:01:53 (01/25/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0035/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0035	0.00	000.0	Primary

Hydrographer Recommendations

Leave 'Dol' as charted.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

3.41) GP No. - AToN 49 from ChartGPs - ENC US4CN21M

Survey Summary

Survey Position: 041° 18' 18.000" N, 72° 03' 49.997" W
Least Depth: [None]
Timestamp: [None]
GP Dataset: ChartGPs - ENC US4CN21M
GP No.: AToN 49
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

This Buoy was not visible at or near this location during survey.

Feature Correlation

Address	Feature	Range	Azimuth	Status
ChartGPs - ENC US4CN21M	AToN 49	0.00	000.0	Primary

Hydrographer Recommendations

disproven

S-57 Data

Geo object 1: Buoy, special purpose/general (BOYSPP)
Attributes: BOYSHP - 4:pillar
 CATSPM - 10:recording mark
 COLOUR - 6:yellow
 OBJNAM - Black Ledge Lighted Research Buoy
 SORDAT - 19931110
 STATUS - 8:private
Geo object 2: Light (LIGHTS)
Attributes: COLOUR - 6:yellow
 LITCHR - 2:flashing
 SIGGRP - (1)
 SIGPER - 4.0 s

SORDAT - 19931110

STATUS - 8:private

3.42) GP No. - AToN 50 from ChartGPs - ENC US4CN21M

Survey Summary

Survey Position: 041° 18' 11.999" N, 72° 03' 16.999" W
Least Depth: [None]
Timestamp: [None]
GP Dataset: ChartGPs - ENC US4CN21M
GP No.: AToN 50
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

This buoy was not present during the time of this survey.

Feature Correlation

Address	Feature	Range	Azimuth	Status
ChartGPs - ENC US4CN21M	AToN 50	0.00	000.0	Primary

Hydrographer Recommendations

Disproven, remove from chart.

S-57 Data

Geo object 1: Buoy, special purpose/general (BOYSPP)
Attributes: BOYSHP - 4:pillar
 CATSPM - 10:recording mark
 COLOUR - 6:yellow
 OBJNAM - Vixens Ledge Lighted Research Buoy
 SORDAT - 19931110
 STATUS - 8:private
Geo object 2: Light (LIGHTS)
Attributes: COLOUR - 6:yellow
 LITCHR - 2:flashing
 SIGGRP - (1)
 SIGPER - 4.0 s

SORDAT - 19931110

STATUS - 8:private

3.43) GP No. - AToN 58 from ChartGPs - ENC US4CN21M

Survey Summary

Survey Position: 041° 18' 54.076" N, 72° 03' 48.463" W
Least Depth: [None]
Timestamp: [None]
GP Dataset: ChartGPs - ENC US4CN21M
GP No.: AToN 58
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Lighthouse, this contact is about 30m south of the lighthouse as indicated on raster chart 13212_1

Feature Correlation

Address	Feature	Range	Azimuth	Status
ChartGPs - ENC US4CN21M	AToN 58	0.00	000.0	Primary

Hydrographer Recommendations

Adjust ENC.

S-57 Data

Geo object 1: Landmark (LNDMRK)
Attributes: CATLMK - 17:tower
CONVIS - 1:visual conspicuous
FUNCTN - 33:light support
OBJNAM - Aband Avery Pt Lighthouse
SORDAT - 19990904
STATUS - 4:disused

3.44) GP No. - Other 33 from ChartGPs - ENC US4CN21M

Survey Summary

Survey Position: 041° 18' 48.305" N, 72° 05' 32.975" W
Least Depth: [None]
Timestamp: [None]
GP Dataset: ChartGPs - ENC US4CN21M
GP No.: Other 33
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

This ENC 'land area' is as much as 100 meters east of the raster charted land.

Feature Correlation

Address	Feature	Range	Azimuth	Status
ChartGPs - ENC US4CN21M	Other 33	0.00	000.0	Primary
ChartGPs - Digitized	3	54.75	098.1	Secondary (grouped)

Hydrographer Recommendations

Update ENC if necessary.

S-57 Data

Geo object 1: Land area (LNDARE)
Attributes: SORDAT - 19990904

3.45) GP No. - Other 38 from ChartGPs - ENC US4CN21M

Survey Summary

Survey Position: 041° 18' 54.335" N, 72° 03' 41.162" W
Least Depth: [None]
Timestamp: [None]
GP Dataset: ChartGPs - ENC US4CN21M
GP No.: Other 38
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

contact (land area) is reported to be south of a small island, nearest land area, charted on the raster chart. This area was not covered in this survey.

Feature Correlation

Address	Feature	Range	Azimuth	Status
ChartGPs - ENC US4CN21M	Other 38	0.00	000.0	Primary

Hydrographer Recommendations

Move ENC contact to north.

S-57 Data

Geo object 1: Land area (LNDARE)
Attributes: SORDAT - 19990904
STATUS - 1:permanent

3.46) Contact/Point - 0003/1 from h11441 / 1005_100 / 2005-135 / 154_1916**Survey Summary**

Survey Position: 041° 21' 47.429" N, 72° 05' 05.438" W
Least Depth: [None]
Timestamp: 2005-138.10:38:31 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 154_1916
Contact/Point: 0003/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoreline, concurs with raster chart. ENC chart US4CN21M shows shoreline 30m to the east.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/154_1916	0003	0.00	000.0	Primary

Hydrographer Recommendations

Correct shoreline on ENC US4CN21M

S-57 Data

Geo object 1: Land area (LNDARE)
Attributes: STATUS - 1:permanent

3.47) Profile/Beam - 222/101 from h11441 / 1005_mb / 2005-135 / 232_1824

Survey Summary

Survey Position: 041° 20' 11.394" N, 72° 04' 56.014" W
Least Depth: 2.36 m
Timestamp: 2005-135.18:24:41.890 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 232_1824
Profile/Beam: 222/101
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphins as charted

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/232_1824	222/101	0.00	000.0	Primary
h11441/1005_100/2005-135/101_1448	0006	1.94	080.4	Secondary
h11441/1005_100/2005-135/233_1757	0003	3.76	268.0	Secondary (grouped)
h11441/1005_100/2005-135/232_1824	0002	3.76	222.3	Secondary (grouped)
h11441/1005_mb/2005-135/232_1824	261/101	5.13	267.9	Secondary (grouped)
h11441/1005_100/2005-135/234_1800	0001	8.39	357.0	Secondary (grouped)

Hydrographer Recommendations

Retain.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

3.48) Profile/Beam - 470/101 from h11441 / 1005_mb / 2005-135 / 232_1824

Survey Summary

Survey Position: 041° 20' 11.968" N, 72° 04' 55.152" W
Least Depth: 2.21 m
Timestamp: 2005-135.18:24:48.848 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 232_1824
Profile/Beam: 470/101
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/232_1824	470/101	0.00	000.0	Primary
h11441/1005_100/2005-135/232_1824	0001	4.09	245.5	Secondary
h11441/1005_100/2005-135/233_1757	0001	4.44	300.5	Secondary (grouped)

Hydrographer Recommendations

Keep charted pile

Cartographically-Rounded Depth (Affected Charts):

7ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

1 ¼fm (12300_1, 13006_1, 13003_1)

2.2m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

3.49) Profile/Beam - 1734/12 from h11441 / 1005_mb / 2005-134 / 850_1853

Survey Summary

Survey Position: 041° 18' 44.365" N, 72° 05' 24.808" W

Least Depth: 2.72 m

Timestamp: 2005-134.18:54:28.409 (05/14/2005)

Survey Line: h11441 / 1005_mb / 2005-134 / 850_1853

Profile/Beam: 1734/12

Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

large rock outcrop, shoal of charted sounding

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/850_1853	1734/12	0.00	000.0	Primary
h11441/1005_mb/2005-137/123_1259	780/49	17.72	219.7	Secondary (grouped)
h11441/1005_mb/2005-137/123_1259	657/99	21.22	132.9	Secondary (grouped)
h11441/1005_mb/2005-137/124_1253	562/96	26.10	177.6	Secondary (grouped)
h11441/1005_mb/2005-137/122_1301	268/4	27.14	283.0	Secondary (grouped)
h11441/1005_mb/2005-137/124_1253	368/94	27.49	254.9	Secondary (grouped)
h11441/1005_mb/2005-137/123_1259	793/8	28.43	218.6	Secondary (grouped)
h11441/1005_100/2005-134/850_1853	0001	30.86	025.7	Secondary (grouped)
h11441/1005_100/2005-134/252_1857	0004	33.08	116.4	Secondary (grouped)
h11441/1005_mb/2005-137/121_1258	97/11	36.26	265.2	Secondary (grouped)
h11441/1005_200/2005-135/226_2207	0002	36.47	017.9	Secondary (grouped)
h11441/1005_mb/2005-137/120_1250	1321/95	39.36	205.0	Secondary (grouped)
h11441/1005_mb/2005-137/120_1250	1249/97	41.01	189.3	Secondary (grouped)
h11441/1005_mb/2005-137/129_1256	1260/97	42.43	169.8	Secondary (grouped)
h11441/1005_mb/2005-137/125_1247	273/3	43.51	336.8	Secondary (grouped)
H11224_LIDAR_OK.csv	43	47.62	147.6	Secondary (grouped)
h11441/1005_mb/2005-137/124_1253	748/101	48.97	146.7	Secondary (grouped)
h11441/1005_mb/2005-137/126_1247	8/9	51.15	114.2	Secondary (grouped)
h11441/1005_100/2005-134/251_1849	0001	60.37	334.5	Secondary (grouped)
h11441/1005_mb/2005-134/850_1853	2213/98	63.99	238.8	Secondary (grouped)

h11441/1005_mb/2005-137/119_1245	311/23	98.89	171.5	Secondary (grouped)
h11441/1005_mb/2005-137/118_1219	343/5	104.14	155.4	Secondary (grouped)
h11441/1005_mb/2005-137/119_1245	199/69	106.26	162.7	Secondary (grouped)
h11441/1005_mb/2005-137/127_1249	1583/6	119.71	081.9	Secondary (grouped)
h11441/1005_mb/2005-137/127_1249	1464/88	123.44	069.9	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	61	131.27	029.8	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

9ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1 ½fm (12300_1, 13006_1, 13003_1)

2.7m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

3.50) Profile/Beam - 903/109 from h11441 / 1014_mb / 2005-141 / 503_1312

Survey Summary

Survey Position: 041° 20' 13.328" N, 72° 05' 44.697" W
Least Depth: 1.63 m
Timestamp: 2005-141.13:13:03.184 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 503_1312
Profile/Beam: 903/109
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, current DTM shows rock to be south of charted location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/503_1312	903/109	0.00	000.0	Primary
h11441/1005_100/2005-135/230_1217	0003	5.88	329.7	Secondary
h11441/1005_100/2005-135/231_1046	0006	6.79	263.0	Secondary (grouped)
h11441/1014_mb/2005-141/500_1321	893/93	18.65	147.2	Secondary (grouped)
h11441/1014_mb/2005-141/498_1313	732/172	21.10	122.8	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	59	27.91	131.0	Secondary (grouped)
h11441/1014_mb/2005-141/496_1319	670/30	34.05	119.3	Secondary (grouped)
h11441/1014_mb/2005-141/495_1322	569/208	39.66	109.7	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

5ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

0 ¾m (12300_1, 13006_1, 13003_1)

1.6m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known
TECSOU - 2:found by side scan sonar; 3:found by multi-beam
VALSOU - 1.632 m
WATLEV - 3:always under water/submerged

3.51) Profile/Beam - 531/113 from h11441 / 1014_mb / 2005-141 / 516_1302

Survey Summary

Survey Position: 041° 20' 17.915" N, 72° 05' 43.469" W
Least Depth: 0.82 m
Timestamp: 2005-141.13:03:20.801 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 516_1302
Profile/Beam: 531/113
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock cluster, as charted, this rock was surveyed over with launch 1014. This rock may dry during extremely low tides.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/516_1302	531/113	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	58	1.27	328.4	Secondary
h11441/1005_100/2005-135/231_1046	0004	2.44	188.8	Secondary (grouped)
h11441/1014_mb/2005-141/518_1258	679/190	5.88	143.4	Secondary (grouped)
h11441/1014_mb/2005-141/517_1305	649/135	6.14	075.4	Secondary (grouped)
h11441/1014_mb/2005-141/516_1302	640/4	8.47	022.2	Secondary (grouped)
h11441/1014_mb/2005-141/518_1258	587/162	8.55	091.7	Secondary (grouped)
h11441/1014_mb/2005-141/515_1254	797/225	11.65	340.9	Secondary (grouped)
h11441/1014_mb/2005-141/517_1305	740/213	12.82	069.9	Secondary (grouped)
h11441/1014_mb/2005-141/513_1300	570/164	12.82	001.6	Secondary (grouped)
h11441/1014_mb/2005-141/520_1301	763/1	14.88	142.8	Secondary (grouped)
h11441/1014_mb/2005-141/517_1305	786/14	15.13	050.8	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

2ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

0 ½fm (12300_1, 13006_1, 13003_1)

.8m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

TECSOU - 2:found by side scan sonar; 3:found by multi-beam; 7:found by laser

VALSOU - 0.823 m

WATLEV - 3:always under water/submerged

3.52) GP No. - 17 from H11224_LIDAR_OK.csv

Survey Summary

Survey Position: 041° 18' 27.900" N, 72° 01' 28.877" W
Least Depth: 0.98 m
Timestamp: 1990-001.11:60:00.000 (01/01/1990)
GP Dataset: H11224_LIDAR_OK.csv
GP No.: 17
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Area of Poor Coverage

the top of this rocky reef could not be safely covered by MBES sonar safely.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11224_LIDAR_OK.csv	17	0.00	000.0	Primary

Hydrographer Recommendations

Retain, or check with LiDAR data if available.

S-57 Data

[None]

3.53) GP No. - 20 from H11224_LIDAR_OK.csv

Survey Summary

Survey Position: 041° 18' 47.974" N, 72° 01' 33.042" W
Least Depth: 3.49 m
Timestamp: 1990-001.11:60:00.000 (01/01/1990)
GP Dataset: H11224_LIDAR_OK.csv
GP No.: 20
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

MBES data could not be safely collected over this contact. Klein 5000 SSS (line: 1005_100\2005_132\235_1704) did not see any significant objects, however, this location is near the edge of the SSS coverage.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11224_LIDAR_OK.csv	20	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LiDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: VALSOU - 3.49 m
WATLEV - 3:always under water/submerged

3.54) GP No. - 28 from H11224_LIDAR_OK.csv

Survey Summary

Survey Position: 041° 18' 50.080" N, 72° 03' 08.064" W
Least Depth: 4.94 m
Timestamp: 1990-001.11:60:00.000 (01/01/1990)
GP Dataset: H11224_LIDAR_OK.csv
GP No.: 28
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

MBES could not be safely acquired in in this area. Klein 5000 SSS shows it to be a rocky area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11224_LIDAR_OK.csv	28	0.00	000.0	Primary
H11224_LIDAR_OK.csv	29	58.12	215.1	Secondary (grouped)

Hydrographer Recommendations

Chart per LIDAR data if availble.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 7:found by laser
VALSOU - 4.94 m
WATLEV - 4:covers and uncovers

3.55) GP No. - 31 from H11224_LIDAR_OK.csv

Survey Summary

Survey Position: 041° 18' 44.064" N, 72° 03' 59.141" W
Least Depth: 6.22 m
Timestamp: 1990-001.11:60:00.000 (01/01/1990)
GP Dataset: H11224_LIDAR_OK.csv
GP No.: 31
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

100% Klein SSS does not show any significant obstructions in this area. MBES coverage is sparse in this area and used mostly to provide bathymetry stripes to be used with the 100% SSS coverage.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11224_LIDAR_OK.csv	31	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LiDAR data if available.

S-57 Data

[None]

3.56) GP No. - 40 from H11225_LIDAR_ReqFldWrk.csv**Survey Summary**

Survey Position: 041° 17' 58.564" N, 72° 06' 03.499" W
Least Depth: -0.89 m
Timestamp: 1990-001.11:60:00.000 (01/01/1990)
GP Dataset: H11225_LIDAR_ReqFldWrk.csv
GP No.: 40
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Confirm whether drying rock or obstruction.

Could not get MBES safely over this area, did not get a photograph.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11225_LIDAR_ReqFldWrk.csv	40	0.00	000.0	Primary
H11225_LIDAR_TestArea.csv	81	2.36	087.3	Secondary

Hydrographer Recommendations**S-57 Data**

[None]

3.57) Contact/Point - 0005/1 from h11441 / 1005_100 / 2005-135 / 226_1321**Survey Summary**

Survey Position: 041° 20' 41.275" N, 72° 05' 27.560" W
Least Depth: [None]
Timestamp: 2005-138.07:18:32 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 226_1321
Contact/Point: 0005/1
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier face Near Coast Guard base, pier where the USCG EAGLE docks.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/226_1321	0005	0.00	000.0	Primary
h11441/1005_100/2005-135/226_1321	0002	9.18	260.2	Secondary (grouped)
h11441/1005_100/2005-135/226_1321	0001	10.31	258.0	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)

3.58) Contact/Point - 0006/1 from h11441 / 1005_100 / 2005-135 / 226_1321**Survey Summary****Survey Position:** 041° 20' 38.370" N, 72° 05' 27.996" W**Least Depth:** [None]**Timestamp:** 2005-138.07:18:53 (05/18/2005)**Survey Line:** h11441 / 1005_100 / 2005-135 / 226_1321**Contact/Point:** 0006/1**Charts Affected:** 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1**Remarks:**

Pier face. South pier near Fort Trumbull.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/226_1321	0006	0.00	000.0	Primary
h11441/1005_100/2005-135/226_1321	0003	2.39	167.8	Secondary (grouped)
h11441/1005_100/2005-135/226_1321	0004	31.53	130.8	Secondary (grouped)
h11441/1005_100/2005-135/226_1321	0007	63.40	102.6	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

S-57 Data**Geo object 1:** Shoreline Construction (SLCONS)**Attributes:** CATSLC - 4:pier (jetty)

4 - I.4. Significant Uncharted Features

4.1) Contact/Point - 0002/1 from h11441 / 1005_100 / 2005-132 / 126_1924

Survey Summary

Survey Position: 041° 16' 47.312" N, 72° 03' 57.174" W
Least Depth: [None]
Timestamp: 2005-133.01:38:57 (05/13/2005)
Survey Line: h11441 / 1005_100 / 2005-132 / 126_1924
Contact/Point: 0002/1
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Exposed cable, east-west running.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-132/126_1924	0002	0.00	000.0	Primary

Hydrographer Recommendations

Contact is described for information only, not a significant obstruction for navigation.

S-57 Data

Geo object 1: Pipeline area (PIPARE)
Attributes: OBJNAM - cable or pipeline
RESTRN - 1:anchoring prohibited

4.2) Contact/Point - 0016/1 from h11441 / 1005_100 / 2005-132 / 245_1847**Survey Summary**

Survey Position: 041° 18' 43.770" N, 72° 04' 29.862" W
Least Depth: [None]
Timestamp: 2005-143.05:57:17 (05/23/2005)
Survey Line: h11441 / 1005_100 / 2005-132 / 245_1847
Contact/Point: 0016/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Klein 5000 SSS shows a Rock at this location, no bathymetry over this spot

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-132/245_1847	0016	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LIDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.3) Contact/Point - 0004/1 from h11441 / 1005_100 / 2005-133 / 147_1449

Survey Summary

Survey Position: 041° 15' 39.481" N, 72° 01' 57.247" W
Least Depth: [None]
Timestamp: 2005-138.01:54:22 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-133 / 147_1449
Contact/Point: 0004/1
Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Klein 5000 SSS shows this to be an odd shaped object with shadow; no MBES coverage over this area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-133/147_1449	0004	0.00	000.0	Primary
h11441/1005_100/2005-133/327_1458	0003	5.74	183.4	Secondary

Hydrographer Recommendations

Chart per LIDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
WATLEV - 3:always under water/submerged

4.4) Contact/Point - 0002/1 from h11441 / 1005_100 / 2005-133 / 147_1449

Survey Summary

Survey Position: 041° 15' 31.971" N, 72° 02' 07.808" W

Least Depth: [None]

Timestamp: 2005-138.01:23:05 (05/18/2005)

Survey Line: h11441 / 1005_100 / 2005-133 / 147_1449

Contact/Point: 0002/1

Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

group of rocks various sizes. Very rocky area south-east of Eel Cove. There is limited MBES coverage in this area. Contacts too numerous on a steep slope to address each individual. There is partial MBES coverage of this area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-133/147_1449	0002	0.00	000.0	Primary
h11441/1005_100/2005-133/327_1458	0002	11.94	202.8	Secondary (grouped)
h11441/1005_100/2005-133/146_1440	0002	12.14	233.5	Secondary (grouped)
h11441/1005_100/2005-133/328_1519	0004	35.76	263.8	Secondary (grouped)
h11441/1005_100/2005-133/147_1449	0003	70.11	289.2	Secondary (grouped)
h11441/1005_100/2005-133/328_1519	0001	80.60	290.4	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0018	97.37	272.0	Secondary (grouped)
h11441/1005_100/2005-133/328_1519	0006	133.21	029.5	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0010	134.01	272.6	Secondary (grouped)
h11441/1005_100/2005-133/946_1428	0002	142.10	111.7	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0011	153.69	301.3	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0019	178.19	253.2	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0009	213.50	273.1	Secondary (grouped)
h11441/1005_100/2005-133/146_1440	0001	215.18	024.3	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0008	229.57	269.2	Secondary (grouped)
h11441/1005_100/2005-133/946_1428	0001	251.67	106.8	Secondary (grouped)
h11441/1005_100/2005-133/328_1518	0007	327.04	246.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data in this area.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
STATUS - 1:permanent
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

4.5) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-134 / 228_2244

Survey Summary

Survey Position: 041° 20' 20.248" N, 72° 05' 20.774" W
Least Depth: [None]
Timestamp: 2005-316.05:37:30 (11/12/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 228_2244
Contact/Point: 0001/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rectangular debris, no bathymetry on this spot

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/228_2244	0001	0.00	000.0	Primary

Hydrographer Recommendations

chart as 'obst'? Verify with LIDAR DTM if possible.

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: CATOBS - 1:snag / stump
OBJNAM - debris
QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.6) Contact/Point - 0004/1 from h11441 / 1005_100 / 2005-134 / 252_1858

Survey Summary

Survey Position: 041° 18' 01.097" N, 72° 06' 15.857" W
Least Depth: [None]
Timestamp: 2005-316.02:13:12 (11/12/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 252_1858
Contact/Point: 0004/1
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

large outcrop, outside of safe MBES coverage. There is LIDAR coverage over this area (attached).

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/252_1858	0004	0.00	000.0	Primary
H11225_LIDAR_OK.csv	76	16.02	107.4	Secondary (grouped)
H11225_LIDAR_TestArea.csv	51	18.06	101.0	Secondary (grouped)

Hydrographer Recommendations

Chart per LIDAR data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.7) Contact/Point - 0005/1 from h11441 / 1005_100 / 2005-134 / 263_2032

Survey Summary

Survey Position: 041° 17' 45.559" N, 72° 05' 41.751" W
Least Depth: [None]
Timestamp: 2005-316.03:30:12 (11/12/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 263_2032
Contact/Point: 0005/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

bunch of rocks Don't have MBES bathymetry over these, if possible use attached LIDAR contact information.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/263_2032	0005	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	54	8.40	008.7	Secondary

Hydrographer Recommendations

Check LIDAR data if available to verify minimum depth.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
 STATUS - 1:permanent
 TECSOU - 2:found by side scan sonar
 VERDAT - 12:Mean lower low water
 WATLEV - 3:always under water/submerged

4.8) Contact/Point - 0002/1 from h11441 / 1005_100 / 2005-134 / 265_2050

Survey Summary

Survey Position: 041° 17' 36.469" N, 72° 05' 41.226" W
Least Depth: [None]
Timestamp: 2005-316.03:39:01 (11/12/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 265_2050
Contact/Point: 0002/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area; Klein 5000 SSS show that these rocks could be as much as 1m tall based on shadow length. This contact was not developed with MBES data. LIDAR data might need to be consulted in order to verify the minimum depth at this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/265_2050	0002	0.00	000.0	Primary

Hydrographer Recommendations

Consult LIDAR data for this contact.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
STATUS - 1:permanent
TECSOU - 2:found by side scan sonar
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

4.9) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-134 / 294_1550

Survey Summary

Survey Position: 041° 17' 40.039" N, 72° 02' 25.999" W
Least Depth: [None]
Timestamp: 2005-142.03:21:44 (05/22/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 294_1550
Contact/Point: 0001/1
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Small cluster of rocks, No MBES coverage over this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/294_1550	0001	0.00	000.0	Primary

Hydrographer Recommendations

Consult LIDAR data if available to check for minimum depth over these rocks if they are assumed to be significant.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
STATUS - 1:permanent
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.10) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-134 / 306_1602**Survey Summary**

Survey Position: 041° 18' 01.070" N, 72° 01' 43.096" W
Least Depth: [None]
Timestamp: 2005-142.05:28:52 (05/22/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 306_1602
Contact/Point: 0001/1
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, No MBES over this contact, use LIDAR data if available.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/306_1602	0001	0.00	000.0	Primary

Hydrographer Recommendations

Check minimum depth with LiDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
STATUS - 1:permanent
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.11) Contact/Point - 0003/1 from h11441 / 1005_100 / 2005-134 / 308_1615

Survey Summary

Survey Position: 041° 18' 07.249" N, 72° 01' 23.056" W
Least Depth: [None]
Timestamp: 2005-142.05:37:01 (05/22/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 308_1615
Contact/Point: 0003/1
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Two clusters of rocks

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/308_1615	0003	0.00	000.0	Primary
h11441/1005_100/2005-134/307_1608	0001	6.68	272.3	Secondary
H11224_LIDAR_ReqFldWrk.csv	55	7.61	018.0	Secondary

Hydrographer Recommendations

There is no MBES over this rock cluster, should be checked with LIDAR data- attached.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
 STATUS - 1:permanent
 TECSOU - 2:found by side scan sonar
 WATLEV - 3:always under water/submerged

4.12) Contact/Point - 0004/1 from h11441 / 1005_100 / 2005-134 / 321_1342**Survey Summary**

Survey Position: 041° 17' 13.087" N, 72° 01' 05.133" W
Least Depth: [None]
Timestamp: 2005-142.05:59:46 (05/22/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 321_1342
Contact/Point: 0004/1
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Huge rock as charted along SSE region of North Dumpling Island Light Too close to North Dumpling for safe MBES coverage.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/321_1342	0004	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LiDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.13) Contact/Point - 0002/1 from h11441 / 1005_100 / 2005-134 / 859_2157**Survey Summary**

Survey Position: 041° 18' 19.150" N, 72° 05' 24.408" W
Least Depth: [None]
Timestamp: 2005-316.04:07:46 (11/12/2005)
Survey Line: h11441 / 1005_100 / 2005-134 / 859_2157
Contact/Point: 0002/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, there is no MBES bathymetry over this contact. LIDAR coverage should be used to determine its depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-134/859_2157	0002	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LiDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.14) Contact/Point - 0007/1 from h11441 / 1005_100 / 2005-135 / 216_1037**Survey Summary**

Survey Position: 041° 21' 08.198" N, 72° 05' 34.322" W
Least Depth: [None]
Timestamp: 2005-138.06:15:20 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1037
Contact/Point: 0007/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1037	0007	0.00	000.0	Primary
h11441/1005_100/2005-135/220_1341	0010	5.75	208.5	Secondary

Hydrographer Recommendations

Chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.15) Contact/Point - 0005/1 from h11441 / 1005_100 / 2005-135 / 231_1047**Survey Summary**

Survey Position: 041° 20' 06.508" N, 72° 05' 43.052" W
Least Depth: [None]
Timestamp: 2005-138.06:43:33 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 231_1047
Contact/Point: 0005/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier or seawall face.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/231_1047	0005	0.00	000.0	Primary

Hydrographer Recommendations

Verify and chart this with aerial image.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 10:sea wall

4.16) Contact/Point - 0007/1 from h11441 / 1005_100 / 2005-135 / 231_1047**Survey Summary**

Survey Position: 041° 19' 51.844" N, 72° 05' 31.906" W
Least Depth: [None]
Timestamp: 2005-138.06:44:44 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 231_1047
Contact/Point: 0007/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier face, extends out beyond charted pier.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/231_1047	0007	0.00	000.0	Primary

Hydrographer Recommendations

Verify with aerial imagery and update pier if necessary.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)

4.17) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-135 / 235_1812**Survey Summary**

Survey Position: 041° 19' 14.407" N, 72° 04' 33.686" W
Least Depth: [None]
Timestamp: 2005-138.10:11:28 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 235_1812
Contact/Point: 0001/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock foul area, too close to shore for safe MBES development.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/235_1812	0001	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LiDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.18) Contact/Point - 0005/1 from h11441 / 1005_100 / 2005-135 / 235_1812**Survey Summary**

Survey Position: 041° 19' 28.398" N, 72° 04' 38.034" W
Least Depth: [None]
Timestamp: 2005-138.10:13:20 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 235_1812
Contact/Point: 0005/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, too shoal for safe MBES development.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/235_1812	0005	0.00	000.0	Primary
H11224_LIDAR_OK.csv	48	25.29	253.1	Secondary
H11224_LIDAR_OK.csv	47	42.31	273.6	Secondary

Hydrographer Recommendations

Note reef on chart. Include LIDAR soundings when charting if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: TECSOU - 2:found by side scan sonar

4.19) Contact/Point - 0007/1 from h11441 / 1005_100 / 2005-135 / 235_1812**Survey Summary**

Survey Position: 041° 19' 38.261" N, 72° 04' 40.840" W
Least Depth: [None]
Timestamp: 2005-138.10:14:07 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 235_1812
Contact/Point: 0007/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, too shoal for safe MBES development.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/235_1812	0007	0.00	000.0	Primary
H11224_LIDAR_OK.csv	93	26.13	293.1	Secondary
H11224_LIDAR_OK.csv	49	46.92	331.1	Secondary

Hydrographer Recommendations

Chart as 'foul'. Use soundings from LIDAR.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: TECSOU - 2:found by side scan sonar

4.20) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-135 / 243_1740**Survey Summary**

Survey Position: 041° 19' 48.130" N, 72° 04' 44.210" W
Least Depth: [None]
Timestamp: 2005-138.10:03:57 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 243_1740
Contact/Point: 0001/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shore line with large rip-rap bolders.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/243_1740	0001	0.00	000.0	Primary
h11441/1005_100/2005-135/235_1812	0008	2.02	180.2	Secondary
h11441/1005_100/2005-135/243_1740	0002	13.09	061.0	Secondary (grouped)
h11441/1005_100/2005-135/235_1812	0009	13.71	057.2	Secondary (grouped)

Hydrographer Recommendations

chart per data.

S-57 Data

Geo object 1: Land area (LNDARE)
Attributes: STATUS - 1:permanent

4.21) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-135 / 245_1728**Survey Summary**

Survey Position: 041° 19' 04.963" N, 72° 04' 35.201" W
Least Depth: [None]
Timestamp: 2005-316.09:34:39 (11/12/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 245_1728
Contact/Point: 0001/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

large rock, no bathymetry data over it.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/245_1728	0001	0.00	000.0	Primary

Hydrographer Recommendations

Verify depth with LIDAR if possible.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.22) Contact/Point - 0012/1 from h11441 / 1005_100 / 2005-135 / 253_1117**Survey Summary**

Survey Position: 041° 18' 27.050" N, 72° 05' 44.921" W
Least Depth: [None]
Timestamp: 2005-317.01:05:58 (11/13/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 253_1117
Contact/Point: 0012/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area close to shore.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/253_1117	0012	0.00	000.0	Primary
h11441/1005_100/2005-135/253_1117	0011	40.75	131.8	Secondary (grouped)

Hydrographer Recommendations

Chart as foul.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: OBJNAM - Foul area
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.23) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-135 / 253_1118**Survey Summary**

Survey Position: 041° 18' 26.221" N, 72° 05' 55.239" W
Least Depth: [None]
Timestamp: 2005-138.07:01:34 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 253_1118
Contact/Point: 0001/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky, foul area

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/253_1118	0001	0.00	000.0	Primary

Hydrographer Recommendations

Chart as 'foul'

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: OBJNAM - Foul area
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.24) Profile/Beam - 398/7 from h11441 / 1005_mb / 2005-117 / 264_1855

Survey Summary

Survey Position: 041° 19' 27.175" N, 72° 04' 54.639" W
Least Depth: 12.24 m
Timestamp: 2005-117.18:56:06.081 (04/27/2005)
Survey Line: h11441 / 1005_mb / 2005-117 / 264_1855
Profile/Beam: 398/7
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

rock slightly shoal of charted soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-117/264_1855	398/7	0.00	000.0	Primary

Hydrographer Recommendations

chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

40ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

6 ¾fm (12300_1, 13006_1, 13003_1)

12.2m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.25) Profile/Beam - 483/16 from h11441 / 1005_mb / 2005-131 / 132_1504

Survey Summary

Survey Position: 041° 16' 13.522" N, 72° 03' 57.374" W
Least Depth: 17.50 m
Timestamp: 2005-131.15:04:44.278 (05/11/2005)
Survey Line: h11441 / 1005_mb / 2005-131 / 132_1504
Profile/Beam: 483/16
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, significantly shoal of charted soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-131/132_1504	483/16	0.00	000.0	Primary
h11441/1005_mb/2005-136/094_1520	917/34	105.72	044.0	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.26) Profile/Beam - 2485/34 from h11441 / 1005_mb / 2005-131 / 132_1504

Survey Summary

Survey Position: 041° 16' 14.401" N, 72° 04' 14.336" W
Least Depth: 14.87 m
Timestamp: 2005-131.15:06:21.708 (05/11/2005)
Survey Line: h11441 / 1005_mb / 2005-131 / 132_1504
Profile/Beam: 2485/34
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, significantly shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-131/132_1504	2485/34	0.00	000.0	Primary
H11224_LIDAR_OK.csv	92	65.52	184.2	Secondary (grouped)

Hydrographer Recommendations

Adjust 60 foot contour, chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

49ft (13212_1, 12372_1, 12354_1, 13205_1)

8fm (12300_1, 13006_1, 13003_1)

14.8m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam

4.27) Profile/Beam - 7749/65 from h11441 / 1005_mb / 2005-131 / 134_1613**Survey Summary**

Survey Position: 041° 16' 05.574" N, 72° 04' 57.871" W
Least Depth: 19.12 m
Timestamp: 2005-131.16:19:58.499 (05/11/2005)
Survey Line: h11441 / 1005_mb / 2005-131 / 134_1613
Profile/Beam: 7749/65
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Sea bed shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-131/134_1613	7749/65	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.28) Profile/Beam - 3706/24 from h11441 / 1005_mb / 2005-132 / 131_1328**Survey Summary**

Survey Position: 041° 16' 21.614" N, 72° 05' 48.101" W
Least Depth: 21.56 m
Timestamp: 2005-132.13:31:15.773 (05/12/2005)
Survey Line: h11441 / 1005_mb / 2005-132 / 131_1328
Profile/Beam: 3706/24
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Huge rock! RESON 8101 MBES shows that this rock rises to a depth which is significantly shoal of current sounding at this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-132/131_1328	3706/24	0.00	000.0	Primary
h11441/1005_100/2005-132/131_1328	0004	4.91	308.6	Secondary

Hydrographer Recommendations

Update sounding per MBES daum.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.29) Profile/Beam - 1692/19 from h11441 / 1005_mb / 2005-132 / 283_1637

Survey Summary

Survey Position: 041° 18' 21.298" N, 72° 02' 23.557" W
Least Depth: 5.76 m
Timestamp: 2005-132.16:46:44.943 (05/12/2005)
Survey Line: h11441 / 1005_mb / 2005-132 / 283_1637
Profile/Beam: 1692/19
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, MBES show it to be shoal of charted sounding and reported LIDAR data at this location

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-132/283_1637	1692/19	0.00	000.0	Primary
h11441/1005_100/2005-133/283_1951	0001	16.45	253.5	Secondary (grouped)
H11224_LIDAR_OK.csv	25	18.16	009.1	Secondary
h11441/1005_100/2005-132/283_1637	0001	41.55	050.0	Secondary (grouped)
h11441/1005_100/2005-133/282_2007	0002	42.90	164.3	Secondary (grouped)
h11441/1005_mb/2005-140/472_2004	1051/30	73.09	170.2	Secondary (grouped)
h11441/1005_100/2005-132/284_1509	0002	74.67	339.5	Secondary (grouped)
h11441/1005_100/2005-133/282_2007	0009	85.88	206.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.30) Profile/Beam - 8420/53 from h11441 / 1005_mb / 2005-134 / 228_2244**Survey Summary**

Survey Position: 041° 20' 06.643" N, 72° 05' 18.774" W
Least Depth: 4.84 m
Timestamp: 2005-134.22:47:59.950 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 228_2244
Profile/Beam: 8420/53
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoal of charted soundings in anchorage area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/228_2244	8420/53	0.00	000.0	Primary
H11224_LIDAR_OK.csv	52	0.93	106.9	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.31) Profile/Beam - 6050/17 from h11441 / 1005_mb / 2005-134 / 255_2211

Survey Summary

Survey Position: 041° 18' 21.011" N, 72° 05' 46.091" W
Least Depth: 4.53 m
Timestamp: 2005-134.22:14:26.725 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 255_2211
Profile/Beam: 6050/17
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock, significantly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/255_2211	6050/17	0.00	000.0	Primary
h11441/1005_100/2005-134/255_2211	0004	16.12	295.5	Secondary (grouped)
h11441/1005_mb/2005-141/384_1745	556/3	35.50	015.9	Secondary (grouped)
h11441/1005_100/2005-134/252_1857	0001	36.83	130.5	Secondary (grouped)
h11441/1005_mb/2005-141/385_1730	910/88	51.41	341.7	Secondary (grouped)
h11441/1005_mb/2005-141/381_1733	394/8	54.42	060.8	Secondary (grouped)
h11441/1005_mb/2005-141/379_1734	568/90	81.05	085.3	Secondary (grouped)
h11441/1005_mb/2005-141/382_1743	798/7	81.91	037.7	Secondary (grouped)
H11224_LIDAR_OK.csv	41	101.89	108.7	Secondary (grouped)
h11441/1005_mb/2005-141/378_1741	862/79	103.74	094.4	Secondary (grouped)
h11441/1005_mb/2005-141/375_1737	678/99	109.39	112.4	Secondary (grouped)
h11441/1005_mb/2005-141/378_1741	1012/1	109.96	077.4	Secondary (grouped)
h11441/1005_mb/2005-141/381_1733	730/62	115.90	059.4	Secondary (grouped)
h11441/1005_mb/2005-141/374_1739	157/13	128.29	120.1	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: QUASOU - 1:depth known

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 4.527 m

WATLEV - 3:always under water/submerged

4.32) Profile/Beam - 5961/92 from h11441 / 1005_mb / 2005-135 / 101_1449

Survey Summary

Survey Position: 041° 21' 48.121" N, 72° 05' 12.211" W
Least Depth: 11.50 m
Timestamp: 2005-135.15:09:46.973 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 101_1449
Profile/Beam: 5961/92
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Manmade object, shoal of charted soundings but outside of main channel and under Amtrak Trestle.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/101_1449	5961/92	0.00	000.0	Primary
h11441/1005_100/2005-135/101_1449	0006	2.35	142.4	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

37ft (13213_1, 12372_4, 12354_1, 13205_1)

6 ¼fm (12300_1, 13006_1, 13003_1)

11.5m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 11.500 m

4.33) Profile/Beam - 1174/17 from h11441 / 1005_mb / 2005-135 / 155_1930

Survey Summary

Survey Position: 041° 21' 47.880" N, 72° 05' 20.853" W
Least Depth: 6.04 m
Timestamp: 2005-135.19:31:28.916 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 155_1930
Profile/Beam: 1174/17
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Manmade object.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/155_1930	1174/17	0.00	000.0	Primary
h11441/1005_mb/2005-135/155_1930	1157/19	1.74	334.7	Secondary (grouped)
h11441/1005_mb/2005-135/155_1930	1174/25	2.23	255.2	Secondary (grouped)
h11441/1005_mb/2005-135/155_1930	1154/27	3.16	294.9	Secondary (grouped)
h11441/1005_100/2005-135/156_1925	0005	5.71	231.2	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 6:least depth known
TECSOU - 3:found by multi-beam
VALSOU - 6.042 m

4.34) Profile/Beam - 17367/16 from h11441 / 1005_mb / 2005-135 / 209_1834

Survey Summary

Survey Position: 041° 21' 45.513" N, 72° 05' 16.838" W
Least Depth: 11.08 m
Timestamp: 2005-135.18:42:24.556 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 209_1834
Profile/Beam: 17367/16
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoal, appears to remain from old bridge

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/209_1834	17367/16	0.00	000.0	Primary
h11441/1005_100/2005-135/208_1923	0001	7.51	006.9	Secondary
h11441/1005_100/2005-135/209_1834	0018	10.73	029.5	Secondary (grouped)
h11441/1005_100/2005-135/100_1514	0008	12.93	266.9	Secondary (grouped)
h11441/1005_200/2005-135/200_2059	0004	16.78	037.4	Secondary (grouped)
h11441/1005_100/2005-135/100_1514	0028	19.62	061.3	Secondary (grouped)
h11441/1005_100/2005-135/156_1925	0006	21.05	053.4	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

36ft (13213_1, 12372_4, 12354_1, 13205_1)

6fm (12300_1, 13006_1, 13003_1)

11.1m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known

TECSOU - 3:found by multi-beam

VERDAT - 12:Mean lower low water

4.35) Profile/Beam - 2747/31 from h11441 / 1005_mb / 2005-135 / 223_1954

Survey Summary

Survey Position: 041° 20' 57.860" N, 72° 05' 54.668" W
Least Depth: 5.35 m
Timestamp: 2005-135.19:55:14.269 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 223_1954
Profile/Beam: 2747/31
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Foul area

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/223_1954	2747/31	0.00	000.0	Primary
h11441/1005_mb/2005-135/223_1954	2782/82	9.10	145.5	Secondary (grouped)
h11441/1005_mb/2005-135/223_1954	3007/72	14.70	092.8	Secondary (grouped)

Hydrographer Recommendations

Chart as 'foul'

Cartographically-Rounded Depth (Affected Charts):

17ft (13213_1, 12372_4, 12354_1, 13205_1)

2 ¾fm (12300_1, 13006_1, 13003_1)

5.3m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: OBJNAM - Foul area
 QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 5.351 m
 WATLEV - 3:always under water/submerged

4.36) Profile/Beam - 348/98 from h11441 / 1005_mb / 2005-135 / 230_1216

Survey Summary

Survey Position: 041° 18' 53.909" N, 72° 05' 19.242" W
Least Depth: 4.59 m
Timestamp: 2005-135.12:16:30.610 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 230_1216
Profile/Beam: 348/98
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock outcrop, shoal of charted depth at this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/230_1216	348/98	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	53	2.55	271.5	Secondary
h11441/1005_100/2005-134/850_1853	0002	4.02	343.7	Secondary (grouped)
h11441/1005_100/2005-135/230_1216	0001	9.13	310.7	Secondary (grouped)
h11441/1005_100/2005-135/253_1117	0001	12.55	291.1	Secondary (grouped)
h11441/1005_mb/2005-135/230_1216	778/15	32.23	190.0	Secondary (grouped)

Hydrographer Recommendations

Extend 18' contour around this point. update sounding over rock per digital data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.6m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam

4.37) Profile/Beam - 16356/8 from h11441 / 1005_mb / 2005-135 / 253_1117

Survey Summary

Survey Position: 041° 18' 41.258" N, 72° 05' 33.899" W
Least Depth: 2.07 m
Timestamp: 2005-135.11:24:32.636 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 253_1117
Profile/Beam: 16356/8
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, shoal of the charted 12 foot contour which passes through this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/253_1117	16356/8	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data, adjust 12 foot contour.

Cartographically-Rounded Depth (Affected Charts):

7ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1fm (12300_1, 13006_1, 13003_1)

2.0m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 2.066 m
 WATLEV - 3:always under water/submerged

4.38) Profile/Beam - 1707/66 from h11441 / 1005_mb / 2005-136 / 097_1538

Survey Summary

Survey Position: 041° 16' 04.947" N, 72° 04' 12.200" W
Least Depth: 15.58 m
Timestamp: 2005-136.15:42:06.689 (05/16/2005)
Survey Line: h11441 / 1005_mb / 2005-136 / 097_1538
Profile/Beam: 1707/66
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock near dumping ground, RESON 8101 MBES shows it to be significantly shoal of charted depth

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-136/097_1538	1707/66	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

51ft (13212_1, 12372_1, 12354_1, 13205_1)

8 ½fm (12300_1, 13006_1, 13003_1)

15.6m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam

4.39) Profile/Beam - 640/80 from h11441 / 1005_mb / 2005-137 / 111_1240

Survey Summary

Survey Position: 041° 18' 53.192" N, 72° 05' 22.320" W
Least Depth: 3.33 m
Timestamp: 2005-137.12:40:31.512 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 111_1240
Profile/Beam: 640/80
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large Rock, not on chart

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/111_1240	640/80	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	18	3.09	123.7	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VALSOU - 3.325 m
 WATLEV - 3:always under water/submerged

4.40) Profile/Beam - 1725/3 from h11441 / 1005_mb / 2005-137 / 275_1626**Survey Summary**

Survey Position: 041° 17' 21.579" N, 72° 01' 20.732" W
Least Depth: 17.64 m
Timestamp: 2005-137.16:29:46.362 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 275_1626
Profile/Beam: 1725/3
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area at the edge of a slope, this area has many contacts which are significantly shoal of charted soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/275_1626	1725/3	0.00	000.0	Primary
h11441/1005_100/2005-134/158_1201	0001	25.20	341.2	Secondary (grouped)
h11441/1005_100/2005-134/159_1155	0003	35.73	046.8	Secondary (grouped)
h11441/1005_100/2005-134/159_1155	0004	115.39	014.8	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.41) Profile/Beam - 2313/96 from h11441 / 1005_mb / 2005-137 / 280_1440**Survey Summary**

Survey Position: 041° 17' 33.062" N, 72° 01' 25.177" W
Least Depth: 16.91 m
Timestamp: 2005-137.14:44:27.557 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 280_1440
Profile/Beam: 2313/96
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocks, 8101 MBES data reports these to be significantly shoal of nearest charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/280_1440	2313/96	0.00	000.0	Primary
h11441/1005_100/2005-133/152_1925	0001	11.31	035.9	Secondary

Hydrographer Recommendations

Chart per digital data., move 60 foot contour line

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.42) Profile/Beam - 972/20 from h11441 / 1005_mb / 2005-138 / 011_2138**Survey Summary**

Survey Position: 041° 17' 09.478" N, 72° 06' 21.774" W
Least Depth: 9.46 m
Timestamp: 2005-138.21:39:50.215 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 011_2138
Profile/Beam: 972/20
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, significantly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/011_2138	972/20	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.43) Profile/Beam - 702/99 from h11441 / 1005_mb / 2005-138 / 186_2059**Survey Summary**

Survey Position: 041° 17' 13.880" N, 72° 05' 56.815" W
Least Depth: 7.16 m
Timestamp: 2005-138.20:59:41.228 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 186_2059
Profile/Beam: 702/99
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, significantly shoal of nearest charted depth

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/186_2059	702/99	0.00	000.0	Primary
h11441/1005_100/2005-132/922_2056	0002	5.47	144.1	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.44) Profile/Beam - 215/98 from h11441 / 1005_mb / 2005-138 / 372_1638**Survey Summary**

Survey Position: 041° 17' 04.670" N, 72° 06' 03.056" W
Least Depth: 11.87 m
Timestamp: 2005-138.16:38:29.588 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 372_1638
Profile/Beam: 215/98
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock' 8101 MBES data show minimum depth to be shoal of nearest charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/372_1638	215/98	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.45) Profile/Beam - 2008/79 from h11441 / 1005_mb / 2005-138 / 374_1646**Survey Summary**

Survey Position: 041° 17' 06.339" N, 72° 06' 26.297" W
Least Depth: 10.15 m
Timestamp: 2005-138.16:49:06.501 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 374_1646
Profile/Beam: 2008/79
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocks, shoal of charted sounding

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/374_1646	2008/79	0.00	000.0	Primary
h11441/1005_100/2005-132/123_2024	0006	10.48	045.6	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.46) Profile/Beam - 513/96 from h11441 / 1005_mb / 2005-139 / 073_1423**Survey Summary**

Survey Position: 041° 18' 20.137" N, 72° 01' 26.782" W
Least Depth: 8.35 m
Timestamp: 2005-139.14:24:01.249 (05/19/2005)
Survey Line: h11441 / 1005_mb / 2005-139 / 073_1423
Profile/Beam: 513/96
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large lone rock, minimum depth is significantly shoal of nearest charted soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-139/073_1423	513/96	0.00	000.0	Primary
h11441/1005_100/2005-132/311_1649	0008	1.42	263.4	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data, move 30 foot charted contour.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.47) Profile/Beam - 338/98 from h11441 / 1005_mb / 2005-139 / 075_1420

Survey Summary

Survey Position: 041° 18' 19.023" N, 72° 01' 16.501" W
Least Depth: 7.47 m
Timestamp: 2005-139.14:21:11.211 (05/19/2005)
Survey Line: h11441 / 1005_mb / 2005-139 / 075_1420
Profile/Beam: 338/98
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoal area, significantly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-139/075_1420	338/98	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	10	5.24	198.0	Secondary
h11441/1014_mb/2005-137/630_1758	102/153	66.34	265.1	Secondary (grouped)
h11441/1014_mb/2005-137/629_1759	486/45	69.48	237.2	Secondary (grouped)
h11441/1005_100/2005-134/310_1638	0001	129.89	279.3	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.48) Profile/Beam - 458/101 from h11441 / 1005_mb / 2005-139 / 100_1237

Survey Summary

Survey Position: 041° 17' 44.076" N, 72° 02' 35.417" W
Least Depth: 8.19 m
Timestamp: 2005-139.12:37:56.947 (05/19/2005)
Survey Line: h11441 / 1005_mb / 2005-139 / 100_1237
Profile/Beam: 458/101
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock cluster, 8101 MBES data shows it to be shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-139/100_1237	458/101	0.00	000.0	Primary
h11441/1005_100/2005-131/293_2054	0001	14.24	130.1	Secondary (grouped)
h11441/1005_100/2005-131/292_2104	0001	19.23	183.3	Secondary (grouped)
h11441/1005_100/2005-134/296_1540	0001	27.52	042.3	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.49) Profile/Beam - 1848/71 from h11441 / 1005_mb / 2005-140 / 139_1827**Survey Summary**

Survey Position: 041° 20' 40.800" N, 72° 05' 30.551" W
Least Depth: 9.05 m
Timestamp: 2005-140.18:29:21.345 (05/20/2005)
Survey Line: h11441 / 1005_mb / 2005-140 / 139_1827
Profile/Beam: 1848/71
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock or obstruction at this location

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-140/139_1827	1848/71	0.00	000.0	Primary

Hydrographer Recommendations

Chart per data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VALSOU - 9.055 m

4.50) Profile/Beam - 917/101 from h11441 / 1005_mb / 2005-140 / 427_1908

Survey Summary

Survey Position: 041° 18' 47.576" N, 72° 04' 24.182" W

Least Depth: 4.70 m

Timestamp: 2005-140.19:09:17.933 (05/20/2005)

Survey Line: h11441 / 1005_mb / 2005-140 / 427_1908

Profile/Beam: 917/101

Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

rocks, significantly shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-140/427_1908	917/101	0.00	000.0	Primary
h11441/1005_100/2005-131/847_2304	0007	25.39	056.3	Secondary (grouped)
h11441/1005_mb/2005-140/424_1906	808/99	33.88	219.6	Secondary (grouped)
h11441/1005_100/2005-133/277_2123	0002	35.23	332.5	Secondary (grouped)
h11441/1005_100/2005-131/847_2304	0008	58.82	098.6	Secondary (grouped)
h11441/1005_100/2005-133/276_2129	0002	84.81	179.7	Secondary (grouped)
h11441/1005_mb/2005-140/333_1303	446/17	96.03	096.3	Secondary (grouped)
h11441/1005_100/2005-132/245_1847	0002	104.19	113.2	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data, adjust 18 foot charted countour.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.7m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.51) Profile/Beam - 504/1 from h11441 / 1005_mb / 2005-140 / 446_2137**Survey Summary**

Survey Position: 041° 18' 16.629" N, 72° 01' 11.819" W
Least Depth: 5.84 m
Timestamp: 2005-140.21:37:35.396 (05/20/2005)
Survey Line: h11441 / 1005_mb / 2005-140 / 446_2137
Profile/Beam: 504/1
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock outcrop, shoal of charted soundings.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-140/446_2137	504/1	0.00	000.0	Primary
H11224_LIDAR_OK.csv	11	31.67	229.8	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam

4.52) Profile/Beam - 1700/1 from h11441 / 1005_mb / 2005-141 / 044_1550**Survey Summary**

Survey Position: 041° 18' 53.025" N, 72° 03' 50.982" W
Least Depth: 2.17 m
Timestamp: 2005-141.15:50:50.591 (05/21/2005)
Survey Line: h11441 / 1005_mb / 2005-141 / 044_1550
Profile/Beam: 1700/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pile

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-141/044_1550	1700/1	0.00	000.0	Primary

Hydrographer Recommendations

Chart pile here.

Cartographically-Rounded Depth (Affected Charts):

7ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1fm (12300_1, 13006_1, 13003_1)

2.1m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.53) Profile/Beam - 412/99 from h11441 / 1005_mb / 2005-141 / 286_1325

Survey Summary

Survey Position: 041° 16' 44.968" N, 72° 00' 57.681" W
Least Depth: 2.84 m
Timestamp: 2005-141.13:26:05.812 (05/21/2005)
Survey Line: h11441 / 1005_mb / 2005-141 / 286_1325
Profile/Beam: 412/99
Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Area shoal of charted sounding per 8101 MBES.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-141/286_1325	412/99	0.00	000.0	Primary
H11224_LIDAR_OK.csv	62	1.15	207.8	Secondary
h11441/1005_100/2005-134/325_1336	0001	69.80	178.1	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

9ft (13212_1, 13214_1, 12372_1, 13205_1)

1 ½fm (12300_1, 13006_1, 13003_1)

2.8m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.54) Profile/Beam - 5315/158 from h11441 / 1014_mb / 2005-117 / 290_1917

Survey Summary

Survey Position: 041° 20' 06.047" N, 72° 05' 07.696" W
Least Depth: 8.18 m
Timestamp: 2005-117.19:24:13.500 (04/27/2005)
Survey Line: h11441 / 1014_mb / 2005-117 / 290_1917
Profile/Beam: 5315/158
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

obstruction, barrel shaped slightly shoal of adjacent charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-117/290_1917	5315/158	0.00	000.0	Primary
h11441/1005_200/2005-135/245_2037	0001	3.42	199.9	Secondary (grouped)
h11441/1005_100/2005-135/828_1412	0004	3.43	006.6	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

27ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

4 ½fm (12300_1, 13006_1, 13003_1)

8.2m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: OBJNAM - barrel shaped object
 QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 8.180 m

WATLEV - 3:always under water/submerged

4.55) Profile/Beam - 684/240 from h11441 / 1014_mb / 2005-130 / 292_2320

Survey Summary

Survey Position: 041° 21' 22.285" N, 72° 05' 25.711" W
Least Depth: 4.72 m
Timestamp: 2005-130.23:21:26.759 (05/10/2005)
Survey Line: h11441 / 1014_mb / 2005-130 / 292_2320
Profile/Beam: 684/240
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, slightly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-130/292_2320	684/240	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1938	0007	2.17	032.4	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 12372_4, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.7m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.56) Profile/Beam - 745/192 from h11441 / 1014_mb / 2005-132 / 206_1550

Survey Summary

Survey Position: 041° 17' 15.864" N, 72° 02' 09.710" W
Least Depth: 13.83 m
Timestamp: 2005-132.15:51:12.000 (05/12/2005)
Survey Line: h11441 / 1014_mb / 2005-132 / 206_1550
Profile/Beam: 745/192
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Uncharted wreck. SSS imagery shows this to have three parallel ridges oriented in a north-west to south-east direction. The demensions of this wreck are about 10 by 30 meters and it rises about 2 meters above the sea bottom. Minimum depth is similar to charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-132/206_1550	745/192	0.00	000.0	Primary
h11441/1005_100/2005-134/153_1140	0001	10.67	253.0	Secondary (grouped)
h11441/1005_100/2005-133/152_1925	0008	14.22	018.7	Secondary (grouped)
h11441/1005_100/2005-133/153_1934	0002	18.78	325.5	Secondary (grouped)

Hydrographer Recommendations

Chart per digital datum, add wreck to chart.

Cartographically-Rounded Depth (Affected Charts):

45ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

7 ½fm (12300_1, 13006_1, 13003_1)

13.8m (5161_1)

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 1:non-dangerous wreck
 STATUS - 1:permanent
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 13.828 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

4.57) Profile/Beam - 270/229 from h11441 / 1014_mb / 2005-132 / 903_1301

Survey Summary

Survey Position: 041° 21' 10.060" N, 72° 05' 31.232" W
Least Depth: 3.64 m
Timestamp: 2005-132.13:01:25.136 (05/12/2005)
Survey Line: h11441 / 1014_mb / 2005-132 / 903_1301
Profile/Beam: 270/229
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pile

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-132/903_1301	270/229	0.00	000.0	Primary
h11441/1005_100/2005-135/220_1341	0014	3.04	159.8	Secondary (grouped)
h11441/1005_100/2005-135/216_1037	0001	4.00	059.5	Secondary (grouped)
h11441/1014_mb/2005-132/902_1256	190/196	7.70	324.5	Secondary

Hydrographer Recommendations

Chart pile here.

Cartographically-Rounded Depth (Affected Charts):

12ft (13213_1, 12372_4, 12354_1, 13205_1)

2fm (12300_1, 13006_1, 13003_1)

3.6m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.58) Profile/Beam - 504/237 from h11441 / 1014_mb / 2005-133 / 363_1602

Survey Summary

Survey Position: 041° 17' 01.764" N, 72° 06' 12.776" W
Least Depth: 11.88 m
Timestamp: 2005-133.16:04:03.158 (05/13/2005)
Survey Line: h11441 / 1014_mb / 2005-133 / 363_1602
Profile/Beam: 504/237
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, significantly shoal of nearest sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-133/363_1602	504/237	0.00	000.0	Primary
h11441/1005_100/2005-132/123_2024	0004	24.37	333.2	Secondary (grouped)
h11441/1005_100/2005-132/124_2009	0013	42.44	049.1	Secondary (grouped)
h11441/1005_100/2005-132/123_2024	0005	63.78	090.3	Secondary (grouped)
h11441/1005_100/2005-132/123_2024	0003	121.58	241.8	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

39ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

6 ½fm (12300_1, 13006_1, 13003_1)

11.9m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.59) Profile/Beam - 3967/74 from h11441 / 1014_mb / 2005-134 / 626_1439

Survey Summary

Survey Position: 041° 16' 40.051" N, 72° 05' 39.385" W
Least Depth: 16.35 m
Timestamp: 2005-134.14:47:38.936 (05/14/2005)
Survey Line: h11441 / 1014_mb / 2005-134 / 626_1439
Profile/Beam: 3967/74
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Uncharted rock outcrop. Reson 8125 MBES shows its minimum depth to be significantly shoal of charted depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-134/626_1439	3967/74	0.00	000.0	Primary
h11441/1005_100/2005-132/128_1402	0005	8.13	054.0	Secondary (grouped)
h11441/1005_100/2005-132/127_1908	0002	11.84	104.4	Secondary (grouped)
h11441/1005_100/2005-132/127_1908	0005	47.03	189.7	Secondary (grouped)
h11441/1005_100/2005-132/127_1908	0004	64.55	196.6	Secondary (grouped)
h11441/1005_100/2005-132/127_1908	0003	66.65	202.5	Secondary (grouped)
h11441/1014_mb/2005-134/630_1539	4015/16	192.30	022.9	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.60) Profile/Beam - 1579/240 from h11441 / 1014_mb / 2005-135 / 158_1919**Survey Summary**

Survey Position: 041° 20' 37.694" N, 72° 05' 01.820" W
Least Depth: 8.10 m
Timestamp: 2005-135.19:22:23.859 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 158_1919
Profile/Beam: 1579/240
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pile, at least 20' off bottom. unsure if it breaks the surface

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/158_1919	1579/240	0.00	000.0	Primary

Hydrographer Recommendations

Check aerial photography to see if there is a dolphin visible here.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.61) Profile/Beam - 2271/19 from h11441 / 1014_mb / 2005-135 / 191_1122

Survey Summary

Survey Position: 041° 21' 26.000" N, 72° 05' 25.175" W
Least Depth: 7.94 m
Timestamp: 2005-135.11:25:19.853 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 191_1122
Profile/Beam: 2271/19
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Wreckage, distributed timbers and such.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/191_1122	2271/19	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1938	0003	2.36	097.4	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

26ft (13213_1, 12372_4, 12354_1, 13205_1)

4 ¼fm (12300_1, 13006_1, 13003_1)

7.9m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 7.944 m
Geo object 2: Wreck (WRECKS)
Attributes: CATWRK - 3:distributed remains of wreck
 STATUS - 1:permanent

TECSOU - 2:found by side scan sonar; 3:found by multi-beam

VALSOU - 7.944 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

4.62) Profile/Beam - 2507/87 from h11441 / 1014_mb / 2005-135 / 191_1122

Survey Summary

Survey Position: 041° 21' 27.364" N, 72° 05' 26.072" W
Least Depth: 8.06 m
Timestamp: 2005-135.11:25:37.281 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 191_1122
Profile/Beam: 2507/87
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Debris, shoal of charted 30 foot contour.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/191_1122	2507/87	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

26ft (13213_1, 12372_4, 12354_1, 13205_1)

4 ¼fm (12300_1, 13006_1, 13003_1)

8.0m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 8.063 m
 WATLEV - 3:always under water/submerged

4.63) Profile/Beam - 2233/167 from h11441 / 1014_mb / 2005-135 / 197_1258**Survey Summary**

Survey Position: 041° 21' 21.133" N, 72° 05' 22.781" W
Least Depth: 6.32 m
Timestamp: 2005-135.13:01:00.151 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 197_1258
Profile/Beam: 2233/167
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock or obstruction near approach to State Pier and Ling Dock. Minimum depth is significantly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/197_1258	2233/167	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
TECSOU - 2:found by side scan sonar; 3:found by multi-beam
VALSOU - 6.323 m
WATLEV - 3:always under water/submerged

4.64) Profile/Beam - 329/180 from h11441 / 1014_mb / 2005-136 / 641_1713

Survey Summary

Survey Position: 041° 18' 04.595" N, 72° 02' 38.073" W
Least Depth: 7.32 m
Timestamp: 2005-136.17:13:37.795 (05/16/2005)
Survey Line: h11441 / 1014_mb / 2005-136 / 641_1713
Profile/Beam: 329/180
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky shoal, shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-136/641_1713	329/180	0.00	000.0	Primary
H11224_LIDAR_OK.csv	24	0.35	064.3	Secondary
h11441/1005_100/2005-131/288_2203	0001	25.48	353.7	Secondary (grouped)
h11441/1005_100/2005-131/287_2220	0004	38.36	006.6	Secondary (grouped)
h11441/1014_mb/2005-136/645_1720	209/26	148.35	031.1	Secondary (grouped)
h11441/1005_100/2005-131/289_2150	0003	154.34	028.3	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

24ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

4fm (12300_1, 13006_1, 13003_1)

7.3m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam

VERDAT - 12:Mean lower low water

4.65) Profile/Beam - 368/74 from h11441 / 1014_mb / 2005-137 / 636_1749

Survey Summary

Survey Position: 041° 18' 14.843" N, 72° 01' 25.804" W
Least Depth: 6.16 m
Timestamp: 2005-137.17:50:28.721 (05/17/2005)
Survey Line: h11441 / 1014_mb / 2005-137 / 636_1749
Profile/Beam: 368/74
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rocky area, significantly shoal of soundings currently charted.

LiDAR sounding agrees with MBES data.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-137/636_1749	368/74	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	11	2.70	137.7	Secondary
h11441/1005_100/2005-134/309_1621	0001	13.03	333.9	Secondary (grouped)
h11441/1005_100/2005-134/310_1638	0002	39.23	284.8	Secondary (grouped)
h11441/1005_mb/2005-140/443_2038	522/83	46.17	191.1	Secondary (grouped)
h11441/1005_mb/2005-134/309_1621	5365/60	82.50	050.6	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

20ft (13213_1, 13212_1, 13214_1, 12372_1, 13205_1)

3 ¼fm (12300_1, 13006_1, 13003_1)

6.1m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: QUASOU - 1:depth known

TECSOU - 3:found by multi-beam

VERDAT - 12:Mean lower low water

4.66) Profile/Beam - 4474/7 from h11441 / 1014_mb / 2005-139 / 429_2158

Survey Summary

Survey Position: 041° 18' 22.135" N, 72° 04' 45.197" W
Least Depth: 11.50 m
Timestamp: 2005-139.22:05:39.919 (05/19/2005)
Survey Line: h11441 / 1014_mb / 2005-139 / 429_2158
Profile/Beam: 4474/7
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock outcrop on the east side of the channel; probably a granitic gneiss. Could prove difficult to dredge in this area limiting the depth on the east side of the channel.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-139/429_2158	4474/7	0.00	000.0	Primary
h11441/1005_100/2005-131/101_1934	0002	7.50	155.8	Secondary

Hydrographer Recommendations

Identify this edge of the channel as 'hard'.

Cartographically-Rounded Depth (Affected Charts):

37ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

6 ¼fm (12300_1, 13006_1, 13003_1)

11.5m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: INFORM - Hard outcrop in channel
 QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam

4.67) Profile/Beam - 381/143 from h11441 / 1014_mb / 2005-140 / 118_1549**Survey Summary**

Survey Position: 041° 16' 28.182" N, 72° 04' 08.241" W
Least Depth: 14.57 m
Timestamp: 2005-140.15:50:48.709 (05/20/2005)
Survey Line: h11441 / 1014_mb / 2005-140 / 118_1549
Profile/Beam: 381/143
Charts Affected: 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, minimum depth is significantly shoal of charted depth

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-140/118_1549	381/143	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	41	19.78	019.1	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.68) Profile/Beam - 3190/2 from h11441 / 1014_mb / 2005-140 / 190_1845**Survey Summary**

Survey Position: 041° 20' 13.089" N, 72° 05' 16.830" W
Least Depth: 5.92 m
Timestamp: 2005-140.18:47:24.354 (05/20/2005)
Survey Line: h11441 / 1014_mb / 2005-140 / 190_1845
Profile/Beam: 3190/2
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Debris, shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-140/190_1845	3190/2	0.00	000.0	Primary
h11441/1005_100/2005-134/229_2225	0001	2.73	278.7	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
TECSOU - 2:found by side scan sonar; 3:found by multi-beam
VALSOU - 5.925 m
WATLEV - 3:always under water/submerged

4.69) Profile/Beam - 4013/185 from h11441 / 1014_mb / 2005-141 / 126_1702

Survey Summary

Survey Position: 041° 21' 04.460" N, 72° 05' 03.255" W
Least Depth: 4.95 m
Timestamp: 2005-141.17:05:13.289 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 126_1702
Profile/Beam: 4013/185
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large obst.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/126_1702	4013/185	0.00	000.0	Primary
h11441/1014_mb/2005-141/126_1702	4009/155	1.67	241.7	Secondary (grouped)
h11441/1005_mb/2005-135/209_1834	478/75	1.87	167.7	Secondary
h11441/1005_mb/2005-135/209_1834	485/78	2.06	199.0	Secondary (grouped)
h11441/1005_mb/2005-135/209_1834	484/74	2.43	181.1	Secondary (grouped)
h11441/1005_mb/2005-135/209_1834	490/78	2.58	207.2	Secondary (grouped)
h11441/1005_mb/2005-135/209_1834	491/77	2.77	203.7	Secondary (grouped)
h11441/1005_100/2005-135/101_1448	0017	7.25	190.6	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 4.950 m
 WATLEV - 3:always under water/submerged

4.70) Profile/Beam - 372/36 from h11441 / 1014_mb / 2005-141 / 165_1535

Survey Summary

Survey Position: 041° 21' 00.757" N, 72° 05' 40.469" W
Least Depth: 4.75 m
Timestamp: 2005-141.15:36:30.209 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 165_1535
Profile/Beam: 372/36
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

large rock, depth approximately equal to tabulated depth at this location but shoal of the rest of the channel in this vicinity.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/165_1535	372/36	0.00	000.0	Primary
h11441/1005_100/2005-135/222_1338	0001	2.19	035.9	Secondary
h11441/1005_100/2005-135/216_1037	0013	3.91	025.6	Secondary (grouped)

Hydrographer Recommendations

Chart sounding per digital data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 12372_4, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.7m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.71) Profile/Beam - 421/1 from h11441 / 1014_mb / 2005-141 / 172_1818

Survey Summary

Survey Position: 041° 20' 07.700" N, 72° 04' 55.453" W
Least Depth: 6.11 m
Timestamp: 2005-141.18:19:30.818 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 172_1818
Profile/Beam: 421/1
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/172_1818	421/1	0.00	000.0	Primary
h11441/1005_100/2005-135/101_1448	0003	3.62	149.1	Secondary
h11441/1014_mb/2005-141/172_1818	410/1	3.76	170.2	Secondary (grouped)
h11441/1014_mb/2005-141/172_1818	433/1	4.64	354.9	Secondary (grouped)
h11441/1005_100/2005-135/234_1800	0003	5.08	005.7	Secondary (grouped)

Hydrographer Recommendations

Move charted dolphin to this location.

Cartographically-Rounded Depth (Affected Charts):

20ft (13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1)

3 ¼fm (12300_1, 13006_1, 13003_1)

6.1m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

4.72) Profile/Beam - 901/235 from h11441 / 1014_mb / 2005-142 / 103_2004**Survey Summary**

Survey Position: 041° 21' 21.250" N, 72° 05' 24.708" W
Least Depth: 6.08 m
Timestamp: 2005-142.20:06:06.267 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 103_2004
Profile/Beam: 901/235
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, slightly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/103_2004	901/235	0.00	000.0	Primary
h11441/1005_100/2005-135/219_1353	0003	3.61	338.1	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.73) Profile/Beam - 1159/187 from h11441 / 1014_mb / 2005-142 / 216_2111

Survey Summary

Survey Position: 041° 21' 27.720" N, 72° 05' 31.579" W
Least Depth: 3.02 m
Timestamp: 2005-142.21:12:39.019 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 216_2111
Profile/Beam: 1159/187
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock on south-west side of Long Dock.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/216_2111	1159/187	0.00	000.0	Primary
h11441/1014_mb/2005-135/414_1024	9159/225	15.70	047.0	Secondary
h11441/1014_mb/2005-135/414_1024	9133/226	15.94	056.6	Secondary
h11441/1005_100/2005-135/216_1938	0020	16.29	034.8	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

10ft (13213_1, 12372_4, 12354_1, 13205_1)

1 ½fm (12300_1, 13006_1, 13003_1)

3.0m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 3.019 m
 WATLEV - 3:always under water/submerged

4.74) Profile/Beam - 583/240 from h11441 / 1014_mb / 2005-142 / 282_2131**Survey Summary**

Survey Position: 041° 21' 15.108" N, 72° 05' 29.405" W
Least Depth: 4.62 m
Timestamp: 2005-142.21:32:22.412 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 282_2131
Profile/Beam: 583/240
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/282_2131	583/240	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 12372_4, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.6m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.75) Profile/Beam - 325/71 from h11441 / 1014_mb / 2005-142 / 291_2043

Survey Summary

Survey Position: 041° 21' 55.762" N, 72° 05' 21.187" W
Least Depth: 6.96 m
Timestamp: 2005-142.20:44:14.701 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 291_2043
Profile/Beam: 325/71
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

rock, shoal of charted depth

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/291_2043	325/71	0.00	000.0	Primary
h11441/1014_mb/2005-142/291_2043	323/76	0.72	316.2	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

23ft (13213_1, 12372_4, 12354_1, 13205_1)

3 ¾fm (12300_1, 13006_1, 13003_1)

6.9m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VALSOU - 6.961 m
 WATLEV - 3:always under water/submerged

4.76) Profile/Beam - 368/198 from h11441 / 1014_mb / 2005-142 / 291_2043**Survey Summary**

Survey Position: 041° 21' 56.261" N, 72° 05' 21.020" W
Least Depth: 7.07 m
Timestamp: 2005-142.20:44:18.457 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 291_2043
Profile/Beam: 368/198
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Buoy marking object near "UCONN-MTSC" Likely to be research site.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/291_2043	368/198	0.00	000.0	Primary
h11441/1014_mb/2005-142/291_2043	386/192	5.77	148.7	Secondary (grouped)

Hydrographer Recommendations

Chart a private buoy at this location.

Cartographically-Rounded Depth (Affected Charts):

23ft (13213_1, 12372_4, 12354_1, 13205_1)

3 ¾fm (12300_1, 13006_1, 13003_1)

7.0m (5161_1)

S-57 Data

Geo object 1: Buoy, special purpose/general (BOYSPP)
Attributes: STATUS - 8:private

4.77) Profile/Beam - 479/39 from h11441 / 1014_mb / 2005-142 / 299_1820

Survey Summary

Survey Position: 041° 18' 09.614" N, 72° 03' 27.463" W
Least Depth: 6.13 m
Timestamp: 2005-142.18:21:42.286 (05/22/2005)
Survey Line: h11441 / 1014_mb / 2005-142 / 299_1820
Profile/Beam: 479/39
Charts Affected: 13213_1, 13212_1, 13214_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock outcrop, significantly shoal of charted sounding at this location. This is not an area likely to support large ship traffic.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-142/299_1820	479/39	0.00	000.0	Primary
h11441/1005_100/2005-131/286_2236	0001	10.39	284.6	Secondary (grouped)
H11224_LIDAR_ReqFldWrk.csv	14	28.25	190.6	Secondary (grouped)
h11441/1005_100/2005-131/287_2220	0003	33.07	054.0	Secondary (grouped)

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.78) Profile/Beam - 1285/81 from h11441 / 1005_mb / 2005-134 / 214_2312**Survey Summary**

Survey Position: 041° 21' 26.338" N, 72° 05' 22.981" W
Least Depth: 7.78 m
Timestamp: 2005-134.23:13:07.667 (05/14/2005)
Survey Line: h11441 / 1005_mb / 2005-134 / 214_2312
Profile/Beam: 1285/81
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Obstruction about 6 meters south-west of State Pier.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-134/214_2312	1285/81	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VALSOU - 7.780 m
WATLEV - 3:always under water/submerged

4.79) Profile/Beam - 317/20 from h11441 / 1005_mb / 2005-140 / 003_1741**Survey Summary**

Survey Position: 041° 21' 25.364" N, 72° 05' 20.370" W
Least Depth: 7.75 m
Timestamp: 2005-140.17:41:56.999 (05/20/2005)
Survey Line: h11441 / 1005_mb / 2005-140 / 003_1741
Profile/Beam: 317/20
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Submerged pile or rock

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-140/003_1741	317/20	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

25ft (13213_1, 12372_4, 12354_1, 13205_1)

4 ¼fm (12300_1, 13006_1, 13003_1)

7.7m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
TECSOU - 3:found by multi-beam
VERDAT - 12:Mean lower low water

4.80) Contact/Point - 0006/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 14.418" N, 72° 05' 03.512" W
Least Depth: [None]
Timestamp: 2005-138.10:23:31 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0006/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Sunken barge or large fender parallel to outside edge of pier, 17m X 3m wide, 1m tall.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0006	0.00	000.0	Primary
h11441/1005_100/2005-135/209_1834	0005	11.24	188.1	Secondary

Hydrographer Recommendations

Chart per digital data.

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 2:dangerous wreck
CONVIS - 2:not visual conspicuous
STATUS - 1:permanent
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.81) Contact/Point - 0003/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 06.996" N, 72° 05' 01.180" W
Least Depth: [None]
Timestamp: 2005-138.10:21:56 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0003/1
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier or pier ruins

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0003	0.00	000.0	Primary

Hydrographer Recommendations

Chart as foul area.

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

4.82) Contact/Point - 0007/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 16.635" N, 72° 05' 03.709" W
Least Depth: [None]
Timestamp: 2005-138.10:23:56 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0007/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0007	0.00	000.0	Primary

Hydrographer Recommendations

Chart Dolohin per digital data. Remove Dols PA.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.83) Contact/Point - 0014/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 40.931" N, 72° 05' 04.154" W
Least Depth: [None]
Timestamp: 2005-138.10:27:04 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0014/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier facility, dolphins are not on ENC

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0014	0.00	000.0	Primary
h11441/1005_100/2005-135/154_1916	0001	1.85	060.4	Secondary

Hydrographer Recommendations

Add dolphins to ENC

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: OBJNAM - Row of piles along shore.

4.84) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 07.370" N, 72° 05' 02.837" W
Least Depth: [None]
Timestamp: 2005-138.10:21:17 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0001/1
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0001	0.00	000.0	Primary

Hydrographer Recommendations

add to chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.85) Contact/Point - 0010/1 from h11441 / 1005_100 / 2005-135 / 209_1834**Survey Summary**

Survey Position: 041° 21' 28.124" N, 72° 05' 07.016" W
Least Depth: [None]
Timestamp: 2005-138.10:25:40 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 209_1834
Contact/Point: 0010/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/209_1834	0010	0.00	000.0	Primary
h11441/1005_100/2005-135/209_1834	0011	12.53	229.9	Secondary (grouped)

Hydrographer Recommendations

Add dolphin to chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.86) Contact/Point - 0017/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 18.147" N, 72° 05' 29.697" W
Least Depth: [None]
Timestamp: 2005-138.10:55:07 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0017/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Foul area

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0017	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1938	0026	7.16	057.5	Secondary (grouped)
h11441/1005_100/2005-135/216_1938	0025	8.25	151.7	Secondary (grouped)

Hydrographer Recommendations

Report as 'foul'

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar

4.87) Contact/Point - 0018/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 15.508" N, 72° 05' 30.216" W
Least Depth: [None]
Timestamp: 2005-138.10:55:22 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0018/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pier

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0018	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1938	0027	0.44	079.9	Secondary (grouped)
h11441/1005_100/2005-135/216_1938	0029	6.85	240.1	Secondary (grouped)
h11441/1005_100/2005-135/216_1938	0028	9.20	098.4	Secondary (grouped)

Hydrographer Recommendations

Add to chart, use arial photos if available.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)
Attributes: CATSLC - 4:pier (jetty)

4.88) Contact/Point - 0024/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 18.846" N, 72° 05' 31.000" W
Least Depth: [None]
Timestamp: 2005-322.07:03:05 (11/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0024/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Uncharted Pile

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0024	0.00	000.0	Primary

Hydrographer Recommendations

Move charted pile immediatly to the west to this location.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.89) Contact/Point - 0015/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 19.396" N, 72° 05' 29.367" W
Least Depth: [None]
Timestamp: 2005-138.10:54:32 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0015/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0015	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.90) Contact/Point - 0016/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 19.581" N, 72° 05' 30.272" W
Least Depth: [None]
Timestamp: 2005-138.10:54:40 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0016/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0016	0.00	000.0	Primary

Hydrographer Recommendations

move charted dolphin to this location.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.91) Contact/Point - 0023/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 21.701" N, 72° 05' 33.270" W
Least Depth: [None]
Timestamp: 2005-322.07:00:20 (11/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0023/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Uncharted Pile

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0023	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.92) Contact/Point - 0014/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 20.663" N, 72° 05' 29.849" W
Least Depth: [None]
Timestamp: 2005-138.10:54:22 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0014/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0014	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.93) Contact/Point - 0013/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 20.800" N, 72° 05' 30.887" W
Least Depth: [None]
Timestamp: 2005-138.10:54:13 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0013/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0013	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.94) Contact/Point - 0012/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 21.003" N, 72° 05' 32.096" W
Least Depth: [None]
Timestamp: 2005-138.10:54:03 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0012/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dophin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0012	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.95) Contact/Point - 0022/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 21.738" N, 72° 05' 32.649" W
Least Depth: [None]
Timestamp: 2005-322.06:59:12 (11/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0022/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Uncharted Pile

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0022	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.96) Contact/Point - 0036/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 28.082" N, 72° 05' 38.251" W
Least Depth: [None]
Timestamp: 2006-025.04:02:21 (01/25/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0036/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0036	0.00	000.0	Primary

Hydrographer Recommendations

Place Dol here.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.97) Contact/Point - 0030/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 23.044" N, 72° 05' 33.198" W
Least Depth: [None]
Timestamp: 2005-325.06:20:38 (11/21/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0030/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Uncharted Dol

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0030	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.98) Contact/Point - 0010/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 22.531" N, 72° 05' 32.090" W
Least Depth: [None]
Timestamp: 2005-138.10:53:46 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0010/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0010	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.99) Contact/Point - 0011/1 from h11441 / 1005_100 / 2005-135 / 216_1938**Survey Summary**

Survey Position: 041° 21' 21.788" N, 72° 05' 31.870" W
Least Depth: [None]
Timestamp: 2005-138.10:53:55 (05/18/2005)
Survey Line: h11441 / 1005_100 / 2005-135 / 216_1938
Contact/Point: 0011/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/216_1938	0011	0.00	000.0	Primary

Hydrographer Recommendations

Add to chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.100) GP No. - Danger 88 from ChartGPs - ENC US4CN21M

Survey Summary

Survey Position: 041° 16' 55.657" N, 72° 01' 43.784" W
Least Depth: 28.60 m
Timestamp: [None]
GP Dataset: ChartGPs - ENC US4CN21M
GP No.: Danger 88
Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

ENC shows 'wreck' at this location. 8101 MBES from this survey does not show any object near this location.

Feature Correlation

Address	Feature	Range	Azimuth	Status
ChartGPs - ENC US4CN21M	Danger 88	0.00	000.0	Primary

Hydrographer Recommendations

disproven.

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 1:non-dangerous wreck
SORDAT - 19990904
VALSOU - 28.600 m
WATLEV - 3:always under water/submerged

4.101) Profile/Beam - 1807/101 from h11441 / 1005_mb / 2005-135 / 216_1037

Survey Summary

Survey Position: 041° 21' 08.454" N, 72° 05' 32.633" W
Least Depth: 0.76 m
Timestamp: 2005-135.10:38:36.322 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 216_1037
Profile/Beam: 1807/101
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible dolphin for Fisher's Island Ferry, Left-most visible in attached photo.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/216_1037	1807/101	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1037	0005	3.23	012.5	Secondary
h11441/1005_100/2005-135/220_1341	0005	4.14	158.7	Secondary (grouped)

Hydrographer Recommendations

Chart as dolphin.

Cartographically-Rounded Depth (Affected Charts):

2ft (13213_1, 12372_4, 12354_1, 13205_1)

0 ¼fm (12300_1, 13006_1, 13003_1)

.7m (5161_1)

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.102) Profile/Beam - 1205/101 from h11441 / 1005_mb / 2005-135 / 232_1824**Survey Summary**

Survey Position: 041° 20' 13.530" N, 72° 04' 53.041" W
Least Depth: 1.06 m
Timestamp: 2005-135.18:25:08.180 (05/15/2005)
Survey Line: h11441 / 1005_mb / 2005-135 / 232_1824
Profile/Beam: 1205/101
Charts Affected: 13213_1, 12372_4, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Appears to be buoy or pile.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-135/232_1824	1205/101	0.00	000.0	Primary
h11441/1005_100/2005-135/233_1757	0002	4.53	194.3	Secondary

Hydrographer Recommendations

Check photographic images to see if 'dol' should be charted here.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.103) Profile/Beam - 1593/200 from h11441 / 1014_mb / 2005-135 / 166_1709

Survey Summary

Survey Position: 041° 20' 36.200" N, 72° 05' 15.737" W
Least Depth: 11.13 m
Timestamp: 2005-135.17:11:05.593 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 166_1709
Profile/Beam: 1593/200
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock, or obst at the edge of the channel.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/166_1709	1593/200	0.00	000.0	Primary
h11441/1005_200/2005-135/245_2038	0002	3.32	145.5	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

36ft (13213_1, 12372_4, 12372_1, 12354_1, 13205_1)

6fm (12300_1, 13006_1, 13003_1)

11.1m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.104) Profile/Beam - 8838/233 from h11441 / 1014_mb / 2005-135 / 414_1024

Survey Summary

Survey Position: 041° 21' 28.051" N, 72° 05' 32.736" W
Least Depth: 4.51 m
Timestamp: 2005-135.10:30:51.517 (05/15/2005)
Survey Line: h11441 / 1014_mb / 2005-135 / 414_1024
Profile/Beam: 8838/233
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoal in tabulated area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-135/414_1024	8838/233	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1938	0021	3.52	292.2	Secondary

Hydrographer Recommendations

Place sounding per digital data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 12372_4, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.5m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam

4.105) Profile/Beam - 43/3 from h11441 / 1014_mb / 2005-141 / 140_1430

Survey Summary

Survey Position: 041° 20' 39.887" N, 72° 05' 29.607" W
Least Depth: 5.63 m
Timestamp: 2005-141.14:30:37.589 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 140_1430
Profile/Beam: 43/3
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Shoaler than tabulated depth here.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/140_1430	43/3	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

18ft (13213_1, 12372_4, 12372_1, 12354_1, 13205_1)

3fm (12300_1, 13006_1, 13003_1)

5.6m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar
 VERDAT - 12:Mean lower low water

4.106) Profile/Beam - 251/101 from h11441 / 1005_mb / 2005-140 / 484_1856

Survey Summary

Survey Position: 041° 19' 17.912" N, 72° 04' 38.270" W
Least Depth: 4.32 m
Timestamp: 2005-140:18:56:26.265 (05/20/2005)
Survey Line: h11441 / 1005_mb / 2005-140 / 484_1856
Profile/Beam: 251/101
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock. shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-140/484_1856	251/101	0.00	000.0	Primary
h11441/1005_100/2005-135/235_1812	0004	2.48	111.2	Secondary (grouped)
h11441/1005_100/2005-135/244_1733	0001	3.56	227.0	Secondary (grouped)
H11224_LIDAR_OK.csv	46	56.78	136.8	Secondary (grouped)

Hydrographer Recommendations

Move 18' contour per digital data.

Cartographically-Rounded Depth (Affected Charts):

14ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

2 ¼fm (12300_1, 13006_1, 13003_1)

4.3m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.107) Profile/Beam - 777/3 from h11441 / 1005_mb / 2005-137 / 101_1208

Survey Summary

Survey Position: 041° 19' 14.208" N, 72° 05' 13.938" W
Least Depth: 2.84 m
Timestamp: 2005-137.12:08:29.435 (05/17/2005)
Survey Line: h11441 / 1005_mb / 2005-137 / 101_1208
Profile/Beam: 777/3
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-137/101_1208	777/3	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	20	1.16	004.4	Secondary

Hydrographer Recommendations

Bend 12' contour eastward around this obstn.

Cartographically-Rounded Depth (Affected Charts):

9ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

1 ½fm (12300_1, 13006_1, 13003_1)

2.8m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.108) Contact/Point - 0002/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 12.838" N, 72° 05' 31.754" W
Least Depth: [None]
Timestamp: 2006-032.06:17:20 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0002/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Seawall Ferry terminal to Fishers Island. New shoreline development since fall 1994.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0002	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1037	0003	1.35	060.2	Secondary

Hydrographer Recommendations

Update shoreline on chart to this location.

S-57 Data

Geo object 1: Land area (LNDARE)
Attributes: OBJNAM - Fisher's Island Ferry Terminal
STATUS - 1:permanent

4.109) Contact/Point - 0001/1 from h11441 / 1005_100 / 2005-135 / 220_1341

Survey Summary

Survey Position: 041° 21' 10.502" N, 72° 05' 31.676" W
Least Depth: [None]
Timestamp: 2006-032.06:13:11 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0001/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible Dolphin, Fisher's Island Ferry docking area.- see photo looking south-west from City Pier.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0001	0.00	000.0	Primary
h11441/1014_mb/2005-132/906_1310	336/1	2.77	050.5	Secondary
h11441/1014_mb/2005-132/908_1320	130/111	4.76	265.3	Secondary (grouped)
h11441/1014_mb/2005-132/017_1338	122/2	7.06	148.3	Secondary (grouped)
h11441/1005_100/2005-135/216_1037	0002	7.75	033.2	Secondary (grouped)
h11441/1005_100/2005-135/216_1037	0004	45.25	051.6	Secondary

Hydrographer Recommendations

Chart dolphin here.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.110) Contact/Point - 0003/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 10.436" N, 72° 05' 32.479" W
Least Depth: [None]
Timestamp: 2006-032.06:18:25 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0003/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0003	0.00	000.0	Primary

Hydrographer Recommendations

Chart dolphin here.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.111) Contact/Point - 0004/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 10.160" N, 72° 05' 32.842" W
Least Depth: [None]
Timestamp: 2006-032.06:18:59 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0004/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0004	0.00	000.0	Primary

Hydrographer Recommendations

Chart per data.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.112) Contact/Point - 0006/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 09.834" N, 72° 05' 33.198" W
Least Depth: [None]
Timestamp: 2006-032.06:20:07 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0006/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0006	0.00	000.0	Primary

Hydrographer Recommendations

Chart per digital datum.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.113) Contact/Point - 0007/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 08.346" N, 72° 05' 33.477" W
Least Depth: [None]
Timestamp: 2006-032.06:20:52 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0007/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible Dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0007	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1037	0006	6.06	002.8	Secondary

Hydrographer Recommendations

Chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.114) Contact/Point - 0008/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 08.906" N, 72° 05' 33.557" W
Least Depth: [None]
Timestamp: 2006-032.06:21:47 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0008/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0008	0.00	000.0	Primary

Hydrographer Recommendations

Chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.115) Contact/Point - 0009/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 09.118" N, 72° 05' 33.595" W
Least Depth: [None]
Timestamp: 2006-032.06:22:26 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0009/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0009	0.00	000.0	Primary

Hydrographer Recommendations

Chart.

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.116) Contact/Point - 0011/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary****Survey Position:** 041° 21' 08.785" N, 72° 05' 34.240" W**Least Depth:** [None]**Timestamp:** 2006-032.06:23:08 (02/01/2006)**Survey Line:** h11441 / 1005_100 / 2005-135 / 220_1341**Contact/Point:** 0011/1**Charts Affected:** 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1**Remarks:**

Pile, along pier face, City of New London has recently improved public pier in this area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0011	0.00	000.0	Primary
h11441/1005_100/2005-135/216_1037	0009	5.39	108.8	Secondary (grouped)
h11441/1005_100/2005-135/216_1037	0008	6.89	032.1	Secondary

Hydrographer Recommendations

Chart pier

S-57 Data

[None]

4.117) Contact/Point - 0012/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 09.039" N, 72° 05' 34.282" W
Least Depth: [None]
Timestamp: 2006-032.06:23:23 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0012/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0012	0.00	000.0	Primary

Hydrographer Recommendations

Chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.118) Contact/Point - 0013/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 09.347" N, 72° 05' 34.320" W
Least Depth: [None]
Timestamp: 2006-032.06:23:40 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0013/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0013	0.00	000.0	Primary

Hydrographer Recommendations

Chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.119) Contact/Point - 0015/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 09.436" N, 72° 05' 33.661" W
Least Depth: [None]
Timestamp: 2006-032.06:24:49 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0015/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible dolphin

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0015	0.00	000.0	Primary

Hydrographer Recommendations

Chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.120) Contact/Point - 0016/1 from h11441 / 1005_100 / 2005-135 / 220_1341**Survey Summary**

Survey Position: 041° 21' 09.683" N, 72° 05' 33.780" W
Least Depth: [None]
Timestamp: 2006-032.06:25:07 (02/01/2006)
Survey Line: h11441 / 1005_100 / 2005-135 / 220_1341
Contact/Point: 0016/1
Charts Affected: 13213_1, 12372_4, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Visible dolphin, innermost of row of 5 dolphins.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-135/220_1341	0016	0.00	000.0	Primary

Hydrographer Recommendations

Chart

S-57 Data

Geo object 1: Pile (PILPNT)
Attributes: CATPLE - 3:post

4.121) GP No. - 56 from H11224_LIDAR_ReqFldWrk.csv**Survey Summary**

Survey Position: 041° 20' 30.480" N, 72° 04' 59.880" W
Least Depth: 7.00 m
Timestamp: 1990-001.11:60:00.000 (01/01/1990)
GP Dataset: H11224_LIDAR_ReqFldWrk.csv
GP No.: 56
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

In area of poor coverage

Klein 5000 SSS showed an area of scour and perhaps some debris. (see line 1005_1000/2005_135/101_1448)

This area could not be developed with MBES as it is within a secure area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11224_LIDAR_ReqFldWrk.csv	56	0.00	000.0	Primary

Hydrographer Recommendations

Chart with LIDAR data.

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: VALSOU - 7.0 m
WATLEV - 3:always under water/submerged

4.122) GP No. - 60 from H11224_LIDAR_ReqFldWrk.csv**Survey Summary**

Survey Position: 041° 18' 30.960" N, 72° 00' 43.560" W
Least Depth: 0.83 m
Timestamp: 1990-001.11:60:00.000 (01/01/1990)
GP Dataset: H11224_LIDAR_ReqFldWrk.csv
GP No.: 60
Charts Affected: 13212_1, 13214_1, 12372_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Turbid / kelp area

MBES data could not safely be collected over these contacts.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11224_LIDAR_ReqFldWrk.csv	60	0.00	000.0	Primary
H11224_LIDAR_ReqFldWrk.csv	64	145.69	006.6	Secondary (grouped)

Hydrographer Recommendations

Examine LiDAR to verify if this is 'Foul', chart per data.

S-57 Data

[None]

4.123) Profile/Beam - 826/95 from h11441 / 1005_mb / 2005-138 / 860_2109

Survey Summary

Survey Position: 041° 17' 11.351" N, 72° 06' 05.197" W
Least Depth: 8.71 m
Timestamp: 2005-138.21:09:42.787 (05/18/2005)
Survey Line: h11441 / 1005_mb / 2005-138 / 860_2109
Profile/Beam: 826/95
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Large rock, RESON 8101 shows to be significantly shoal of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-138/860_2109	826/95	0.00	000.0	Primary
h11441/1005_100/2005-132/122_2041	0002	5.19	274.8	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

28ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

4 ¾fm (12300_1, 13006_1, 13003_1)

8.7m (5161_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: QUASOU - 1:depth known
 TECSOU - 3:found by multi-beam
 VERDAT - 12:Mean lower low water

4.124) Profile/Beam - 4550/1 from h11441 / 1005_mb / 2005-140 / 442_1415

Survey Summary

Survey Position: 041° 18' 51.379" N, 72° 05' 07.057" W
Least Depth: 7.52 m
Timestamp: 2005-140.14:18:55.756 (05/20/2005)
Survey Line: h11441 / 1005_mb / 2005-140 / 442_1415
Profile/Beam: 4550/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Rock in anchorage 'C', MBES shows minimum depth to be shallower of charted sounding.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_mb/2005-140/442_1415	4550/1	0.00	000.0	Primary
h11441/1005_200/2005-135/205_2249	0001	5.57	188.0	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

24ft (13213_1, 13212_1, 12372_1, 12354_1, 13205_1)

4fm (12300_1, 13006_1, 13003_1)

7.5m (5161_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 7.522 m
 WATLEV - 3:always under water/submerged

4.125) Profile/Beam - 754/212 from h11441 / 1014_mb / 2005-141 / 133_1438

Survey Summary

Survey Position: 041° 20' 50.399" N, 72° 05' 19.282" W
Least Depth: 4.50 m
Timestamp: 2005-141.14:39:19.848 (05/21/2005)
Survey Line: h11441 / 1014_mb / 2005-141 / 133_1438
Profile/Beam: 754/212
Charts Affected: 13213_1, 12372_4, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Pipe or pile sticking up casting shadow in Klein SSS image, pile does not reach water surface.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1014_mb/2005-141/133_1438	754/212	0.00	000.0	Primary
h11441/1005_100/2005-135/218_1400	0004	3.95	134.3	Secondary

Hydrographer Recommendations

Chart per digital data.

Cartographically-Rounded Depth (Affected Charts):

15ft (13213_1, 12372_4, 12372_1, 12354_1, 13205_1)

2 ½fm (12300_1, 13006_1, 13003_1)

4.5m (5161_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: QUASOU - 1:depth known
 TECSOU - 2:found by side scan sonar; 3:found by multi-beam
 VALSOU - 4.505 m
 WATLEV - 3:always under water/submerged

4.126) Contact/Point - 0016/1 from h11441 / 1005_100 / 2005-132 / 245_1847**Survey Summary**

Survey Position: 041° 18' 43.770" N, 72° 04' 29.862" W
Least Depth: [None]
Timestamp: 2005-143.05:57:17 (05/23/2005)
Survey Line: h11441 / 1005_100 / 2005-132 / 245_1847
Contact/Point: 0016/1
Charts Affected: 13213_1, 13212_1, 12372_1, 12354_1, 13205_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

Klein 5000 SSS shows a Rock at this location, no bathymetry over this spot

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11441/1005_100/2005-132/245_1847	0016	0.00	000.0	Primary

Hydrographer Recommendations

Chart per LIDAR data if available.

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)
Attributes: QUASOU - 2:depth unknown
TECSOU - 2:found by side scan sonar
WATLEV - 3:always under water/submerged

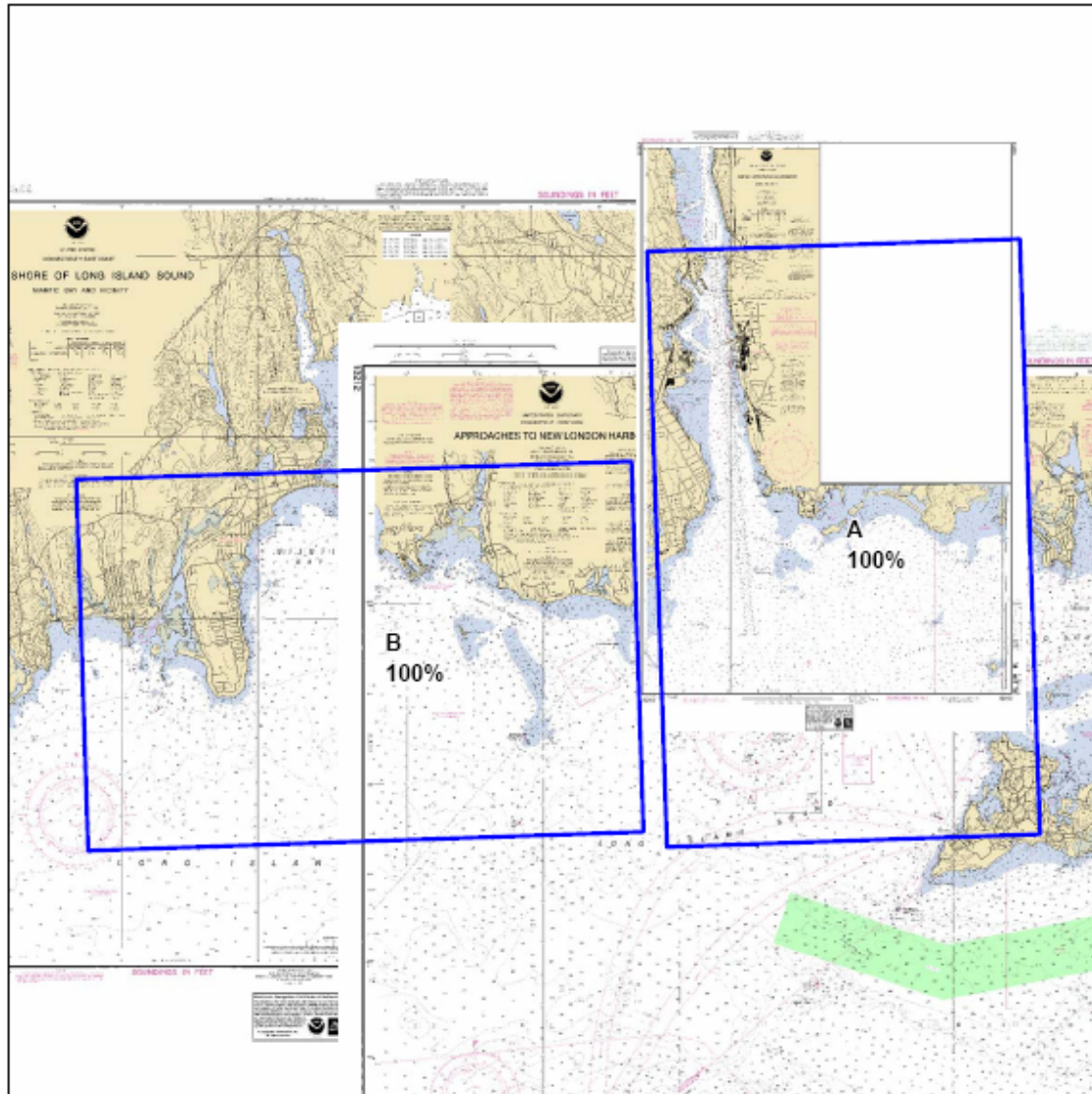
APPENDIX II

LIST OF GEOGRAPHIC NAMES

The hydrograper has no recommendations for changes to geographic names. A complete investigation of geographic names will be conducted at the Atlantic Hydrographic Branch.

APPENDIX III

PROGRESS SKETCH



Project	Sheet_Letter	H_num	HQ_Est_SNM	CumIPeroCompPrev	CumIPeroCompCur	SNM_CompCurh
B370-TJ-05	A	H11441	14	0	100	14
B370-TJ-05	B	H11442	16	50	100	8

Project	Month	LNH_Hydr	LNH_MB	SV_Casts	Bottom_Sam	AWOIS_Items	Tide_Gauge_Inst	DAS	DTime equip_H	DTime_Weather	D_Time_other_J
B370	April	271.00	612.00	81.00	0.00	23.00	0.00	13.00	33.00	18.00	0.00
B370	May	450.00	1,328.00	275.00	0.00	47.00	0.00	23.00	80.00	0.00	0.00

Progress Sketch OPR-B370-TJ-05
May, 2005

APPENDIX IV

TIDES AND WATER LEVELS

IV.1. Description

Tide data were collected through the National Water Level Observation Network (NWLON) from stations located at New London (846-1490), Montauk (851-0560) and New Haven (846-5705). The personnel of the THOMAS JEFFERSON were not required to level these tide stations. The dates and times that tide data were required for this survey are listed the Request for Approved Tides letter, figure d. Refer to standing instructions for information on water level procedures. All tide levels are relative to Mean Lower Low Level (MLLW) and times are UTC.

Attached is the request for smooth tides; submitted on May 23rd, 2005:

IV.2. Smooth Tide Request

May 23, 2005

MEMORANDUM FOR: Chief, Requirements and Development Division, N/OPS1

FROM: CDR Emily B. Christman, THOMAS JEFFERSON

SUBJECT: Request for Approved Tides/Water Levels

Please provide the following data:

1. Tide Note
2. Final zoning in MapInfo and .MIX format
3. Six Minute Water Level data (Co-ops web site)

Transmit data to:

NOAA/NOS/Atlantic Hydrographic Branch
N/CS33, Building #2
439 West York Street
Norfolk, VA 23510
ATTN: Chief AHB

These data are required for the processing of the following hydrographic survey:

Project No.: OPR-B370-TJ-05
Registry No.: H11441
State: CT
Locality: Eastern Long Island Sound
Sublocality: New London Harbor and Approaches

Attachments containing:

- 1) an Abstract of Times of Hydrography,
- 2) digital MID MIF files of the track lines from pydro on CD/diskette

cc: N/CS33

Request for Approved Tides

Times of Hydrography

Year_DOY	Min Time	Max Time
2005_117	16:09:44	20:26:31
2005_119	22:58:56	23:32:38
2005_126	15:59:36	19:07:55
2005_130	10:52:38	23:21:38
2005_131	10:44:32	23:10:52
2005_132	12:52:03	21:39:37
2005_133	10:54:00	22:35:12
2005_134	10:53:51	23:19:20
2005_135	10:19:35	23:02:59
2005_136	11:08:36	23:01:27
2005_137	10:51:10	22:54:25
2005_138	16:33:46	23:01:15
2005_139	11:00:48	22:41:51
2005_140	10:35:19	22:48:17
2005_141	12:30:47	19:31:49
2005_142	12:16:37	21:32:30

APPENDIX V**SUPPLEMENTAL SURVEY RECORDS AND CORRESPONDENCES****V.1. COAST PILOT REPORT, NOAA FORM 77-6**

NOAA Form 77-6 (Rev. 8/95)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
COAST PILOT REPORT			
SUBMIT TO: NATIONAL OCEAN SERVICE, NOAA (N/CS261) 1315 EAST-WEST HIGHWAY, STATION 7317 SILVER SPRING, MD 20910-3282 FAX: 301-713-4516 INTERNET: Lyn.Preston@noaa.gov		This record of your experience and observations when traversing the coast, entering port, and/or navigating inside waters will be used to update the Coast Pilot.	
OBSERVER: NAME AND ADDRESS Commanding Officer NOAA Ship Thomas Jefferson 439 West York Street Norfolk, VA 23510 TEL. (daytime) (757) 441-6322		DATE OF OBSERVATION N/A DATE OF SUBMISSION April, 2006 VESSEL NAME AND ADDRESS NOAA Ship Thomas Jefferson 439 West York Street Norfolk, VA 23510	
GEOGRAPHIC LOCATION <i>(Refer to charted objects by distance and bearing and/or include latitude/longitude, as applicable)</i> Sarah Ledge: 41°17'43.5" north by -072°20'25.2" west, 1.3nm south of New London Harbor Light. This rock shoals to 14 feet			
CHART NUMBER 13213_1, 13212_1		COAST PILOT NUMBER and EDITION NUMBER USCP 2, 25 th ed, 2006	

CHANGES TO EXISTING COAST PILOT TEXT

Give recommended revised language for the book. Identify affected text by page, paragraph(s), and line number(s). State the source of the information if other than personal observation.

Page 294, paragraph 44: 'Dangers', Change least depth of Sarah Ledge from 16 feet to 14 feet.

The source of this information is: NOAA ship THOMAS JEFFERSON project: OPR-B370-TJ-05, survey H11441, 2005.

(Continue on plain paper)

REQUEST FOR SURVEYS OR CHART CHANGE

List area for which surveys and/or changes in chart format, scale, or layout are needed. Include the name and geographic position of the area, the chart number of the largest scale chart that covers the area, and the reason for the request.

Chart 13213_1, New London Harbor, 1:10,000.

(Continue on plain paper)

ADDITIONAL INFORMATION FOR THE COAST PILOT

We are particularly interested in information about unusually strong currents; prominent landmarks; objects which provide particularly good radar return; sheltered anchorages (be explicit on direction of weather and type of bottom observed); drawbridge operation changes (e.g., drawbridge remains permanently in open position); change in pilot pick-up points; changes in radio frequencies monitored by pilots, marine exchanges, harbor masters, or drawbridges.

(Continue on plain paper)

Public reporting burden for this collection is estimated to average thirty minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the National Ocean Service (N/CS261), 1315 East-West Highway, Silver Spring, MD 20910-3282; and to the Office of management and Budget, Paperwork Reduction Project (0648-0007), Washington, DC 20503.

V.2. BOTTOM SAMPLE, NOAA FORM 75-44

No bottom samples were collected for this survey.

V.3. AIDS TO NAVIGATION, NOAA FORM 76-40

No ATon forms were submitted for this survey.

V.4 OTHER CORRESPONDANCE

----- Original Message -----

Subject: LIS

Date: Tue, 21 Dec 2004 09:47:03 -0500

From: Shep Smith <shep.smith@noaa.gov>

To: Marc Moser <marc.s.moser@noaa.gov>

CC: Emily B Christman <Emily.B.Christman@noaa.gov>, Jon Swallow
<Jon.Swallow@noaa.gov>, Tod Schattgen <tod.schattgen@noaa.gov>

Marc,

I talked to Swallow this morning and we discussed two things of interest to you.

Thing 1: In order to properly test out Caris' CUBE implementation, LCDR Swallow suggests we go north to LIS this spring for a leg to do sheet A or B.

Thing 2: Since both subject sheets referenced in Thing 1 are Lidar junctions and PHB is not particularly interested in taking on the Lidar that they are just getting, I suggested that AHB or even TJ would be a better place for the LIDAR to be examined.

Whoever does this (AHB or TJ), the procedure I would suggest would be to examine the Lidar for ambiguities, holidays, and chart discrepancies. They can be opened as entries in Pydro and investigated systematically. In addition, the multibeam can be planned to junction to the LIDAR gracefully.

Shep

--

LT Shepard M. Smith, NOAA
Executive Officer
NOAA Ship THOMAS JEFFERSON
439 W. York St
Norfolk, VA 23510
(757) 647-0187 (Ship's Cell)
(757) 441-6322 (In Port)
<http://www.moc.noaa.gov/tj/>

----- Original Message -----

Subject: Re: LIS

Date: Wed, 22 Dec 2004 13:05:51 -0500

From: Emily B Christman <emily.b.christman@noaa.gov>

To: Marc Moser <marc.s.moser@noaa.gov>

CC: Shep Smith <shep.smith@noaa.gov>, Jon Swallow <Jon.Swallow@noaa.gov>, Tod
Schattgen <tod.schattgen@noaa.gov>

References: <41C83767.2060805@noaa.gov>

My instinct is that TJ will be best served by examining the lidar data here on board. If AHB can assist by detailing a PS to help, that would be great.

Shep Smith wrote:

Marc,

I talked to Swallow this morning and we discussed two things of interest to you.

Thing 1: In order to properly test out Caris' CUBE implementation, LCDR Swallow suggests we go north to LIS this spring for a leg to do sheet A or B.

Thing 2: Since both subject sheets referenced in Thing 1 are Lidar junctions and PHB is not particularly interested in taking on the Lidar that they are just getting, I suggested that AHB or even TJ would be a better place for the LIDAR to be examined.

Whoever does this (AHB or TJ), the procedure I would suggest would be to examine the Lidar for ambiguities, holidays, and chart discrepancies. They can be opened as entries in Pydro and investigated systematically. In addition, the multibeam can be planned to junction to the LIDAR gracefully.

Shep

--

LT Shepard M. Smith, NOAA
Executive Officer
NOAA Ship THOMAS JEFFERSON
439 W. York St
Norfolk, VA 23510
(757) 647-0187 (Ship's Cell)
(757) 441-6322 (In Port)
<http://www.moc.noaa.gov/tj/>

----- Original Message -----

Subject: [Fwd: Re: LIS]

Date: Wed, 22 Dec 2004 14:14:22 -0500

From: Emily B Christman <emily.b.christman@noaa.gov>

To: Shep Smith <Shep.Smith@noaa.gov>, Marc <Marc.S.Moser@noaa.gov>

FYI. I will be gone the 2nd week of Jan., so you can do the discussing.

----- Original Message -----

Subject: Re: LIS

Date: Wed, 22 Dec 2004 13:37:54 -0500

From: "Tod Schattgen" <Tod.Schattgen@noaa.gov>

To: Emily B Christman <emily.b.christman@noaa.gov>

References: <41C83767.2060805@noaa.gov> <41C9B77F.EE45FEF1@noaa.gov>

Emily,

That is a possibility. Let's discuss it the second week of January.

Tod

Emily B Christman wrote:

My instinct is that TJ will be best served by examining the lidar data here on board. If AHB can assist by detailing a PS to help, that would be great.

Shep Smith wrote:

> Marc,
>
> I talked to Swallow this morning and we discussed two things of interest
> to you.
>
> Thing 1: In order to properly test out Caris' CUBE implementation, LCDR
> Swallow suggests we go north to LIS this spring for a leg to do sheet A
> or B.
>
> Thing 2: Since both subject sheets referenced in Thing 1 are Lidar
> junctions and PHB is not particularly interested in taking on the Lidar
> that they are just getting, I suggested that AHB or even TJ would be a
> better place for the LIDAR to be examined.
>
> Whoever does this (AHB or TJ), the procedure I would suggest would be to
> examine the Lidar for ambiguities, holidays, and chart discrepancies.
> They can be opened as entries in Pydro and investigated systematically.
> In addition, the multibeam can be planned to junction to the LIDAR
> gracefully.
>
> Shep
>
> --
> LT Shepard M. Smith, NOAA
> Executive Officer
> NOAA Ship THOMAS JEFFERSON
> 439 W. York St
> Norfolk, VA 23510
> (757) 647-0187 (Ship's Cell)
> (757) 441-6322 (In Port)
> <http://www.moc.noaa.gov/tj/>

----- Original Message -----

Subject: Re: LIS Lidar Data

Date: Mon, 03 Jan 2005 10:18:47 -0800

From: Edward J Van Den Ameerle <Edward.J.Vandenameele@noaa.gov>

To: Marc Moser <marc.s.moser@noaa.gov>

CC: Don Haines <don.haines@noaa.gov>, Norris A Wike

<Norris.A.Wike@noaa.gov>, Nicholas A Forfinski

<Nicholas.A.Forfinski@noaa.gov>, Shep Smith <Shep.Smith@noaa.gov>, Jon

Swallow <Jon.Swallow@noaa.gov>, Tod Schattgen <Tod.Schattgen@noaa.gov>,

Kim Sampadian <Kim.Sampadian@noaa.gov>, Gary Nelson

<Gary.Nelson@noaa.gov>, Dave Sinson <dave.sinson@noaa.gov>

References: <41D958EB.5090707@noaa.gov>

Marc,

PHB just received these data last week from LADS. Kim and Gary will be completing the 30-day review for contract acceptance and payment purposes starting this week.

Once they are done, the data will be sent to AHB. I recommend TJ get together with AHB to review the data to provide further direction for survey overlap. The review should include determining which areas are adequately covered by LIDAR and which areas require further investigation with ship/multibeam. This will also include examining coverage on shoals and hydrographic features to determine if further least depth investigations are warranted. PHB's 30-day review will not focus on these aspects as much as it is concentrated on reviewing compliance with contract requirements. The past few years, PHB has provided data and guidance to RA and FA as to what the junctioning limit should be and which features, holidays, and areas need further investigation, and ideally this review should be a joint effort between the Branch and the field unit.

Do you know which sheet TJ will be completing? We can probably prioritize our efforts on that area so that you get the data in time. Also, Kim and Dave Sinson will be at FPW at the end of the month; they both have experience reviewing LIDAR and preparing this type of guidance to the field units; they could probably share some lessons learned.

-EJ

Marc Moser wrote:

Happy New Year,

We are planning to do one Long Island Sound sheet this spring that overlaps with the LIDAR data to test the latest CARIS CUBE implementation. We would like to begin scheduling the initial planning well in advanced to allow us to become familiar with these LIDAR data. When could we get these data to TJ?

We hope that PHB will be able to conduct the 30-day review of these data. How large is the dataset?

----- Original Message -----

Subject: Re: LIS 2005

Date: Tue, 04 Jan 2005 16:22:59 -0500

From: Jeremy McHugh <Jeremy.McHugh@noaa.gov>

To: Marc Moser <marc.s.moser@noaa.gov>

CC: Jon Swallow <Jon.Swallow@noaa.gov>, Michael Riddle
<Michael.Riddle@noaa.gov>, Kim Sampadian <Kim.Sampadian@noaa.gov>

References: <41DAD6AA.4030202@noaa.gov>

Hi Marc,

Yes I will be the point of contact for the LIS in 2005. Steve Verry retired last week and I will be servicing all of your TJ projects in addition to the RUDE's projects. I am afraid that I don't have enough information to answer most of these questions yet. But here is my best effort. Hopefully, Jon can fill in the blanks.

Jon did mention that TJ would be doing one north shore LIS sheet this spring that will serve as CARIS/CUBE test. I don't have any MI tables showing the extent of LIDAR coverage. Jon asked me to look at the charted depths and features on sheets A and B and decide which sheet would be most appropriate for the CUBE test. Sheet B has the most bathymmetric variability of the two and therefore may be the best choice. On the other hand, sheet A would include a survey of New London harbor which would presumably contain a lot of cultural features that may challenge CUBE's ability to choose from multiple hypotheses.

As far as shoreline verification and tide gauge requirements are concerned, I will have to confer with Jon and Mike Riddle. Mike is in multibeam training this week. I will also inquire about the GPS backpack.

FYI, I just spoke to Kim Sampadian from PHB on the phone today. She informed me that they just received the LIDAR data for sheets A and B on DEC 29 and is now beginning her 30-day review period. After she reviews the data and assuming that the data is accepted, she will send everything to AHB where the junction limit line will be determined, probably with Kim's input.

Let me know if you have any further questions.

-Jeremy

Marc Moser wrote:

Hello Jeremy,

I do not know if you are the POC for LIS in 2005, but I have some questions based on the assumption that we will go up and do one sheet this Spring:

- 1) What will be the survey limits (do you have MI tables?)
- 2) Since all of the North shore sheets have the possibility of a large amount of shoreline verification, how much will we be expected to do (especially since this will be one of six sheets with LIDAR data overlap)? Even if your shoreline requirements are limited, what if we find discrepancies between the chart and LIDAR data, that would require more work.
- 3) Will we have a backpack GPS system available to borrow?
- 4) Will we have to do opening and closing levels for both gauges for this three week leg?

----- Original Message -----

Subject: Re: Long Island Sound

Date: Mon, 31 Jan 2005 14:34:38 -0500

From: Thomas Landon <Thomas.Landon@noaa.gov>

Reply-To: Thomas.Landon@noaa.gov

Organization: National Oceanic Service

To: Marc Moser <marc.s.moser@noaa.gov>

CC: Cary Wong <Cary.Wong@noaa.gov>, Sarah Mrozek

<Sarah.Mrozek@noaa.gov>, Michael Davidson <Michael.Davidson@noaa.gov>

References: <41FE4A10.50300@noaa.gov>

Quite correct, Marc - your assistance with the check levels would be greatly appreciated.

Thanks...Tom

Marc Moser wrote:

Good morning,

We are doing some very preliminary planning for this field season. We are initially planning on going up to LIS for one sheet this spring. I am assuming that we should plan on doing opening and closing levels on Mattituck and Silver Eel?

We will return in the Fall to acquire data on the remaining sheets.

--

Thomas F. Landon

Oceanographer

Requirements and Development Division (RDD)

N/OPS1, SSMC4, Station 6409

1305 East West Highway

Silver Spring, MD 20910

Office Phone: 301-713-2897 x191

Office Fax: 301-713-4435

Home Phone: 301-662-1927

----- Original Message -----

Subject: Re: LIDAR data

Date: Tue, 08 Feb 2005 07:20:43 -0500

From: Norris A Wike <Norris.A.Wike@noaa.gov>

Organization: NOS, OCS, HSD, Atlantic Hydrographic Branch

To: Marc Moser <marc.s.moser@noaa.gov>

References: <4208AA7E.8020403@noaa.gov>

Sounds good.

Norris

Marc Moser wrote:

Norris,

We haven't forgotten about you, we are wrapped up in Hydro training stuff. This week and next will involve all of survey with various trainings, so I propose we tentatively plan an initial meeting to go over LIDAR planning the last week of February.

Subject:
Re: 1014 POS
From:
"Gerd Glang" <Gerd.Glang@noaa.gov>
Date:
Wed, 09 Feb 2005 17:11:48 -0500
To:
Marc Moser <marc.s.moser@noaa.gov>
CC:
Shawn Maddock <Shawn.Maddock@noaa.gov>

Huh. Verrrrrry interesting.

When was the last time you could successfully save the POS settings to nvram for both systems?
Were there any software changes common to both since then?

Marc Moser wrote:

As you requested, I tried disabling the ethernet logging, reducing the baud rates to their original rates, and re-connecting using the Hypack computer.

As of today, both launches are doing the same thing when trying to save settings (therefore, anytime we re-boot the POS, we have to manually re-set all of the settings).

--

CDR Gerd Glang

Chief, Hydrographic Systems & Technology Programs
NOAA's *Coast Survey*

Subject:
Re: 1014 POS
From:
"Marc S Moser" <Marc.S.Moser@noaa.gov>
Date:
Wed, 09 Feb 2005 20:23:12 -0500
To:
"Gerd Glang" <Gerd.Glang@noaa.gov>
CC:
Marc Moser <marc.s.moser@noaa.gov>, Shawn Maddock <Shawn.Maddock@noaa.gov>

All windows security updates. All virus protection. When the controller was on Hypack, when TSIP and velocowin was on Hypack (but remember, I did test on hypack.

----- Original Message -----

From: "Gerd Glang" <Gerd.Glang@noaa.gov>
Date: Wednesday, February 9, 2005 5:11 pm
Subject: Re: 1014 POS

> Huh. Verrrrry interesting.
>
> When was the last time you could successfully save the POS
> settings to
> nvram for both systems? Were there any software changes common to
> both
> since then?
>
> Marc Moser wrote:
>
> > As you requested, I tried disabling the ethernet logging,
> reducing the
> > baud rates to their original rates, and re-connecting using the
> Hypack
> > computer.
> >
> > As of today, both launches are doing the same thing when trying
> to
> > save settings (therefore, anytime we re-boot the POS, we have to
> > manually re-set all of the settings).
> >
> >
> >
> --
>
> CDR Gerd Glang
>
> Chief, Hydrographic Systems & Technology Programs
> NOAA's Coast Survey
>

ubject:
Re: 1014 POS
From:
"Gerd Glang" <Gerd.Glang@noaa.gov>
Date:
Thu, 10 Feb 2005 08:44:42 -0500
To:
Marc.S.Moser@noaa.gov
CC:
Shawn Maddock <Shawn.Maddock@noaa.gov>

But have you made any firmware/software upgrades to the two POS units since you last were able to settings?

Marc.S.Moser@noaa.gov wrote:

All windows security updates. All virus protection. When the controller was on Hypack, when TSIP and velocowin was on Hypack (but remember, I did test on hypack.

----- Original Message -----

From: "Gerd Glang" <Gerd.Glang@noaa.gov>
Date: Wednesday, February 9, 2005 5:11 pm
Subject: Re: 1014 POS

Huh. Verrrrry interesting.

When was the last time you could successfully save the POS settings to nvram for both systems? Were there any software changes common to both since then?

Marc Moser wrote:

As you requested, I tried disabling the ethernet logging, reducing the

baud rates to their original rates, and re-connecting using the Hypack

computer.

As of today, both launches are doing the same thing when trying to

save settings (therefore, anytime we re-boot the POS, we have to manually re-set all of the settings).

--

CDR Gerd Glang

Chief, Hydrographic Systems & Technology Programs
NOAA's Coast Survey

--

CDR Gerd Glang

Chief, Hydrographic Systems & Technology Programs
NOAA's Coast Survey

Subject:
Re: Dynamic Draft
From:
"Benjamin K. Evans" <benjamin.k.evans@ranems.pmc.noaa.gov>
Date:
Wed, 06 Apr 2005 16:57:47 +0000
To:
Shep Smith <shep.smith@noaa.gov>
CC:
"Benjamin K. Evans" <benjamin.k.evans@ranems.pmc.noaa.gov>, Marc S Moser <Marc.S.Moser@noaa.gov>

That's affirmative... We were actually able to do some of the boats in Lake Washington to eliminate the tide influence, but saw the same results.

Shep Smith wrote:

Just to make sure-you did tide correct, right? Did you verify your water level correction with at rest before and after?

Benjamin K. Evans wrote:

Mark, Marc, (and Mark),

I'm reviewing RA's dynamic draft measurement results for the Jensen launches. We used the reference surface method this year, which I believe you have all used as well. However, we've found that this year's results vary dramatically from the values calculated last year, and from historical settlement profiles for that hull design. Could you take a look at the plot ("Chart1") in the attached spreadsheet and let me know how this agrees with what you're seeing on your boats?

It appears to me that the significant negative trend to the data at higher speed indicates that we have somehow failed to decouple squat from settlement- the squat component (and corresponding upward vertical displacement of the transducer in the bow) should be taken care of by the pitch measurement and lever arm from the center of roll and pitch to the transducers, but it appears to me that this may not be happening. The attached plot for RA-6 is the best data we have, but all our launches show this trend. I have reviewed the process used and the FPM guidance, and haven't found anywhere we've gone wrong.

Any ideas? If you could send example data from your boats, I'd appreciate it.
Thanks,

Ben

--

LT Ben Evans, NOAA
NOAA Ship RAINIER (s221)
NOAA Marine Operations Center, Pacific
1801 Fairview Ave. E
Seattle, WA 98102

Email correspondence dated 4-11-2005 from Lt Ben Evans to Lt Marc Moser.

Marc,

For your optical level measurements, where was the staff positioned on the launch?

Ben

Marc Moser wrote:

Ben,

Attached are our reports (not yet verified or discussed). The spreadsheets (designed by Nick) were used for all three platforms. As you can see in the reports, there are some differences between the optical and reference surface methods. We have to discuss here on the ship to decide how to handle it. Will let you know what we decide.

1005					
------	--	--	--	--	--

2001		2002		2005	
Draft	Speed	Draft	Speed	Draft	Speed
0.040	6.7	-0.029	3.3	0.080	3.9
0.020	7.6	-0.006	5.2	0.098	4.9
-0.030	9.0	0.024	6.3	0.106	6.1
-0.080	10	0.054	7.3	0.144	7.2
-0.110	11	0.043	8.1	0.189	8.1
-0.120	11.5	0.012	8.6		
-0.080	12.5				
1014					
2001		2003		2005	
Draft	Speed	Draft	Speed	Draft	Speed
0.040	3.2	0.040	3.2	-0.006	3.869
0.040	5.3	0.040	5.3	0.030	4.574
0.070	6.7	0.070	6.7	0.000	6.148
0.090	7.6	0.090	7.6	-0.006	7.2
0.050	8.5	0.050	8.5	-0.044	7.986
-0.010	9.4	-0.010	9.4		

Draft

Marc Moser wrote:

Ben,

We are still evaluating out launch S+S values. We used two methods (optical level and reference surface) at one time so we could compare and contrast the results. Nick and Helen are working on this for the launches.

We should have preliminary results by the end of this leg.

Benjamin K. Evans wrote:

Mark, Marc, (and Mark),

I'm reviewing RA's dynamic draft measurement results for the Jensen launches. We used the reference surface method this year, which I believe you have all used as well. However, we've found that this year's results vary dramatically from the values calculated last year, and from historical settlement profiles for that hull design. Could you take a look at the plot ("Chart1") in the attached spreadsheet and let me know how this agrees with what you're seeing on your boats?

It appears to me that the significant negative trend to the data at higher speed indicates that we have somehow failed to decouple squat from settlement- the squat component (and corresponding upward vertical displacement of the transducer in the bow) should be taken care of by the pitch measurement and lever arm from the center of roll and pitch to the transducers, but it appears to me that this may not be happening. The attached plot for RA-6 is the best data we have, but all our launches show this trend. I have reviewed the process used and the FPM guidance, and haven't found anywhere we've gone wrong.

Any ideas? If you could send example data from your boats, I'd appreciate it.

Thanks,

Ben

--

LT Ben Evans, NOAA
 NOAA Ship RAINIER (s221)
 NOAA Marine Operations Center, Pacific
 1801 Fairview Ave. E
 Seattle, WA 98102

Subject:
Re: Heave Filter
From:
"Benjamin K. Evans" <benjamin.k.evans@ranems.pmc.noaa.gov>
Date:
Thu, 05 May 2005 02:10:14 +0100
To:
Richard Edmundson <richard.edmundson@noaa.gov>
CC:
Jack Riley <Jack.Riley@noaa.gov>, Marc S Moser <Marc.S.Moser@noaa.gov>, Charles Yoos
<Charles.Yoos@noaa.gov>, Mark Blankenship <Mark.Blankenship@noaa.gov>, Harlan Stephens
<Harlan.Stephens@noaa.gov>

Richard,

You're absolutely right that picking the right cutoff period for the heave bandwidth filter is critical (at least until we get "true heave" fully functional with CARIS and implemented throughout the fleet). On RAINIER, where we work in a wide range of swell conditions, we generally modify this on a project by project basis as the sea conditions in any particular area dictate. Basically, the trade-off as I understand it is as follows:

- Setting the filter period short damps the long period drift / oscilation that is inherent to the IMU, as well as the "induced heave" caused by abrupt turns of the vessel. However, it also damps legitimate long period heave signals such as ocean swell in areas more exposed to the open ocean.
- Conversely, setting the heave filter long captures a fuller frequency spectrum of heave, but can allow long period drift and artifacts from of erratic turns to sneak in as well. As a result, when using a long period for the heave filter, its very important to allow plenty of time (often as much as a minute) for line "run in", where the vessel is steadied up on course and speed before actually beginning logging data.

So, my rule of thumb has been to set the heave period as short as I think I can get away with. In inshore, protected areas where there is no ocean swell and the launches are typically maneuvering aggressively to run short lines close to shore, I usually set the filter at 5-8s. In offshore ares, I try to get an idea of what the swell period is (usually be calling an offshore ODAS buoy or just going out to recon the area myself) and then have the launch crews set the heave bandwidth filter to just over that threshold. For instance, here in Sitka we have a couple of sheets exposed to ocean swell, which I estimated visually at ~12s, and the closest ODAS buoy (in slightly deeper water) gave a heave period of 14s. As a result, for today I had the boats set the heave filter at 15s, but cautioned them against turning onto line too abruptly.

Hope this helps,

Ben

Richard Edmundson wrote:

Guys,
I noticed the RUDE is using an all purpose heave filter on the POS/MV.
Obviously one heave filter will not work especially w/ decent size
swells. Any guidelines on what type of heave filter to use during
various sea states?

Richard

--

LT Ben Evans, NOAA
Field Operations Officer
NOAA Ship RAINIER (s221)
NOAA Marine Operations Center, Pacific
1801 Fairview Ave. E
Seattle, WA 98102

From: Marc Moser [mailto:marc.s.moser@noaa.gov]
Sent: Monday, June 06, 2005 7:16 AM
To: techsupport@applanix.com
Cc: Shawn Maddock; Jack Riley
Subject: Heave

Hello,

We are surveying in an area with significant long period swell. Try as we might to adjust the heave bandwidth settings, we are still seeing some long period heave artifacts sneak into our data.

The manual does not describe in detail the two heave settings, could you go into more detail for the two options (heave bandwidth and damping ratio)? Also, what is the Z Attitude option do? We have only experimented with changing the heave bandwidth guestimating the long period movement of the small boats (sometimes with disasterous long period artifacts).

For example, yesterday the swell period was between 8-11 seconds (as reported from a nearby weather buoy). We had the heave bandwidth set at 13 seconds.