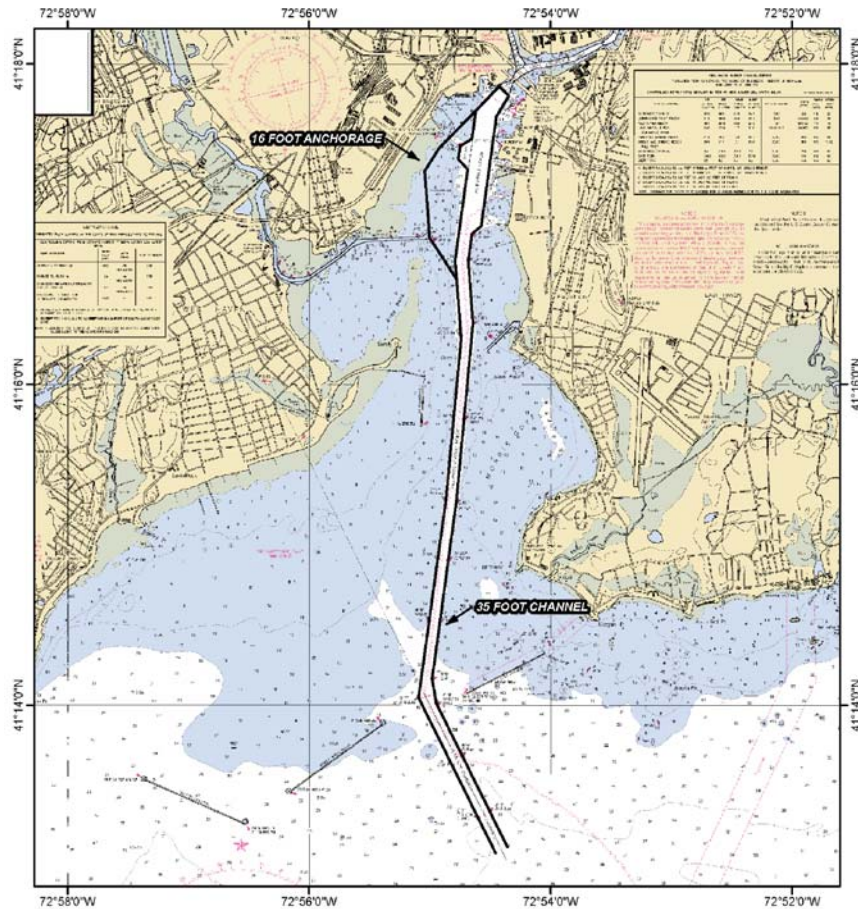


**NEW HAVEN HARBOR
CONNECTICUT
NAVIGATION IMPROVEMENT PROJECT**

**INTEGRATED FEASIBILITY REPORT AND
ENVIRONMENTAL IMPACT STATEMENT**

**SUPPORTING TECHNICAL DOCUMENT #2
DATA REPORT
HYDROACOUSTIC AND UNDERWATER VIDEO
SURVEY**

New Haven Harbor Navigation Improvement Project Feasibility Study



HYDROACOUSTIC AND UNDERWATER VIDEO SURVEY

**IN SUPPORT OF
PROJECT DESIGN**

**NEW HAVEN HARBOR
NAVIGATION IMPROVEMENT PROJECT
FEASIBILITY STUDY**

NEW HAVEN, CONNECTICUT

March 2018

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1.0 INTRODUCTION

New Haven Harbor is located along the northern shore of Long Island Sound in the city of New Haven, CT. The harbor is a shallow embayment occupying 10.5 square miles within boundaries established by three large stone breakwaters to the south and the mouths of the West, Mill, and Quinnipiac Rivers to the north. The harbor has an irregular shoreline consisting of intertidal mud flats, salt marshes, sections of sandy beach, and developed waterfront with docks and berthing facilities. The inner harbor is fairly well protected from storm and wave action by natural land barriers allowing fine-grained sediments to accumulate in lower energy environments such as in the navigation channel north of Lighthouse Point, Morris Cove, and areas adjacent to the breakwaters. The outer harbor, except for the areas sheltered by the breakwaters, is exposed to southerly storms.

The existing Federal Navigation Project (FNP) in New Haven Harbor (Figure 1) consists of a channel and turning basin that are 35 feet deep at mean lower low water (MLLW) as well as a 16 foot MLLW anchorage located along the western side of the channel in the inner harbor. Periodic maintenance dredging of these areas has been performed since the late 1800's. The project was last dredged in 2014 when approximately 830,000 cubic yards of shoaled material was mechanically removed from the 35 foot channel and turning basin and placed at the Central Long Island Sound Disposal Site (CLDS). Pre-dredge testing performed in 2010 found the shoaled material throughout the harbor to be predominantly silt and poorly graded medium to fine sand.

The New England District (NAE) of the US Army Corps of Engineers (USACE) is currently preparing a feasibility study to evaluate improvements to the New Haven Harbor FNP. Aspects of the preliminary project design include: deepening and widening the main ship channel, widening the channel bend at Southwest Ledge, straightening the channel bend downstream of the existing turning basin, and relocating and deepening the turning basin. These combined actions would require the mechanical removal of up to 4,500,000 cubic yards of sediment and up to 32,000 cubic yards of rock depending on the selected channel alignment and dimensions.

Dredged sediments produced from the proposed improvement project are expected to be a mix of poorly graded sand and fine grained material within the existing channel profile and adjacent harbor seafloor with glaciofluvial deposits at depth. To the extent practical suitable dredged material will be beneficially reused for marsh creation, habitat restoration, and to cover historic dredged material disposal mounds at CLDS.

The purpose of the survey effort described in this report was to collect data to document surficial sediment type, sediment layering, and the presence of obstructions at or near the water-sediment interface within the proposed project area. Efforts undertaken to meet the project objectives included side scan sonar, sub-bottom profiling, and underwater video surveys.

2.0 MATERIALS AND METHODS

Staff from the NAE Environmental Resources Section conducted survey efforts in May and August 2017. Work was carried out onboard the R/V Nomad, a 25 foot SBI Defender outfitted for coastal survey operations. Vessel positioning was achieved using a Hemisphere Vector VS330™ Real Time Kinematic (RTK) position and heading system interfaced to a computer running Hypack® survey software for navigation. RTK corrections from the CTDOT/UCONN VRS network were received in real time through a cellular internet connection.

The survey effort was separated into two phases. The first phase included a combined side scan sonar and sub-bottom profiler survey to delineate surficial sediment types, and to identify potential obstructions and anthropogenic features of interest. The second phase involved an underwater video survey using a remotely operated vehicle (ROV) to investigate sonar contacts identified in side scan sonar data from the initial survey.

2.1 Side Scan Sonar and Bathymetry Survey

A side scan sonar and bathymetry survey was conducted from 1-3 August 2017 by staff from the NAE Environmental Resources Section. This survey of the proposed improvement project footprint included 22 transects (Figures 2 and 3) laid out using a line spacing of 100 feet in an orientation parallel to the channel boundary. Approximately 68.8 linear miles of high-resolution side scan sonar and bathymetry data was collected over the three day survey effort to provide full coverage of the 2.0 square mile study area. The length of transects 12 through 15 was shorted from 9.4 to 7.6 miles due to the rough sea state beyond the breakwaters which persisted throughout the survey effort.

Hydroacoustic data was collected using an Edgetech 6205 multiphase echosounder with a 230/550 kHz side-scan and 230 kHz bathymetry frequency configuration. The Edgetech 6205 was interfaced with a Teledyne DMS10 motion sensor and the Vector VS330™ position and heading system. The sonar head was fixed to an adjustable survey boom mounted along the starboard side of the vessel. The face of the sonar head was adjusted to be 16 inches below the water surface. Prior to the start of the survey effort a patch test was conducted to correct for pitch, roll, and yaw deviations resulting from sensor misalignment and to account for the latency of the system. Conductivity, temperature, and depth (CTD) profiles were collected throughout the survey using a Sontek Castaway®-CTD and were uploaded to Hypack® to correct for speed of sound variations in the water column.

Side-scan sonar and bathymetric data were viewed in real time on the survey vessel and recorded in Hypack®. The vessel operator navigated all transects at a speed of approximately 4 knots while recording data. Transects were run in opposite directions to minimize non-recording time. Transect information including the number, filename, start and stop time, direction, and pertinent observations were recorded in a field log throughout the survey.

Side-scan sonar data from the 550 kHz channel of each transect was imported to Chesapeake Technology (CTI) SonarWiz 6 software for processing and analysis. Processing included digitizing of the first signal return to remove the water column portion of the sonar record and adjustments for signal attenuation with distance using Time Varied Gain (TVG) corrections. The processed track lines were combined into a high resolution mosaic and used to interpret the surficial sediment type and to digitize features of interest within the survey area. A sonar contact report consisting of an image of each digitized feature along with position, dimensions, attributes, and other pertinent information was exported using CTI SonarWiz and is presented as Appendix A of this report.

Bathymetric data was not requested as product from this survey but the 230 kHz channel collected concurrently with the side scan sonar data from each transect was processed to provide an accurate surface for vertical alignment of sub-bottom profiler data. Bathymetric data was processed in Hypack® MBMax. Data from each transect was filtered to flag erroneous sonar returns (i.e. inaccurate bottom depth outputs resulting from acoustic artifacts, noise in the water column, or vegetation) and manually reviewed by a sonar technician for accuracy and to remove spurious points. Tide corrections were made in Hypack® by applying local tide model offsets from the NOAA Vertical Datum Transformation (VDatum) tool to the RTK orthometric heights recorded in the field. The finalized data set was exported from Hypack® MBMax as averaged soundings using a 3x3 foot grid spacing with depths referenced to Mean Lower Low Water (MLLW). This file was then used to generate depth contours and a triangular irregular network model in ESRI ArcGIS.

2.2 Sub-Bottom Profiler Survey

A sub-bottom profiler survey was conducted on 4 August 2017 by staff from the NAE Environmental Resources Section. This survey of the proposed improvement project footprint included 28 transects (Figures 4 and 5) consisting of three along channel transects laid out using a line spacing of 500 feet in an orientation parallel to the channel boundary and 25 cross channel transects laid out using a line spacing of 1000 feet in an orientation perpendicular to the channel boundary. Approximately 17.0 linear miles of survey data were collected over the one day effort to provide sub-surface information in portions of the study area where signal penetration was adequate. A more intensive sub-bottom survey was initially planned but the number of inner harbor transects was reduced due to gas charged sediments resulting in poor signal penetration. The number of transects that could be run in the outer harbor was also limited by rough sea state beyond the breakwaters.

Sub-bottom data was collected with an Edgetech 3100 sub-bottom profiler system using a SB-216S towfish operating with a chirp pulse bandwidth of 2-12 kHz. The Edgetech 6205 was interfaced with the Vector VS330™ position and heading system. The towfish was fixed to an adjustable survey boom mounted along the starboard side of the vessel. The face of the transducer and hydrophone array was adjusted to be 24 inches below the water surface. Data was recorded in .JSF format to a dedicated computer running Edgetech

Discover® data acquisition software. The data from each sub-bottom transect was imported to CTI SonarWiz software for processing and analysis. Processing included adjustment of time varied gain (TVG) and digitizing the first signal return to track the seafloor as well as subsequent acoustic reflectors representing changes in sediment type at depth. The processed data from each transect was aligned to the bathymetric grid of the study area and used to generate a three dimensional intersection model to visualize the relationship of sub-bottom features between survey tracks. Scaled profiles for each sub-bottom transect were exported using SonarWiz and are presented as Appendix B of this report.

2.3 Video Survey

An underwater video survey was conducted on 1 August 2017 by staff from the NAE Environmental Resources Section. Video footage was collected at 11 stations (Figure 6) corresponding to sonar contacts of interest identified in the processed side scan mosaic. These features were selected to confirm the interpretation of side scan sonar data and to gather additional information on unidentifiable features of potential anthropogenic origin. These features were digitized in CTI SonarWiz and transferred to Hypack® for navigation in the field.

At each station the survey vessel anchored in the vicinity of the sonar target and video footage was collected using a VideoRay Pro3 GTO ROV. The ROV was piloted from the surface by NAE personnel and the video feed was recorded to a portable DVR for review and analysis. Real time observations regarding the sonar target and the ambient seafloor conditions were recorded in a field log throughout the survey.

Video files were reviewed using CyberLink PowerDirector video editing software. Representative screen captures and video clips were created from the footage collected at each video survey station. A database of screen captures paired with associated sonar target information and field notes is presented as Appendix C of this report.

3.0 DATA INTERPRETATION

3.1 Side Scan Sonar

Side scan sonar creates an image of the seafloor by measuring the travel time and intensity of reflected acoustic energy, referred to as backscatter. The reflected signal strength is very sensitive to subtle variations in seafloor hardness and texture. Materials such as rock and sand are very efficient at reflecting acoustic energy and have a high backscatter signature while fine sediments such as silt and clay absorb more energy than they reflect and therefore exhibit low backscatter. Because of these characteristics it is possible to interpret changes in backscatter as a proxy for grain size and generate a map of surficial geology. It is also possible to distinguish the size and shape of other seafloor features by examining the pattern of their acoustic reflection and shadow.

The high resolution mosaic generated from the processed 550 kHz dataset (Figures 7 and 8) was imported to CTI SonarWiz 6 for interpretation and digitization of seafloor features

as individual targets. The study area was classified into two bottom types based on acoustic backscatter properties. This classification was verified by visual characterization and grain size data from sediment cores collected throughout the proposed project area in August of 2017 (AECOM, 2017).

The first bottom type within the survey area was a substrate with low acoustic backscatter properties consisting of fine sand and silt with numerous anthropogenic features. Isolated boulders and pockets of coarser substrate corresponding to sand or shell were present in this area. This bottom type was typical of the inner harbor from a point just north of the breakwaters and represents approximately 62%, or 1.5 square miles, of the 2.4 square mile area covered by the side scan sonar mosaic.

The second bottom type in the survey area consisted of coarse to medium sand with small scale relief features and a higher frequency of isolated boulders. This bottom type was characterized by relatively uniform high backscatter and was typical of the outer harbor. Several areas with a high density of small to medium sized boulders on a coarse substrate were delineated between the breakwaters and channel marker R4. These areas exhibited complex patches of high and low backscatter with individual well defined high-backscatter targets. This bottom type represented approximately 38%, or 0.9 square miles, of the total area covered by the side scan sonar mosaic.

Analysis of individual sonar contacts in the 2017 New Haven Harbor side scan sonar mosaic resulted in the identification and classification of 242 targets into one of 11 categories (Table 1). The predominant target categories encountered during data interpretation were derelict fishing gear, moorings, and isolated boulders. The position of mooring features digitized from the side scan mosaic demonstrated excellent agreement with the known position of navigation aids and the GPS position of surface buoys marked during the survey. Other identifiable features of interest included: debris in the vicinity of the terminal facilities corresponding to discarded cables, sunken pilings, and other man-made objects; areas of drag scars associated with commercial fishing activities adjacent to the existing federal channel; a concrete pipeline located along the western side of the channel in the vicinity of Sandy Point; and a sewer outfall located along the eastern side of the channel between channel markers RN18 and RN20.

Two sonar contacts identified in the side-scan mosaic were classified as possible wreckage. The first of these, located along the western side of the channel in the vicinity of Shag Bank, was approximately 130 feet long and 20 feet wide. This target was not marked on nautical charts for the area or recorded in the register of known shipwrecks (NOAA AWOIS).

The second possible wreck, located along the western side of the channel between channel markers G1 and G3, was approximately 85 feet long and 12 feet wide. This target was located along the westernmost extent of the survey boundary and was recorded in only the starboard channel of a single survey transect. No attempt was made to collect additional hydroacoustic data in the vicinity of the target because it was well outside of the proposed project footprint.

Thirteen targets within the survey area were not definitively classified into a category due to a lack of definition or poor signal reflectance resulting from positioning on the seafloor relative to the sonar head. These targets were assigned a tentative classification as either derelict moorings, partially buried fishing gear, or areas of disturbed sediment based on their dimensions and association with adjacent targets.

TABLE 1: CLASSIFICATION OF SIDE SCAN SONAR CONTACTS

Contact Category	Count	Description
Fishing Gear	80	Feature with dimensions and characteristics consistent with commercial fishing gear. Most often observed as regularly spaced strings of three with visible line.
Rock or Rocky Areas	46	Isolated features with high backscatter and definition corresponding to individual boulders. Areas with high numbers of boulders on coarse substrate were delineated as single polygon features.
Mooring Related Features	38	Feature with dimensions and characteristics consistent with mooring blocks or anchors. Line to surface floats often visible. Includes derelict moorings in proximity to active mooring features.
Debris	35	Feature of anthropogenic origin with dimensions and characteristics consistent with sunken pilings, discarded cables, etc. Most frequently observed in proximity to terminal facilities or anchorage areas.
Isolated Sediment Features	15	Localized areas of high backscatter with low target definition corresponding pockets of coarse material, shell reefs, or disturbed sediment.
Unidentified Targets	13	Feature of apparent anthropogenic origin that could not be positively identified based on dimensions or reflectance properties. All targets in this category were tentatively classified as derelict moorings, partially buried fishing gear, or areas of disturbed sediment.
Drag Scars	8	Narrow linear depressions in the seafloor resulting from commercial fishing activities.
Wreckage	2	Features which appear to be associated with a sunken vessel or object
Containment Boom	1	Containment boom deployed around a petroleum product release in the inner harbor.
Pipeline	1	Raised linear feature extending east from Sandy Point. Possibly an inactive outfall associated with the West Haven wastewater treatment plant.
Sewer Outfall	1	Outfall associated with the New Haven wastewater treatment plant on the eastern shoreline.
Total No. Contacts	242	

3.2 Bathymetry

The bathymetric data from the May 2017 survey was used to create a 3x3 foot gridded matrix consisting of 1,048,576 processed output points. This matrix was exported to ArcGIS for generation of depth contours and creation of a triangular irregular network model as depicted in Figures 9 and 10. Tide corrected depths in the inner harbor ranged from -3 to -53 feet MLLW while depths in the outer harbor ranged from -14 to -55 feet MLLW. As previously discussed, bathymetric data was not requested as product of this survey but was processed to provide an accurate surface for vertical alignment of sub-bottom profiler data. As such, an in depth discussion of bathymetric features is not presented in this report.

3.3 Sub-Bottom Profiler

A sub-bottom profiler transmits low frequency acoustic energy which is able to penetrate the sea floor and reflect off sub-surface sediment layers. Changes in sediment type can be distinguished because changes in acoustic impedance reflect part of the acoustic signal. The system interprets the travel time and intensity of these signals to create a two dimensional profile of the stratigraphy along a survey transect.

Sub-bottom profiles collected in the inner harbor from lines 350+00 to 310+00 and 270+00 to 155+00 exhibited little to no signal penetration in the vicinity of the existing FNP due to the presence of gas charged organic sediments at the surface. Signal penetration in the portions of these transects outside of the existing FNP ranged from 10 to 30 feet. Interpretation of subsurface data from areas of the inner harbor with adequate signal penetration does not indicate the presence of bedrock or dense overburden such as glacial till within the proposed dredge prism.

Sub-bottom profiles collected from the outer harbor exhibited very good signal penetration ranging from 10 to 45 feet below the sediment surface. Signal returns from the area between the breakwaters in the vicinity of lines 145+00 to 135+00 displayed a well-defined infill pattern overlying a strong reflector corresponding to bedrock. At several locations this reflector was observed to rise above a depth of -42 feet MLLW. The apparent depth to bedrock throughout the remainder of the entrance channel was below the proposed dredge elevation.

3.4 Video Survey

Examination of ROV footage collected during the August 2017 survey confirmed the interpretation of May 2017 side scan sonar data and provided additional information on unclassified targets of interest in the vicinity of the proposed project. A summary of video survey targets and descriptions is presented in Table 2.

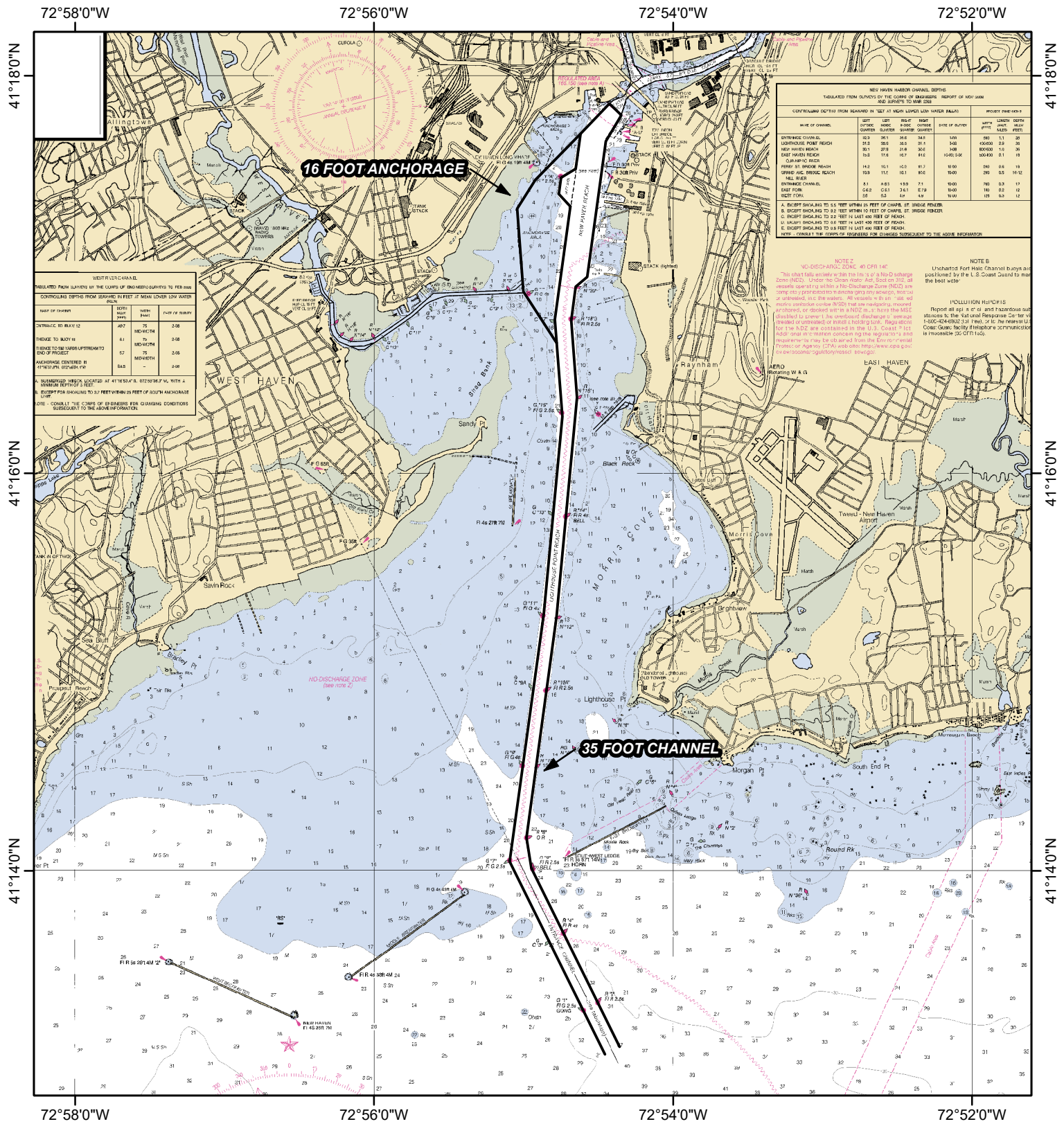
The primary features of interest documented during this survey were the two targets classified as possible wreckage during interpretation of the side scan sonar data. The first of these, NHH0176, was identified as a large and irregularly shaped metallic object with

heavy marine growth. The target was partially buried in the sediment and had no distinguishing markings. Due to limited visibility it was not possible to obtain a wide angle view of the entire target but close up video footage documented a hollow structure with an elongated and rounded form. Video footage suggests the presence of rolled metal edges but the amount of marine growth present makes this observation uncertain. Based on the information available, a classification of ‘debris – possible wreckage’ was assigned to the target.

The second target, NHH0019, was determined to be an elongated *Crepidula* sp. reef with a linear furrow running along the edge furthest from the channel. The shell area created a high intensity return in the side scan sonar imagery followed by a data gap in the area corresponding to the narrow depression. During side scan sonar processing this was incorrectly interpreted as a linear structure that was proud of the seafloor creating an acoustic shadow. Based on the video survey footage the classification for this target was changed to ‘isolated sediment feature – shell reef’.

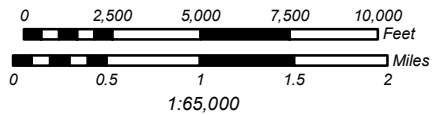
TABLE 2: VIDEO SURVEY TARGET SUMMARY

Target ID	Classification	Description
NHH0019	Shell Reef	Linear furrow with shell and gravel substrate on west side of channel.
NHH0153	Pipeline	Open end of exposed corrugated steel/ concrete pipeline extending west of channel. Associated debris in vicinity.
NHH0176	Debris - Possible Shipwreck	Large, irregularly shaped metallic object with heavy marine growth. Partially buried in sediment. Likely wreckage or debris. No identifying markings.
NHH0178	Fishing Gear	String of derelict fishing gear. Line and wire mesh lobster traps covered in heavy marine growth.
NHH0203	Shell Reef	Large shell and gravel reef adjacent to eastern edge of channel.
NHH0205	Disturbed Sediment	Disturbed sediment at base of existing channel slope. Partially buried macroalgae at depth suggests material slumping.
NHH0215	Coarse Substrate	Cluster of five targets on side scan mosaic in channel with high backscatter. Corresponding to isolated areas of shell and clumps of macroalgae.
NHH0217	Debris - Cable	Section of discarded cable adjacent to terminal facility on eastern shore.
NHH0221	Debris - Unidentified	Unidentifiable target with heavy marine growth in existing anchorage area. Partially buried with attached line. Ribbing or multiple lines running along the length of target.
NHH0228	Debris - Unidentified	Unidentifiable string of targets on side scan mosaic. No target found with ROV. High turbidity and location in harbor suggests reworking of sediment.
NHH0242	Debris - Piling	Fallen timber piling in vicinity of pier along eastern side of channel.



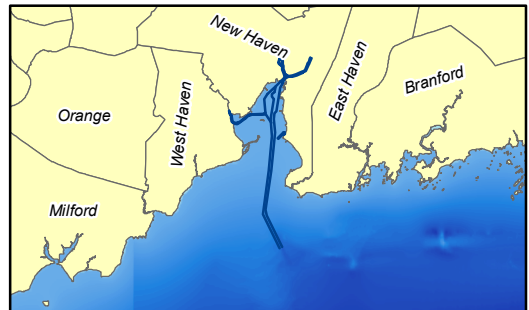
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New England District

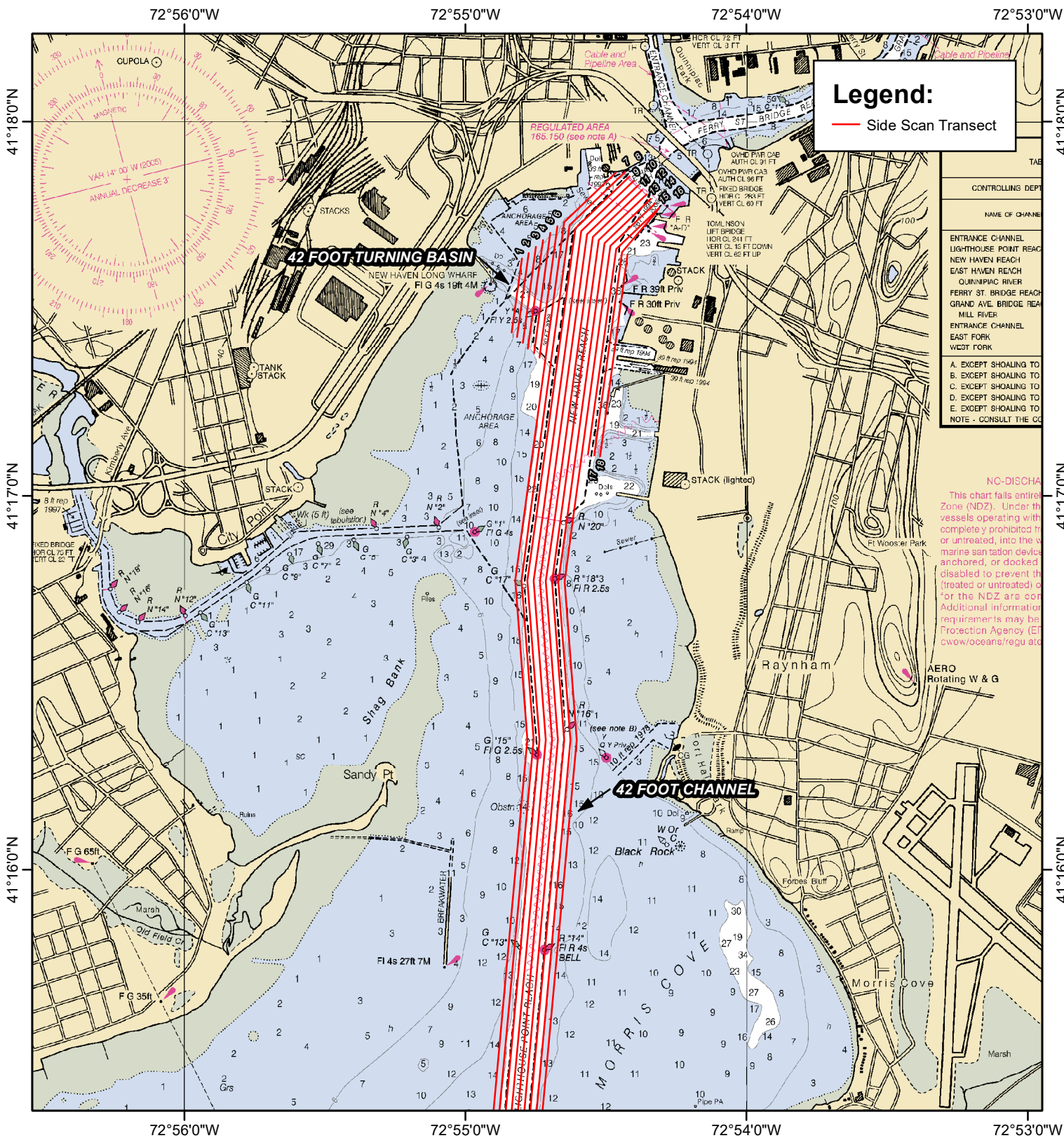
FIGURE 1:
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Legend:

— Side Scan Transect

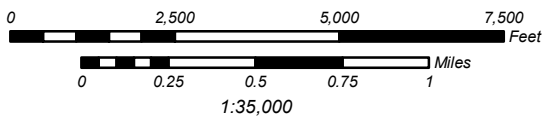
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	NEW HAVEN REACH
	EAST HAVEN REACH
	QUINNIPIAC RIVER
	FERRY ST. BRIDGE REACH
	GRAND AVE. BRIDGE REACH
	MILL RIVER
	ENTRANCE CHANNEL
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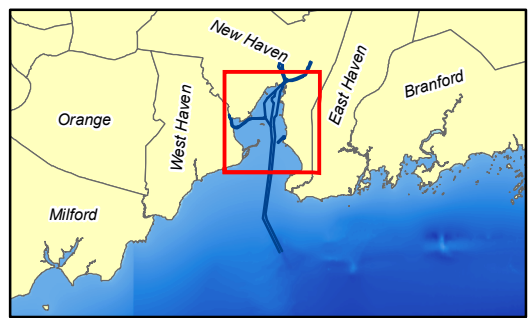


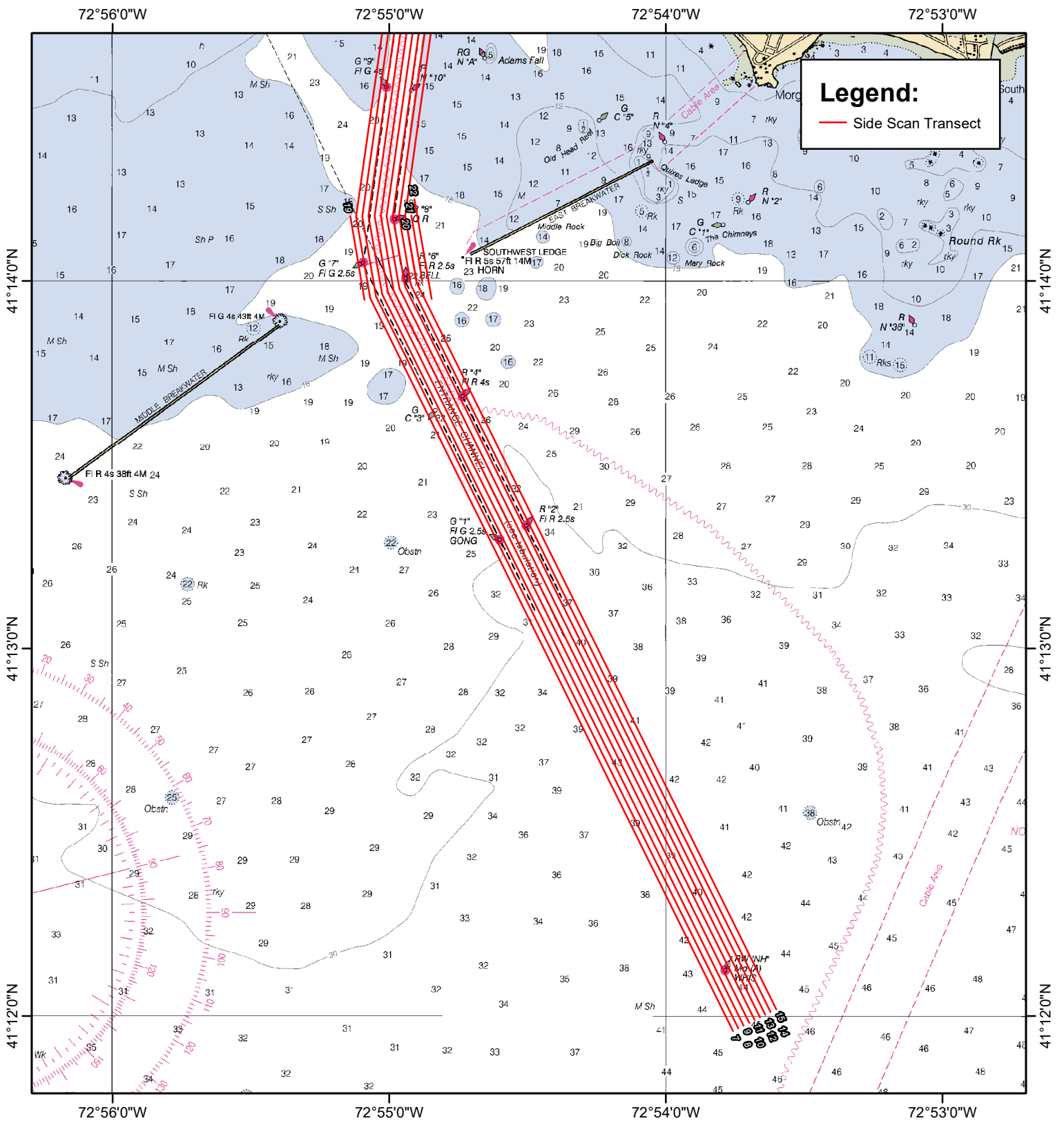
FIGURE 2:
NEW HAVEN HARBOR, NEW HAVEN, CT
INNER HARBOR SIDE SCAN SURVEY



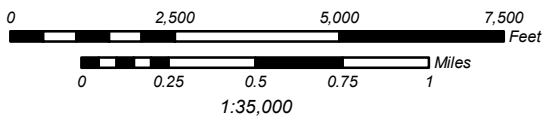
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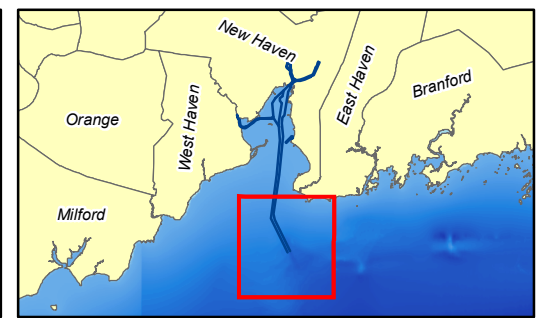


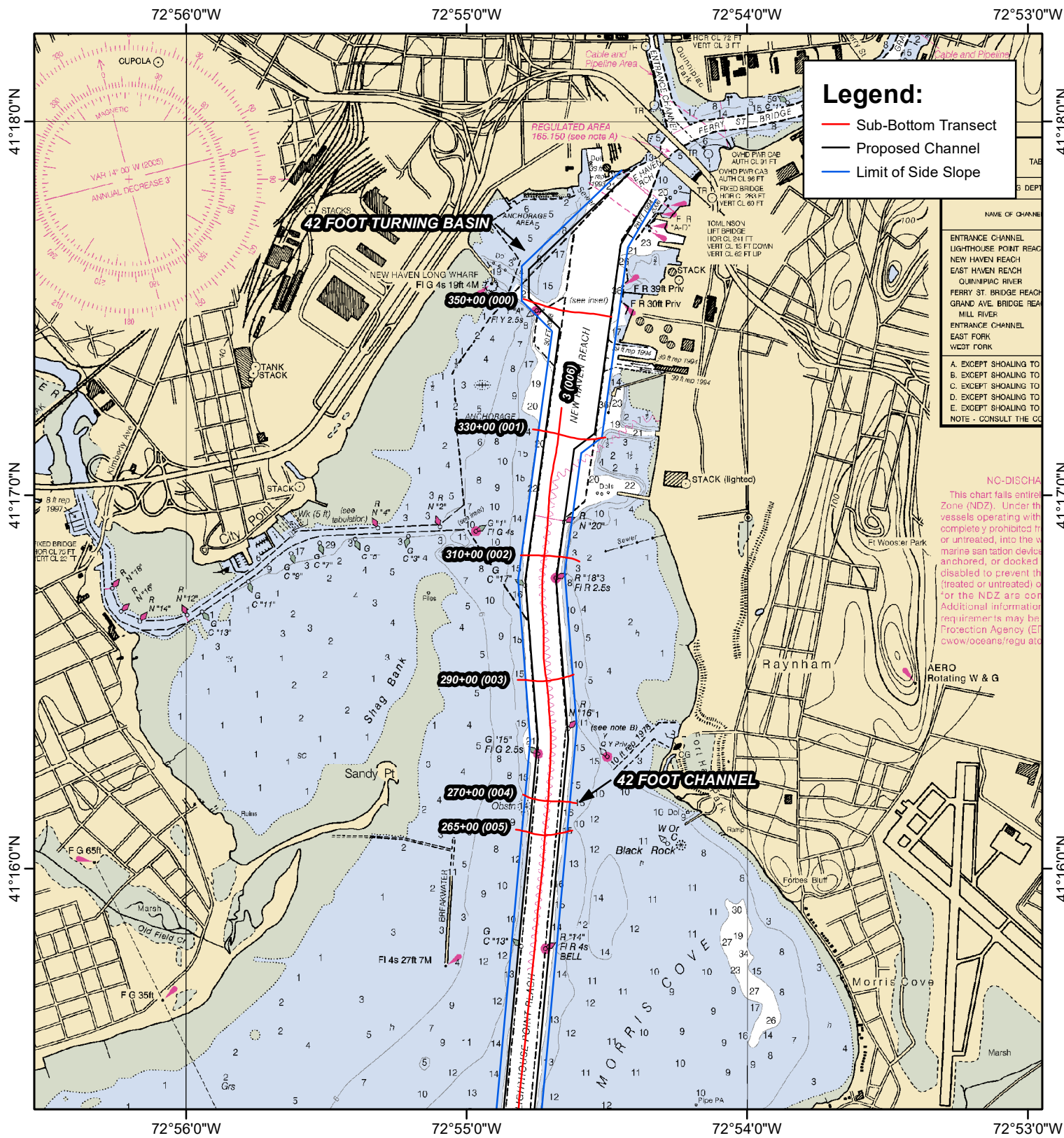
**FIGURE 3:
NEW HAVEN HARBOR, NEW HAVEN, CT
OUTER HARBOR SIDE SCAN SURVEY**



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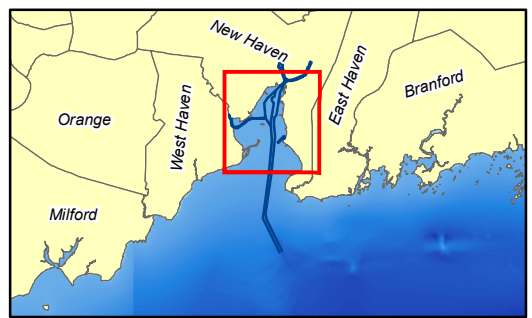
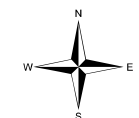
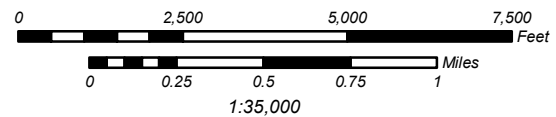
NAME OF CHANNEL	REMARKS
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LIGHTHOUSE POINT REACH	
NEW HAVEN REACH	
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FERRY ST. BRIDGE REACH	
GRAND AVE. BRIDGE REACH	
MILL RIVER	
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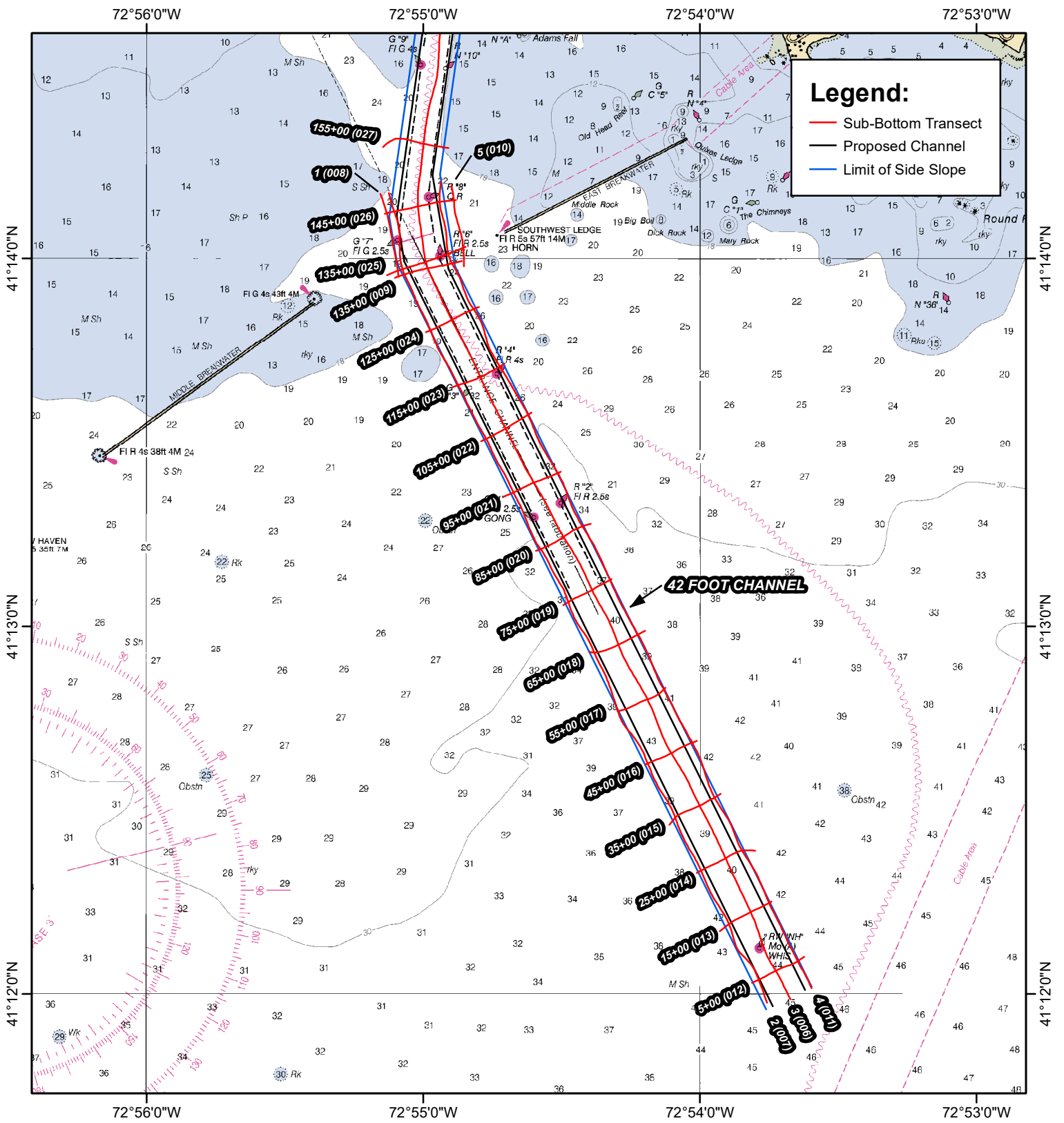
US Army Corps of Engineers
New England District

FIGURE 4:
NEW HAVEN HARBOR, NEW HAVEN, CT
INNER HARBOR SUB-BOTTOM SURVEY



NOAA CHART 12371

GCS NAD1983

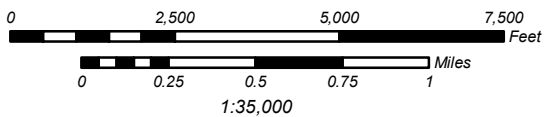


Legend:

- Sub-Bottom Transect
- Proposed Channel
- Limit of Side Slope

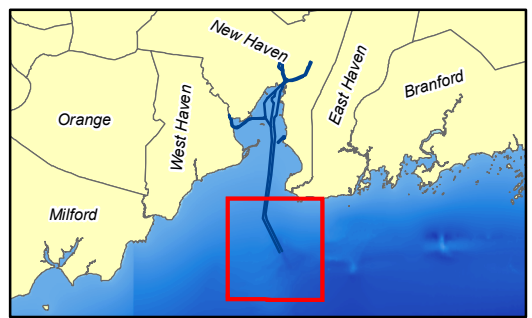


FIGURE 5:
NEW HAVEN HARBOR, NEW HAVEN, CT
OUTER HARBOR SUB-BOTTOM SURVEY



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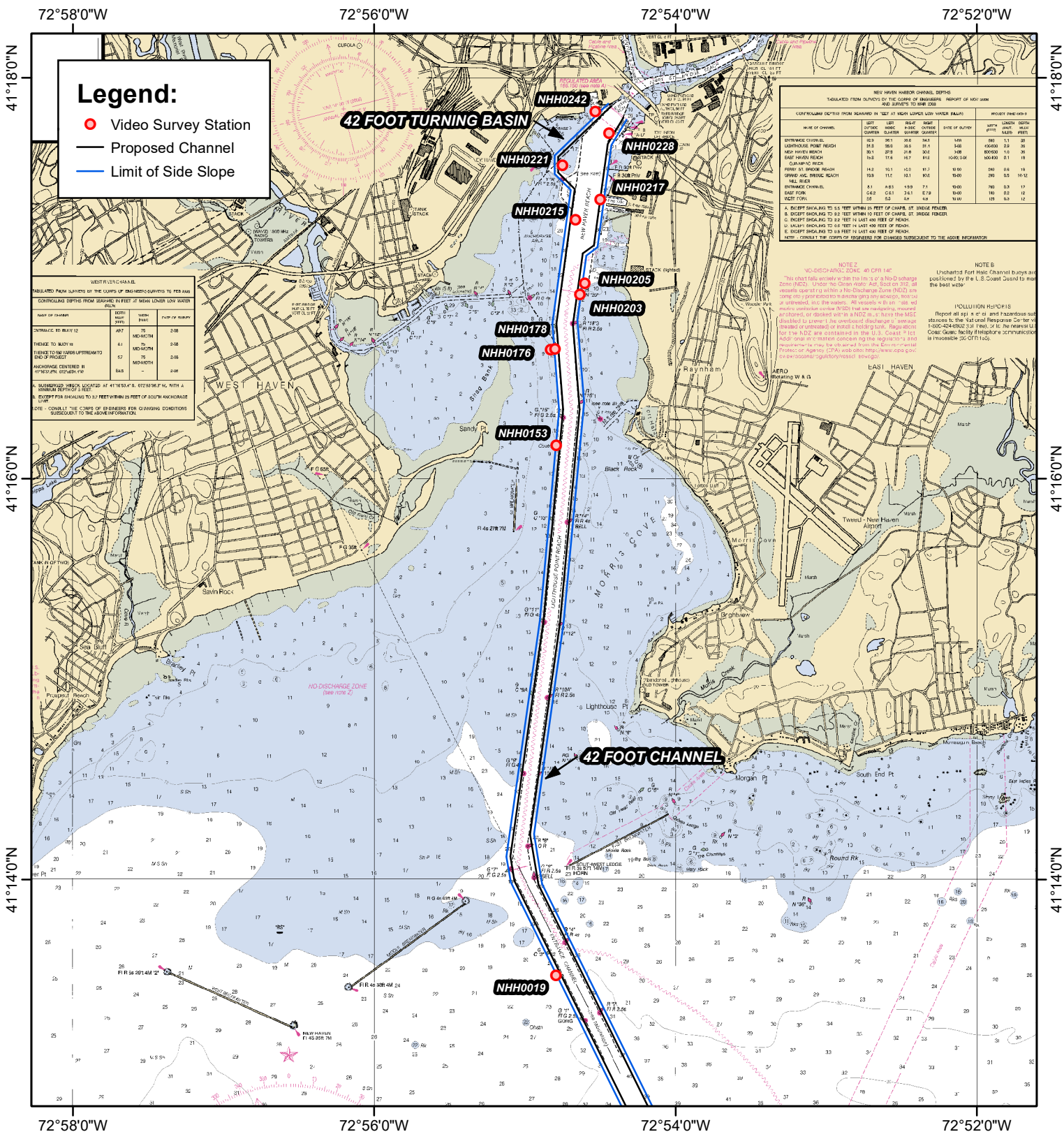
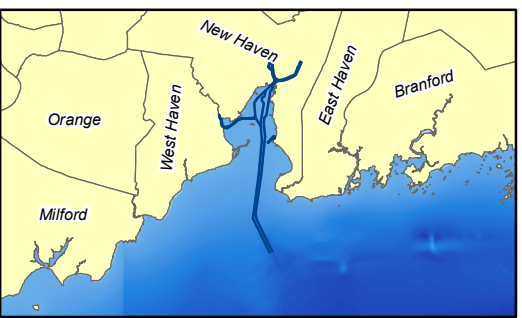
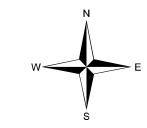
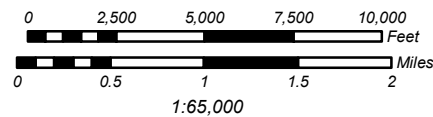
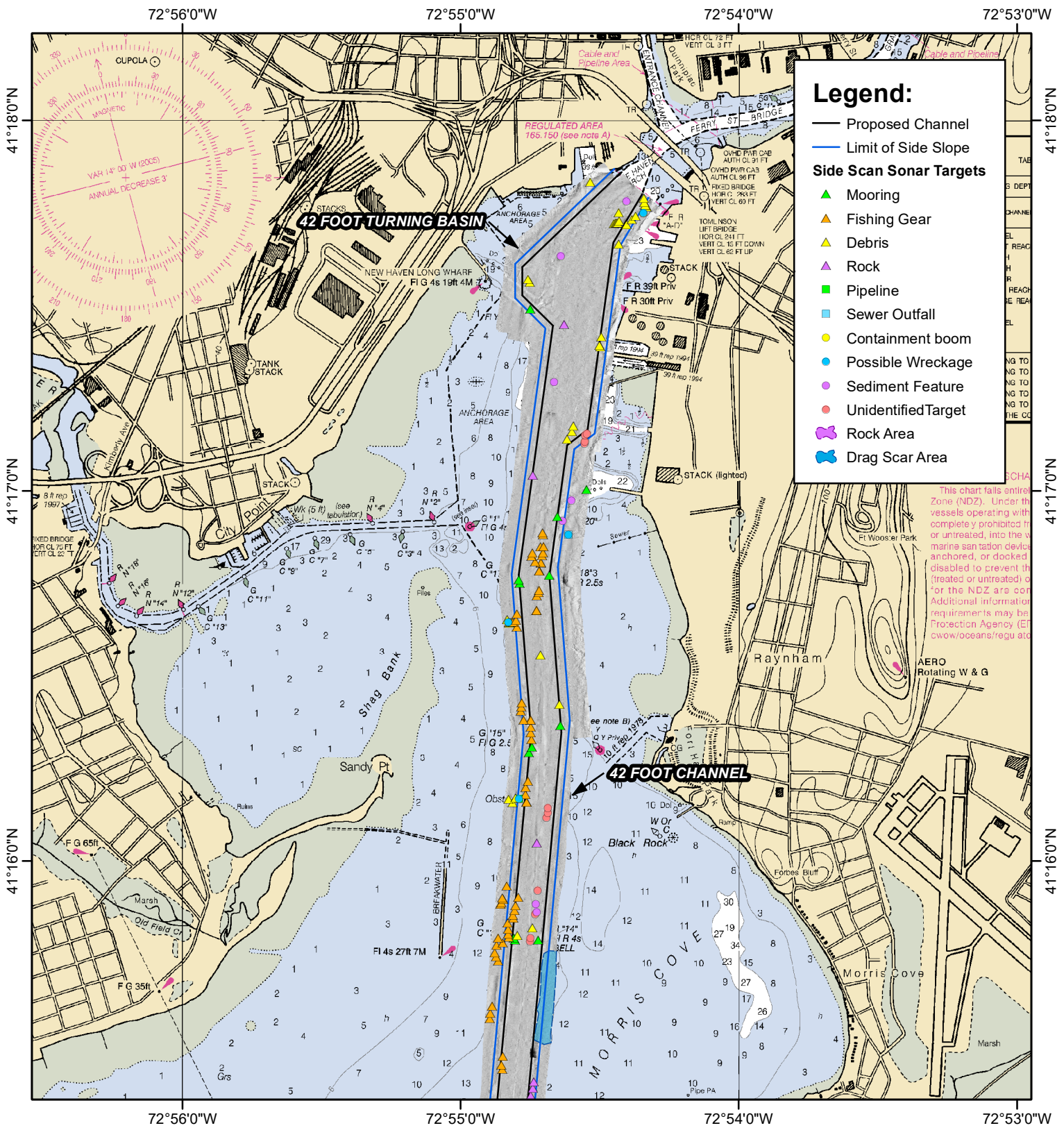


FIGURE 6:
NEW HAVEN HARBOR, NEW HAVEN, CT
VIDEO SURVEY STATIONS



NOAA CHART 12371

GCS NAD1983

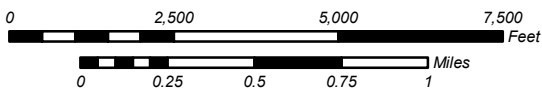


This chart falls entirely within the National Defense Zone (NDZ). Under the NDZ, vessels operating with complete or prohibited or untreated, into the water, marina sanitation devices anchored, or docked disabled to prevent the (treated or untreated) or for the NDZ are con Additional information requirements may be from the Protection Agency (EPA) www.oceans/regu



US Army Corps of Engineers
New England District

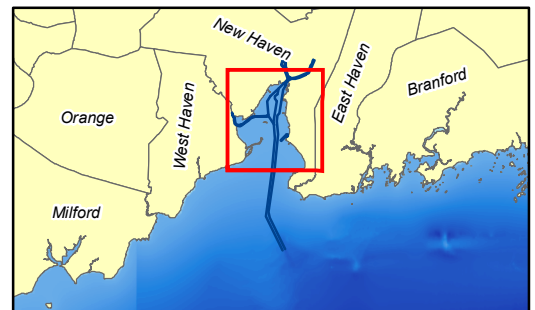
FIGURE 7:
NEW HAVEN HARBOR, NEW HAVEN, CT
INNER HARBOR SIDE SCAN MOSAIC

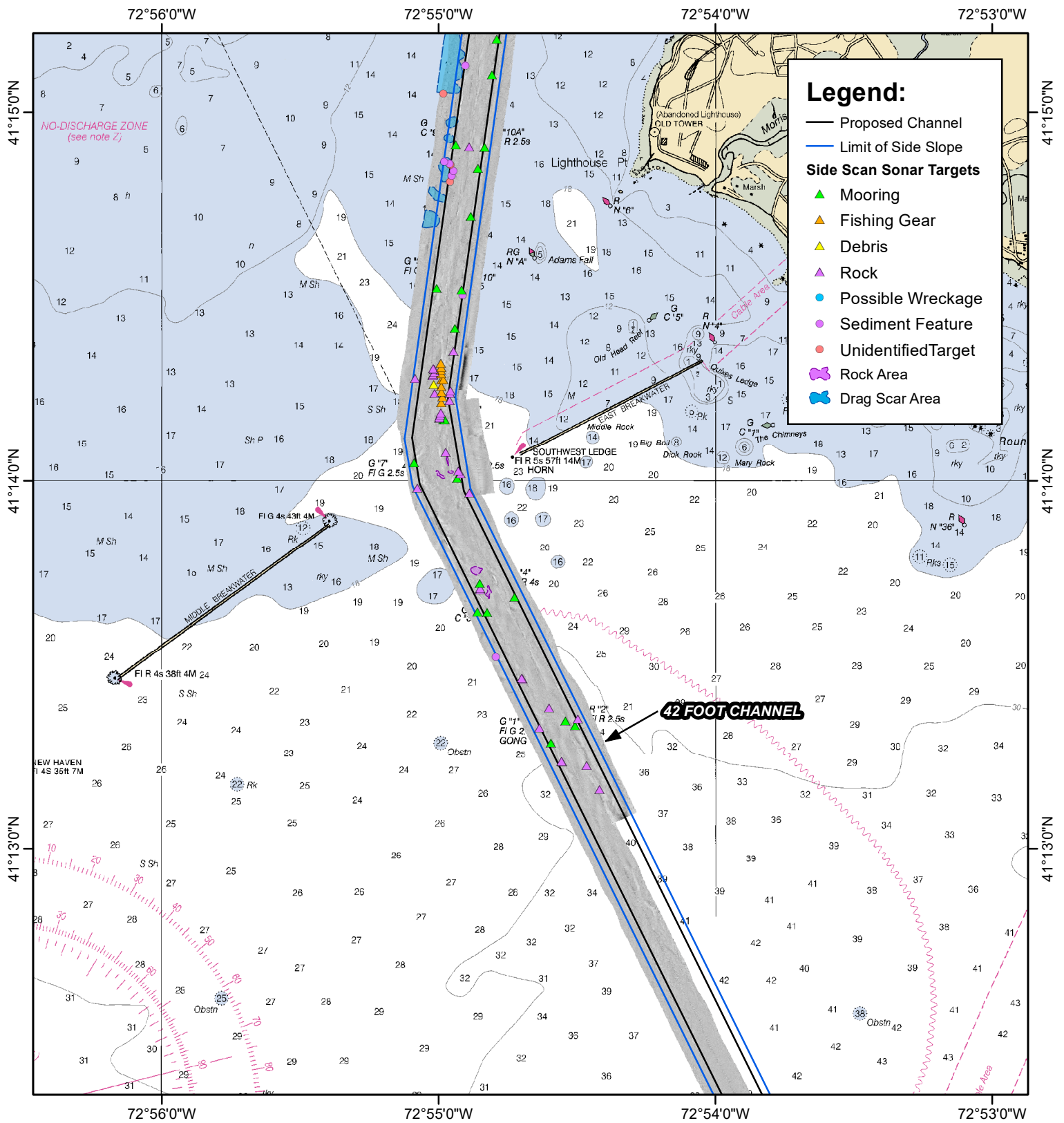


NOAA CHART 12371

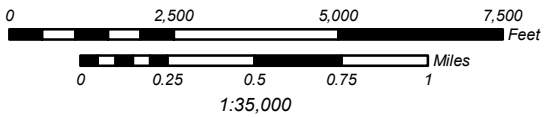


GCS NAD1983



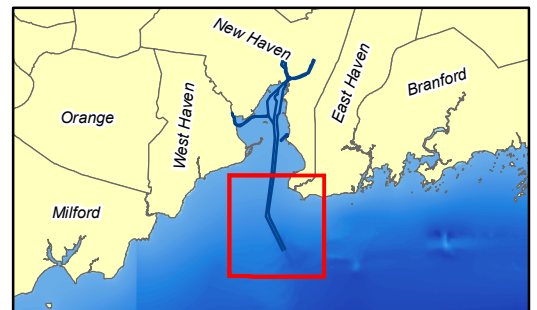


**FIGURE 8:
NEW HAVEN HARBOR, NEW HAVEN, CT
OUTER HARBOR SIDE SCAN MOSAIC**



NOAA CHART 12371

GCS NAD1983



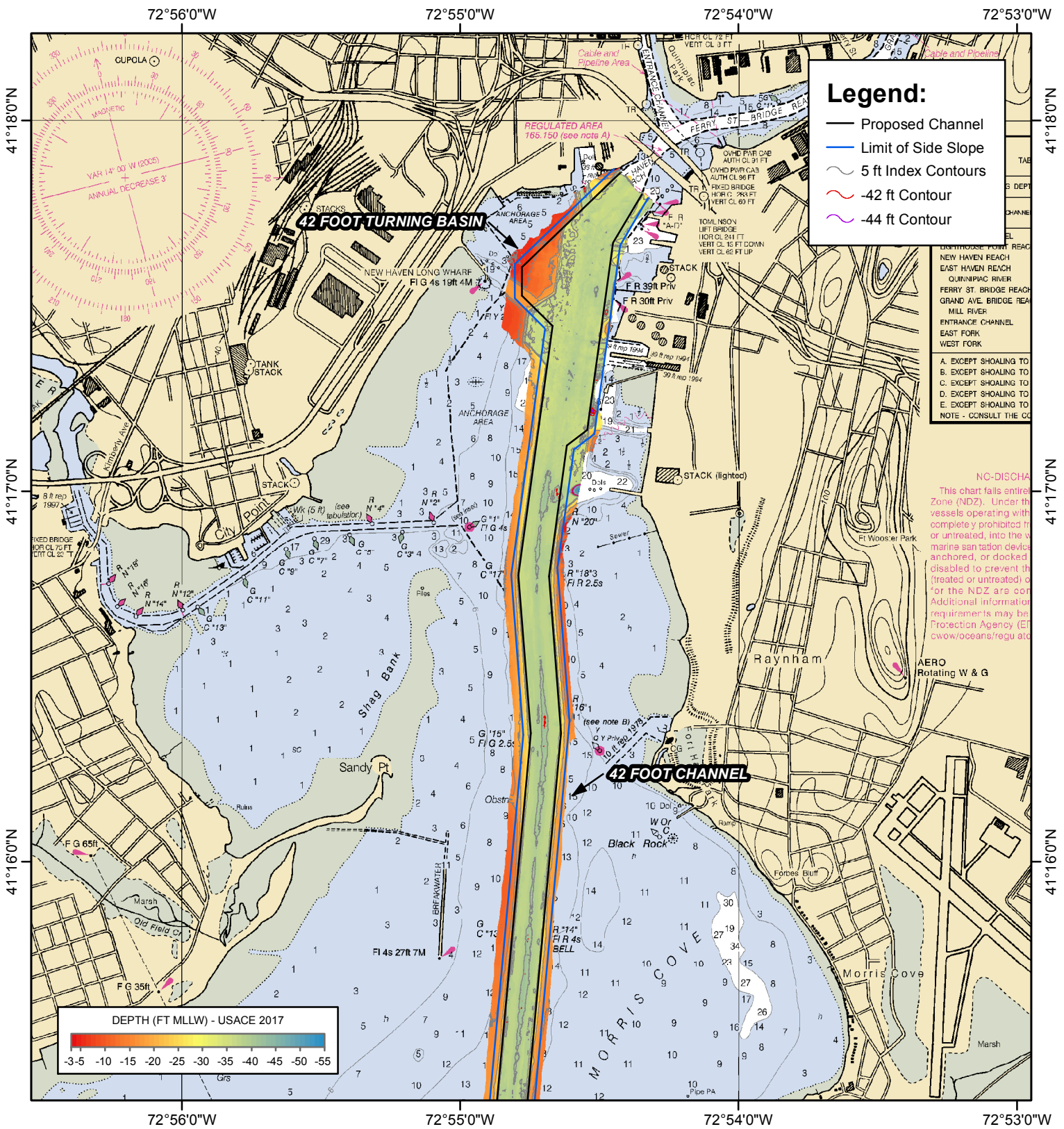
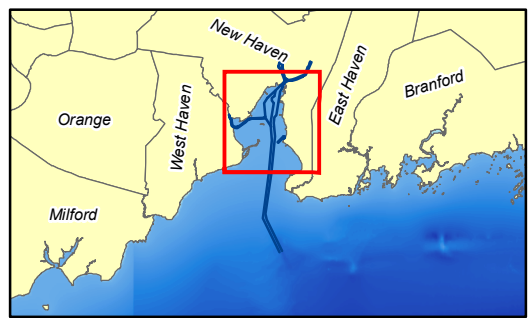
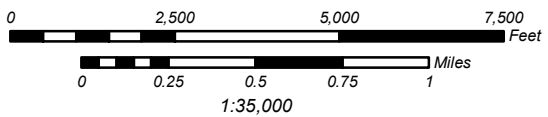
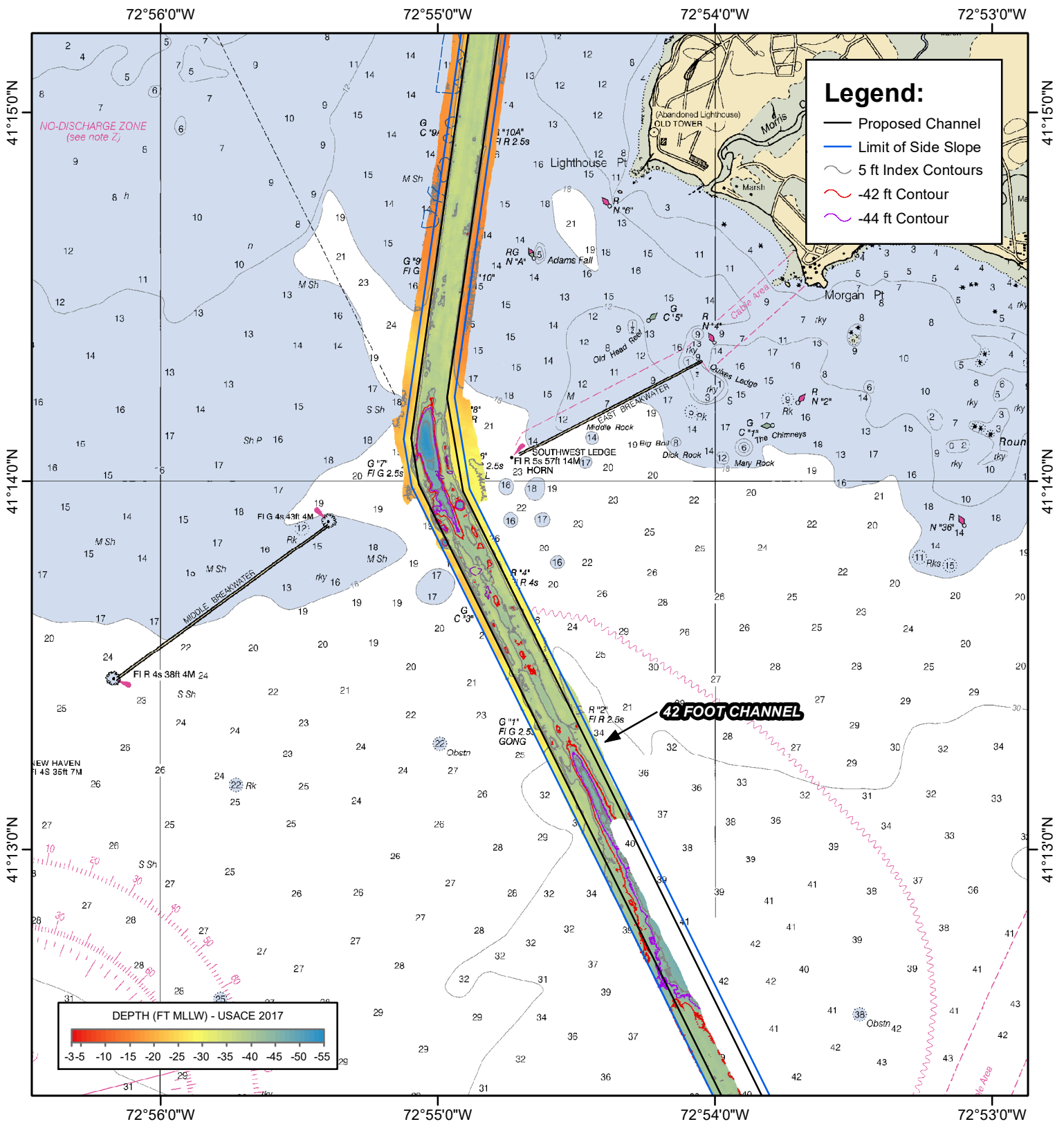


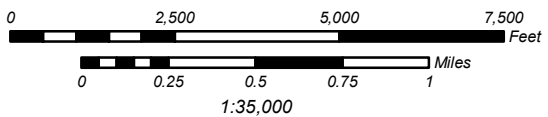
FIGURE 7:
NEW HAVEN HARBOR FNP, NEW HAVEN, CT
INNER HARBOR BATHYMETRY





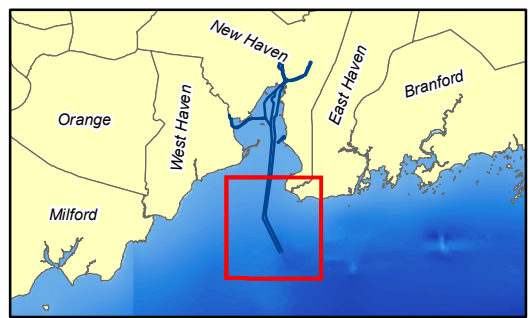

 US Army Corps
 of Engineers
 New England District

FIGURE 10:
NEW HAVEN HARBOR, NEW HAVEN, CT
OUTER HARBOR BATHYMETRY



NOAA CHART 12371

GCS NAD1983

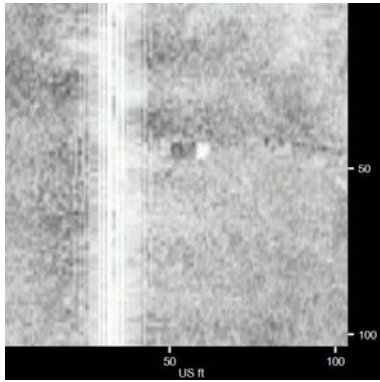
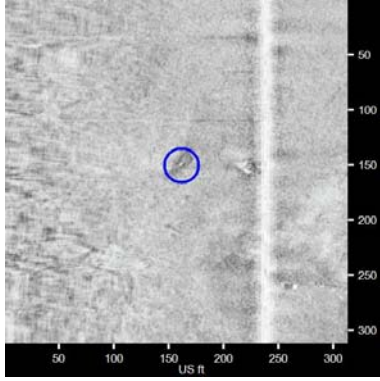
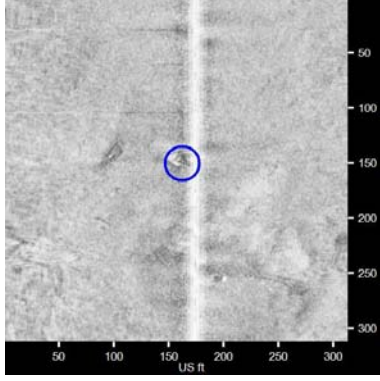


APPENDIX A

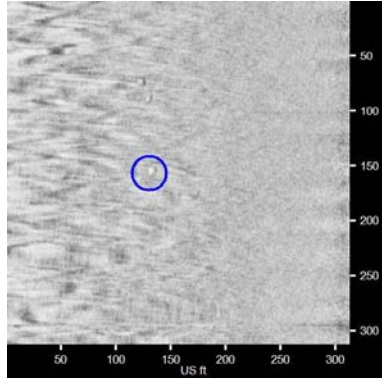
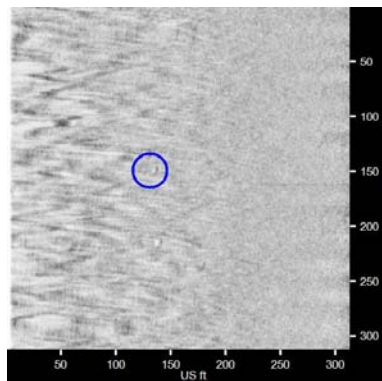
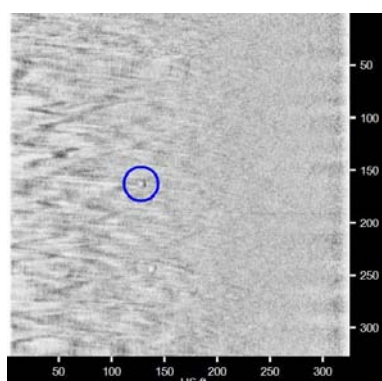
SIDE SCAN SONAR CONTACT REPORT

Sonar Contact Report

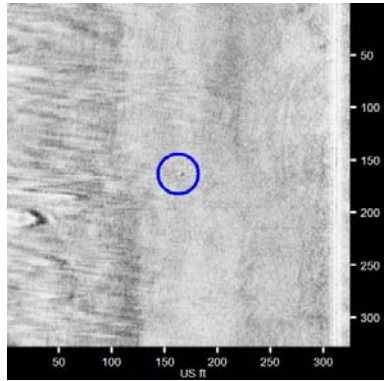
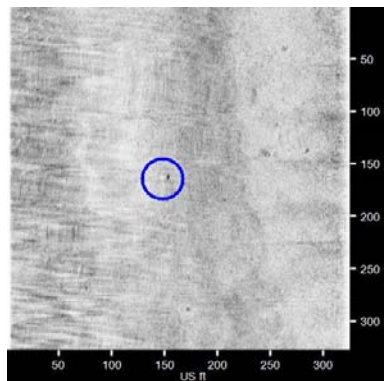
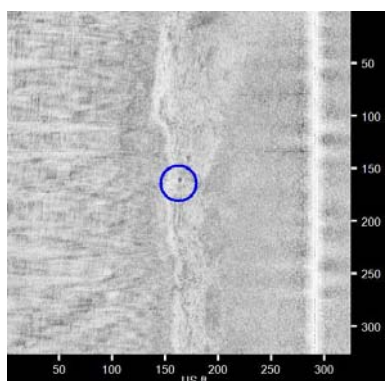
Generated on 9/7/2017 9:52:24 AM

Target Image	Target Info	User Entered Info
	<p>NHH0000</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:56:32 PM • Click Position 41.2020785361 -72.8964777880 (WGS84) (X) 959690.99 (Y) 634390.03 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 20319 • Range to target: 26.71 US ft • Fish Height: 48.94 US ft • Heading: 336.070 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 149.93 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.21 US ft • Target Height: 3.68 US ft • Target Length: 5.17 US ft • Target Shadow: 4.53 US ft • Classification1: Mooring • Classification2: • Description: Mooring for RW NH. Line visible.
	<p>NHH0001</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:56:44 PM • Click Position 41.2022270940 -72.8969900307 (WGS84) (X) 959550.12 (Y) 634444.40 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 20405 • Range to target: 75.62 US ft • Fish Height: 48.30 US ft • Heading: 337.920 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 146.65 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Unknown target near mooring for RW NH
	<p>NHH0002</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:56:43 PM • Click Position 41.2022935471 -72.8967711137 (WGS84) (X) 959610.40 (Y) 634468.51 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 20401 • Range to target: 10.89 US ft • Fish Height: 48.62 US ft • Heading: 337.820 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 147.97 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 8.21 US ft • Target Height: 5.61 US ft • Target Length: 8.42 US ft • Target Shadow: 6.49 US ft • Classification1: Mooring • Classification2: • Description: Possible derelict mooring for RW NH. No line visible.

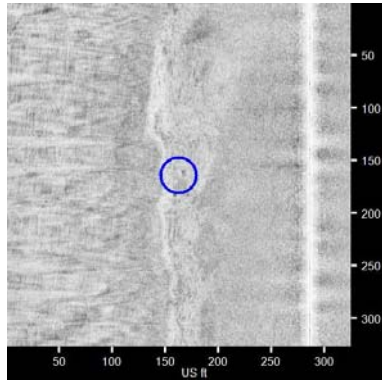
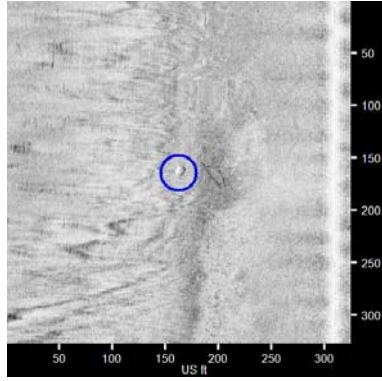
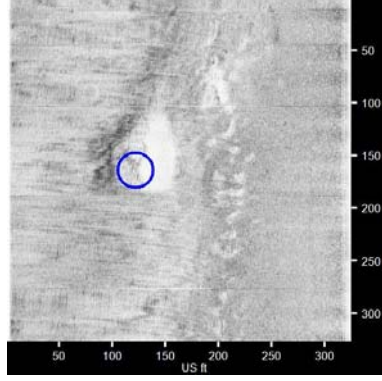
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0003</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:57:11 PM • Click Position 41.2027074079 -72.8977739592 (WGS84) (X) 959334.69 (Y) 634619.78 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 20601 • Range to target: 189.04 US ft • Fish Height: 47.03 US ft • Heading: 336.230 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 141.40 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.31 US ft • Target Height: 0.92 US ft • Target Length: 4.54 US ft • Target Shadow: 3.90 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
	<p>NHH0004</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:57:19 PM • Click Position 41.2028703964 -72.8979005801 (WGS84) (X) 959299.95 (Y) 634679.22 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 20653 • Range to target: 193.52 US ft • Fish Height: 46.39 US ft • Heading: 337.760 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 140.42 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock
	<p>NHH0006</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:57:20 PM • Click Position 41.2029016688 -72.8979367329 (WGS84) (X) 959290.02 (Y) 634690.64 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 20664 • Range to target: 197.37 US ft • Fish Height: 46.07 US ft • Heading: 337.290 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 141.08 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.25 US ft • Target Height: 1.29 US ft • Target Length: 4.58 US ft • Target Shadow: 5.84 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.

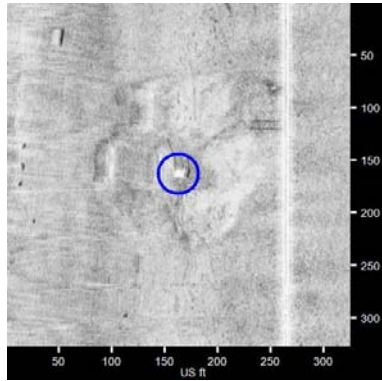
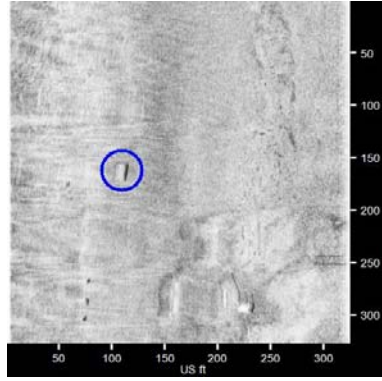
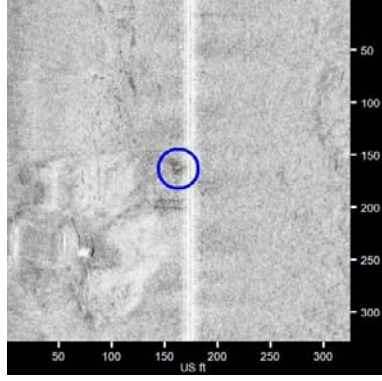
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0007</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:01:17 PM • Click Position 41.2193617831 -72.9069686845 (WGS84) (X) 956815.46 (Y) 640692.46 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 48018 • Range to target: 149.31 US ft • Fish Height: 45.82 US ft • Heading: 343.540 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 127.30 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.82 US ft • Target Height: 0.88 US ft • Target Length: 2.42 US ft • Target Shadow: 3.06 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
	<p>NHH0008</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:01:56 PM • Click Position 41.2204387364 -72.9077461311 (WGS84) (X) 956602.29 (Y) 641085.25 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 48298 • Range to target: 176.86 US ft • Fish Height: 44.55 US ft • Heading: 350.740 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 123.03 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.54 US ft • Target Height: 1.10 US ft • Target Length: 4.60 US ft • Target Shadow: 4.61 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
	<p>NHH0009</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:10:03 PM • Click Position 41.2205909209 -72.9092472369 (WGS84) (X) 956189.42 (Y) 641141.46 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 26100 • Range to target: 127.99 US ft • Fish Height: 41.58 US ft • Heading: 346.930 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 126.97 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.69 US ft • Target Height: 0.00 US ft • Target Length: 2.77 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Square target on edge of channel. Likely rock.

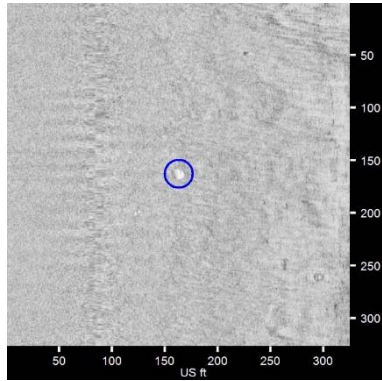
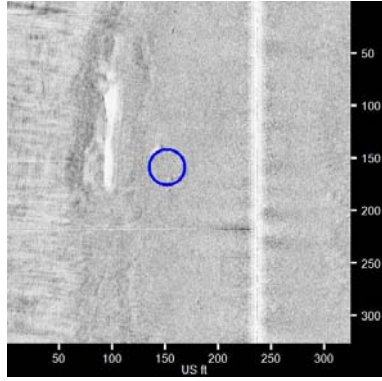
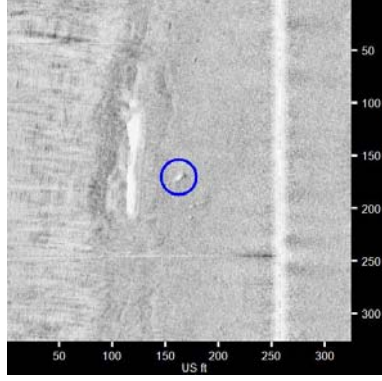
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0010</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:10:05 PM • Click Position 41.2206472258 -72.9092610645 (WGS84) (X) 956185.65 (Y) 641161.98 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 26116 • Range to target: 123.37 US ft • Fish Height: 41.26 US ft • Heading: 344.420 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 125.66 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.77 US ft • Target Height: 1.44 US ft • Target Length: 1.50 US ft • Target Shadow: 4.71 US ft • Classification1: Rock • Classification2: • Description: Small target on edge of channel. Likely rock.
	<p>NHH0011</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:10:42 PM • Click Position 41.2214513322 -72.9099144296 (WGS84) (X) 956006.45 (Y) 641455.30 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 26380 • Range to target: 146.75 US ft • Fish Height: 41.25 US ft • Heading: 347.730 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 124.02 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.51 US ft • Target Height: 0.89 US ft • Target Length: 9.33 US ft • Target Shadow: 3.36 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G1
	<p>NHH0012</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:11:13 PM • Click Position 41.2221384992 -72.9105962612 (WGS84) (X) 955819.34 (Y) 641706.02 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 26601 • Range to target: 203.14 US ft • Fish Height: 39.99 US ft • Heading: 343.760 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 121.06 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 20.18 US ft • Target Height: 0.00 US ft • Target Length: 19.99 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Rock • Description: 20x20 target above channel with significant scour. Possible rock outcrop. Numerous small targets at base of channel slope.

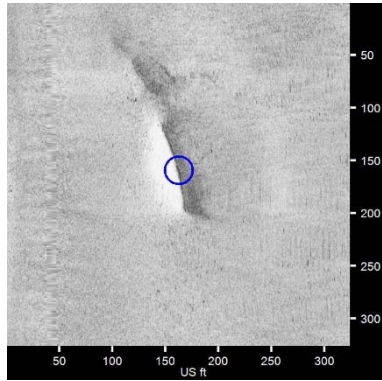
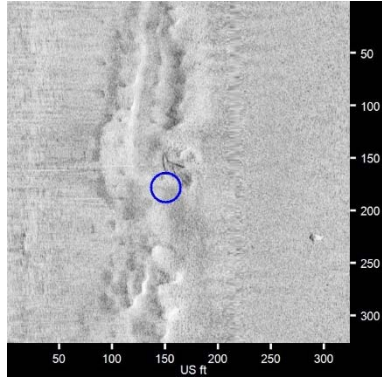
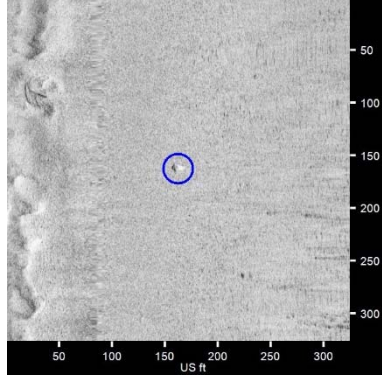
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0013</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:03:00 PM • Click Position 41.2222420868 -72.9084532102 (WGS84) (X) 956408.97 (Y) 641742.68 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 48751 • Range to target: 101.25 US ft • Fish Height: 43.92 US ft • Heading: 343.830 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 123.36 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.79 US ft • Target Height: 3.60 US ft • Target Length: 6.45 US ft • Target Shadow: 9.85 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R2. Line visible.
	<p>NHH0014</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:03:12 PM • Click Position 41.2224595876 -72.9090311441 (WGS84) (X) 956250.12 (Y) 641822.22 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 48838 • Range to target: 215.68 US ft • Fish Height: 42.33 US ft • Heading: 333.430 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 118.44 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 6.13 US ft • Target Height: 0.44 US ft • Target Length: 12.15 US ft • Target Shadow: 2.28 US ft • Classification1: Mooring • Classification2: • Description: Rectangular target in vicinity of R2. Possible derelict mooring. No line.
	<p>NHH0015</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:03:07 PM • Click Position 41.2225450135 -72.9082708394 (WGS84) (X) 956459.34 (Y) 641852.96 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 48804 • Range to target: 10.89 US ft • Fish Height: 43.29 US ft • Heading: 328.850 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 119.42 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Irregular target at nadir. Likely rock or derelict mooring.

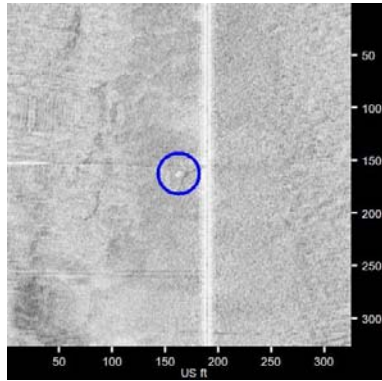
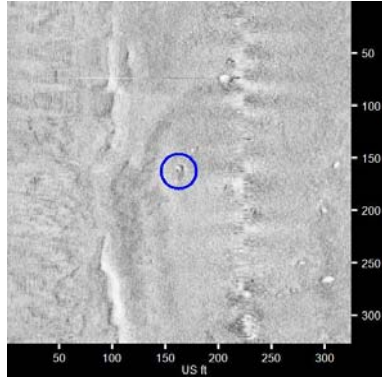
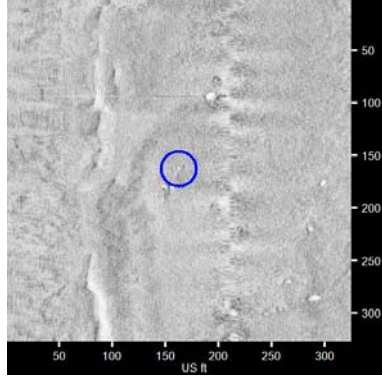
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0016</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:46:10 PM • Click Position 41.2230395763 -72.9100126321 (WGS84) (X) 955980.50 (Y) 642034.04 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1531.HSX • Ping Number: 41549 • Range to target: 78.82 US ft • Fish Height: 46.79 US ft • Heading: 146.250 Degrees • Event Number: 73 • Line Name: 012_1531 • Water Depth: 132.87 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.70 US ft • Target Height: 3.50 US ft • Target Length: 4.73 US ft • Target Shadow: 7.42 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
	<p>NHH0017</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:12:40 PM • Click Position 41.2243383973 -72.9115989108 (WGS84) (X) 955545.00 (Y) 642508.09 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 27222 • Range to target: 85.13 US ft • Fish Height: 40.30 US ft • Heading: 350.260 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 123.03 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock
	<p>NHH0018</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:12:43 PM • Click Position 41.2243960985 -72.9116721274 (WGS84) (X) 955524.90 (Y) 642529.16 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1454.HSX • Ping Number: 27243 • Range to target: 94.84 US ft • Fish Height: 40.62 US ft • Heading: 342.450 Degrees • Event Number: 67 • Line Name: 010_1454 • Water Depth: 122.05 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.10 US ft • Target Height: 1.99 US ft • Target Length: 4.69 US ft • Target Shadow: 5.31 US ft • Classification1: Rock • Classification2: • Description: Irregular target on edge of channel. Likely rock.

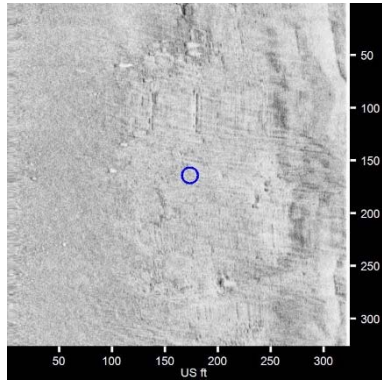
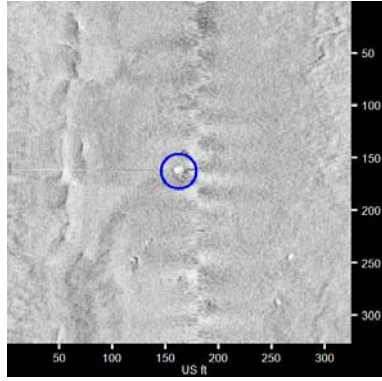
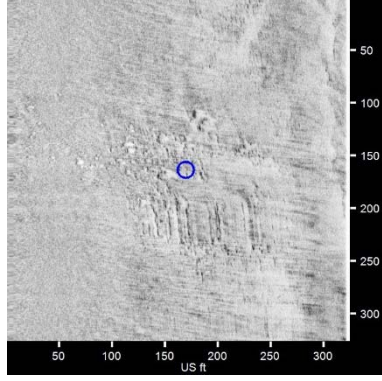
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0019</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:30:46 PM • Click Position 41.2253661478 -72.9132188301 (WGS84) (X) 955100.08 (Y) 642883.41 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1415.HSX • Ping Number: 9298 • Range to target: 119.92 US ft • Fish Height: 30.26 US ft • Heading: 151.460 Degrees • Event Number: 65 • Line Name: 008_1415 • Water Depth: 76.77 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 12.13 US ft • Target Height: 0.00 US ft • Target Length: 84.83 US ft • Target Shadow: 0.00 US ft • Classification1: Linear furrow with gravel and shell on channel side • Classification2: • Description: Linear furrow with gravel and shell on channel side. Investigated with ROV.
	<p>NHH0020</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:29:09 PM • Click Position 41.2273714519 -72.9137371155 (WGS84) (X) 954958.89 (Y) 643614.33 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1415.HSX • Ping Number: 8617 • Range to target: 65.14 US ft • Fish Height: 30.90 US ft • Heading: 145.790 Degrees • Event Number: 65 • Line Name: 008_1415 • Water Depth: 79.72 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 10.03 US ft • Target Height: 0.00 US ft • Target Length: 10.92 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G3. Line Visible.
	<p>NHH0021</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:29:01 PM • Click Position 41.2273777163 -72.9143250631 (WGS84) (X) 954797.16 (Y) 643616.92 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1415.HSX • Ping Number: 8548 • Range to target: 76.90 US ft • Fish Height: 29.98 US ft • Heading: 147.230 Degrees • Event Number: 65 • Line Name: 008_1415 • Water Depth: 77.10 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.52 US ft • Target Height: 1.54 US ft • Target Length: 5.93 US ft • Target Shadow: 4.47 US ft • Classification1: Mooring • Classification2: • Description: Square target. Possible mooring for G3. Out of position, no line.

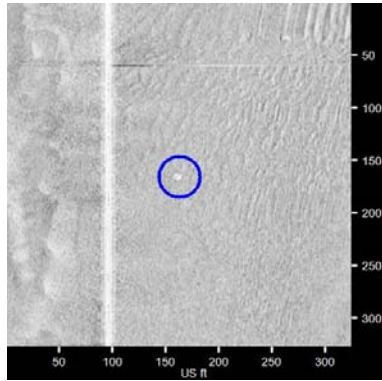
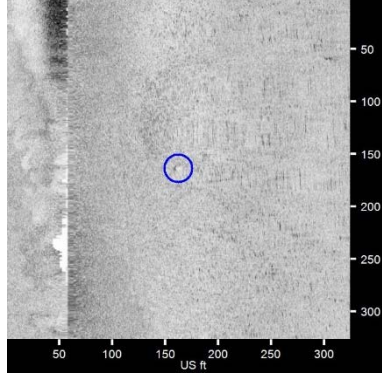
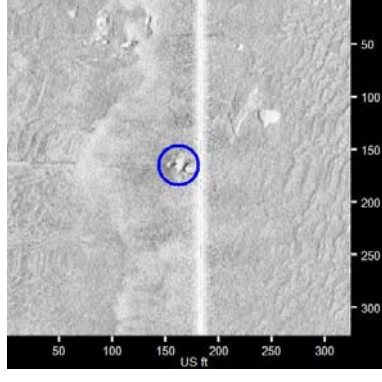
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0022</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:06:35 PM • Click Position 41.2280540486 -72.9121021161 (WGS84) (X) 955409.11 (Y) 643862.20 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 50283 • Range to target: 26.27 US ft • Fish Height: 37.25 US ft • Heading: 333.520 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 101.71 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.54 US ft • Target Height: 5.44 US ft • Target Length: 6.39 US ft • Target Shadow: 7.79 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R4. Line visible.
	<p>NHH0023</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:19:43 PM • Click Position 41.2284092261 -72.9141756178 (WGS84) (X) 954838.98 (Y) 643992.69 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1517.HSX • Ping Number: 30235 • Range to target: 60.88 US ft • Fish Height: 41.89 US ft • Heading: 338.870 Degrees • Event Number: 71 • Line Name: 010_1517 • Water Depth: 123.69 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
	<p>NHH0024</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:19:45 PM • Click Position 41.2284742107 -72.9141691572 (WGS84) (X) 954840.81 (Y) 644016.36 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1517.HSX • Ping Number: 30250 • Range to target: 48.06 US ft • Fish Height: 41.57 US ft • Heading: 342.420 Degrees • Event Number: 71 • Line Name: 010_1517 • Water Depth: 125.00 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.

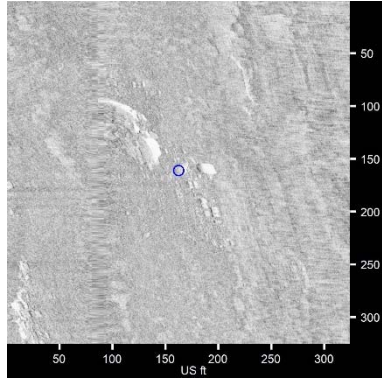
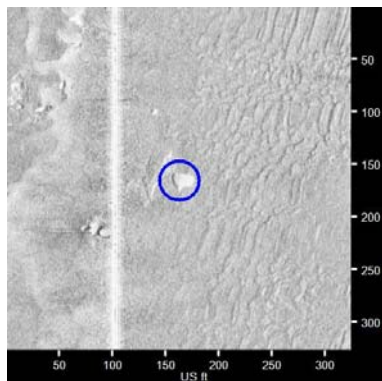
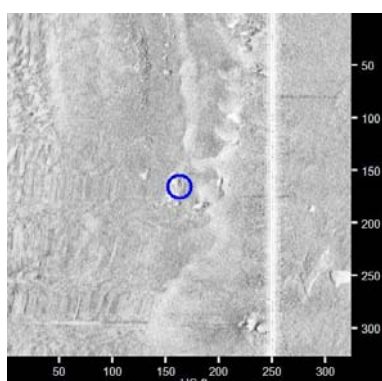
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0025</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:40:57 PM • Click Position 41.2284843169 -72.9139189971 (WGS84) (X) 954909.63 (Y) 644019.91 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1531.HSX • Ping Number: 39323 • Range to target: 173.05 US ft • Fish Height: 47.40 US ft • Heading: 145.240 Degrees • Event Number: 73 • Line Name: 012_1531 • Water Depth: 136.15 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 509.93 US ft • Target Shadow: 0.00 US ft • Classification1: Rock Area • Classification2: • Description: Numerous irregular targets along edge of channel corresponding to rock.
	<p>NHH0026</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:19:52 PM • Click Position 41.2286780349 -72.9141879448 (WGS84) (X) 954835.78 (Y) 644090.64 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1517.HSX • Ping Number: 30301 • Range to target: 17.77 US ft • Fish Height: 41.88 US ft • Heading: 341.980 Degrees • Event Number: 71 • Line Name: 010_1517 • Water Depth: 129.59 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.32 US ft • Target Height: 0.00 US ft • Target Length: 3.31 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Square target on edge of channel. Line visible. Likely derelict mooring.
	<p>NHH0027</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:40:15 PM • Click Position 41.2292511942 -72.9143647428 (WGS84) (X) 954787.54 (Y) 644299.57 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1531.HSX • Ping Number: 39024 • Range to target: 168.97 US ft • Fish Height: 47.72 US ft • Heading: 149.730 Degrees • Event Number: 73 • Line Name: 012_1531 • Water Depth: 129.92 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 513.28 US ft • Target Shadow: 0.00 US ft • Classification1: Rock Area • Classification2: • Description: Numerous irregular targets along edge of channel corresponding to rock.

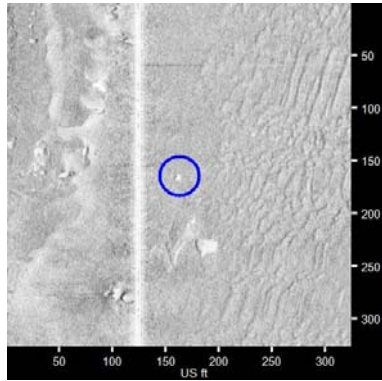
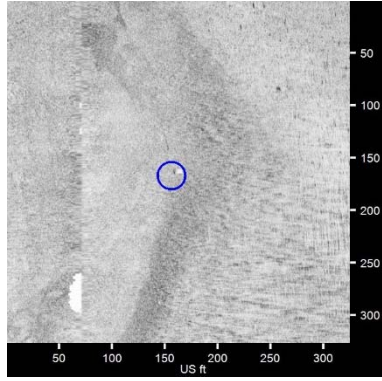
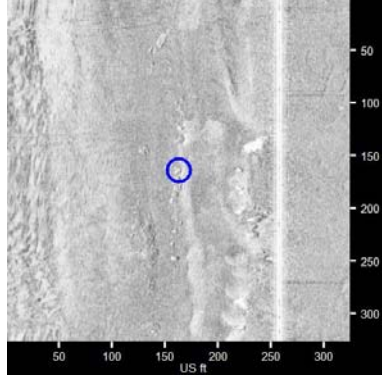
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	<p>NHH0028</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:09:27 PM • Click Position 41.2327708087 -72.9148081811 (WGS84) (X) 954668.01 (Y) 645582.21 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 51510 • Range to target: 66.64 US ft • Fish Height: 34.67 US ft • Heading: 341.800 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 93.18 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.73 US ft • Target Height: 0.00 US ft • Target Length: 3.28 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Irregular target outside channel. Likely rock.
	<p>NHH0029</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:24:07 PM • Click Position 41.2329816292 -72.9179515853 (WGS84) (X) 953803.54 (Y) 645660.69 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1415.HSX • Ping Number: 6450 • Range to target: 104.61 US ft • Fish Height: 40.41 US ft • Heading: 156.990 Degrees • Event Number: 65 • Line Name: 008_1415 • Water Depth: 119.09 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.22 US ft • Target Height: 0.92 US ft • Target Length: 1.48 US ft • Target Shadow: 2.62 US ft • Classification1: Rock • Classification2: • Description: Irregular small target outside channel. Likely rock.
	<p>NHH0030</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:09:55 PM • Click Position 41.2334377122 -72.9155567328 (WGS84) (X) 954462.58 (Y) 645825.60 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 51713 • Range to target: 20.51 US ft • Fish Height: 35.94 US ft • Heading: 357.230 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 96.46 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.45 US ft • Target Height: 2.98 US ft • Target Length: 5.44 US ft • Target Shadow: 3.74 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R6. Line visible

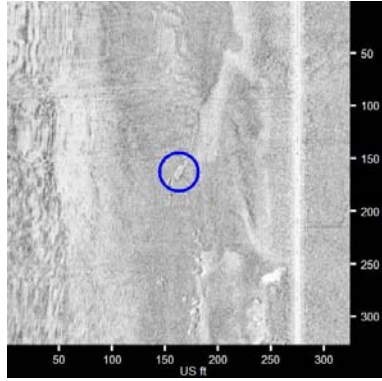
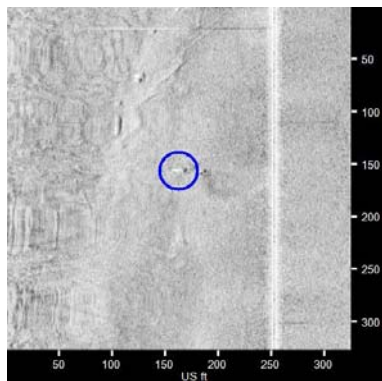
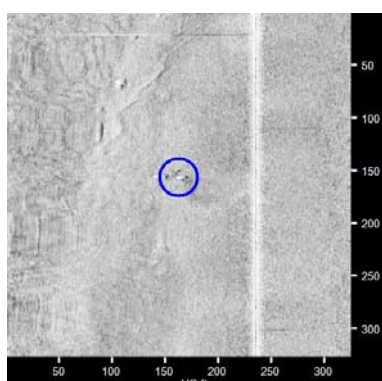
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0031</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 3:35:15 PM • Click Position 41.2336064030 -72.9166018128 (WGS84) (X) 954175.24 (Y) 645887.62 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1531.HSX • Ping Number: 36882 • Range to target: 76.23 US ft • Fish Height: 46.08 US ft • Heading: 162.500 Degrees • Event Number: 73 • Line Name: 012_1531 • Water Depth: 127.95 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 440.15 US ft • Target Shadow: 0.00 US ft • Classification1: Rock Area • Classification2: • Description: Numerous irregular targets along edge of channel corresponding to rock.
	<p>NHH0032</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:09:59 PM • Click Position 41.2336301840 -72.9153360957 (WGS84) (X) 954523.40 (Y) 645895.62 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 51744 • Range to target: 60.24 US ft • Fish Height: 37.20 US ft • Heading: 358.480 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 100.07 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.71 US ft • Target Height: 5.65 US ft • Target Length: 9.93 US ft • Target Shadow: 12.67 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
	<p>NHH0033</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:10:08 PM • Click Position 41.2337360741 -72.9159436059 (WGS84) (X) 954356.38 (Y) 645934.52 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 51802 • Range to target: 87.77 US ft • Fish Height: 35.94 US ft • Heading: 354.160 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 93.83 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 226.03 US ft • Target Shadow: 0.00 US ft • Classification1: Rock Area • Classification2: • Description: Numerous irregular targets along edge of channel corresponding to rock.

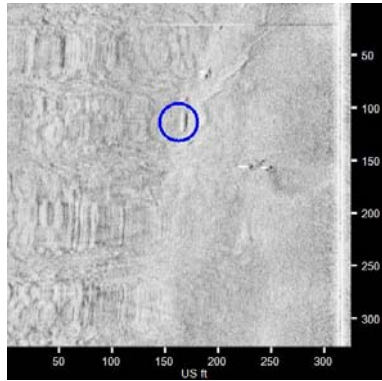
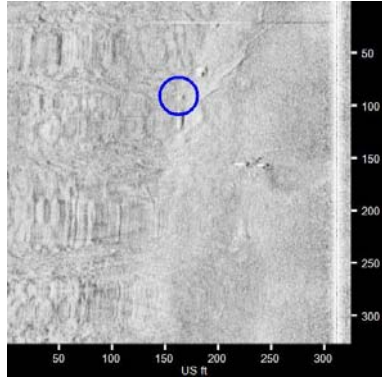
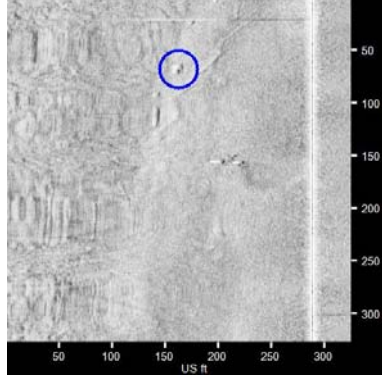
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 <p>A side scan sonar image showing a channel with a blue circle highlighting a target. The image includes a vertical scale on the right from 0 to 300 US ft and a horizontal scale at the bottom from 0 to 300 US ft.</p>	<p>NHH0034</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:10:06 PM • Click Position 41.2337809682 -72.9154830954 (WGS84) (X) 954483.07 (Y) 645950.63 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 51789 • Range to target: 38.45 US ft • Fish Height: 37.84 US ft • Heading: 357.320 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 96.78 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.23 US ft • Target Height: 1.97 US ft • Target Length: 4.50 US ft • Target Shadow: 2.97 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
 <p>A side scan sonar image showing a blue circle highlighting a target. The image includes a vertical scale on the right from 0 to 300 US ft and a horizontal scale at the bottom from 0 to 300 US ft.</p>	<p>NHH0035</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 2:23:10 PM • Click Position 41.2341238481 -72.9181425275 (WGS84) (X) 953751.83 (Y) 646076.98 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1415.HSX • Ping Number: 6052 • Range to target: 84.83 US ft • Fish Height: 43.51 US ft • Heading: 166.370 Degrees • Event Number: 65 • Line Name: 008_1415 • Water Depth: 116.80 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.22 US ft • Target Height: 2.48 US ft • Target Length: 5.25 US ft • Target Shadow: 5.75 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G7. Line visible
 <p>A side scan sonar image showing a blue circle highlighting a target. The image includes a vertical scale on the right from 0 to 300 US ft and a horizontal scale at the bottom from 0 to 300 US ft.</p>	<p>NHH0036</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:10:26 PM • Click Position 41.2342735695 -72.9161268962 (WGS84) (X) 954306.34 (Y) 646130.46 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 51933 • Range to target: 95.12 US ft • Fish Height: 34.69 US ft • Heading: 356.740 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 91.21 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 356.01 US ft • Target Shadow: 0.00 US ft • Classification1: Rock Area • Classification2: • Description: Numerous irregular targets along edge of channel corresponding to rock.

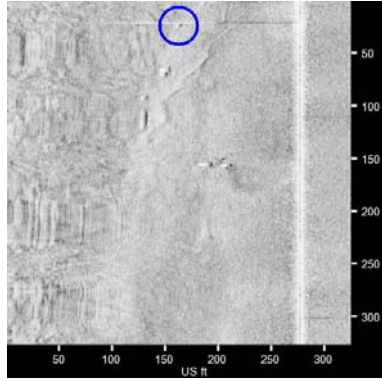
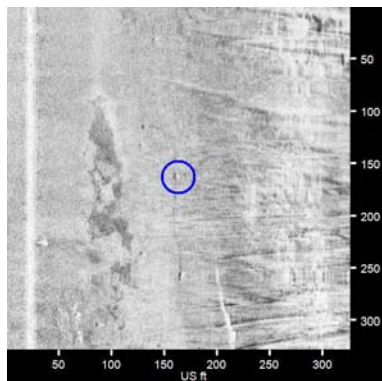
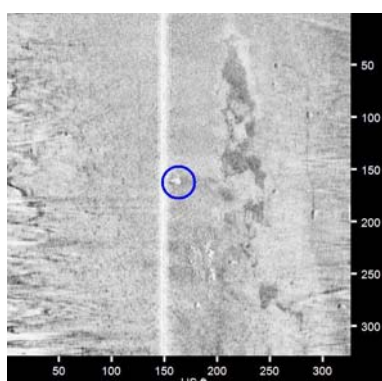
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	<p>NHH0037</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:10:38 PM • Click Position 41.2346129699 -72.9162515569 (WGS84) (X) 954272.29 (Y) 646254.19 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 52017 • Range to target: 112.14 US ft • Fish Height: 35.01 US ft • Heading: 356.810 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 92.52 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.30 US ft • Target Height: 1.46 US ft • Target Length: 10.75 US ft • Target Shadow: 5.10 US ft • Classification1: Unknown • Classification2: Rock • Description: Irregular target in channel. Likely rock.
	<p>NHH0038</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:11:30 PM • Click Position 41.2360826243 -72.9163711770 (WGS84) (X) 954240.42 (Y) 646789.74 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 52392 • Range to target: 89.78 US ft • Fish Height: 32.51 US ft • Heading: 353.780 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 86.29 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.33 US ft • Target Height: 3.08 US ft • Target Length: 4.28 US ft • Target Shadow: 9.99 US ft • Classification1: Mooring • Classification2: • Description: Square target in vicinity of R8. Line visible.
	<p>NHH0039</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:11:30 PM • Click Position 41.2360903439 -72.9163088794 (WGS84) (X) 954257.56 (Y) 646792.52 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 52392 • Range to target: 72.41 US ft • Fish Height: 32.51 US ft • Heading: 353.780 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 86.29 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.34 US ft • Target Height: 2.43 US ft • Target Length: 4.33 US ft • Target Shadow: 6.42 US ft • Classification1: Mooring • Classification2: • Description: Square target in vicinity of R8. No line.

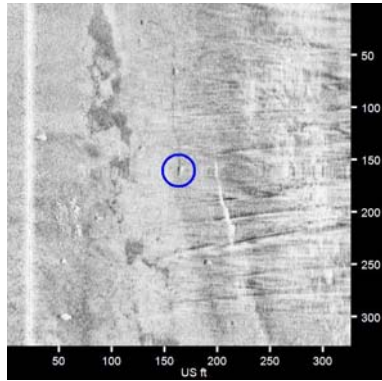
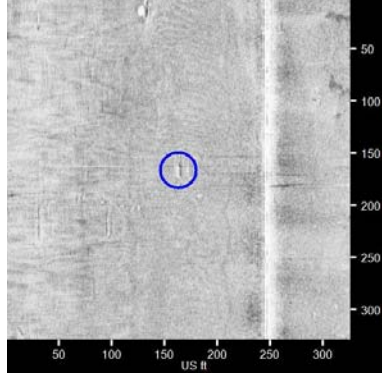
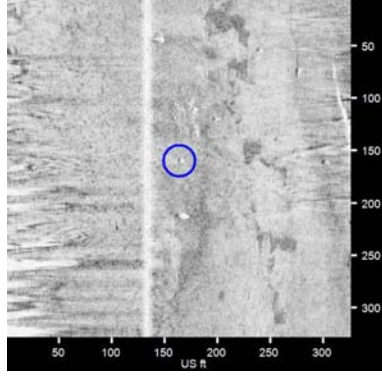
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	<p>NHH0040</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:11:35 PM • Click Position 41.2361611009 -72.9166185623 (WGS84) (X) 954172.43 (Y) 646818.46 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 52422 • Range to target: 151.87 US ft • Fish Height: 32.19 US ft • Heading: 354.620 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 84.32 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.26 US ft • Target Height: 0.00 US ft • Target Length: 6.41 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Rock • Description: Irregular target in channel. Likely rock or debris.
	<p>NHH0041</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:11:37 PM • Click Position 41.2362197843 -72.9166216495 (WGS84) (X) 954171.62 (Y) 646839.85 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 52438 • Range to target: 148.67 US ft • Fish Height: 32.51 US ft • Heading: 348.640 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 83.01 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.94 US ft • Target Height: 0.60 US ft • Target Length: 2.85 US ft • Target Shadow: 2.85 US ft • Classification1: Rock • Classification2: • Description: Small irregular target in channel. Likely rock.
	<p>NHH0042</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:11:39 PM • Click Position 41.2362904338 -72.9165549821 (WGS84) (X) 954190.01 (Y) 646865.55 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 52454 • Range to target: 125.60 US ft • Fish Height: 33.14 US ft • Heading: 354.100 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 87.27 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.86 US ft • Target Height: 0.00 US ft • Target Length: 2.85 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Small irregular target in channel. Likely rock.

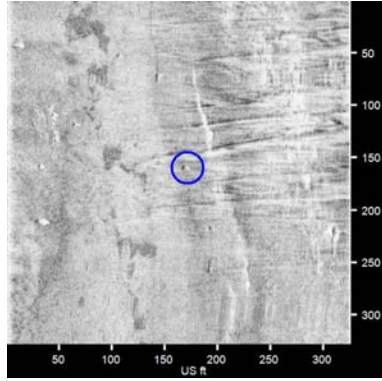
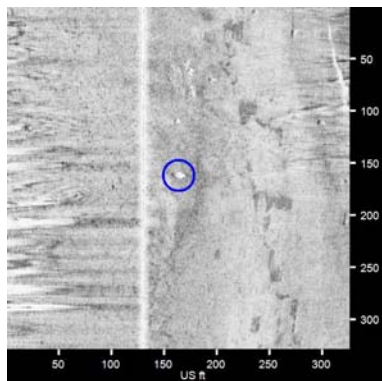
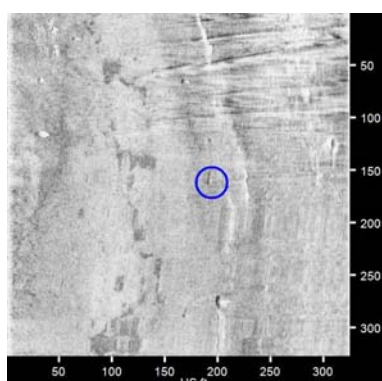
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	<p>NHH0043</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/4/2017 4:11:43 PM • Click Position 41.2364121599 -72.9165462200 (WGS84) (X) 954192.51 (Y) 646909.90 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1600.HSX • Ping Number: 52485 • Range to target: 114.06 US ft • Fish Height: 34.41 US ft • Heading: 349.560 Degrees • Event Number: 75 • Line Name: 014_1600 • Water Depth: 90.55 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.43 US ft • Target Height: 0.00 US ft • Target Length: 1.42 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Small irregular target in channel. Likely rock.
	<p>NHH0044</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:34:44 PM • Click Position 41.2368538059 -72.9164988898 (WGS84) (X) 954205.83 (Y) 647070.80 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 49198 • Range to target: 140.34 US ft • Fish Height: 28.07 US ft • Heading: 188.090 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 81.04 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.47 US ft • Target Height: 0.36 US ft • Target Length: 2.46 US ft • Target Shadow: 1.85 US ft • Classification1: Fishing gear • Classification2: • Description: String of targets in channel. Line visible. Likely derelict fishing gear or debris.
	<p>NHH0045</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:34:36 PM • Click Position 41.2369557478 -72.9160022676 (WGS84) (X) 954342.50 (Y) 647107.68 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 49146 • Range to target: 14.74 US ft • Fish Height: 28.72 US ft • Heading: 189.050 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 81.69 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.06 US ft • Target Height: 4.19 US ft • Target Length: 4.10 US ft • Target Shadow: 5.51 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock. Possibly derelict fishing gear.

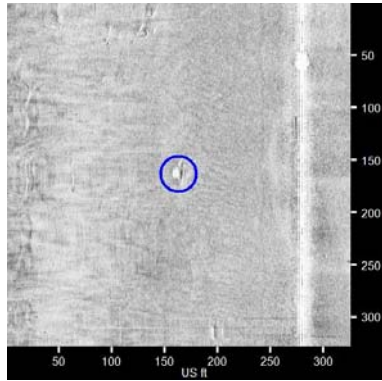
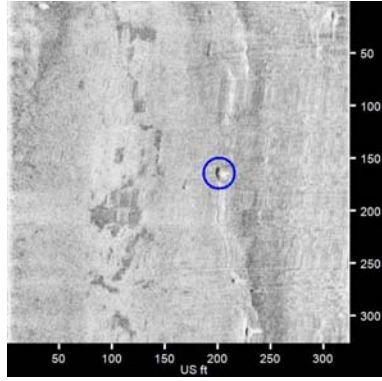
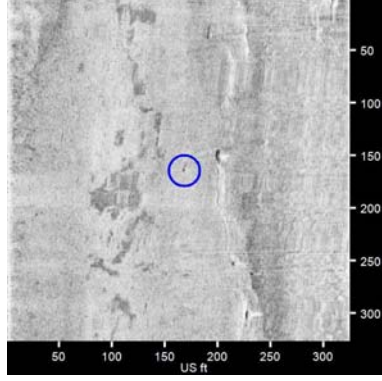
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	<p>NHH0046</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:34:33 PM • Click Position 41.2371105408 -72.9164299829 (WGS84) (X) 954224.97 (Y) 647164.30 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 49121 • Range to target: 141.62 US ft • Fish Height: 29.04 US ft • Heading: 189.050 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 81.04 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.51 US ft • Target Height: 0.48 US ft • Target Length: 4.91 US ft • Target Shadow: 2.44 US ft • Classification1: Fishing gear • Classification2: • Description: String of rectangular targets in channel. Line visible. Likely derelict fishing gear.
	<p>NHH0047</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:02 AM • Click Position 41.2372672006 -72.9169041667 (WGS84) (X) 954094.66 (Y) 647221.64 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27516 • Range to target: 83.95 US ft • Fish Height: 36.50 US ft • Heading: 12.820 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 119.75 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.36 US ft • Target Height: 0.00 US ft • Target Length: 8.86 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Rock • Description: Small irregular target in channel. Likely rock or debris.
	<p>NHH0048</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:34:23 PM • Click Position 41.2372752940 -72.9159750504 (WGS84) (X) 954350.21 (Y) 647224.09 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 49050 • Range to target: 30.12 US ft • Fish Height: 27.84 US ft • Heading: 191.720 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 73.82 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.47 US ft • Target Height: 2.24 US ft • Target Length: 3.05 US ft • Target Shadow: 3.59 US ft • Classification1: Rock • Classification2: • Description: Small irregular target in channel. Likely rock. Possibly derelict fishing gear.

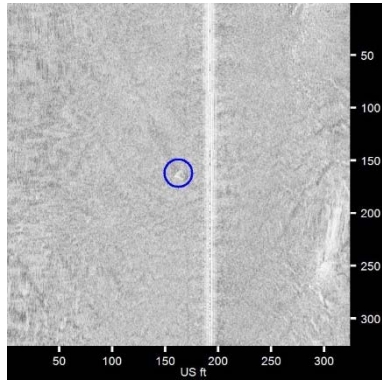
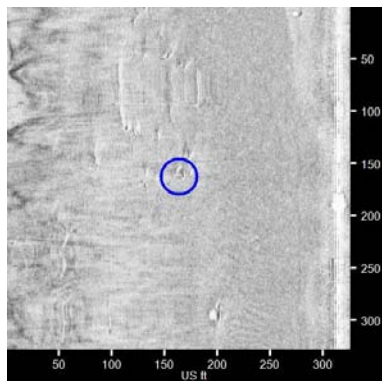
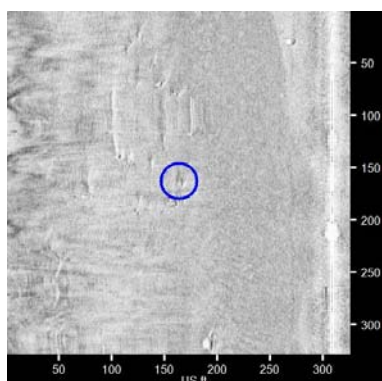
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	<p>NHH0049</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:34:23 PM • Click Position 41.2373433348 -72.9164784472 (WGS84) (X) 954211.80 (Y) 647249.15 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 49049 • Range to target: 170.77 US ft • Fish Height: 27.81 US ft • Heading: 191.850 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 74.80 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.47 US ft • Target Height: 0.00 US ft • Target Length: 2.46 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of targets in channel. Line visible. Likely derelict fishing gear or debris.
	<p>NHH0050</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:34:17 PM • Click Position 41.2374155719 -72.9159573900 (WGS84) (X) 954355.16 (Y) 647275.20 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 49006 • Range to target: 33.32 US ft • Fish Height: 26.21 US ft • Heading: 191.400 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 75.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.65 US ft • Target Height: 4.78 US ft • Target Length: 2.65 US ft • Target Shadow: 9.46 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock. Possibly derelict fishing gear.
	<p>NHH0051</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:34:11 PM • Click Position 41.2375949841 -72.9165113479 (WGS84) (X) 954202.93 (Y) 647340.86 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 48967 • Range to target: 193.22 US ft • Fish Height: 24.80 US ft • Heading: 191.470 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 69.88 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.42 US ft • Target Height: 0.22 US ft • Target Length: 2.42 US ft • Target Shadow: 1.76 US ft • Classification1: Fishing gear • Classification2: • Description: String of targets in channel. Line visible. Likely derelict fishing gear or debris.

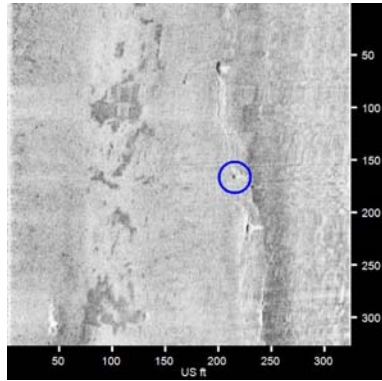
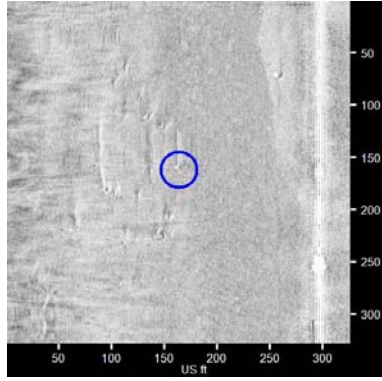
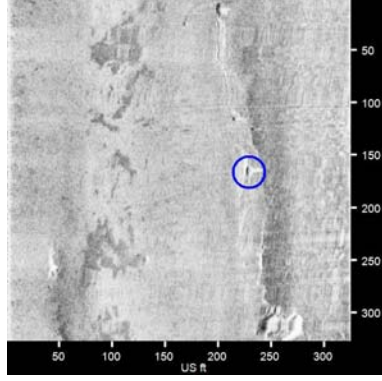
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0052</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:18 AM • Click Position 41.2376950214 -72.9169631430 (WGS84) (X) 954078.74 (Y) 647377.55 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27627 • Range to target: 116.63 US ft • Fish Height: 36.20 US ft • Heading: 4.270 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 119.75 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.03 US ft • Target Height: 1.72 US ft • Target Length: 7.43 US ft • Target Shadow: 6.10 US ft • Classification1: Unknown • Classification2: Debris • Description: Irregular target in channel. Likely rock or debris.
	<p>NHH0053</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:33:58 PM • Click Position 41.2378905175 -72.9164908731 (WGS84) (X) 954208.77 (Y) 647448.53 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 48871 • Range to target: 200.33 US ft • Fish Height: 24.81 US ft • Heading: 186.280 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 71.19 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.35 US ft • Target Height: 0.77 US ft • Target Length: 2.34 US ft • Target Shadow: 6.46 US ft • Classification1: Fishing gear • Classification2: • Description: String of targets in channel. Line visible. Likely derelict fishing gear or debris.
	<p>NHH0054</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:33:56 PM • Click Position 41.2379183771 -72.9163662690 (WGS84) (X) 954243.06 (Y) 647458.62 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 48859 • Range to target: 167.39 US ft • Fish Height: 24.50 US ft • Heading: 188.060 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 68.57 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.42 US ft • Target Height: 0.25 US ft • Target Length: 2.34 US ft • Target Shadow: 1.76 US ft • Classification1: Fishing gear • Classification2: • Description: String of targets in channel. Line visible. Likely derelict fishing gear or debris.

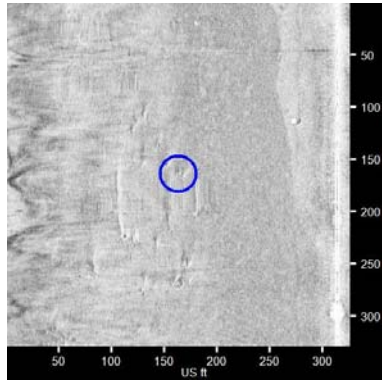
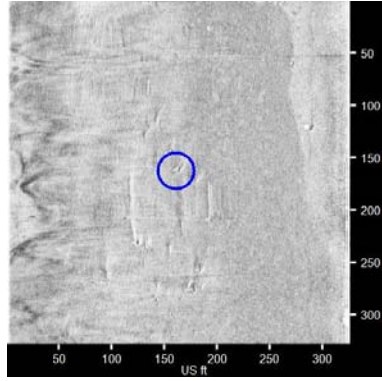
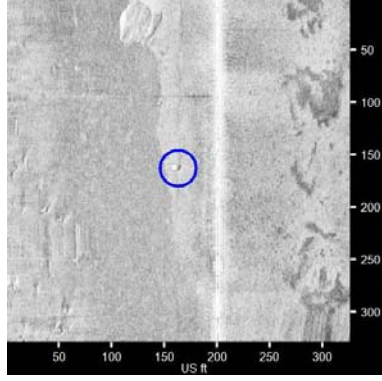
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	<p>NHH0055</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:34:37 PM • Click Position 41.2379625811 -72.9180785939 (WGS84) (X) 953772.13 (Y) 647475.63 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1732.HSX • Ping Number: 104723 • Range to target: 29.48 US ft • Fish Height: 30.48 US ft • Heading: 18.590 Degrees • Event Number: 59 • Line Name: 008_1732 • Water Depth: 89.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 7.04 US ft • Target Height: 2.74 US ft • Target Length: 6.66 US ft • Target Shadow: 4.19 US ft • Classification1: Unknown • Classification2: Rock • Description: Large square target outside channel with scour on western side. Likely rock.
	<p>NHH0056</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:32 AM • Click Position 41.2380817843 -72.9170194995 (WGS84) (X) 954063.51 (Y) 647518.50 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27725 • Range to target: 151.87 US ft • Fish Height: 36.82 US ft • Heading: 9.120 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 120.73 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.66 US ft • Target Height: 0.63 US ft • Target Length: 5.47 US ft • Target Shadow: 2.72 US ft • Classification1: Unknown • Classification2: Rock • Description: Small irregular target in channel. Likely rock or debris.
	<p>NHH0057</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:34 AM • Click Position 41.2381441949 -72.9169821726 (WGS84) (X) 954073.82 (Y) 647541.22 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27742 • Range to target: 145.46 US ft • Fish Height: 36.83 US ft • Heading: 17.810 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 121.06 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.36 US ft • Target Height: 0.82 US ft • Target Length: 2.72 US ft • Target Shadow: 3.40 US ft • Classification1: Unknown • Classification2: Rock • Description: Small irregular target in channel. Likely rock or debris.

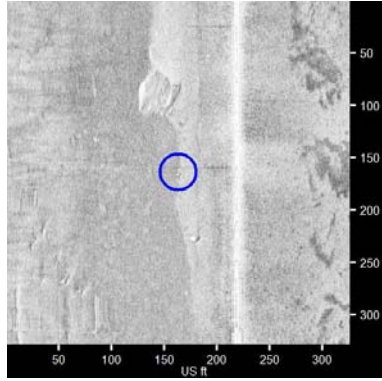
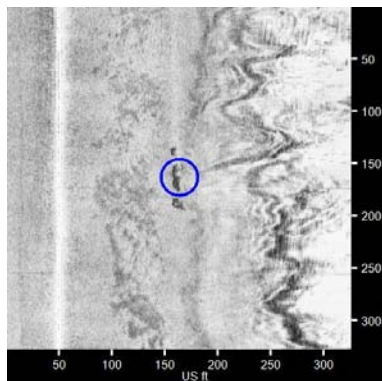
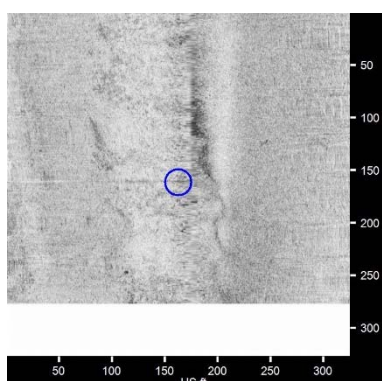
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	<p>NHH0058</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:33:45 PM • Click Position 41.2381807771 -72.9164989850 (WGS84) (X) 954206.74 (Y) 647554.29 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 48783 • Range to target: 214.52 US ft • Fish Height: 24.81 US ft • Heading: 187.040 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 67.59 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.45 US ft • Target Height: 0.34 US ft • Target Length: 2.97 US ft • Target Shadow: 2.97 US ft • Classification1: Fishing gear • Classification2: • Description: String of targets in channel. Line visible. Likely derelict fishing gear or debris.
	<p>NHH0059</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:38 AM • Click Position 41.2382570528 -72.9169108881 (WGS84) (X) 954093.50 (Y) 647582.31 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27773 • Range to target: 133.29 US ft • Fish Height: 36.21 US ft • Heading: 18.880 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 120.08 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.41 US ft • Target Height: 0.00 US ft • Target Length: 2.16 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Rock • Description: Small irregular target in channel. Likely rock or debris.
	<p>NHH0060</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:33:39 PM • Click Position 41.2383270428 -72.9165250257 (WGS84) (X) 954199.68 (Y) 647607.60 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 48741 • Range to target: 228.23 US ft • Fish Height: 23.23 US ft • Heading: 193.070 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 65.94 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.79 US ft • Target Height: 0.93 US ft • Target Length: 4.19 US ft • Target Shadow: 9.57 US ft • Classification1: Fishing gear • Classification2: • Description: String of targets in channel. Line visible. Likely derelict fishing gear or debris.

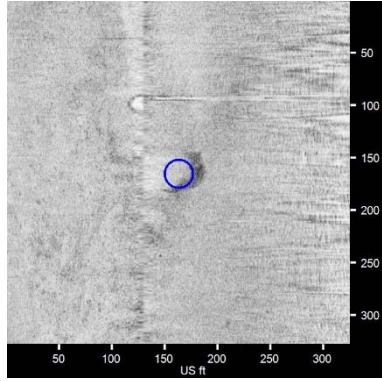
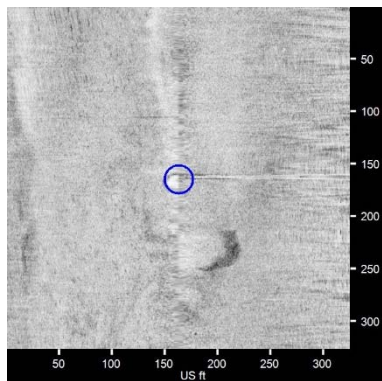
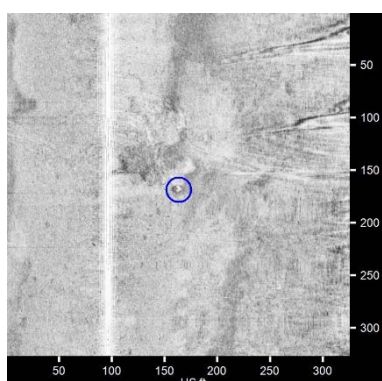
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0061</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:43 AM • Click Position 41.2383796967 -72.9169444650 (WGS84) (X) 954084.36 (Y) 647627.01 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27803 • Range to target: 150.59 US ft • Fish Height: 35.58 US ft • Heading: 7.520 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 117.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.53 US ft • Target Height: 0.92 US ft • Target Length: 2.05 US ft • Target Shadow: 4.12 US ft • Classification1: Unknown • Classification2: Rock • Description: Small irregular target in channel. Likely rock or debris.
	<p>NHH0062</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:44 AM • Click Position 41.2384097278 -72.9169890103 (WGS84) (X) 954072.13 (Y) 647637.98 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27809 • Range to target: 164.69 US ft • Fish Height: 35.90 US ft • Heading: 8.360 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 117.45 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.37 US ft • Target Height: 0.99 US ft • Target Length: 4.16 US ft • Target Shadow: 4.80 US ft • Classification1: Unknown • Classification2: Rock • Description: Small irregular target in channel. Likely rock or debris.
	<p>NHH0063</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:48 AM • Click Position 41.2384546300 -72.9165048811 (WGS84) (X) 954205.31 (Y) 647654.08 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27839 • Range to target: 37.17 US ft • Fish Height: 36.05 US ft • Heading: 11.090 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 116.47 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.75 US ft • Target Height: 0.00 US ft • Target Length: 4.85 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Small irregular target in channel. Possible line. Likely derelict fishing gear.

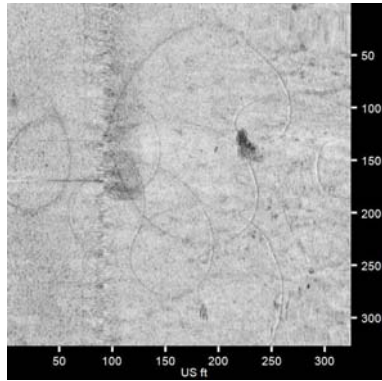
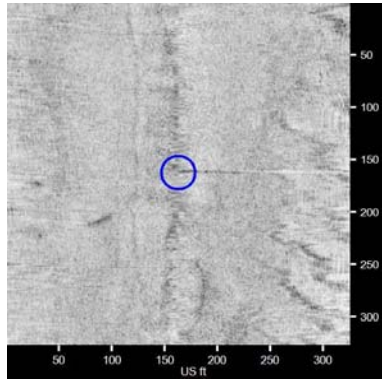
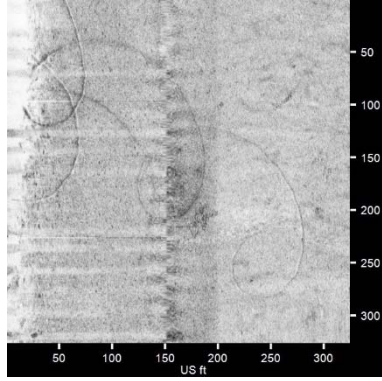
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0064</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:44:54 AM • Click Position 41.2386384787 -72.9165227240 (WGS84) (X) 954200.53 (Y) 647721.08 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 27886 • Range to target: 55.11 US ft • Fish Height: 36.34 US ft • Heading: 12.280 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 115.49 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.38 US ft • Target Height: 1.46 US ft • Target Length: 2.06 US ft • Target Shadow: 2.76 US ft • Classification1: Fishing gear • Classification2: • Description: Small square target in channel. Likely fishing gear or debris.
	<p>NHH0065</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:45:18 AM • Click Position 41.2391884408 -72.9157673631 (WGS84) (X) 954408.67 (Y) 647921.06 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 28053 • Range to target: 114.06 US ft • Fish Height: 36.52 US ft • Heading: 10.680 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 114.17 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.91 US ft • Target Height: 0.00 US ft • Target Length: 20.20 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: Area of high backscatter along edge of channel. No shadow. Likely partially buried rock or disturbed sediment.
	<p>NHH0066</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:47:22 PM • Click Position 41.2402087675 -72.9156712882 (WGS84) (X) 954435.80 (Y) 648292.78 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 80272 • Range to target: 11.86 US ft • Fish Height: 42.60 US ft • Heading: 10.300 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 126.64 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker

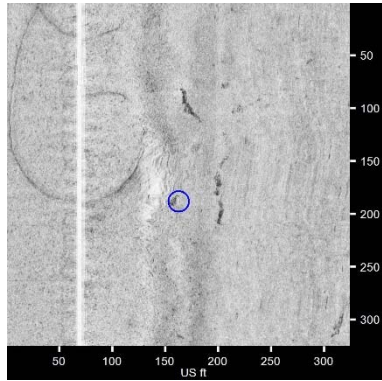
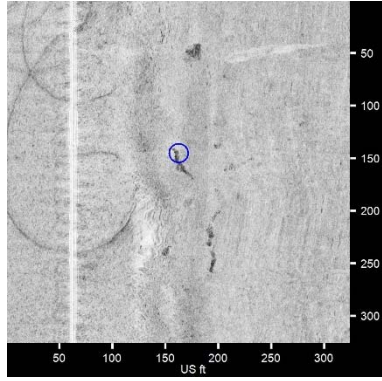
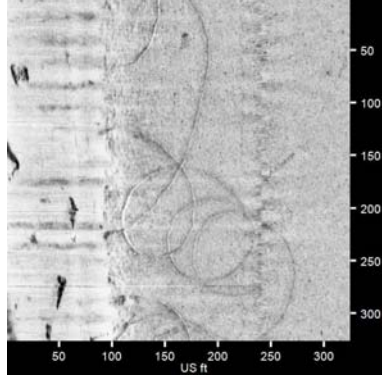
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0067</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:48:39 PM • Click Position 41.2417460849 -72.9152064803 (WGS84) (X) 954564.71 (Y) 648852.68 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 80824 • Range to target: 33.31 US ft • Fish Height: 43.90 US ft • Heading: 0.350 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 125.66 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 27.54 US ft • Target Height: 0.00 US ft • Target Length: 12.88 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Area of disturbed sediment adjacent to mooring for R10. Likely previous mooring location.
	<p>NHH0068</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:48:49 PM • Click Position 41.2419509721 -72.9152852438 (WGS84) (X) 954543.19 (Y) 648927.37 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 80889 • Range to target: 0.00 US ft • Fish Height: 43.65 US ft • Heading: 2.500 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 146.00 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.77 US ft • Target Height: 4.35 US ft • Target Length: 5.07 US ft • Target Shadow: 4.82 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker
	<p>NHH0069</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:26:22 AM • Click Position 41.2420333849 -72.9167739268 (WGS84) (X) 954133.83 (Y) 648958.19 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 19958 • Range to target: 66.64 US ft • Fish Height: 40.44 US ft • Heading: 187.600 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 119.09 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.33 US ft • Target Height: 0.00 US ft • Target Length: 5.06 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G9. Line visible.

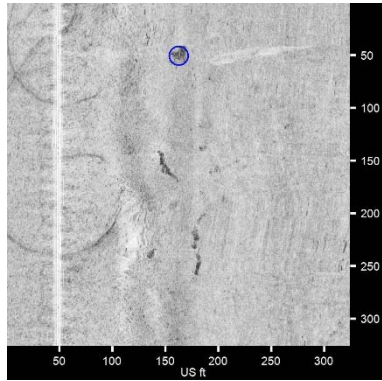
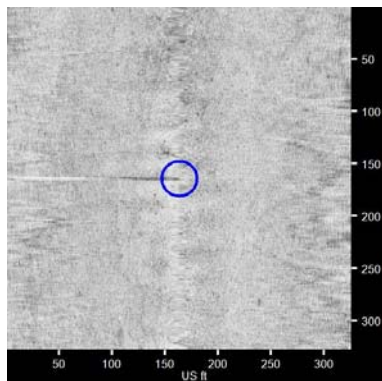
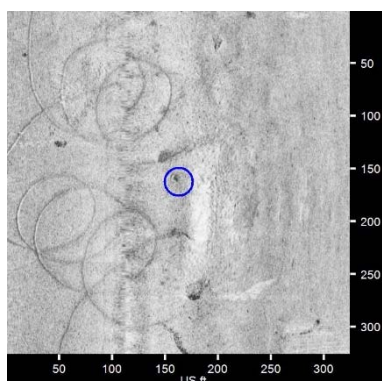
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0070</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:21:31 PM • Click Position 41.2451903797 -72.9172361217 (WGS84) (X) 954008.94 (Y) 650108.72 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 99117 • Range to target: 71.22 US ft • Fish Height: 21.28 US ft • Heading: 189.940 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 61.68 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 944.38 US ft • Target Shadow: 0.00 US ft • Classification1: Drag scars • Classification2: • Description: Area with numerous drag scars. Well defined.
	<p>NHH0071</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:51:11 PM • Click Position 41.2452865035 -72.9147346453 (WGS84) (X) 954696.93 (Y) 650142.43 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 81902 • Range to target: 0.00 US ft • Fish Height: 44.84 US ft • Heading: 7.450 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 127.30 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker
	<p>NHH0072</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:20:40 PM • Click Position 41.2462617708 -72.9168065613 (WGS84) (X) 954127.83 (Y) 650498.87 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 98760 • Range to target: 11.33 US ft • Fish Height: 22.99 US ft • Heading: 180.370 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 61.02 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 861.81 US ft • Target Shadow: 0.00 US ft • Classification1: Drag scars • Classification2: • Description: Area with drag scars. Well defined.

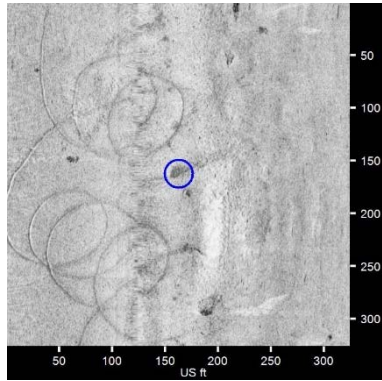
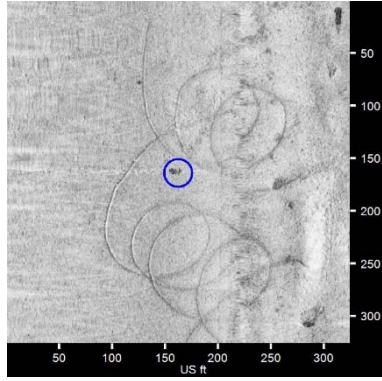
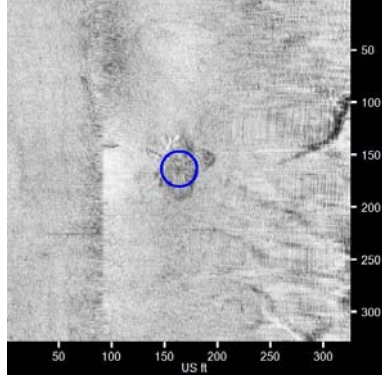
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0073</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:41:51 PM • Click Position 41.2468657754 -72.9159642931 (WGS84) (X) 954359.88 (Y) 650718.50 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1732.HSX • Ping Number: 107815 • Range to target: 92.70 US ft • Fish Height: 25.42 US ft • Heading: 6.290 Degrees • Event Number: 59 • Line Name: 008_1732 • Water Depth: 63.98 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.29 US ft • Target Height: 0.60 US ft • Target Length: 8.24 US ft • Target Shadow: 2.33 US ft • Classification1: Unknown • Classification2: • Description: Irregular contact in area of drag scars
	<p>NHH0074</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:42:09 PM • Click Position 41.2471144797 -72.9158754323 (WGS84) (X) 954384.49 (Y) 650809.07 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1732.HSX • Ping Number: 107946 • Range to target: 100.07 US ft • Fish Height: 25.10 US ft • Heading: 16.910 Degrees • Event Number: 59 • Line Name: 008_1732 • Water Depth: 66.27 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Irregular are of high backscatter at tow of channel slope. Likely Disturbed sediment.
	<p>NHH0075</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:19:51 PM • Click Position 41.2472997769 -72.9163043240 (WGS84) (X) 954266.67 (Y) 650876.81 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 98409 • Range to target: 78.36 US ft • Fish Height: 21.97 US ft • Heading: 190.450 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 62.34 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 1001.91 US ft • Target Shadow: 0.00 US ft • Classification1: Drag scars • Classification2: • Description: Area with numerous drag scars. Well defined.

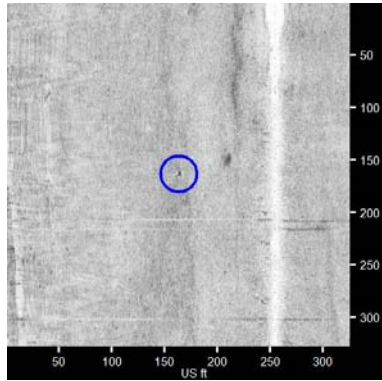
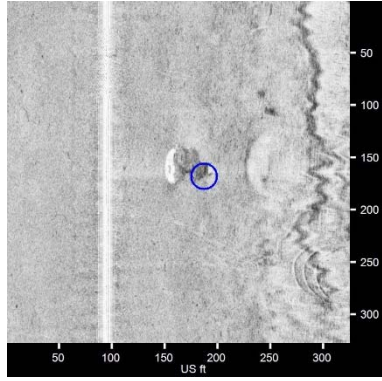
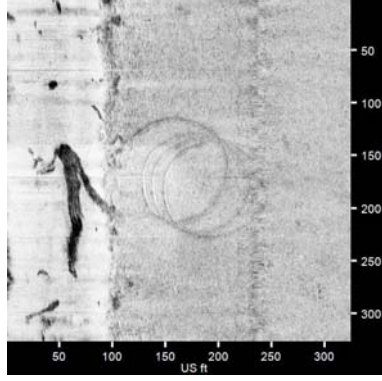
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	<p>NHH0076</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:42:28 PM • Click Position 41.2473402823 -72.9157734176 (WGS84) (X) 954412.70 (Y) 650891.29 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1732.HSX • Ping Number: 108079 • Range to target: 113.96 US ft • Fish Height: 24.78 US ft • Heading: 10.030 Degrees • Event Number: 59 • Line Name: 008_1732 • Water Depth: 65.29 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Irregular are of high backscatter at tow of channel slope. Likely Disturbed sediment.
	<p>NHH0077</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:52:36 PM • Click Position 41.2474561607 -72.9142972940 (WGS84) (X) 954818.71 (Y) 650932.74 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 82509 • Range to target: 0.00 US ft • Fish Height: 41.87 US ft • Heading: 4.620 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 127.62 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker
	<p>NHH0078</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:48:03 PM • Click Position 41.2476216381 -72.9159623254 (WGS84) (X) 954360.95 (Y) 650993.91 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 110471 • Range to target: 49.98 US ft • Fish Height: 23.21 US ft • Heading: 16.480 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 64.30 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.74 US ft • Target Height: 0.00 US ft • Target Length: 4.98 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Irregular target in area of drag scars. Likely disturbed sediment or debris.

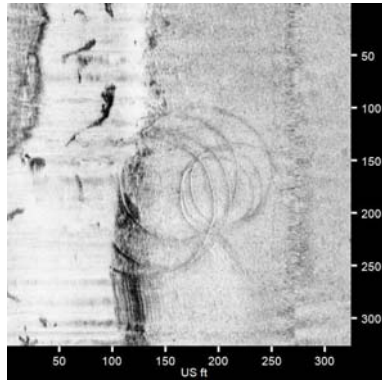
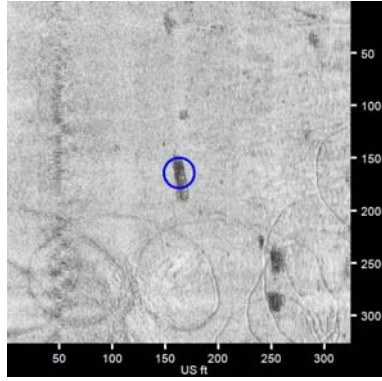
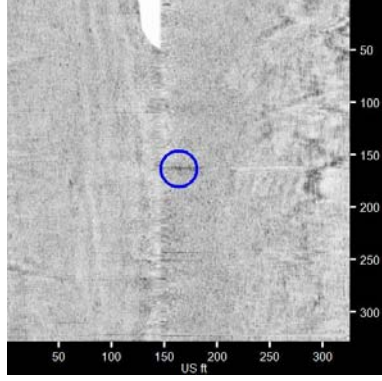
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	<p>NHH0079</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:48:06 PM • Click Position 41.2476869743 -72.9159913814 (WGS84) (X) 954353.00 (Y) 651017.73 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 110492 • Range to target: 38.45 US ft • Fish Height: 23.46 US ft • Heading: 16.680 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 63.98 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Irregular are of high backscatter at tow of channel slope. Likely Disturbed sediment.
	<p>NHH0080</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:48:08 PM • Click Position 41.2477621004 -72.9163320406 (WGS84) (X) 954259.37 (Y) 651045.28 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 110504 • Range to target: 58.31 US ft • Fish Height: 23.60 US ft • Heading: 18.500 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 63.98 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.28 US ft • Target Height: 0.00 US ft • Target Length: 11.42 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Irregular are of high backscatter at tow of channel slope. Likely Disturbed sediment.
	<p>NHH0081</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:53:14 PM • Click Position 41.2484208309 -72.9138874042 (WGS84) (X) 954932.09 (Y) 651284.01 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 82781 • Range to target: 71.83 US ft • Fish Height: 42.19 US ft • Heading: 12.020 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 125.00 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Target in vicinity of R10A. Poorly defined, possibly buried mooring. Line visible in other files.

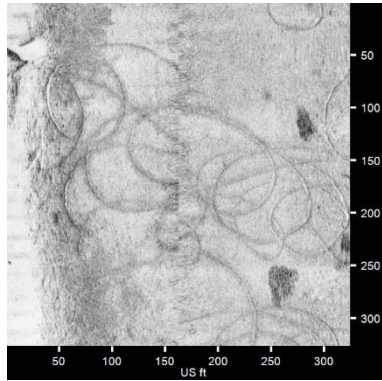
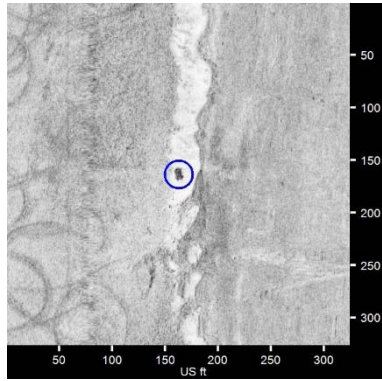
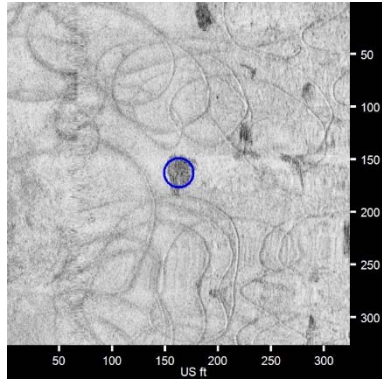
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	<p>NHH0082</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:50:56 AM • Click Position 41.2484411573 -72.9148342809 (WGS84) (X) 954671.72 (Y) 651291.92 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 30466 • Range to target: 91.41 US ft • Fish Height: 37.18 US ft • Heading: 15.210 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 119.09 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.84 US ft • Target Height: 0.51 US ft • Target Length: 2.75 US ft • Target Shadow: 1.38 US ft • Classification1: Rock • Classification2: • Description: Unknown square target in channel. Likely rock.
	<p>NHH0083</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:20:40 AM • Click Position 41.2485189949 -72.9156256444 (WGS84) (X) 954454.16 (Y) 651320.69 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 17521 • Range to target: 92.42 US ft • Fish Height: 38.17 US ft • Heading: 181.980 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 113.85 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.87 US ft • Target Height: 1.78 US ft • Target Length: 5.36 US ft • Target Shadow: 4.88 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G9A. Scour on channel side.
	<p>NHH0084</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:18:47 PM • Click Position 41.2487711856 -72.9160434581 (WGS84) (X) 954339.44 (Y) 651412.80 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 97954 • Range to target: 74.67 US ft • Fish Height: 23.16 US ft • Heading: 178.690 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 63.65 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 453.83 US ft • Target Shadow: 0.00 US ft • Classification1: Drag scars • Classification2: • Description: Area with drag scars. Well defined.

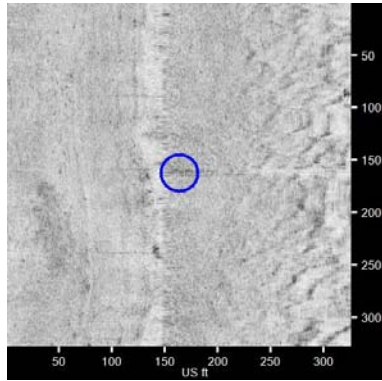
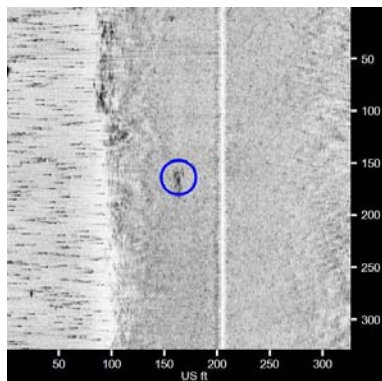
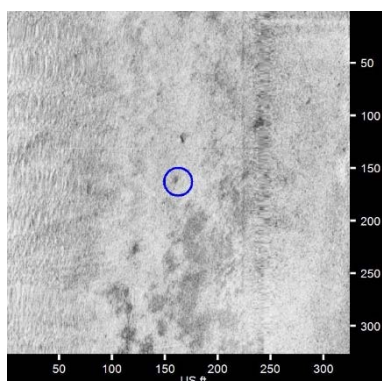
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0085</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:18:17 PM • Click Position 41.2494491424 -72.9158767592 (WGS84) (X) 954385.75 (Y) 651659.74 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 97735 • Range to target: 108.99 US ft • Fish Height: 23.54 US ft • Heading: 176.020 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 66.27 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 613.07 US ft • Target Shadow: 0.00 US ft • Classification1: Drag scars • Classification2: • Description: Area with drag scars. Well defined.
	<p>NHH0086</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:17:18 PM • Click Position 41.2508379447 -72.9163645401 (WGS84) (X) 954252.59 (Y) 652166.02 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 97313 • Range to target: 110.86 US ft • Fish Height: 24.37 US ft • Heading: 190.350 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 67.26 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 9.27 US ft • Target Height: 0.00 US ft • Target Length: 25.74 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Large rectangular target in area of drag scars.
	<p>NHH0087</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:55:16 PM • Click Position 41.2516996115 -72.9134389756 (WGS84) (X) 955057.67 (Y) 652478.45 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 83651 • Range to target: 16.86 US ft • Fish Height: 39.49 US ft • Heading: 4.860 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 119.09 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker

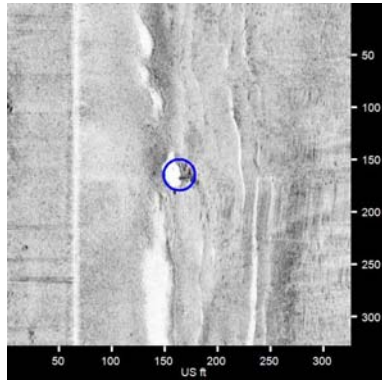
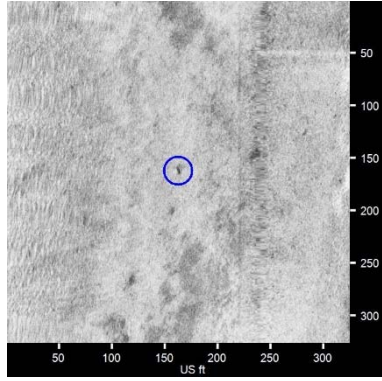
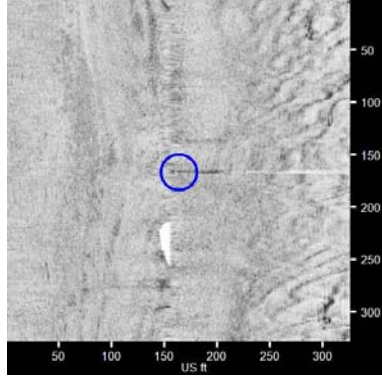
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	<p>NHH0088</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:16:27 PM • Click Position 41.2518745769 -72.9156698149 (WGS84) (X) 954444.36 (Y) 652543.37 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 96956 • Range to target: 0.00 US ft • Fish Height: 25.11 US ft • Heading: 187.890 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 69.88 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 2720.10 US ft • Target Shadow: 0.00 US ft • Classification1: Drag Scars • Classification2: • Description: Area with numerous drag scars. Well defined.
	<p>NHH0089</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:51:43 PM • Click Position 41.2521047393 -72.9150447774 (WGS84) (X) 954616.39 (Y) 652626.90 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 112036 • Range to target: 85.15 US ft • Fish Height: 26.14 US ft • Heading: 10.340 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 75.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 7.46 US ft • Target Height: 0.00 US ft • Target Length: 9.10 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Area of high backscatter along channel slope and drag marks. Likely disturbed sediment.
	<p>NHH0090</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:16:14 PM • Click Position 41.2522101827 -72.9159267635 (WGS84) (X) 954373.94 (Y) 652665.78 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 96861 • Range to target: 95.48 US ft • Fish Height: 25.42 US ft • Heading: 193.720 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 72.51 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 24.08 US ft • Target Height: 0.00 US ft • Target Length: 26.61 US ft • Target Shadow: 0.00 US ft • Classification1: Drag Scars • Classification2: • Description: Area of drag scars and disturbed sediment.

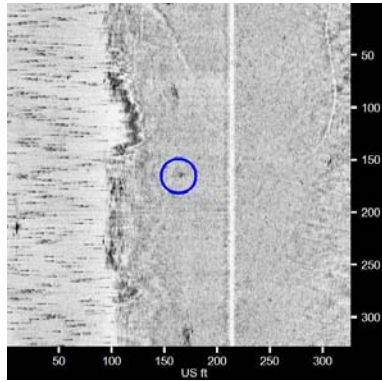
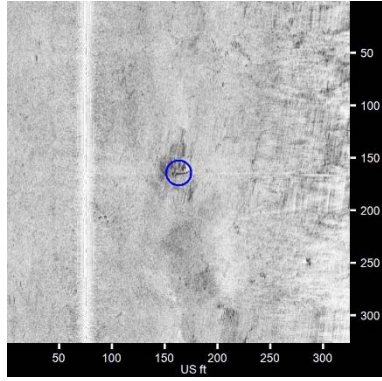
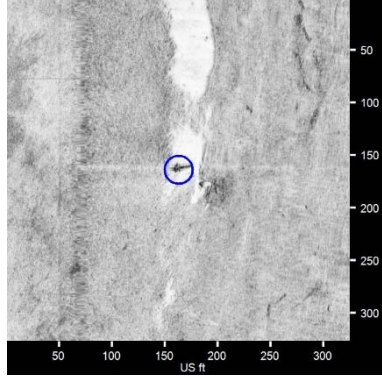
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	<p>NHH0091</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:56:16 PM • Click Position 41.2532994251 -72.9131435807 (WGS84) (X) 955140.00 (Y) 653061.21 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 84077 • Range to target: 15.57 US ft • Fish Height: 40.01 US ft • Heading: 14.000 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 124.34 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker
	<p>NHH0092</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:49:10 PM • Click Position 41.2542063428 -72.9125399424 (WGS84) (X) 955306.60 (Y) 653391.34 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1236.HSX • Ping Number: 55374 • Range to target: 41.66 US ft • Fish Height: 16.64 US ft • Heading: 8.310 Degrees • Event Number: 80 • Line Name: 015_1236 • Water Depth: 41.99 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.99 US ft • Target Height: 0.24 US ft • Target Length: 3.31 US ft • Target Shadow: 0.66 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown rectangular target on edge of channel. Possible line. Likely derelict fishing gear.
	<p>NHH0093</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:53:33 PM • Click Position 41.2544017958 -72.9151731728 (WGS84) (X) 954582.68 (Y) 653463.93 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 112826 • Range to target: 80.92 US ft • Fish Height: 26.75 US ft • Heading: 7.070 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 76.77 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Line of rectangular targets outside channel. Likely derelict fishing gear.

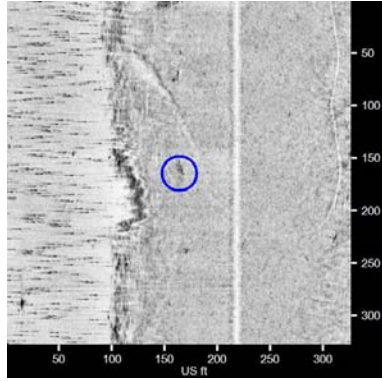
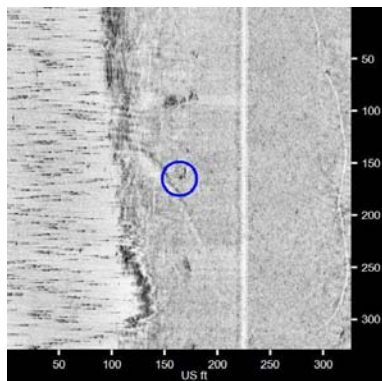
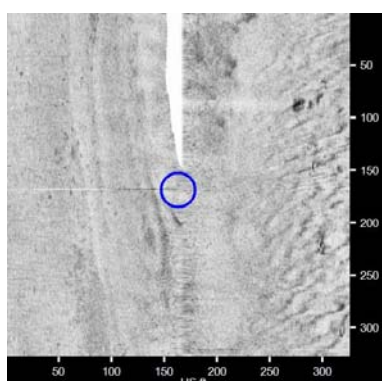
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0094</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:22:07 PM • Click Position 41.2544102534 -72.9130364801 (WGS84) (X) 955170.21 (Y) 653465.90 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1209.HSX • Ping Number: 43807 • Range to target: 97.40 US ft • Fish Height: 19.64 US ft • Heading: 196.240 Degrees • Event Number: 78 • Line Name: 014_1209 • Water Depth: 46.59 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.96 US ft • Target Height: 0.00 US ft • Target Length: 5.35 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R12. Line visible.
	<p>NHH0095</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:53:39 PM • Click Position 41.2545077397 -72.9151549128 (WGS84) (X) 954587.78 (Y) 653502.52 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 112864 • Range to target: 77.60 US ft • Fish Height: 26.56 US ft • Heading: 4.580 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 75.46 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.19 US ft • Target Height: 0.67 US ft • Target Length: 3.23 US ft • Target Shadow: 2.13 US ft • Classification1: Fishing gear • Classification2: • Description: Line of rectangular targets outside channel. Likely derelict fishing gear.
	<p>NHH0096</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:57:02 PM • Click Position 41.2545666440 -72.9129651125 (WGS84) (X) 955189.94 (Y) 653522.84 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 84411 • Range to target: 7.73 US ft • Fish Height: 47.44 US ft • Heading: 358.110 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 132.87 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker

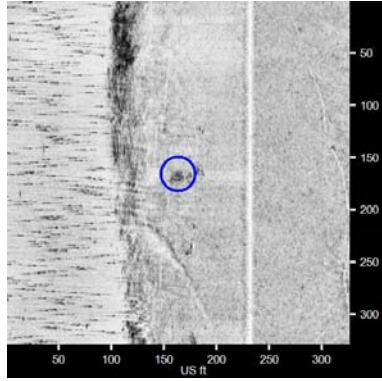
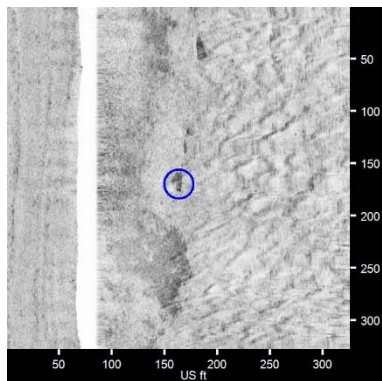
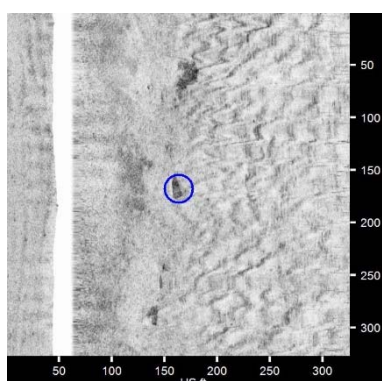
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0097</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:49:26 PM • Click Position 41.2546227951 -72.9124837080 (WGS84) (X) 955322.35 (Y) 653543.05 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1236.HSX • Ping Number: 55489 • Range to target: 50.41 US ft • Fish Height: 16.95 US ft • Heading: 2.290 Degrees • Event Number: 80 • Line Name: 015_1236 • Water Depth: 41.67 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.65 US ft • Target Height: 0.00 US ft • Target Length: 2.38 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Line of square targets outside channel. Likely derelict fishing gear.
	<p>NHH0098</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:15:10 AM • Click Position 41.2546841252 -72.9144314702 (WGS84) (X) 954786.82 (Y) 653566.41 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 15166 • Range to target: 87.79 US ft • Fish Height: 41.15 US ft • Heading: 188.990 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.80 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.18 US ft • Target Height: 0.00 US ft • Target Length: 3.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Square target adjacent to GC13. Line visible. Likely derelict mooring.
	<p>NHH0099</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:53:53 PM • Click Position 41.2547963946 -72.9145255990 (WGS84) (X) 954761.02 (Y) 653607.37 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 112968 • Range to target: 92.53 US ft • Fish Height: 26.04 US ft • Heading: 4.420 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 74.15 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.87 US ft • Target Height: 0.00 US ft • Target Length: 5.84 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G11. Line visible. Small targets and scour adjacent.

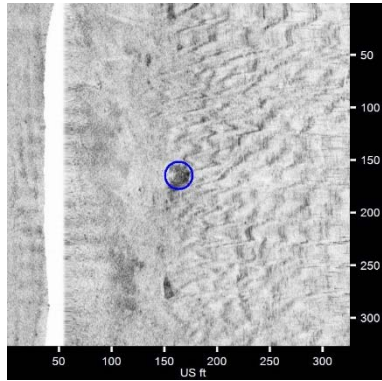
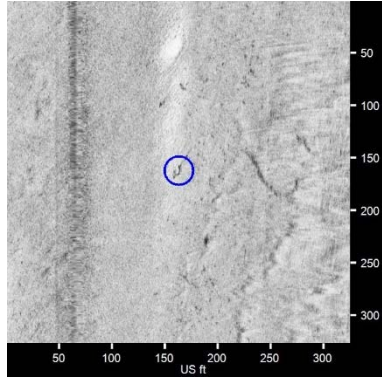
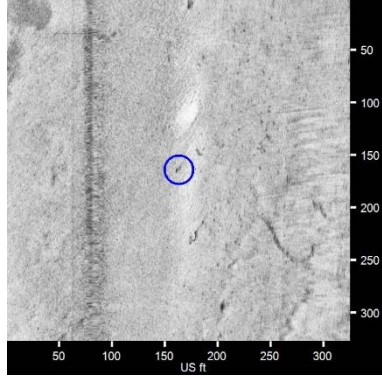
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0100</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:49:34 PM • Click Position 41.2548275864 -72.9124594760 (WGS84) (X) 955329.15 (Y) 653617.66 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1236.HSX • Ping Number: 55546 • Range to target: 55.22 US ft • Fish Height: 16.63 US ft • Heading: 7.690 Degrees • Event Number: 80 • Line Name: 015_1236 • Water Depth: 41.67 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.98 US ft • Target Height: 0.00 US ft • Target Length: 2.08 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Line of square targets outside channel. Likely derelict fishing gear.
	<p>NHH0101</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:49:43 PM • Click Position 41.2550663727 -72.9124383059 (WGS84) (X) 955335.14 (Y) 653704.65 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1236.HSX • Ping Number: 55613 • Range to target: 61.88 US ft • Fish Height: 16.64 US ft • Heading: 8.500 Degrees • Event Number: 80 • Line Name: 015_1236 • Water Depth: 41.34 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.07 US ft • Target Height: 0.00 US ft • Target Length: 1.96 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Line of square targets outside channel. Possible derelict fishing gear.
	<p>NHH0102</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:57:22 PM • Click Position 41.2550802345 -72.9129166134 (WGS84) (X) 955203.63 (Y) 653709.95 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 84551 • Range to target: 4.00 US ft • Fish Height: 37.60 US ft • Heading: 12.270 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 117.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Shellfish lease marker

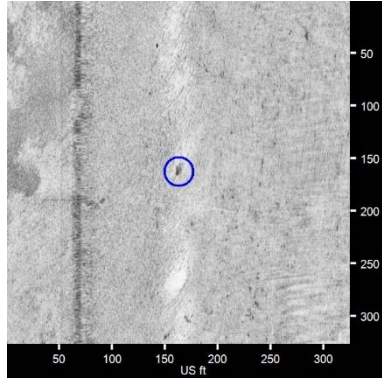
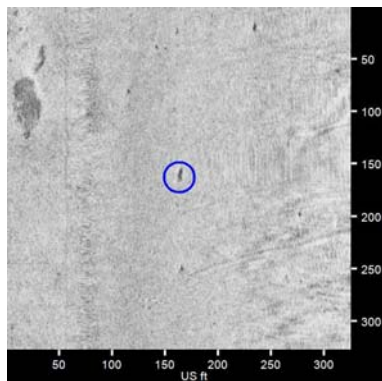
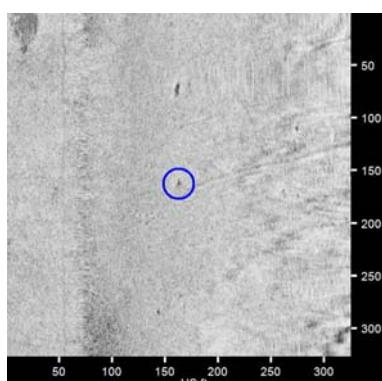
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	<p>NHH0103</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:49:52 PM • Click Position 41.2552753486 -72.9124258305 (WGS84) (X) 955338.71 (Y) 653780.79 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1236.HSX • Ping Number: 55672 • Range to target: 68.42 US ft • Fish Height: 16.96 US ft • Heading: 10.620 Degrees • Event Number: 80 • Line Name: 015_1236 • Water Depth: 41.01 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 6.64 US ft • Target Height: 2.42 US ft • Target Length: 3.50 US ft • Target Shadow: 11.72 US ft • Classification1: Disturbed sediment • Classification2: Rock • Description: Irregular target outside channel. Likely disturbed sediment or coarse material.
	<p>NHH0104</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:58:06 PM • Click Position 41.2560782605 -72.9124642865 (WGS84) (X) 955328.69 (Y) 654073.36 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 84862 • Range to target: 77.20 US ft • Fish Height: 36.10 US ft • Heading: 352.760 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 114.17 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 8.61 US ft • Target Height: 0.00 US ft • Target Length: 15.55 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: One of three large irregular targets outside of channel. Possible boulders.
	<p>NHH0105</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:58:22 PM • Click Position 41.2564166744 -72.9123430524 (WGS84) (X) 955362.25 (Y) 654196.60 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 84978 • Range to target: 100.12 US ft • Fish Height: 39.57 US ft • Heading: 357.870 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 118.77 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 8.76 US ft • Target Height: 0.00 US ft • Target Length: 14.78 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: One of three large irregular targets outside of channel. Possible boulder.

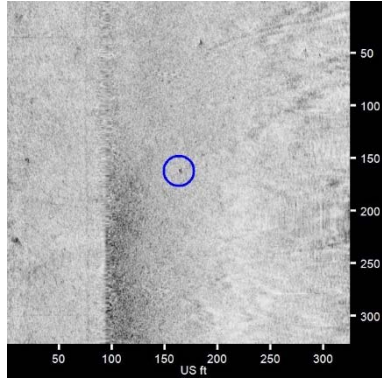
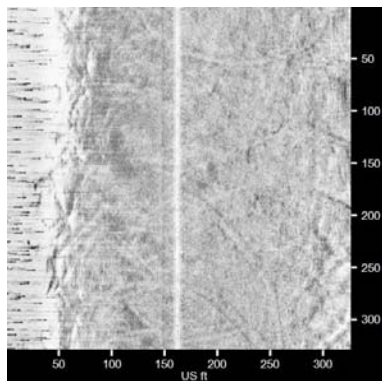
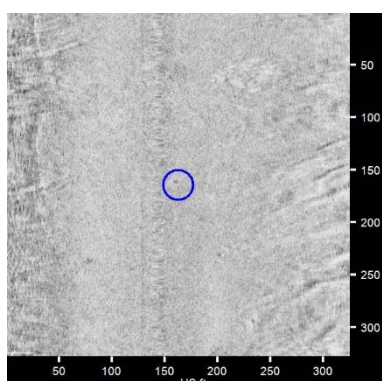
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	<p>NHH0106</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 1:58:37 PM • Click Position 41.2567074895 -72.9122810245 (WGS84) (X) 955379.51 (Y) 654302.53 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 85082 • Range to target: 108.26 US ft • Fish Height: 37.90 US ft • Heading: 5.780 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 119.75 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 13.19 US ft • Target Height: 0.00 US ft • Target Length: 13.00 US ft • Target Shadow: 0.00 US ft • Classification1: Rock • Classification2: • Description: One of three large irregular targets outside of channel. Possible boulders.
	<p>NHH0107</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:55:53 PM • Click Position 41.2572766369 -72.9141699196 (WGS84) (X) 954860.53 (Y) 654510.89 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 113822 • Range to target: 96.90 US ft • Fish Height: 24.59 US ft • Heading: 4.900 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 70.87 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.36 US ft • Target Height: 0.00 US ft • Target Length: 5.41 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown square target on edge of channel. Possible line. Likely derelict fishing gear.
	<p>NHH0108</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:56:01 PM • Click Position 41.2574484725 -72.9142210412 (WGS84) (X) 954846.60 (Y) 654573.53 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 113881 • Range to target: 81.60 US ft • Fish Height: 24.59 US ft • Heading: 7.110 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 68.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.85 US ft • Target Height: 0.00 US ft • Target Length: 4.47 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown square target on edge of channel. Possible line. Likely derelict fishing gear.

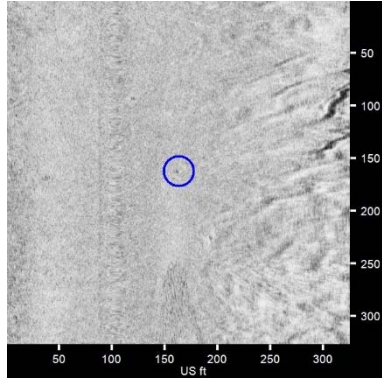
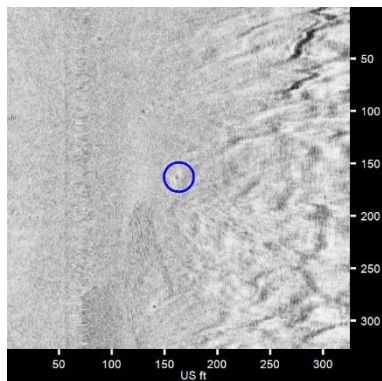
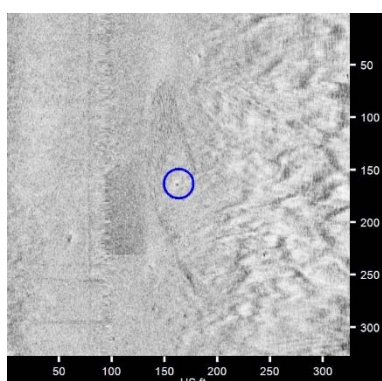
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	<p>NHH0109</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:56:22 PM • Click Position 41.2578533611 -72.9141429123 (WGS84) (X) 954868.36 (Y) 654721.01 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 114025 • Range to target: 92.45 US ft • Fish Height: 23.87 US ft • Heading: 7.680 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 67.26 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.47 US ft • Target Height: 0.00 US ft • Target Length: 5.43 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown square target on edge of channel. Possible line. Likely derelict fishing gear.
	<p>NHH0110</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:10:41 PM • Click Position 41.2595526467 -72.9149241580 (WGS84) (X) 954654.74 (Y) 655340.58 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 94484 • Range to target: 87.64 US ft • Fish Height: 21.99 US ft • Heading: 174.690 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 60.04 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.93 US ft • Target Height: 0.00 US ft • Target Length: 2.93 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0111</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:10:30 PM • Click Position 41.2597908999 -72.9149010209 (WGS84) (X) 954661.26 (Y) 655427.38 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 94408 • Range to target: 90.36 US ft • Fish Height: 21.67 US ft • Heading: 178.330 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 59.06 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.37 US ft • Target Height: 0.00 US ft • Target Length: 2.30 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.

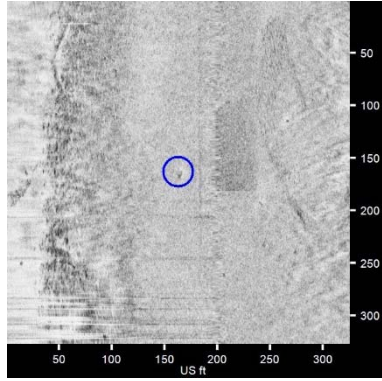
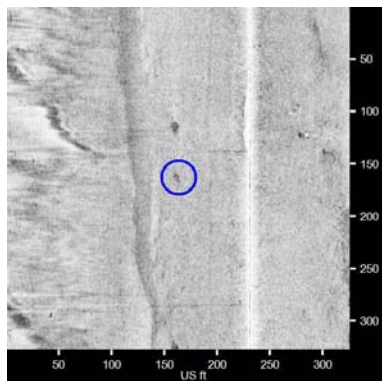
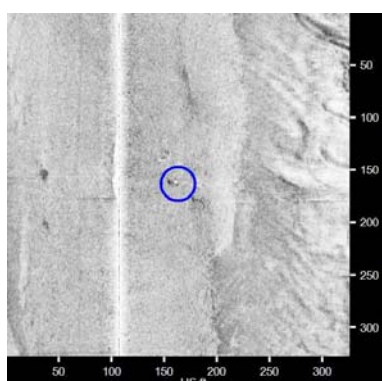
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0112</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:10:15 PM • Click Position 41.2601122176 -72.9147854580 (WGS84) (X) 954693.26 (Y) 655544.39 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 94302 • Range to target: 69.05 US ft • Fish Height: 21.81 US ft • Heading: 182.640 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 59.38 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.29 US ft • Target Height: 0.34 US ft • Target Length: 2.36 US ft • Target Shadow: 1.15 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0113</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:53:21 PM • Click Position 41.2606495392 -72.9115013081 (WGS84) (X) 955596.58 (Y) 655738.47 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1236.HSX • Ping Number: 57163 • Range to target: 1.47 US ft • Fish Height: 19.17 US ft • Heading: 356.670 Degrees • Event Number: 80 • Line Name: 015_1236 • Water Depth: 49.54 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 3414.30 US ft • Target Shadow: 0.00 US ft • Classification1: Drag scars • Classification2: • Description: Area with numerous drag scars. Fainter than those on west side of channel.
	<p>NHH0114</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:08:43 PM • Click Position 41.2621507267 -72.9144064227 (WGS84) (X) 954798.89 (Y) 656286.95 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93644 • Range to target: 19.12 US ft • Fish Height: 20.72 US ft • Heading: 179.350 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 54.46 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.33 US ft • Target Height: 0.00 US ft • Target Length: 2.26 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Square target outside channel. Line visible. Likely derelict fishing gear.

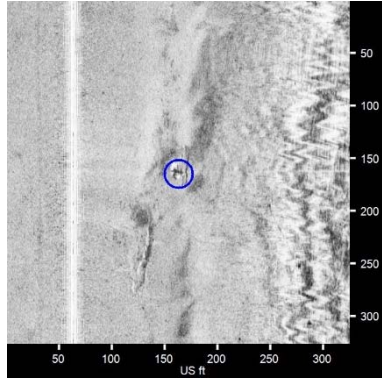
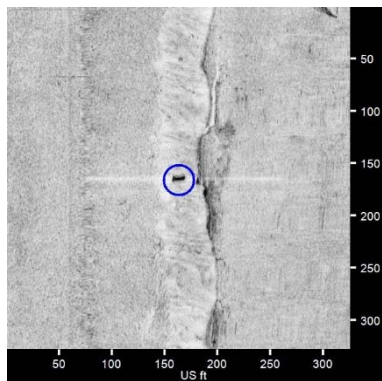
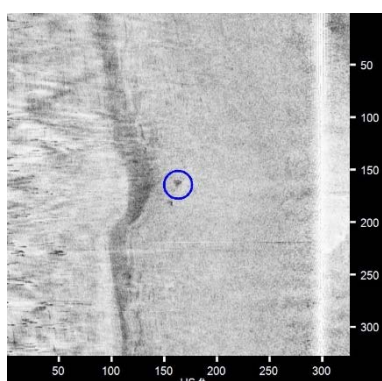
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	<p>NHH0115</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:08:35 PM • Click Position 41.2623404316 -72.9145357482 (WGS84) (X) 954763.46 (Y) 656356.14 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93585 • Range to target: 59.32 US ft • Fish Height: 20.62 US ft • Heading: 184.320 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 53.15 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.33 US ft • Target Height: 0.00 US ft • Target Length: 2.33 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Square target outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0116</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:08:27 PM • Click Position 41.2625186427 -72.9146368826 (WGS84) (X) 954735.78 (Y) 656421.13 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93529 • Range to target: 91.30 US ft • Fish Height: 20.43 US ft • Heading: 179.570 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 52.82 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.39 US ft • Target Height: 0.00 US ft • Target Length: 2.39 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Square target outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0117</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:08:11 PM • Click Position 41.2628501003 -72.9145289765 (WGS84) (X) 954765.68 (Y) 656541.84 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93420 • Range to target: 69.57 US ft • Fish Height: 20.07 US ft • Heading: 174.670 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 50.52 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.77 US ft • Target Height: 0.00 US ft • Target Length: 1.77 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Square target outside channel. Line visible. Likely derelict fishing gear.

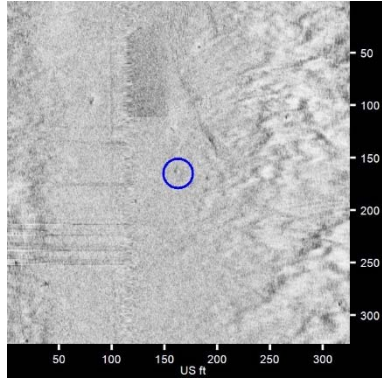
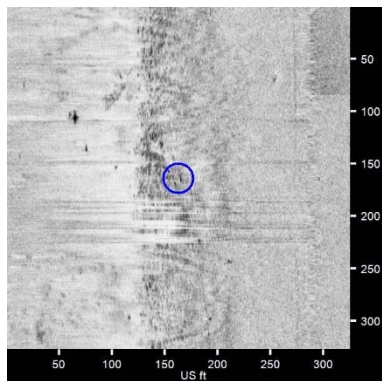
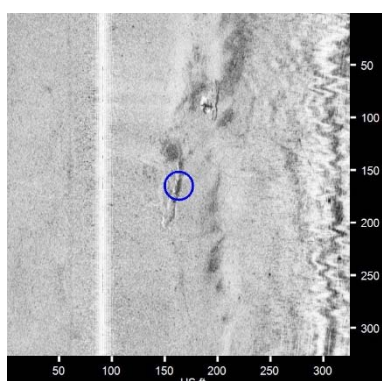
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	<p>NHH0118</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:08:05 PM • Click Position 41.2629647694 -72.9141367330 (WGS84) (X) 954873.60 (Y) 656583.42 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93376 • Range to target: 35.11 US ft • Fish Height: 19.92 US ft • Heading: 177.930 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 51.51 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.37 US ft • Target Height: 0.00 US ft • Target Length: 2.50 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Square target outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0119</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:00:19 PM • Click Position 41.2630358101 -72.9124946567 (WGS84) (X) 955325.10 (Y) 656608.45 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 34477 • Range to target: 67.74 US ft • Fish Height: 40.29 US ft • Heading: 7.230 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 126.31 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.15 US ft • Target Height: 0.00 US ft • Target Length: 4.72 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Irregular target on edge of channel. Possible derelict mooring.
	<p>NHH0120</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:00:23 PM • Click Position 41.2630917855 -72.9120274177 (WGS84) (X) 955453.60 (Y) 656628.60 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 34507 • Range to target: 56.39 US ft • Fish Height: 40.36 US ft • Heading: 6.190 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 124.02 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.24 US ft • Target Height: 1.81 US ft • Target Length: 5.19 US ft • Target Shadow: 3.25 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R14. Line visible.

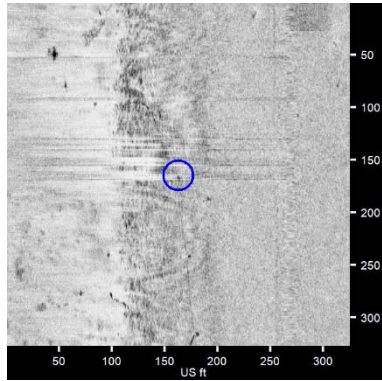
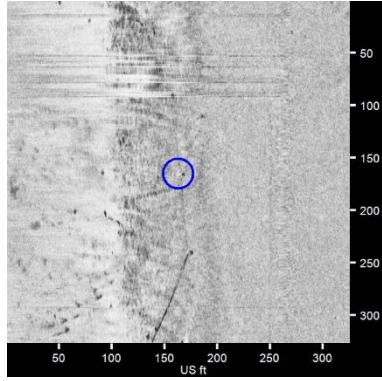
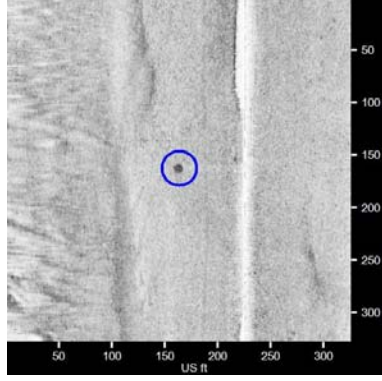
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	<p>NHH0121</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:08:02 AM • Click Position 41.2631065074 -72.9134046422 (WGS84) (X) 955074.97 (Y) 656634.68 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 12112 • Range to target: 99.97 US ft • Fish Height: 41.31 US ft • Heading: 177.510 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 119.42 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.82 US ft • Target Height: 0.80 US ft • Target Length: 4.78 US ft • Target Shadow: 2.13 US ft • Classification1: Mooring • Classification2: • Description: Unknown square target on edge of channel. Likely derelict mooring.
	<p>NHH0122</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:01:06 PM • Click Position 41.2631704778 -72.9134795081 (WGS84) (X) 955054.43 (Y) 656658.03 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116050 • Range to target: 88.07 US ft • Fish Height: 20.18 US ft • Heading: 7.770 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 54.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 6.87 US ft • Target Height: 0.00 US ft • Target Length: 5.72 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G13
	<p>NHH0123</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:03:43 PM • Click Position 41.2631715607 -72.9124779312 (WGS84) (X) 955329.79 (Y) 656657.90 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 87267 • Range to target: 135.18 US ft • Fish Height: 48.28 US ft • Heading: 5.960 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 136.81 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.96 US ft • Target Height: 0.00 US ft • Target Length: 5.35 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Irregular target on edge of channel. Possible derelict mooring.

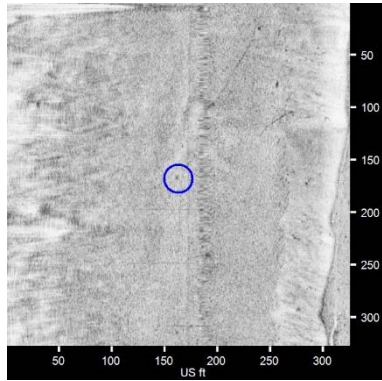
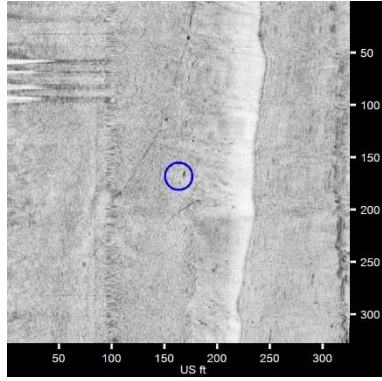
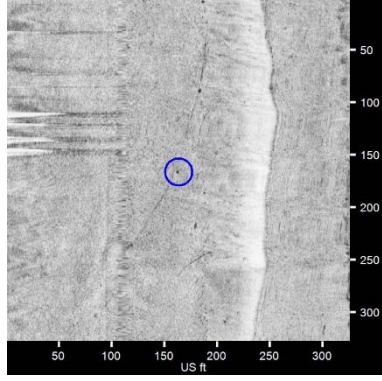
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	<p>NHH0124</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:07:56 PM • Click Position 41.2631776038 -72.9144210264 (WGS84) (X) 954795.58 (Y) 656661.12 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93312 • Range to target: 48.68 US ft • Fish Height: 19.77 US ft • Heading: 179.310 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 49.54 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.02 US ft • Target Height: 0.61 US ft • Target Length: 2.02 US ft • Target Shadow: 1.68 US ft • Classification1: Fishing gear • Classification2: • Description: Square target outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0125</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:07:53 PM • Click Position 41.2632082648 -72.9137851342 (WGS84) (X) 954970.43 (Y) 656671.96 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93289 • Range to target: 124.63 US ft • Fish Height: 20.09 US ft • Heading: 178.690 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 50.20 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.32 US ft • Target Height: 0.00 US ft • Target Length: 2.31 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0126</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 11:07:52 AM • Click Position 41.2633009709 -72.9132790997 (WGS84) (X) 955109.62 (Y) 656705.47 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 12043 • Range to target: 71.77 US ft • Fish Height: 41.31 US ft • Heading: 183.480 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 119.09 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.21 US ft • Target Height: 0.53 US ft • Target Length: 59.61 US ft • Target Shadow: 1.07 US ft • Classification1: Unknown • Classification2: Debris • Description: Linear target in channel. Likely debris.

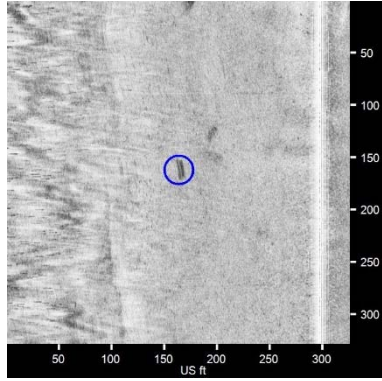
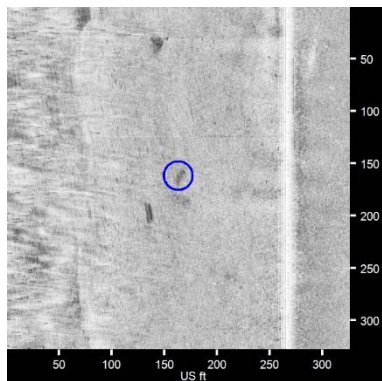
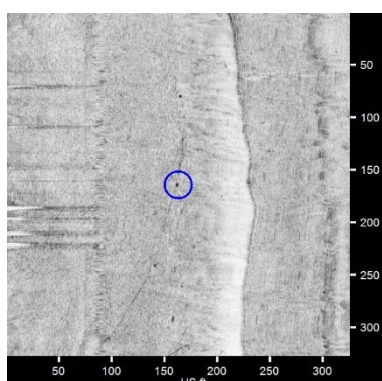
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	<p>NHH0127</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:07:46 PM • Click Position 41.2633657067 -72.9138378763 (WGS84) (X) 954956.04 (Y) 656729.35 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93238 • Range to target: 105.05 US ft • Fish Height: 20.41 US ft • Heading: 184.160 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 50.52 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.32 US ft • Target Height: 0.00 US ft • Target Length: 2.25 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0128</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:07:36 PM • Click Position 41.2635715402 -72.9138295658 (WGS84) (X) 954958.46 (Y) 656804.34 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 93170 • Range to target: 99.56 US ft • Fish Height: 21.68 US ft • Heading: 182.250 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 49.54 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.28 US ft • Target Height: 0.70 US ft • Target Length: 2.27 US ft • Target Shadow: 3.42 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0129</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:00:43 PM • Click Position 41.2636366800 -72.9123742903 (WGS84) (X) 955358.61 (Y) 656827.32 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 34650 • Range to target: 62.53 US ft • Fish Height: 37.78 US ft • Heading: 5.070 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 121.39 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 6.24 US ft • Target Height: 0.00 US ft • Target Length: 6.20 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Mooring • Description: Large square target on edge of channel. Possible derelict mooring.

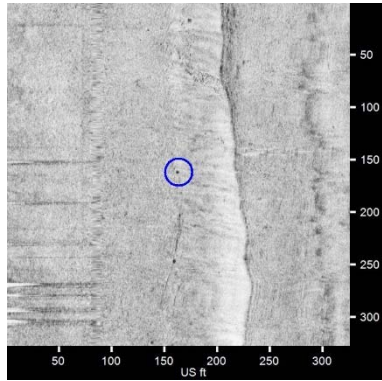
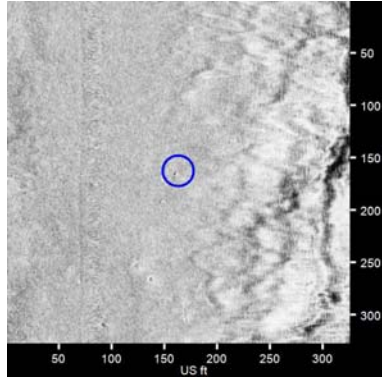
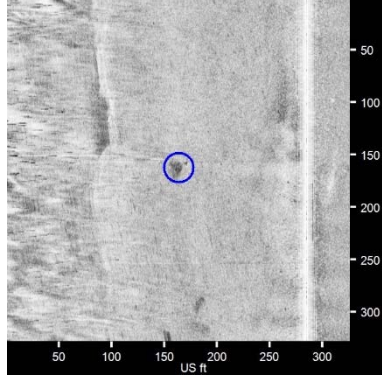
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	<p>NHH0130</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:01:36 PM • Click Position 41.2638592174 -72.9138461440 (WGS84) (X) 954954.11 (Y) 656909.17 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116268 • Range to target: 23.68 US ft • Fish Height: 19.63 US ft • Heading: 2.890 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 52.82 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.14 US ft • Target Height: 0.00 US ft • Target Length: 2.20 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0131</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:01:48 PM • Click Position 41.2640803968 -72.9135108466 (WGS84) (X) 955046.44 (Y) 656989.59 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116350 • Range to target: 64.36 US ft • Fish Height: 19.63 US ft • Heading: 4.990 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 51.51 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.21 US ft • Target Height: 0.00 US ft • Target Length: 4.20 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown rectangular target adjacent to derelict fishing gear. Possible derelict fishing gear or rock.
	<p>NHH0132</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:01:55 PM • Click Position 41.2642236336 -72.9135334153 (WGS84) (X) 955040.33 (Y) 657041.79 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116402 • Range to target: 53.55 US ft • Fish Height: 19.63 US ft • Heading: 10.620 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 51.51 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.13 US ft • Target Height: 0.00 US ft • Target Length: 2.06 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.

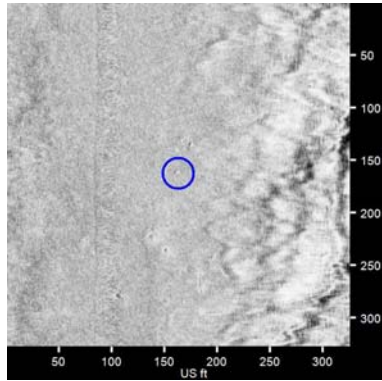
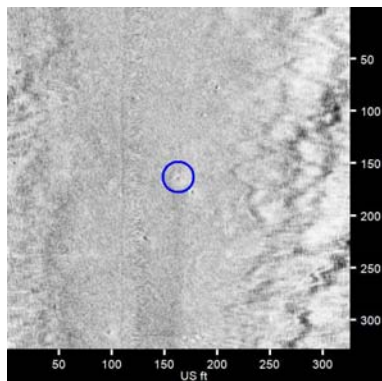
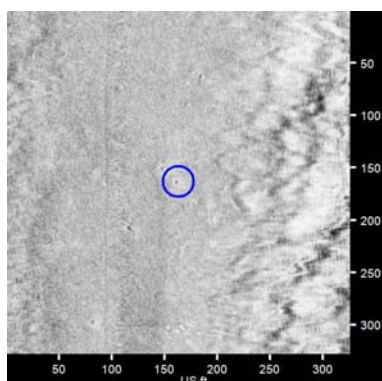
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	<p>NHH0133</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:04:38 PM • Click Position 41.2642668885 -72.9122080765 (WGS84) (X) 955404.73 (Y) 657056.86 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 87661 • Range to target: 133.79 US ft • Fish Height: 42.38 US ft • Heading: 359.960 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 123.36 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.49 US ft • Target Height: 0.00 US ft • Target Length: 14.74 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Large irregular area of high backscatter. No shadow. Likely disturbed sediment or area of coarse material.
	<p>NHH0134</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:04:43 PM • Click Position 41.2643582994 -72.9120930311 (WGS84) (X) 955436.43 (Y) 657090.11 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 87694 • Range to target: 103.70 US ft • Fish Height: 42.70 US ft • Heading: 3.030 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 120.08 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.87 US ft • Target Height: 0.00 US ft • Target Length: 8.75 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Large irregular area of high backscatter. No shadow. Likely disturbed sediment or area of coarse material.
	<p>NHH0135</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:02:05 PM • Click Position 41.2644176529 -72.9134225352 (WGS84) (X) 955070.95 (Y) 657112.42 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116477 • Range to target: 75.01 US ft • Fish Height: 19.63 US ft • Heading: 7.820 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 49.21 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.11 US ft • Target Height: 0.00 US ft • Target Length: 2.05 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.

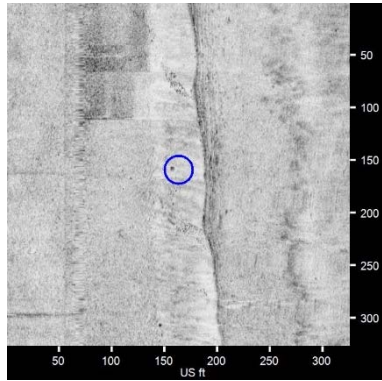
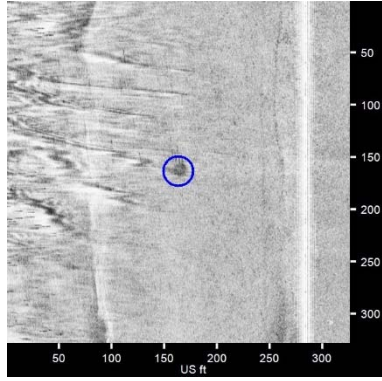
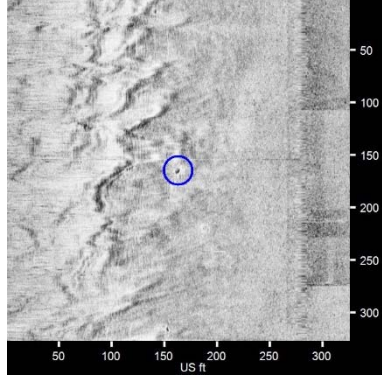
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	<p>NHH0136</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:02:17 PM • Click Position 41.2646388309 -72.9133678532 (WGS84) (X) 955086.14 (Y) 657192.98 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116559 • Range to target: 77.66 US ft • Fish Height: 19.63 US ft • Heading: 11.000 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 51.18 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.13 US ft • Target Height: 0.00 US ft • Target Length: 2.13 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Line visible. Likely derelict fishing gear.
	<p>NHH0137</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:06:49 PM • Click Position 41.2646989690 -72.9142884510 (WGS84) (X) 954833.09 (Y) 657215.38 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 92830 • Range to target: 79.10 US ft • Fish Height: 19.15 US ft • Heading: 182.230 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 47.57 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.31 US ft • Target Height: 0.27 US ft • Target Length: 3.42 US ft • Target Shadow: 1.17 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: String of rectangular targets outside channel. Possible line. Likely derelict fishing gear.
	<p>NHH0138</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:04:59 PM • Click Position 41.2647170822 -72.9121389902 (WGS84) (X) 955424.04 (Y) 657220.86 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 87810 • Range to target: 121.71 US ft • Fish Height: 40.16 US ft • Heading: 352.880 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 121.39 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 9.07 US ft • Target Height: 0.00 US ft • Target Length: 14.70 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Large irregular area of high backscatter. No shadow. Likely disturbed sediment or area of coarse material.

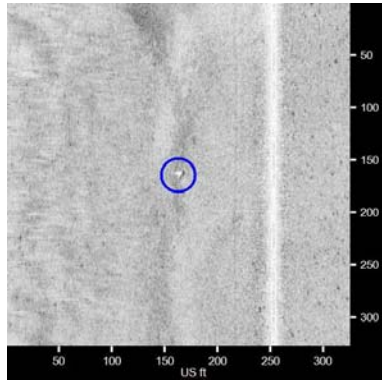
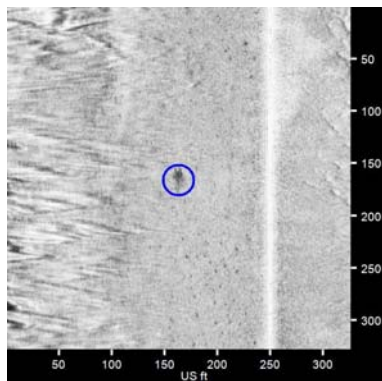
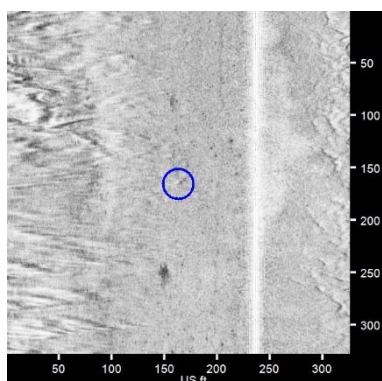
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	<p>NHH0139</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:06:45 PM • Click Position 41.2647762020 -72.9142283826 (WGS84) (X) 954849.65 (Y) 657243.49 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 92804 • Range to target: 65.26 US ft • Fish Height: 18.84 US ft • Heading: 182.170 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 47.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.76 US ft • Target Height: 0.93 US ft • Target Length: 2.93 US ft • Target Shadow: 3.52 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: String of rectangular targets outside channel. Possible line. Likely derelict fishing gear.
	<p>NHH0140</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:06:38 PM • Click Position 41.2649281416 -72.9141195031 (WGS84) (X) 954879.69 (Y) 657298.79 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 92754 • Range to target: 39.70 US ft • Fish Height: 19.47 US ft • Heading: 180.460 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 46.92 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.75 US ft • Target Height: 0.74 US ft • Target Length: 2.92 US ft • Target Shadow: 1.75 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: String of rectangular targets outside channel. Possible line. Likely derelict fishing gear.
	<p>NHH0141</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:06:36 PM • Click Position 41.2649689770 -72.9141714972 (WGS84) (X) 954865.43 (Y) 657313.70 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 92742 • Range to target: 54.97 US ft • Fish Height: 19.47 US ft • Heading: 179.160 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 46.92 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.41 US ft • Target Height: 0.00 US ft • Target Length: 4.09 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: String of rectangular targets outside channel. Possible line. Likely derelict fishing gear.

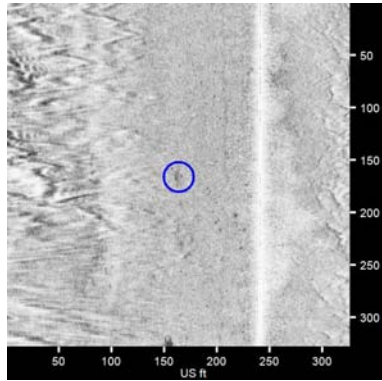
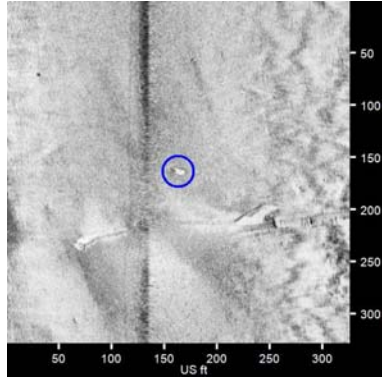
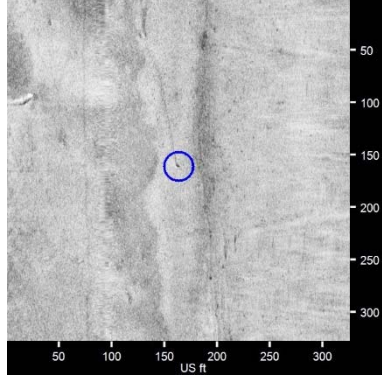
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0142</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:02:36 PM • Click Position 41.2650289504 -72.9132260989 (WGS84) (X) 955125.38 (Y) 657335.06 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116698 • Range to target: 94.10 US ft • Fish Height: 19.63 US ft • Heading: 8.390 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 51.84 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.12 US ft • Target Height: 0.22 US ft • Target Length: 2.20 US ft • Target Shadow: 1.07 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets outside channel. Possible line. Likely derelict fishing gear.
	<p>NHH0143</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:05:25 PM • Click Position 41.2653109269 -72.9120554479 (WGS84) (X) 955447.41 (Y) 657437.19 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 87996 • Range to target: 120.25 US ft • Fish Height: 40.48 US ft • Heading: 6.510 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 121.39 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 9.04 US ft • Target Height: 0.00 US ft • Target Length: 7.90 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Large irregular target in channel.
	<p>NHH0144</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:02:57 PM • Click Position 41.2655301908 -72.9139183355 (WGS84) (X) 954935.41 (Y) 657518.05 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 116845 • Range to target: 116.87 US ft • Fish Height: 19.87 US ft • Heading: 7.110 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 51.51 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.95 US ft • Target Height: 0.00 US ft • Target Length: 3.63 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Likely derelict fishing gear.

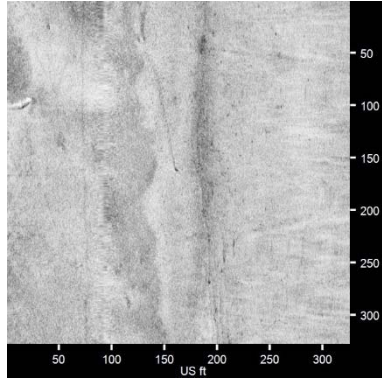
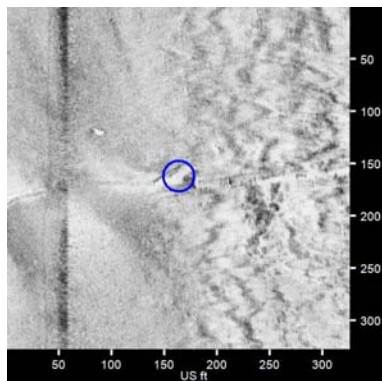
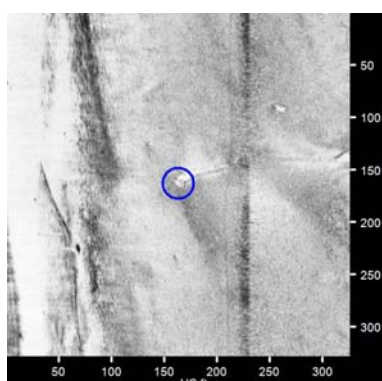
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0145</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 12:03:13 PM • Click Position 41.2674632825 -72.9120901193 (WGS84) (X) 955439.35 (Y) 658221.45 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1141.HSX • Ping Number: 35718 • Range to target: 89.80 US ft • Fish Height: 37.72 US ft • Heading: 5.730 Degrees • Event Number: 76 • Line Name: 012_1141 • Water Depth: 119.75 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.87 US ft • Target Height: 2.55 US ft • Target Length: 6.31 US ft • Target Shadow: 7.06 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.
	<p>NHH0146</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:07:53 PM • Click Position 41.2685920270 -72.9115175357 (WGS84) (X) 955597.53 (Y) 658632.43 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 89048 • Range to target: 86.63 US ft • Fish Height: 40.15 US ft • Heading: 354.210 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 114.83 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 8.09 US ft • Target Height: 0.00 US ft • Target Length: 7.44 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Unknown target on edge of channel. Flush with bottom. Possible disturbed sediment or area of coarse material.
	<p>NHH0147</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:08:04 PM • Click Position 41.2688259897 -72.9114405087 (WGS84) (X) 955618.86 (Y) 658717.64 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 89125 • Range to target: 73.19 US ft • Fish Height: 43.67 US ft • Heading: 358.820 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 122.70 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.30 US ft • Target Height: 1.70 US ft • Target Length: 1.72 US ft • Target Shadow: 3.45 US ft • Classification1: Unknown • Classification2: • Description: Unknown target on edge of channel. Possible derelict fishing gear or debris.

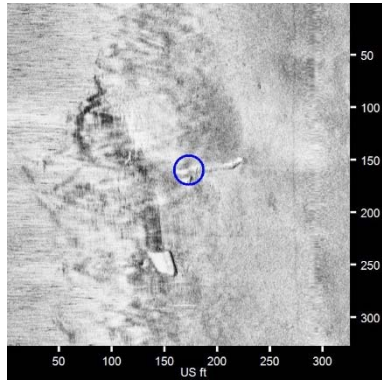
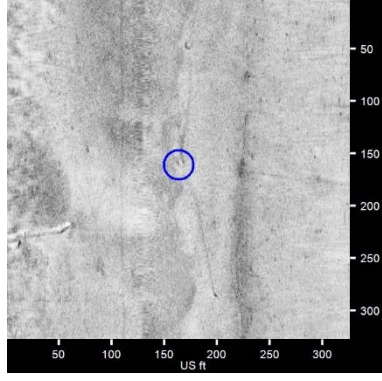
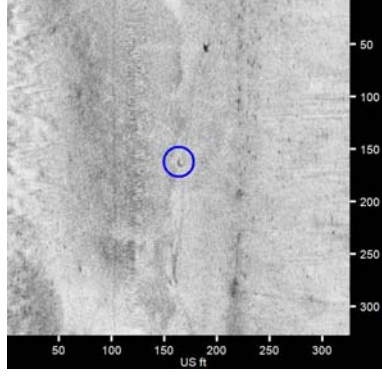
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	<p>NHH0148</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:08:13 PM • Click Position 41.2690351087 -72.9114381093 (WGS84) (X) 955619.66 (Y) 658793.83 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\013_1346.HSX • Ping Number: 89193 • Range to target: 77.64 US ft • Fish Height: 44.95 US ft • Heading: 5.670 Degrees • Event Number: 93 • Line Name: 013_1346 • Water Depth: 123.36 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.84 US ft • Target Height: 0.00 US ft • Target Length: 2.84 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Unknown target on edget of channel. Flush with bottom. Possible derelict fishing gear or debris.
	<p>NHH0149</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:03:27 PM • Click Position 41.2692853934 -72.9135544057 (WGS84) (X) 955038.05 (Y) 658886.12 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 91395 • Range to target: 28.20 US ft • Fish Height: 24.88 US ft • Heading: 186.670 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 57.74 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.43 US ft • Target Height: 3.08 US ft • Target Length: 2.63 US ft • Target Shadow: 5.30 US ft • Classification1: Pipeline debris • Classification2: • Description: Target adjacent to nav obstruction outside channel. Likely derelict mooring or debris.
	<p>NHH0150</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:05:59 PM • Click Position 41.2692915052 -72.9127143725 (WGS84) (X) 955268.99 (Y) 658887.91 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118141 • Range to target: 69.79 US ft • Fish Height: 27.41 US ft • Heading: 11.080 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 81.69 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.80 US ft • Target Height: 0.00 US ft • Target Length: 2.26 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of traps with line between. No surface buoy.

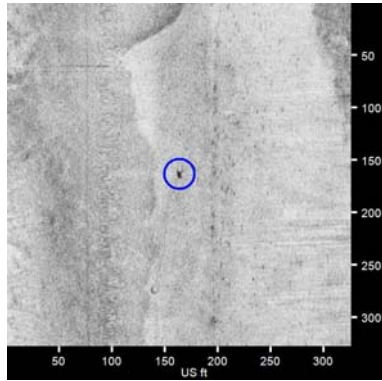
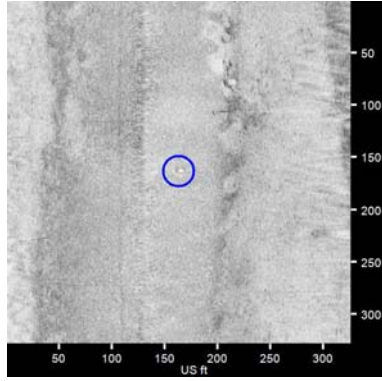
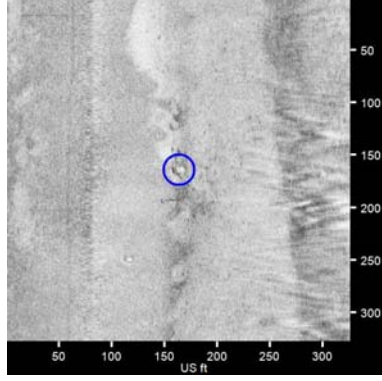
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	<p>NHH0151</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:05:59 PM • Click Position 41.2692941173 -72.9127089566 (WGS84) (X) 955270.48 (Y) 658888.86 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118142 • Range to target: 71.13 US ft • Fish Height: 27.42 US ft • Heading: 10.740 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 79.72 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.75 US ft • Target Height: 0.00 US ft • Target Length: 1.74 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of traps. No surface buoy.
	<p>NHH0152</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:03:22 PM • Click Position 41.2694319791 -72.9138080860 (WGS84) (X) 954968.42 (Y) 658939.66 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 91359 • Range to target: 105.09 US ft • Fish Height: 25.52 US ft • Heading: 187.950 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 67.59 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.86 US ft • Target Height: 0.00 US ft • Target Length: 30.71 US ft • Target Shadow: 0.00 US ft • Classification1: Pipeline debris • Classification2: • Description: Linear target extending west of channel. Appears to be sections of a large pipeline. Vicinity of nav chart obstruction. Investigated with ROV.
	<p>NHH0153</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 5:03:19 PM • Click Position 41.2694420143 -72.9131724286 (WGS84) (X) 955143.17 (Y) 658942.99 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 91334 • Range to target: 67.20 US ft • Fish Height: 25.20 US ft • Heading: 187.130 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 65.94 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.84 US ft • Target Height: 0.00 US ft • Target Length: 5.31 US ft • Target Shadow: 0.00 US ft • Classification1: Pipeline • Classification2: • Description: Head of exposed pipeline extending west of channel. Investigated with ROV.

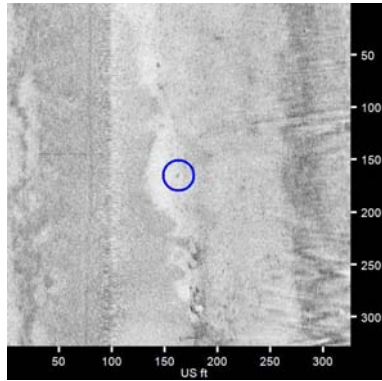
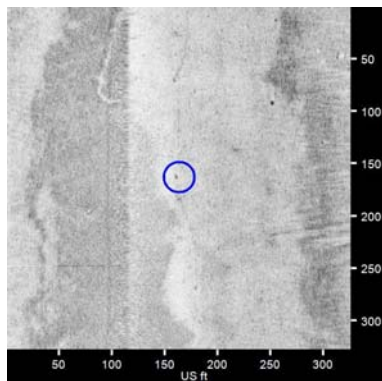
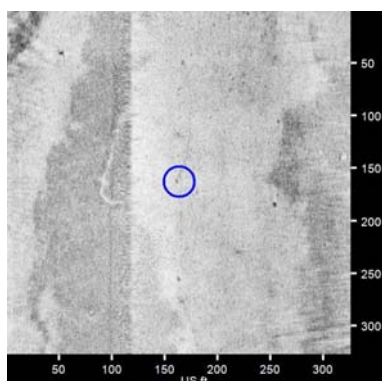
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0154</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:06:06 PM • Click Position 41.2694834296 -72.9133772792 (WGS84) (X) 955086.88 (Y) 658958.18 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118185 • Range to target: 119.57 US ft • Fish Height: 27.73 US ft • Heading: 3.020 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 81.69 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.67 US ft • Target Height: 0.00 US ft • Target Length: 3.50 US ft • Target Shadow: 0.00 US ft • Classification1: Pipeline debris • Classification2: • Description: Irregular target associated with navigation obstruction to west. Likely debris.
	<p>NHH0155</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:06:15 PM • Click Position 41.2696506300 -72.9127985631 (WGS84) (X) 955246.09 (Y) 659018.81 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118253 • Range to target: 33.96 US ft • Fish Height: 28.16 US ft • Heading: 1.300 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 83.99 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.24 US ft • Target Height: 0.00 US ft • Target Length: 3.36 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of traps with line between. No surface buoy.
	<p>NHH0156</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:06:29 PM • Click Position 41.2699707574 -72.9127505796 (WGS84) (X) 955259.50 (Y) 659135.42 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118356 • Range to target: 41.01 US ft • Fish Height: 28.46 US ft • Heading: 2.650 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 81.69 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.27 US ft • Target Height: 0.00 US ft • Target Length: 3.59 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of traps with line between. No surface buoy.

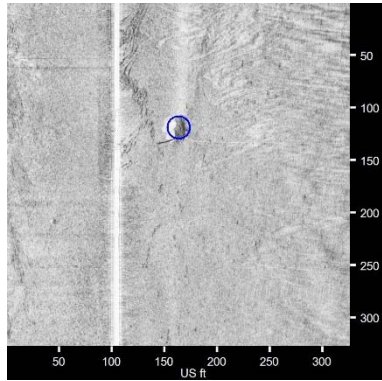
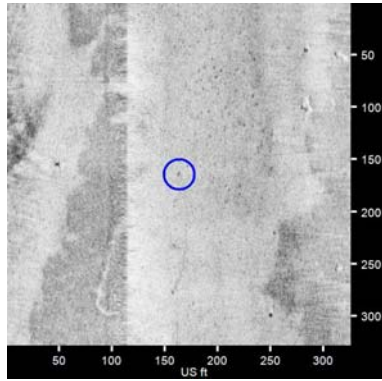
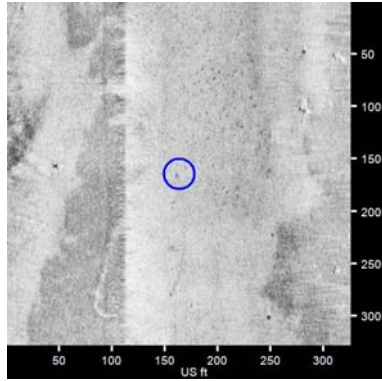
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0157</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:06:42 PM • Click Position 41.2702637061 -72.9126357920 (WGS84) (X) 955291.26 (Y) 659242.10 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118452 • Range to target: 66.64 US ft • Fish Height: 27.82 US ft • Heading: 5.460 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 81.36 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.43 US ft • Target Height: 0.00 US ft • Target Length: 2.29 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of traps with line between. No surface buoy.
	<p>NHH0158</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:07:39 PM • Click Position 41.2715449030 -72.9125792580 (WGS84) (X) 955307.68 (Y) 659708.90 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118858 • Range to target: 33.28 US ft • Fish Height: 31.95 US ft • Heading: 3.420 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 89.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.90 US ft • Target Height: 0.00 US ft • Target Length: 2.90 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Unknown target adjacent to channel. Possible derelict mooring.
	<p>NHH0159</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:07:50 PM • Click Position 41.2717737076 -72.9123793709 (WGS84) (X) 955362.78 (Y) 659792.16 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 118932 • Range to target: 81.92 US ft • Fish Height: 29.73 US ft • Heading: 1.280 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 85.96 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.81 US ft • Target Height: 1.86 US ft • Target Length: 5.36 US ft • Target Shadow: 5.83 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G15. Line visible in other files.

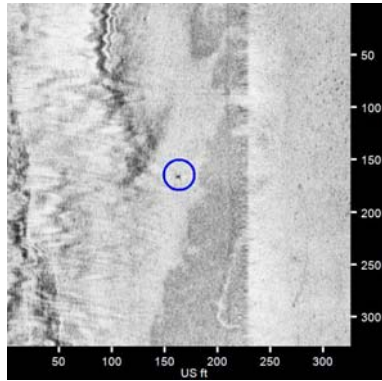
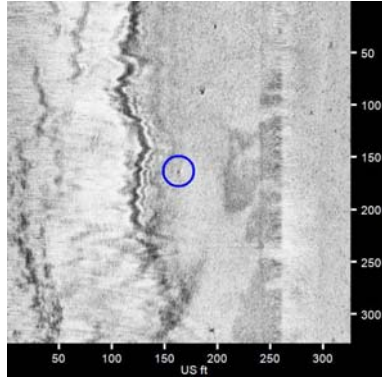
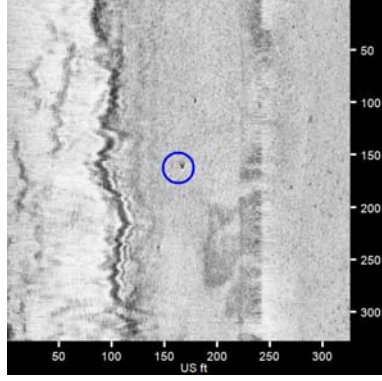
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	<p>NHH0160</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:08:05 PM • Click Position 41.2721296362 -72.9124188792 (WGS84) (X) 955352.16 (Y) 659921.87 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119041 • Range to target: 64.66 US ft • Fish Height: 32.59 US ft • Heading: 2.580 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 95.14 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.46 US ft • Target Height: 0.00 US ft • Target Length: 2.46 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0161</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:08:18 PM • Click Position 41.2724212846 -72.9124728509 (WGS84) (X) 955337.53 (Y) 660028.16 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119131 • Range to target: 47.59 US ft • Fish Height: 32.58 US ft • Heading: 2.580 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 97.44 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.39 US ft • Target Height: 0.00 US ft • Target Length: 2.32 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0162</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:08:29 PM • Click Position 41.2726787697 -72.9124829742 (WGS84) (X) 955334.92 (Y) 660121.99 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119211 • Range to target: 45.32 US ft • Fish Height: 34.63 US ft • Heading: 358.110 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 104.33 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.32 US ft • Target Height: 1.03 US ft • Target Length: 2.32 US ft • Target Shadow: 1.74 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.

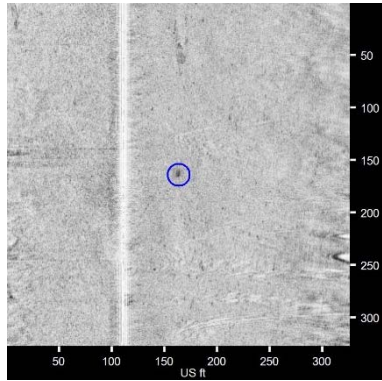
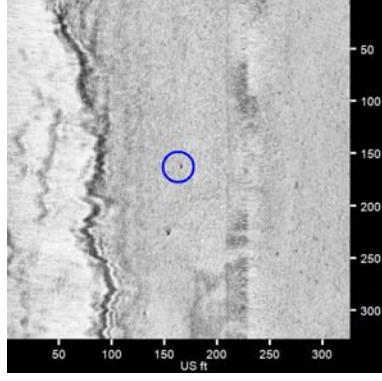
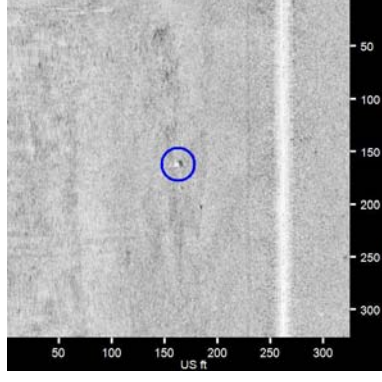
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	<p>NHH0163</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:01:12 PM • Click Position 41.2727712689 -72.9106755616 (WGS84) (X) 955831.82 (Y) 660154.76 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1440.HSX • Ping Number: 111855 • Range to target: 59.17 US ft • Fish Height: 27.77 US ft • Heading: 179.840 Degrees • Event Number: 97 • Line Name: 014_1440 • Water Depth: 80.38 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 9.30 US ft • Target Height: 0.00 US ft • Target Length: 10.52 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R16. Line visible.
	<p>NHH0164</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:08:43 PM • Click Position 41.2729945526 -72.9124840305 (WGS84) (X) 955334.85 (Y) 660237.05 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119309 • Range to target: 49.16 US ft • Fish Height: 34.81 US ft • Heading: 355.560 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 102.36 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.46 US ft • Target Height: 0.00 US ft • Target Length: 2.46 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0165</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:08:43 PM • Click Position 41.2730012592 -72.9124780333 (WGS84) (X) 955336.50 (Y) 660239.49 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119311 • Range to target: 50.94 US ft • Fish Height: 34.49 US ft • Heading: 355.660 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 103.35 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.83 US ft • Target Height: 0.64 US ft • Target Length: 1.83 US ft • Target Shadow: 1.16 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.

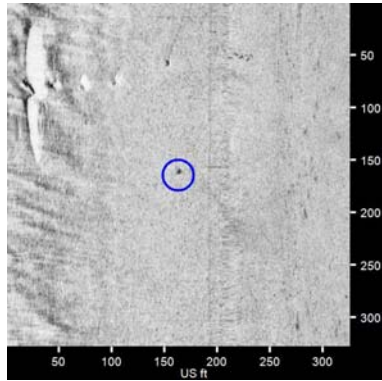
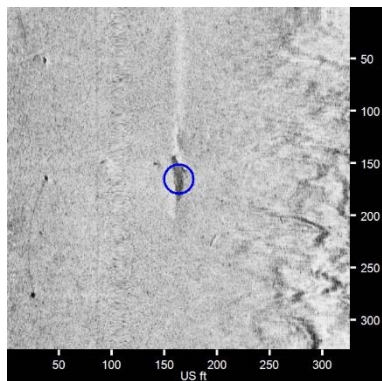
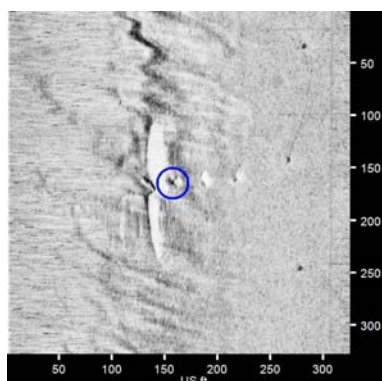
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	<p>NHH0166</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:08:44 PM • Click Position 41.2730086391 -72.9129026642 (WGS84) (X) 955219.78 (Y) 660242.40 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119319 • Range to target: 65.46 US ft • Fish Height: 33.86 US ft • Heading: 355.980 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 103.02 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.32 US ft • Target Height: 0.00 US ft • Target Length: 2.32 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0167</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:09:02 PM • Click Position 41.2734014992 -72.9130609345 (WGS84) (X) 955176.54 (Y) 660385.62 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119448 • Range to target: 97.35 US ft • Fish Height: 34.18 US ft • Heading: 350.090 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 103.67 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.32 US ft • Target Height: 0.00 US ft • Target Length: 2.32 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0168</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:09:11 PM • Click Position 41.2736083166 -72.9130200752 (WGS84) (X) 955187.92 (Y) 660460.96 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119512 • Range to target: 78.49 US ft • Fish Height: 33.22 US ft • Heading: 352.220 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 99.74 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.40 US ft • Target Height: 0.67 US ft • Target Length: 2.33 US ft • Target Shadow: 1.75 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.

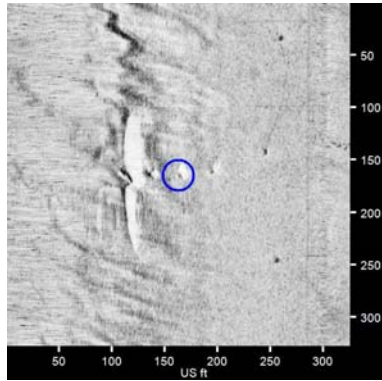
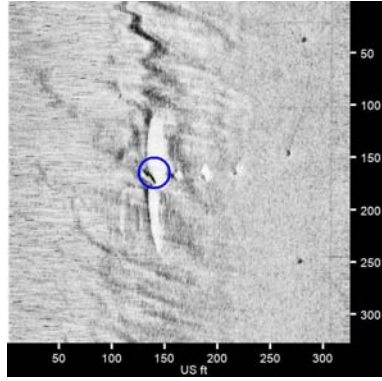
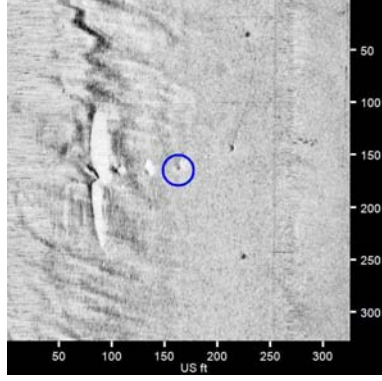
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	<p>NHH0169</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:00:16 PM • Click Position 41.2737045130 -72.9107446978 (WGS84) (X) 955813.45 (Y) 660494.84 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1440.HSX • Ping Number: 111454 • Range to target: 52.36 US ft • Fish Height: 32.30 US ft • Heading: 177.270 Degrees • Event Number: 97 • Line Name: 014_1440 • Water Depth: 95.80 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.39 US ft • Target Height: 0.00 US ft • Target Length: 5.46 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Debris • Description: Unkown rectangular target on edge of channel. Possibly buried or flush with bottom. Likely debris or rock.
	<p>NHH0170</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:09:19 PM • Click Position 41.2737875006 -72.9129970421 (WGS84) (X) 955194.37 (Y) 660526.23 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 119567 • Range to target: 65.42 US ft • Fish Height: 32.50 US ft • Heading: 355.840 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 97.11 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.76 US ft • Target Height: 0.51 US ft • Target Length: 2.34 US ft • Target Shadow: 1.17 US ft • Classification1: Fishing gear • Classification2: • Description: String of square targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0171</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:58:13 AM • Click Position 41.2759144986 -72.9118780819 (WGS84) (X) 955503.41 (Y) 661300.66 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 7914 • Range to target: 99.33 US ft • Fish Height: 39.40 US ft • Heading: 179.280 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 119.09 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.17 US ft • Target Height: 1.11 US ft • Target Length: 3.10 US ft • Target Shadow: 3.11 US ft • Classification1: Debris • Classification2: • Description: Unknown square target in channel with two smaller targets to the south. Likely debris or derelict fishing gear.

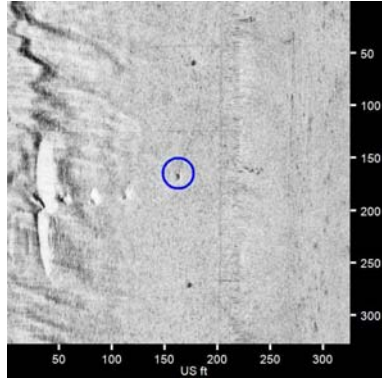
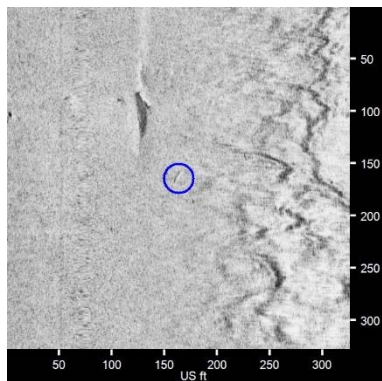
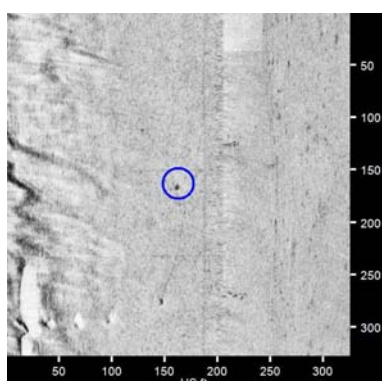
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	<p>NHH0172</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:11:47 PM • Click Position 41.2771864676 -72.9132956619 (WGS84) (X) 955114.63 (Y) 661764.85 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 120621 • Range to target: 47.95 US ft • Fish Height: 28.44 US ft • Heading: 0.780 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 83.33 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.35 US ft • Target Height: 0.00 US ft • Target Length: 3.52 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of rectangular targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0173</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 4:57:21 PM • Click Position 41.2773719917 -72.9137365347 (WGS84) (X) 954993.57 (Y) 661832.68 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 88782 • Range to target: 56.39 US ft • Fish Height: 25.53 US ft • Heading: 172.520 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 68.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 10.03 US ft • Target Height: 0.00 US ft • Target Length: 47.50 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Wreckage • Description: Large irregular target adjacent to channel. Partially buried. Likely wreckage or debris. Visible on other survey lines
	<p>NHH0174</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:11:57 PM • Click Position 41.2774043440 -72.9137428303 (WGS84) (X) 954991.86 (Y) 661844.47 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 120693 • Range to target: 167.91 US ft • Fish Height: 29.37 US ft • Heading: 356.050 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 86.94 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: String of unknown square targets adjacent to both fishing gear and debris. Possibly fishing gear.

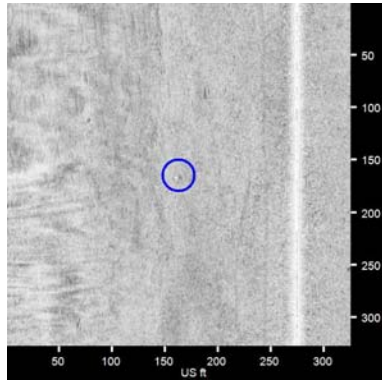
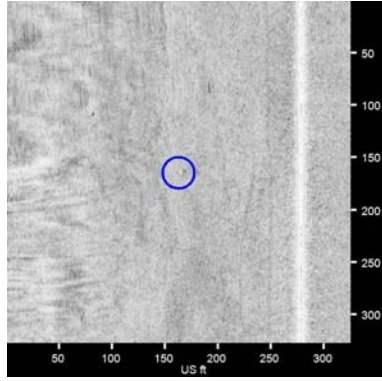
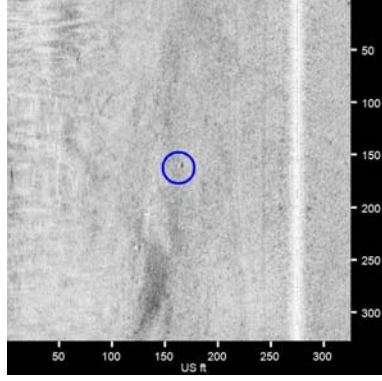
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0175</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:11:57 PM • Click Position 41.2774072022 -72.9136432140 (WGS84) (X) 955019.25 (Y) 661845.46 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 120693 • Range to target: 140.50 US ft • Fish Height: 29.37 US ft • Heading: 356.050 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 86.94 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.85 US ft • Target Height: 0.00 US ft • Target Length: 2.34 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: String of unknown square targets adjacent to both fishing gear and debris. Possibly fishing gear.
	<p>NHH0176</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:11:57 PM • Click Position 41.2774119468 -72.9138070721 (WGS84) (X) 954974.21 (Y) 661847.27 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 120696 • Range to target: 185.45 US ft • Fish Height: 29.37 US ft • Heading: 356.400 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 87.27 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 19.86 US ft • Target Height: 0.00 US ft • Target Length: 129.04 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: Possible Wreckage • Description: Large irregular target adjacent to channel. Partially buried. Likely wreckage or debris. Visible on other survey lines.
	<p>NHH0177</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:11:57 PM • Click Position 41.2774136666 -72.9135284456 (WGS84) (X) 955050.80 (Y) 661847.75 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 120694 • Range to target: 108.89 US ft • Fish Height: 29.37 US ft • Heading: 356.400 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 84.65 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.75 US ft • Target Height: 0.00 US ft • Target Length: 2.34 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: String of unknown square targets adjacent to both fishing gear and debris. Possibly fishing gear.

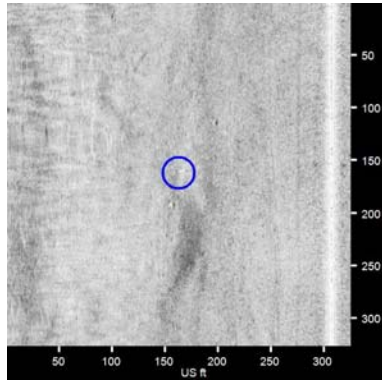
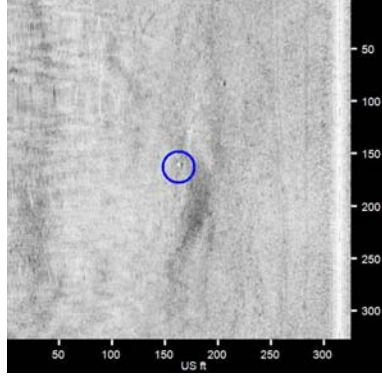
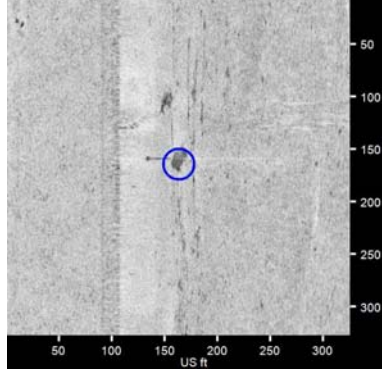
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0178</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:12:00 PM • Click Position 41.2774857221 -72.9133457683 (WGS84) (X) 955101.06 (Y) 661873.91 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 120715 • Range to target: 57.69 US ft • Fish Height: 29.35 US ft • Heading: 355.950 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 86.29 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.92 US ft • Target Height: 0.00 US ft • Target Length: 3.55 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of rectangular targets adjacent to channel. Line visible. Likely fishing gear.
	<p>NHH0179</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 4:57:13 PM • Click Position 41.2775215373 -72.9138916417 (WGS84) (X) 954951.04 (Y) 661887.25 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_1642.HSX • Ping Number: 88728 • Range to target: 90.68 US ft • Fish Height: 25.52 US ft • Heading: 174.350 Degrees • Event Number: 53 • Line Name: 007_1642 • Water Depth: 68.57 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.12 US ft • Target Height: 0.45 US ft • Target Length: 9.77 US ft • Target Shadow: 1.68 US ft • Classification1: Unknown • Classification2: Debris • Description: Linear target adjacent to several large targets. Likely debris.
	<p>NHH0180</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:12:13 PM • Click Position 41.2777817332 -72.9133090022 (WGS84) (X) 955111.37 (Y) 661981.75 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 120808 • Range to target: 42.13 US ft • Fish Height: 29.21 US ft • Heading: 359.670 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 87.60 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.41 US ft • Target Height: 0.00 US ft • Target Length: 3.55 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: String of rectangular targets adjacent to channel. Line visible. Likely fishing gear.

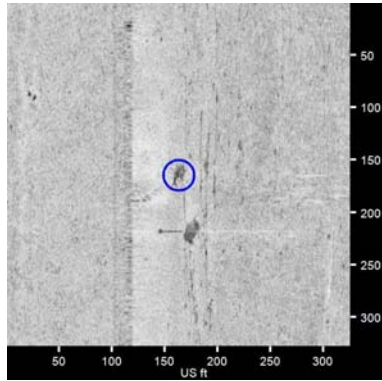
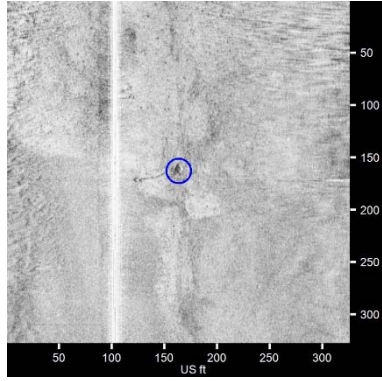
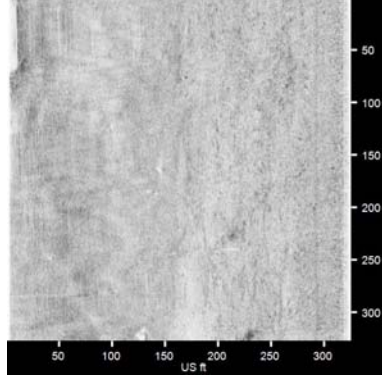
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0181</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:56:47 AM • Click Position 41.2779254425 -72.9121267350 (WGS84) (X) 955436.44 (Y) 662033.50 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 7303 • Range to target: 111.35 US ft • Fish Height: 40.69 US ft • Heading: 189.610 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 114.50 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.80 US ft • Target Height: 1.01 US ft • Target Length: 1.90 US ft • Target Shadow: 3.01 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown string of square targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0182</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:56:47 AM • Click Position 41.2779346689 -72.9121118816 (WGS84) (X) 955440.52 (Y) 662036.85 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 7300 • Range to target: 115.43 US ft • Fish Height: 40.69 US ft • Heading: 188.930 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 114.83 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.90 US ft • Target Height: 0.00 US ft • Target Length: 1.80 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown string of square targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0183</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:56:18 AM • Click Position 41.2786076026 -72.9121072926 (WGS84) (X) 955442.25 (Y) 662282.04 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 7097 • Range to target: 111.35 US ft • Fish Height: 38.78 US ft • Heading: 173.600 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.47 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.40 US ft • Target Height: 0.77 US ft • Target Length: 2.39 US ft • Target Shadow: 2.40 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown string of square targets in channel. Proud of bottom. Likely derelict fishing gear or debris.

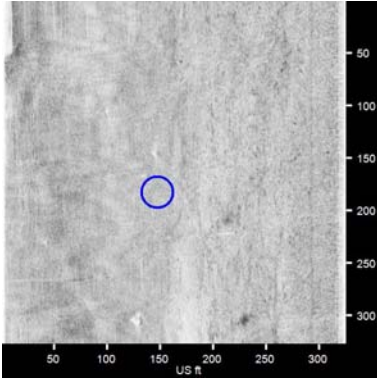
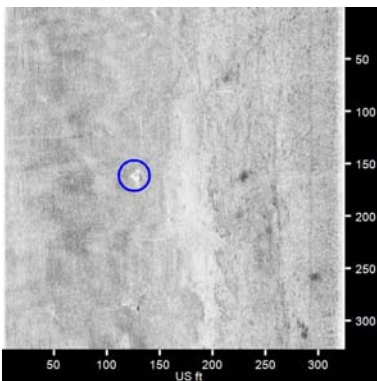
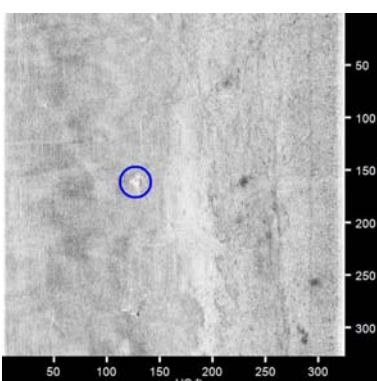
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0184</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:56:13 AM • Click Position 41.2787465594 -72.9119925944 (WGS84) (X) 955473.87 (Y) 662332.62 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 7059 • Range to target: 144.13 US ft • Fish Height: 38.98 US ft • Heading: 178.210 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.14 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.80 US ft • Target Height: 1.21 US ft • Target Length: 1.79 US ft • Target Shadow: 4.79 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown string of square targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0185</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:56:09 AM • Click Position 41.2788446163 -72.9119728955 (WGS84) (X) 955479.35 (Y) 662368.33 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 7032 • Range to target: 151.47 US ft • Fish Height: 38.80 US ft • Heading: 177.000 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.14 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.79 US ft • Target Height: 0.58 US ft • Target Length: 1.88 US ft • Target Shadow: 2.39 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown string of square targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0186</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:13:13 PM • Click Position 41.2791701454 -72.9131350107 (WGS84) (X) 955160.15 (Y) 662487.55 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 121236 • Range to target: 55.75 US ft • Fish Height: 26.75 US ft • Heading: 358.510 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 79.72 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 10.36 US ft • Target Height: 0.00 US ft • Target Length: 10.47 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for G17. Line visible.

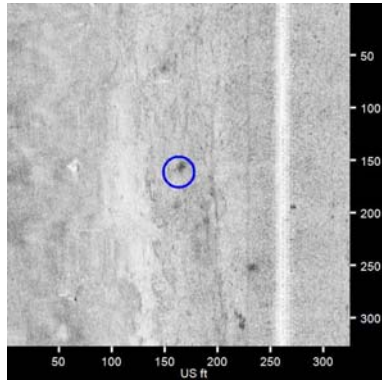
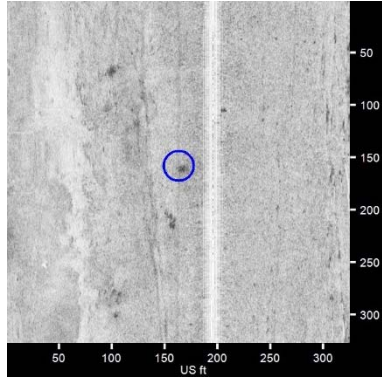
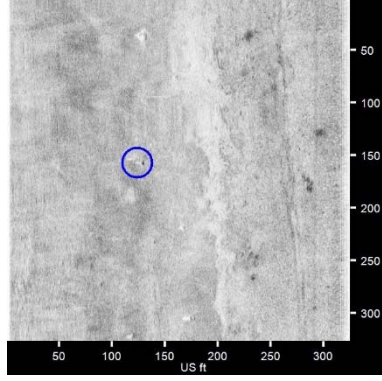
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	<p>NHH0187</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:13:20 PM • Click Position 41.2793252498 -72.9131861864 (WGS84) (X) 955146.19 (Y) 662544.09 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 121286 • Range to target: 43.99 US ft • Fish Height: 26.33 US ft • Heading: 358.180 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 75.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 9.43 US ft • Target Height: 0.00 US ft • Target Length: 9.43 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Rectangular target in the vicinity of G17. Possible derelict mooring.
	<p>NHH0188</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:54:35 PM • Click Position 41.2795287035 -72.9113491532 (WGS84) (X) 955651.26 (Y) 662617.27 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\014_1440.HSX • Ping Number: 109028 • Range to target: 60.59 US ft • Fish Height: 30.71 US ft • Heading: 178.630 Degrees • Event Number: 97 • Line Name: 014_1440 • Water Depth: 95.14 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.30 US ft • Target Height: 0.00 US ft • Target Length: 5.24 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R18. Line visible.
	<p>NHH0189</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:55:31 AM • Click Position 41.2796972154 -72.9119449504 (WGS84) (X) 955487.61 (Y) 662678.98 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6760 • Range to target: 182.40 US ft • Fish Height: 38.78 US ft • Heading: 181.880 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 117.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.78 US ft • Target Height: 0.85 US ft • Target Length: 2.45 US ft • Target Shadow: 4.16 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.

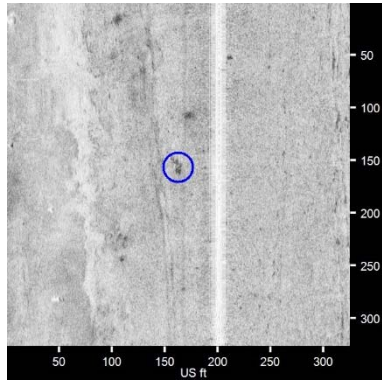
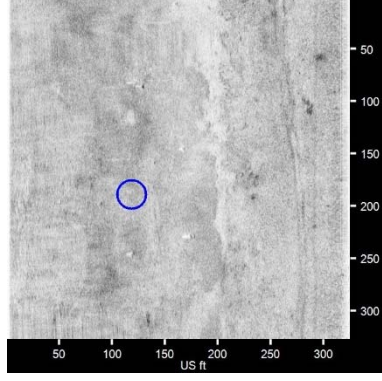
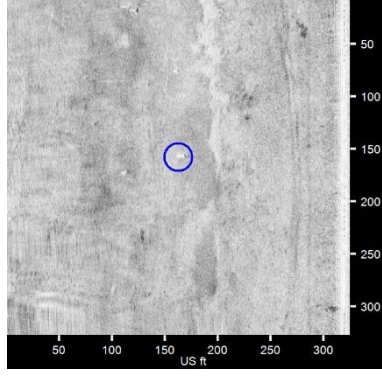
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0190</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:55:29 AM • Click Position 41.2796972766 -72.9119595859 (WGS84) (X) 955483.59 (Y) 662679.01 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6760 • Range to target: 178.38 US ft • Fish Height: 38.78 US ft • Heading: 181.880 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 117.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.45 US ft • Target Height: 0.98 US ft • Target Length: 2.45 US ft • Target Shadow: 4.75 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0191</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:55:13 AM • Click Position 41.2800718732 -72.9118500316 (WGS84) (X) 955513.96 (Y) 662815.44 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6627 • Range to target: 199.40 US ft • Fish Height: 38.76 US ft • Heading: 185.190 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.80 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.93 US ft • Target Height: 1.30 US ft • Target Length: 3.56 US ft • Target Shadow: 7.03 US ft • Classification1: Unknown • Classification2: Fishing gear • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0192</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:55:12 AM • Click Position 41.2800752170 -72.9118543127 (WGS84) (X) 955512.78 (Y) 662816.66 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6626 • Range to target: 198.10 US ft • Fish Height: 38.76 US ft • Heading: 185.190 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.80 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.93 US ft • Target Height: 1.30 US ft • Target Length: 4.14 US ft • Target Shadow: 7.03 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.

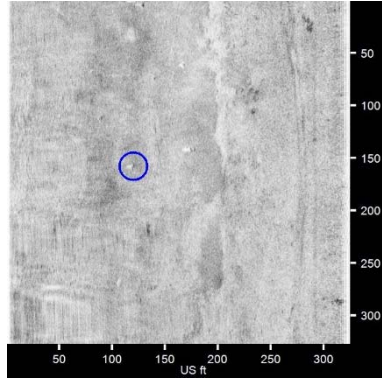
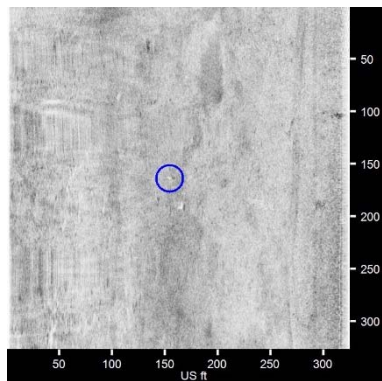
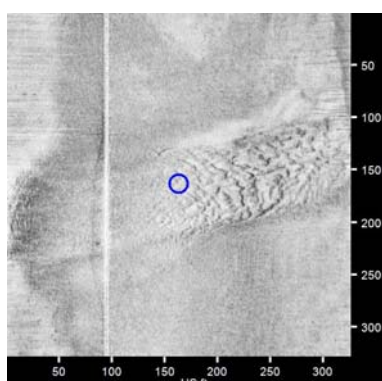
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	<p>NHH0193</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:55:12 AM • Click Position 41.2801182090 -72.9122129906 (WGS84) (X) 955414.23 (Y) 662832.51 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6622 • Range to target: 98.37 US ft • Fish Height: 38.76 US ft • Heading: 185.100 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.14 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.93 US ft • Target Height: 0.00 US ft • Target Length: 5.76 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0194</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:55:01 AM • Click Position 41.2803748345 -72.9124102011 (WGS84) (X) 955360.20 (Y) 662926.12 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6547 • Range to target: 32.56 US ft • Fish Height: 38.76 US ft • Heading: 191.490 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.14 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.69 US ft • Target Height: 0.00 US ft • Target Length: 2.90 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0195</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:54:57 AM • Click Position 41.2803950179 -72.9117859472 (WGS84) (X) 955531.79 (Y) 662933.15 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6519 • Range to target: 201.36 US ft • Fish Height: 38.76 US ft • Heading: 189.830 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 115.81 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.82 US ft • Target Height: 1.04 US ft • Target Length: 2.25 US ft • Target Shadow: 5.63 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.

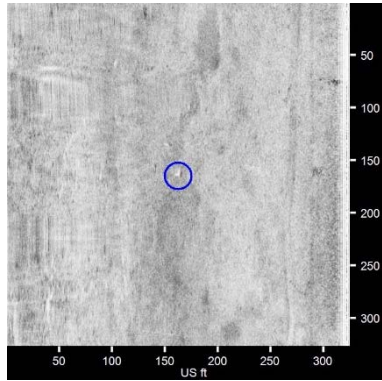
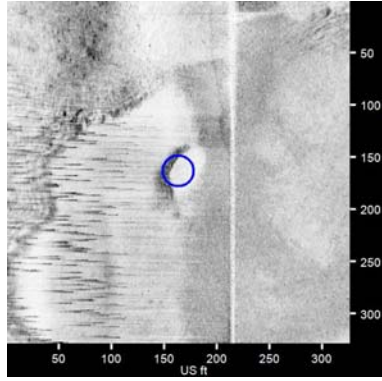
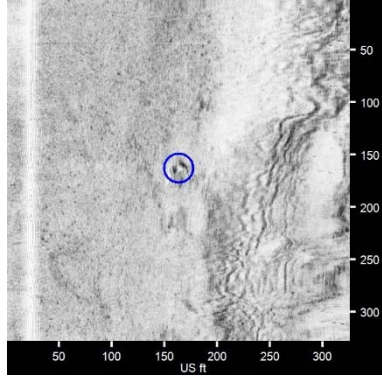
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	<p>NHH0196</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:54:55 AM • Click Position 41.2805174246 -72.9123619727 (WGS84) (X) 955373.55 (Y) 662978.05 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6500 • Range to target: 38.26 US ft • Fish Height: 38.76 US ft • Heading: 189.350 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 117.13 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.39 US ft • Target Height: 1.15 US ft • Target Length: 6.15 US ft • Target Shadow: 1.67 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0197</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:54:48 AM • Click Position 41.2805425210 -72.9117374718 (WGS84) (X) 955545.22 (Y) 662986.87 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6470 • Range to target: 206.83 US ft • Fish Height: 39.08 US ft • Heading: 190.610 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 118.44 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.72 US ft • Target Height: 0.20 US ft • Target Length: 2.72 US ft • Target Shadow: 1.09 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0198</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:54:39 AM • Click Position 41.2808095943 -72.9118724739 (WGS84) (X) 955508.29 (Y) 663084.25 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6386 • Range to target: 156.68 US ft • Fish Height: 39.09 US ft • Heading: 188.120 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 118.44 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.20 US ft • Target Height: 0.00 US ft • Target Length: 3.16 US ft • Target Shadow: 0.00 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.

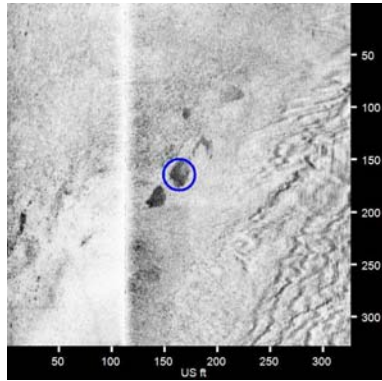
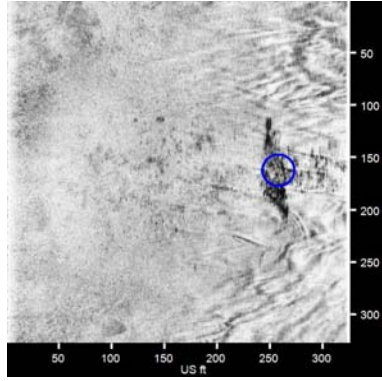
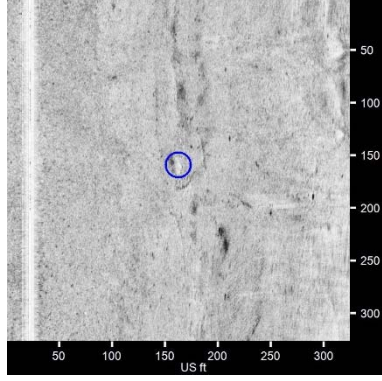
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	<p>NHH0199</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:54:37 AM • Click Position 41.2808315716 -72.9116903141 (WGS84) (X) 955558.37 (Y) 663092.16 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6372 • Range to target: 205.22 US ft • Fish Height: 39.04 US ft • Heading: 188.980 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 117.78 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.16 US ft • Target Height: 0.86 US ft • Target Length: 2.82 US ft • Target Shadow: 4.72 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown string of rectangular targets in channel. Proud of bottom. Likely derelict fishing gear or debris.
	<p>NHH0200</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:54:11 AM • Click Position 41.2813368231 -72.9117241852 (WGS84) (X) 955549.41 (Y) 663276.28 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6190 • Range to target: 170.59 US ft • Fish Height: 38.75 US ft • Heading: 190.430 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.47 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.03 US ft • Target Height: 0.88 US ft • Target Length: 2.02 US ft • Target Shadow: 4.04 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown rectangular target in channel. Line visible. Likely derelict fishing gear.
	<p>NHH0201</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:09:47 PM • Click Position 41.2813544982 -72.9102193871 (WGS84) (X) 955963.02 (Y) 663281.95 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1503.HSX • Ping Number: 115525 • Range to target: 68.58 US ft • Fish Height: 18.86 US ft • Heading: 6.410 Degrees • Event Number: 99 • Line Name: 015_1503 • Water Depth: 44.29 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 737.56 US ft • Target Shadow: 0.00 US ft • Classification1: Sewer Outfall • Classification2: • Description: Sewer outfall

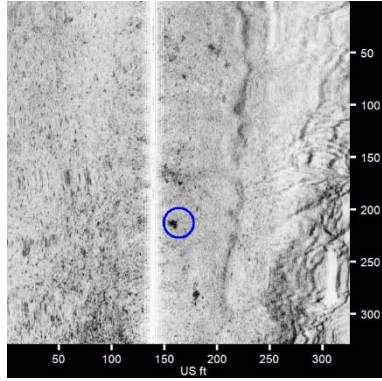
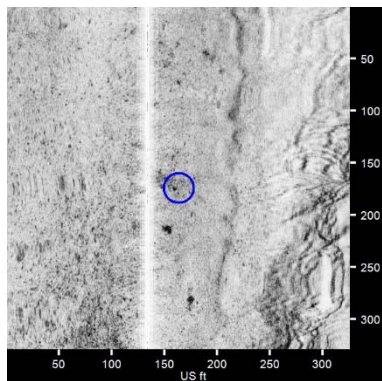
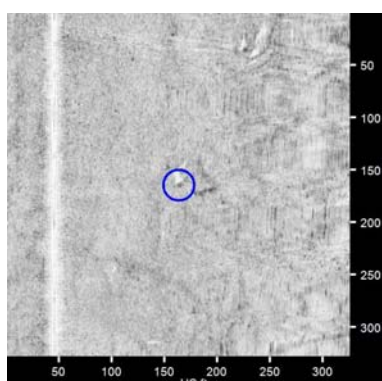
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	<p>NHH0202</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:54:07 AM • Click Position 41.2814176325 -72.9117489051 (WGS84) (X) 955542.67 (Y) 663305.73 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 6161 • Range to target: 159.40 US ft • Fish Height: 38.75 US ft • Heading: 189.940 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 116.47 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.02 US ft • Target Height: 0.82 US ft • Target Length: 4.07 US ft • Target Shadow: 3.54 US ft • Classification1: Fishing gear • Classification2: • Description: Unknown rectangular target in channel. Line visible. Likely derelict fishing gear.
	<p>NHH0203</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:10:12 PM • Click Position 41.2819709821 -72.9105504236 (WGS84) (X) 955872.45 (Y) 663506.74 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1503.HSX • Ping Number: 115706 • Range to target: 51.56 US ft • Fish Height: 13.06 US ft • Heading: 7.100 Degrees • Event Number: 99 • Line Name: 015_1503 • Water Depth: 22.31 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 15.32 US ft • Target Height: 4.66 US ft • Target Length: 53.18 US ft • Target Shadow: 29.48 US ft • Classification1: Area of coarse sediment • Classification2: • Description: Large gravel/shell reef adjacent to edge of channel.
	<p>NHH0204</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:29:05 PM • Click Position 41.2821656227 -72.9108852415 (WGS84) (X) 955780.56 (Y) 663577.83 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1422.HSX • Ping Number: 98118 • Range to target: 140.12 US ft • Fish Height: 43.59 US ft • Heading: 7.580 Degrees • Event Number: 95 • Line Name: 012_1422 • Water Depth: 131.56 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.71 US ft • Target Height: 1.12 US ft • Target Length: 5.62 US ft • Target Shadow: 3.86 US ft • Classification1: Mooring • Classification2: • Description: Mooring for R20. No line visible.

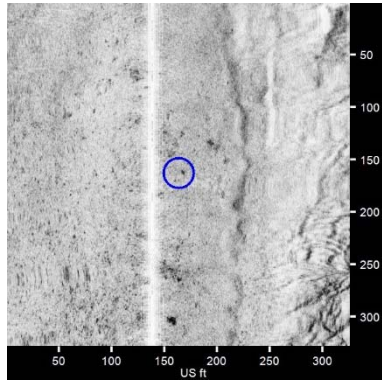
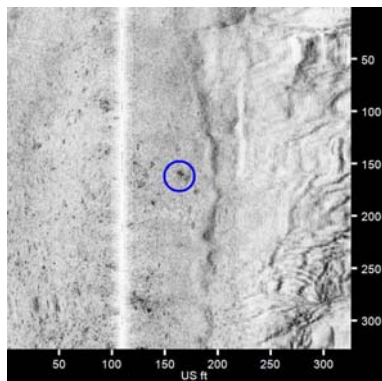
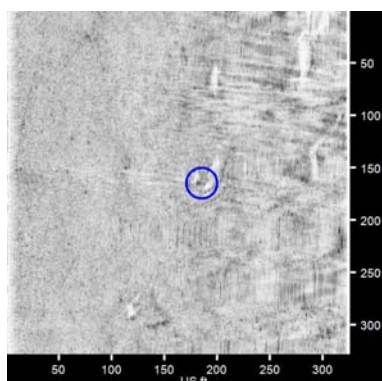
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	<p>NHH0205</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:10:53 PM • Click Position 41.2828897560 -72.9100156038 (WGS84) (X) 956020.07 (Y) 663841.24 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1503.HSX • Ping Number: 116002 • Range to target: 51.14 US ft • Fish Height: 45.67 US ft • Heading: 3.520 Degrees • Event Number: 99 • Line Name: 015_1503 • Water Depth: 132.22 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Disturbed sediment at base of channel slope. Partially buried macroalgae at depth suggesting slumped material. Investigated with ROV.
	<p>NHH0206</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:11:20 PM • Click Position 41.2833946789 -72.9091282858 (WGS84) (X) 956264.28 (Y) 664024.76 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_1503.HSX • Ping Number: 116191 • Range to target: 257.30 US ft • Fish Height: 46.39 US ft • Heading: 10.390 Degrees • Event Number: 99 • Line Name: 015_1503 • Water Depth: 134.84 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Dolphin foundation • Classification2: • Description: Dolphins adjacent to terminal facility.
	<p>NHH0207</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 10:52:01 AM • Click Position 41.2840249576 -72.9123458129 (WGS84) (X) 955380.39 (Y) 664256.06 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\010_1049.HSX • Ping Number: 5261 • Range to target: 140.04 US ft • Fish Height: 39.36 US ft • Heading: 196.750 Degrees • Event Number: 66 • Line Name: 010_1049 • Water Depth: 115.16 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.24 US ft • Target Height: 0.88 US ft • Target Length: 12.18 US ft • Target Shadow: 3.32 US ft • Classification1: Rock • Classification2: • Description: Irregular target in channel. Likely rock.

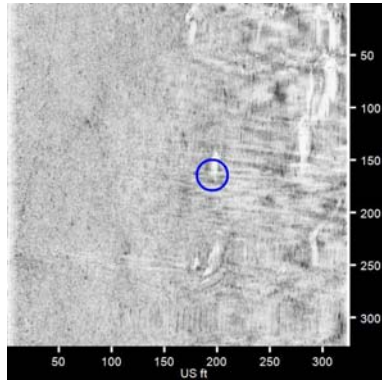
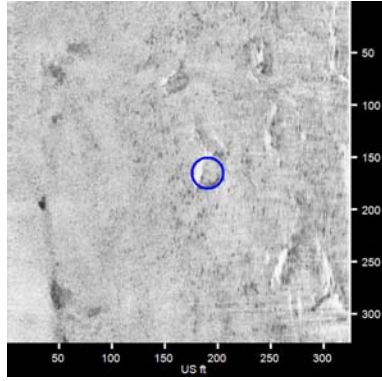
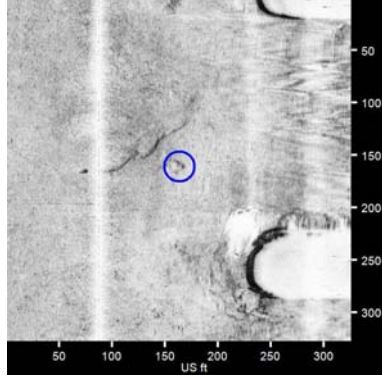
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	<p>NHH0208</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:14:58 PM • Click Position 41.2854408465 -72.9092460673 (WGS84) (X) 956233.29 (Y) 664770.37 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\016_1514.HSX • Ping Number: 117749 • Range to target: 24.12 US ft • Fish Height: 40.83 US ft • Heading: 2.750 Degrees • Event Number: 101 • Line Name: 016_1514 • Water Depth: 122.70 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.15 US ft • Target Height: 0.00 US ft • Target Length: 5.24 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Unknown square target on edge of channel. Possible derelict mooring.
	<p>NHH0209</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:15:03 PM • Click Position 41.2854449941 -72.9092165920 (WGS84) (X) 956241.46 (Y) 664808.30 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\016_1514.HSX • Ping Number: 117783 • Range to target: 29.30 US ft • Fish Height: 41.28 US ft • Heading: 4.860 Degrees • Event Number: 101 • Line Name: 016_1514 • Water Depth: 123.69 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.06 US ft • Target Height: 0.00 US ft • Target Length: 2.54 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Unknown square target adjacent to channel. Possible derelict mooring. Two similar but larger targets to the south.
	<p>NHH0210</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:31:43 PM • Click Position 41.2856540864 -72.9102938902 (WGS84) (X) 955945.45 (Y) 664848.60 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1422.HSX • Ping Number: 99241 • Range to target: 118.01 US ft • Fish Height: 42.99 US ft • Heading: 5.320 Degrees • Event Number: 95 • Line Name: 012_1422 • Water Depth: 129.59 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.01 US ft • Target Height: 0.00 US ft • Target Length: 4.47 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Likely debris or derelict fishing gear. Similar targets to the north and south.

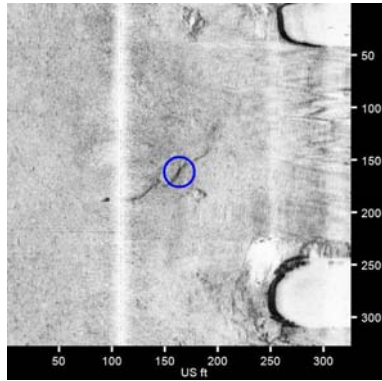
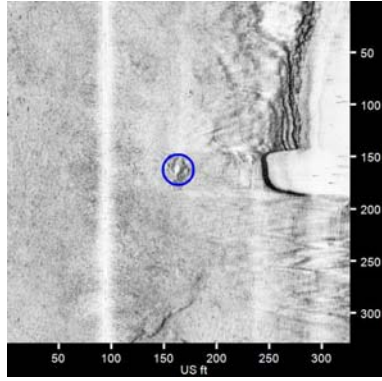
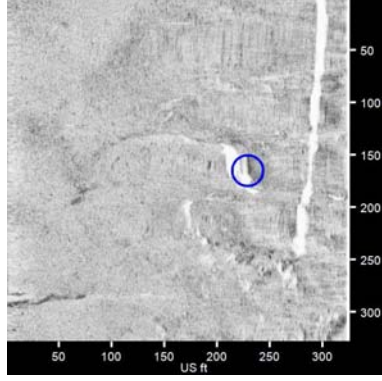
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	<p>NHH0211</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:15:16 PM • Click Position 41.2858186221 -72.9092019447 (WGS84) (X) 956245.67 (Y) 664908.00 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\016_1514.HSX • Ping Number: 117871 • Range to target: 25.02 US ft • Fish Height: 41.78 US ft • Heading: 8.050 Degrees • Event Number: 101 • Line Name: 016_1514 • Water Depth: 124.34 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.33 US ft • Target Height: 0.00 US ft • Target Length: 3.23 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Likely boulder or derelict mooring. Area of coarser sediment.
	<p>NHH0212</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:15:19 PM • Click Position 41.2858825603 -72.9090881082 (WGS84) (X) 956277.00 (Y) 664931.23 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\016_1514.HSX • Ping Number: 117894 • Range to target: 54.04 US ft • Fish Height: 41.15 US ft • Heading: 5.160 Degrees • Event Number: 101 • Line Name: 016_1514 • Water Depth: 125.00 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.61 US ft • Target Height: 0.00 US ft • Target Length: 4.46 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: • Description: Likely boulder or derelict mooring. Area of coarser sediment.
	<p>NHH0213</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:31:58 PM • Click Position 41.2859923286 -72.9099913083 (WGS84) (X) 956028.84 (Y) 664971.69 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1422.HSX • Ping Number: 99351 • Range to target: 184.77 US ft • Fish Height: 42.89 US ft • Heading: 4.500 Degrees • Event Number: 95 • Line Name: 012_1422 • Water Depth: 129.59 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 5.25 US ft • Target Height: 0.00 US ft • Target Length: 4.27 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Likely debris or derelict fishing gear. Similar targets to the north and south.

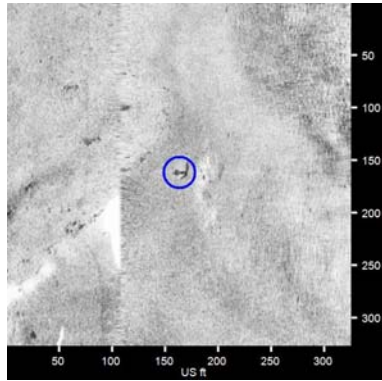
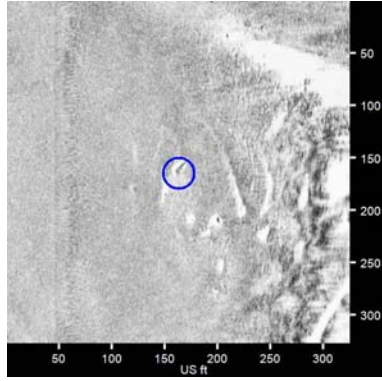
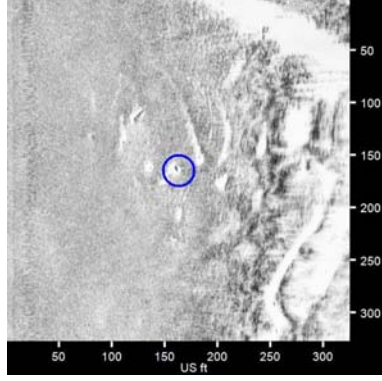
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	<p>NHH0214</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 2:32:09 PM • Click Position 41.2862391942 -72.9099191155 (WGS84) (X) 956048.85 (Y) 665061.60 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\012_1422.HSX • Ping Number: 99427 • Range to target: 194.64 US ft • Fish Height: 42.82 US ft • Heading: 0.430 Degrees • Event Number: 95 • Line Name: 012_1422 • Water Depth: 129.59 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Likely debris or derelict fishing gear. Similar targets to the north and south.
	<p>NHH0215</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:19:57 PM • Click Position 41.2882266568 -72.9110636301 (WGS84) (X) 955735.65 (Y) 665786.35 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 124116 • Range to target: 189.48 US ft • Fish Height: 32.50 US ft • Heading: 12.910 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 100.07 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 13.26 US ft • Target Height: 0.97 US ft • Target Length: 20.95 US ft • Target Shadow: 5.93 US ft • Classification1: Crepidula reefs and macroalgae • Classification2: • Description: Cluster of 5 targets, all corresponding to crepidula reefs and macroalgae. Investigated with ROV.
	<p>NHH0216</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:18:17 PM • Click Position 41.2898089178 -72.9082804076 (WGS84) (X) 956501.60 (Y) 666361.45 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\016_1514.HSX • Ping Number: 119167 • Range to target: 76.07 US ft • Fish Height: 43.83 US ft • Heading: 5.820 Degrees • Event Number: 101 • Line Name: 016_1514 • Water Depth: 133.53 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.33 US ft • Target Height: 0.00 US ft • Target Length: 9.38 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Irregular target adjacent to terminal facility and line or cable like debris. Likely debris.

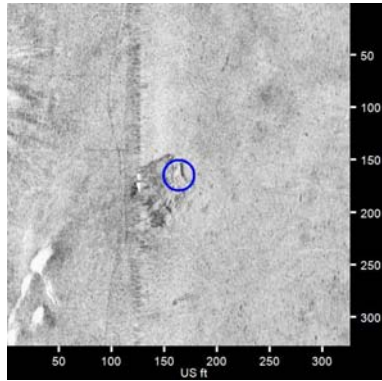
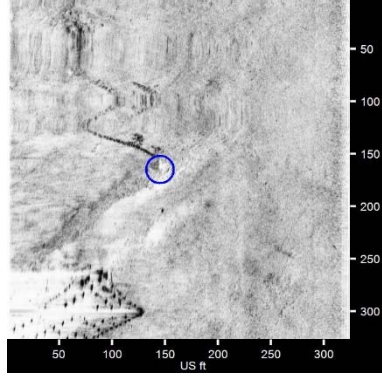
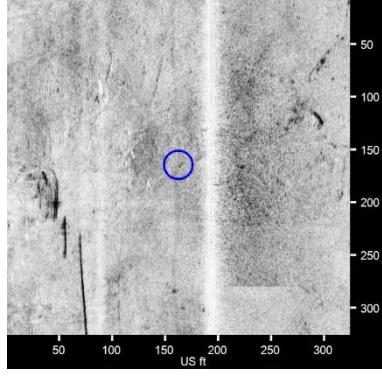
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	<p>NHH0217</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:18:20 PM • Click Position 41.2898736264 -72.9083482932 (WGS84) (X) 956482.99 (Y) 666385.06 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\016_1514.HSX • Ping Number: 119186 • Range to target: 55.38 US ft • Fish Height: 43.61 US ft • Heading: 8.700 Degrees • Event Number: 101 • Line Name: 016_1514 • Water Depth: 128.28 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.28 US ft • Target Height: 0.00 US ft • Target Length: 95.55 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: Cable • Description: Long but narrow linear target adjacent to terminal facility. Likely line or cable.
	<p>NHH0218</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/2/2017 3:18:38 PM • Click Position 41.2902632635 -72.9082485139 (WGS84) (X) 956510.67 (Y) 666526.98 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\016_1514.HSX • Ping Number: 119311 • Range to target: 69.37 US ft • Fish Height: 43.77 US ft • Heading: 8.260 Degrees • Event Number: 101 • Line Name: 016_1514 • Water Depth: 127.30 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 17.00 US ft • Target Height: 0.00 US ft • Target Length: 29.33 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Large irregular target adjacent to terminal facility. Likely debris or rock pile.
	<p>NHH0219</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:21:49 PM • Click Position 41.2908347094 -72.9104765222 (WGS84) (X) 955898.76 (Y) 666736.33 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 124916 • Range to target: 228.39 US ft • Fish Height: 40.61 US ft • Heading: 2.820 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 122.70 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.36 US ft • Target Height: 2.24 US ft • Target Length: 15.89 US ft • Target Shadow: 13.55 US ft • Classification1: Unknown • Classification2: Boulder • Description: Rectangular target. Proud of bottom. Likely boulder. Coarse sediment to the south.

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	<p>NHH0220</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 2:58:09 PM • Click Position 41.2915047536 -72.9124959082 (WGS84) (X) 955344.27 (Y) 666981.50 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\005_1455.HSX • Ping Number: 37787 • Range to target: 55.11 US ft • Fish Height: 43.95 US ft • Heading: 193.350 Degrees • Event Number: 19 • Line Name: 005_1455 • Water Depth: 128.61 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 6.38 US ft • Target Height: 0.00 US ft • Target Length: 6.50 US ft • Target Shadow: 0.00 US ft • Classification1: Mooring • Classification2: • Description: Mooring for YA. Line visible.
	<p>NHH0221</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 2:57:17 PM • Click Position 41.2927022965 -72.9125171839 (WGS84) (X) 955339.24 (Y) 667417.86 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\005_1455.HSX • Ping Number: 37419 • Range to target: 102.63 US ft • Fish Height: 19.44 US ft • Heading: 191.160 Degrees • Event Number: 19 • Line Name: 005_1455 • Water Depth: 50.85 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.49 US ft • Target Height: 0.00 US ft • Target Length: 11.63 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown target. Partially buried. Likely debris. Investigated with ROV.
	<p>NHH0222</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 2:57:11 PM • Click Position 41.2928497091 -72.9126341220 (WGS84) (X) 955307.21 (Y) 667471.63 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\005_1455.HSX • Ping Number: 37379 • Range to target: 142.22 US ft • Fish Height: 19.44 US ft • Heading: 188.150 Degrees • Event Number: 19 • Line Name: 005_1455 • Water Depth: 49.87 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.12 US ft • Target Height: 0.00 US ft • Target Length: 3.72 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown target. Partially buried. Likely debris.

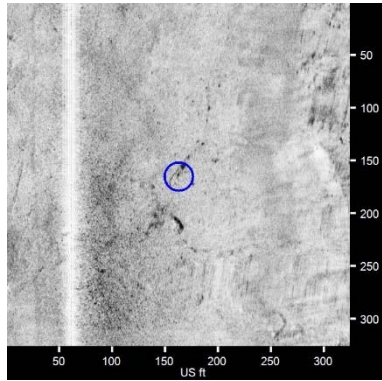
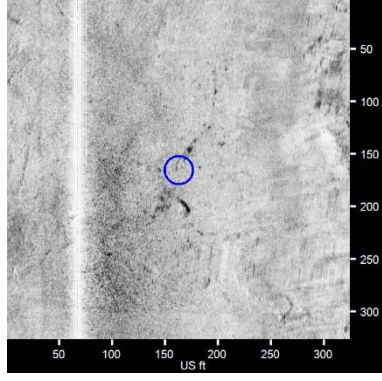
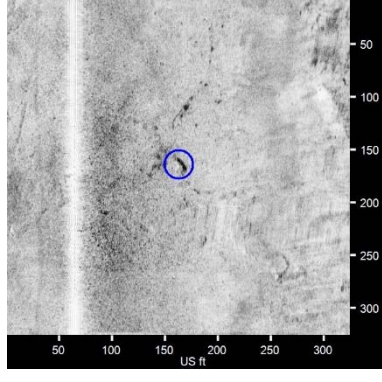
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	<p>NHH0223</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/1/2017 6:23:59 PM • Click Position 41.2938776852 -72.9106560606 (WGS84) (X) 955851.48 (Y) 667845.17 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\008_1747.HSX • Ping Number: 125844 • Range to target: 36.36 US ft • Fish Height: 25.16 US ft • Heading: 12.840 Degrees • Event Number: 61 • Line Name: 008_1747 • Water Depth: 75.46 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 44.75 US ft • Target Height: 0.00 US ft • Target Length: 38.29 US ft • Target Shadow: 0.00 US ft • Classification1: Disturbed sediment • Classification2: • Description: Irregular large target. Adjacent rises and furrows to the southwest. Likely disturbed sediment.
	<p>NHH0224</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:07:10 AM • Click Position 41.2944179060 -72.9071898918 (WGS84) (X) 956804.35 (Y) 668040.26 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 16269 • Range to target: 179.21 US ft • Fish Height: 41.31 US ft • Heading: 241.030 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 128.61 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown target associated with adjacent pier.
	<p>NHH0225</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:31 AM • Click Position 41.2953046829 -72.9067313551 (WGS84) (X) 956930.94 (Y) 668363.14 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15986 • Range to target: 30.31 US ft • Fish Height: 41.34 US ft • Heading: 228.950 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 127.30 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.71 US ft • Target Height: 0.00 US ft • Target Length: 2.75 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Debris • Description: Unknown rectangular target. Likely debris.

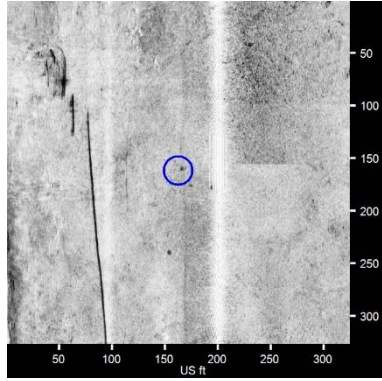
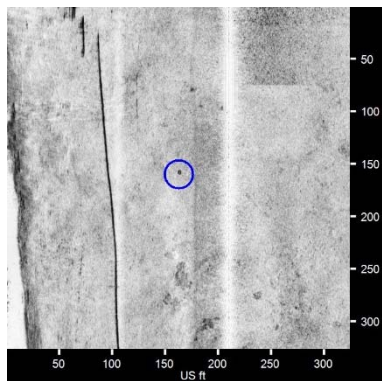
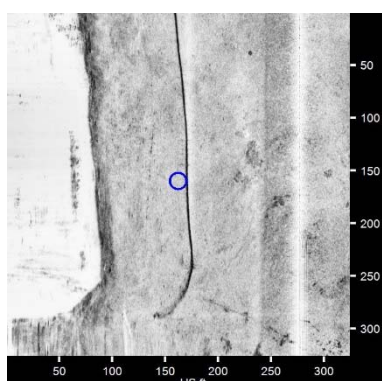
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	<p>NHH0226</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:49 AM • Click Position 41.2953461075 -72.9074981985 (WGS84) (X) 956720.24 (Y) 668378.61 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 16117 • Range to target: 130.16 US ft • Fish Height: 41.09 US ft • Heading: 226.590 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 127.95 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown string of targets with possible line visible. Likely debris.
	<p>NHH0227</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:45 AM • Click Position 41.2953767490 -72.9073744692 (WGS84) (X) 956754.26 (Y) 668389.72 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 16085 • Range to target: 114.61 US ft • Fish Height: 41.09 US ft • Heading: 228.050 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 126.64 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown string of targets with possible line visible. Likely debris.
	<p>NHH0228</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:43 AM • Click Position 41.2953809466 -72.9073333270 (WGS84) (X) 956765.57 (Y) 668391.22 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 16076 • Range to target: 107.78 US ft • Fish Height: 41.09 US ft • Heading: 227.720 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 125.33 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown string of targets with possible line visible. Likely debris.

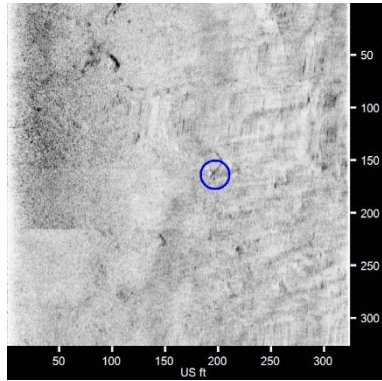
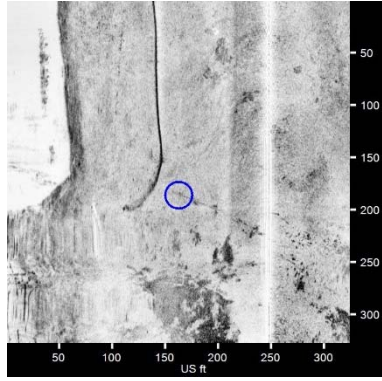
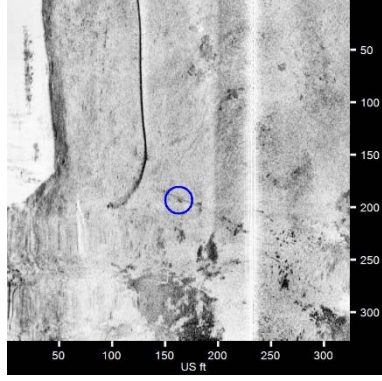
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0229</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:42 AM • Click Position 41.2953846180 -72.9072963712 (WGS84) (X) 956775.73 (Y) 668392.54 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 16068 • Range to target: 101.58 US ft • Fish Height: 41.09 US ft • Heading: 227.330 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 126.64 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown string of targets with possible line visible. Likely debris.
	<p>NHH0230</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:41 AM • Click Position 41.2953902931 -72.9072564929 (WGS84) (X) 956786.69 (Y) 668394.59 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 16059 • Range to target: 95.30 US ft • Fish Height: 41.16 US ft • Heading: 227.790 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 128.61 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Unknown string of targets with possible line visible. Likely debris.
	<p>NHH0231</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:37 AM • Click Position 41.2954610806 -72.9071811543 (WGS84) (X) 956807.44 (Y) 668420.35 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 16027 • Range to target: 98.59 US ft • Fish Height: 41.62 US ft • Heading: 228.140 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 128.94 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.74 US ft • Target Height: 0.00 US ft • Target Length: 8.40 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Likely debris or rock. Adjacent coarse sediment.

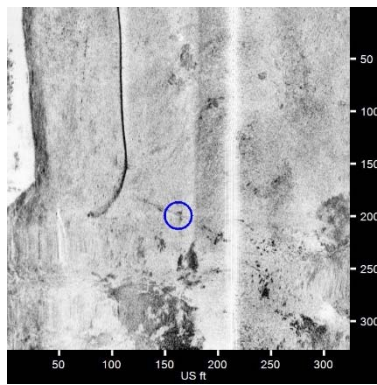
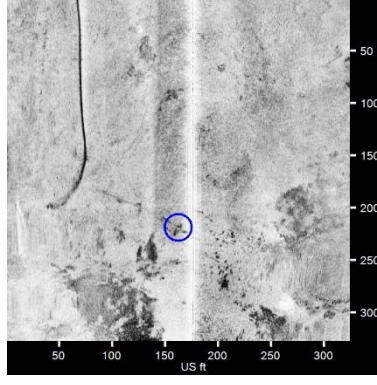
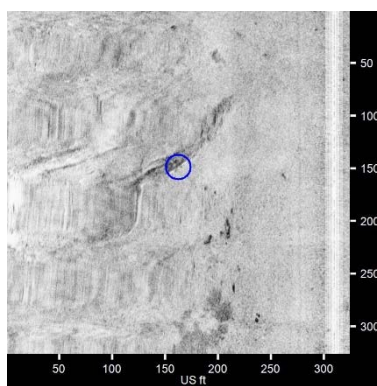
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0232</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:15 AM • Click Position 41.2955439719 -72.9064090932 (WGS84) (X) 957019.65 (Y) 668450.16 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15873 • Range to target: 37.85 US ft • Fish Height: 39.17 US ft • Heading: 221.630 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 121.39 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.23 US ft • Target Height: 0.00 US ft • Target Length: 2.23 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Debris • Description: Unknown rectangular target. Likely debris.
	<p>NHH0233</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:05 AM • Click Position 41.2956936037 -72.9061914324 (WGS84) (X) 957079.56 (Y) 668504.58 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15799 • Range to target: 47.37 US ft • Fish Height: 37.21 US ft • Heading: 225.630 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 115.16 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 3.21 US ft • Target Height: 0.65 US ft • Target Length: 3.25 US ft • Target Shadow: 1.07 US ft • Classification1: Unknown • Classification2: Debris • Description: Unknown rectangular target adjacent to terminal facility. Likely debris.
	<p>NHH0234</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:05:48 AM • Click Position 41.2958248651 -72.9057192612 (WGS84) (X) 957209.40 (Y) 668552.17 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15684 • Range to target: 114.32 US ft • Fish Height: 35.93 US ft • Heading: 219.090 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 110.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 405.59 US ft • Target Shadow: 0.00 US ft • Classification1: Containment boom and curtain. • Classification2: • Description: Floating boom and curtain deployed around petroleum tanker.

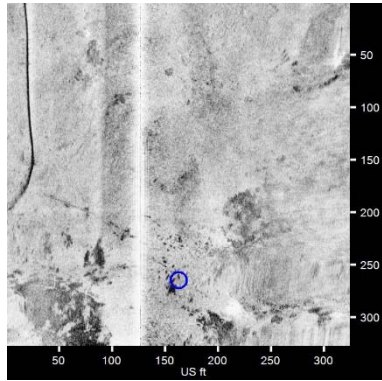
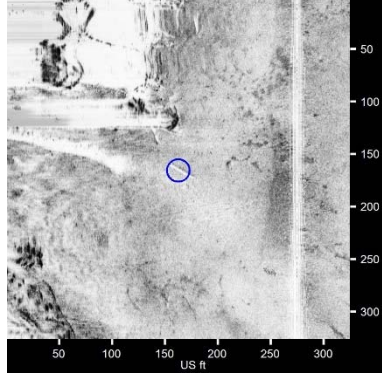
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0235</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:06:22 AM • Click Position 41.2958514892 -72.9071869447 (WGS84) (X) 956806.11 (Y) 668562.60 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15927 • Range to target: 196.49 US ft • Fish Height: 40.25 US ft • Heading: 219.440 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 125.98 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 4.63 US ft • Target Height: 0.00 US ft • Target Length: 4.33 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Square target with line. Likely debris.
	<p>NHH0236</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:05:33 AM • Click Position 41.2961084261 -72.9055305046 (WGS84) (X) 957261.46 (Y) 668655.40 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15574 • Range to target: 85.25 US ft • Fish Height: 35.32 US ft • Heading: 224.370 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 107.61 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 2.28 US ft • Target Height: 0.00 US ft • Target Length: 4.12 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: String of unknown target with possible line visible. Likely debris.
	<p>NHH0237</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:05:32 AM • Click Position 41.2961497761 -72.9055539081 (WGS84) (X) 957255.05 (Y) 668670.47 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15567 • Range to target: 70.46 US ft • Fish Height: 35.32 US ft • Heading: 224.300 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 110.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.84 US ft • Target Height: 0.00 US ft • Target Length: 3.61 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: String of unknown target with possible line visible. Likely debris.

New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0238</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:05:31 AM • Click Position 41.2961958625 -72.9055899647 (WGS84) (X) 957245.17 (Y) 668687.28 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15561 • Range to target: 51.92 US ft • Fish Height: 35.32 US ft • Heading: 224.240 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 110.24 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 0.00 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: String of unknown target with possible line visible. Likely debris.
	<p>NHH0239</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:05:28 AM • Click Position 41.2963050177 -72.9056488007 (WGS84) (X) 957229.08 (Y) 668727.09 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15542 • Range to target: 13.48 US ft • Fish Height: 35.32 US ft • Heading: 225.920 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 104.33 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.14 US ft • Target Height: 0.00 US ft • Target Length: 4.60 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: String of unknown target with possible line visible. Likely debris.
	<p>NHH0240</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 8:56:50 AM • Click Position 41.2963742857 -72.9067159304 (WGS84) (X) 956935.89 (Y) 668752.85 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\011_0856.HSX • Ping Number: 11843 • Range to target: 147.00 US ft • Fish Height: 40.62 US ft • Heading: 225.560 Degrees • Event Number: 111 • Line Name: 011_0856 • Water Depth: 122.70 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.32 US ft • Target Height: 0.00 US ft • Target Length: 24.53 US ft • Target Shadow: 0.00 US ft • Classification1: Unknown • Classification2: Area of disturbed sediment. • Description: Area of disturbed sediment.

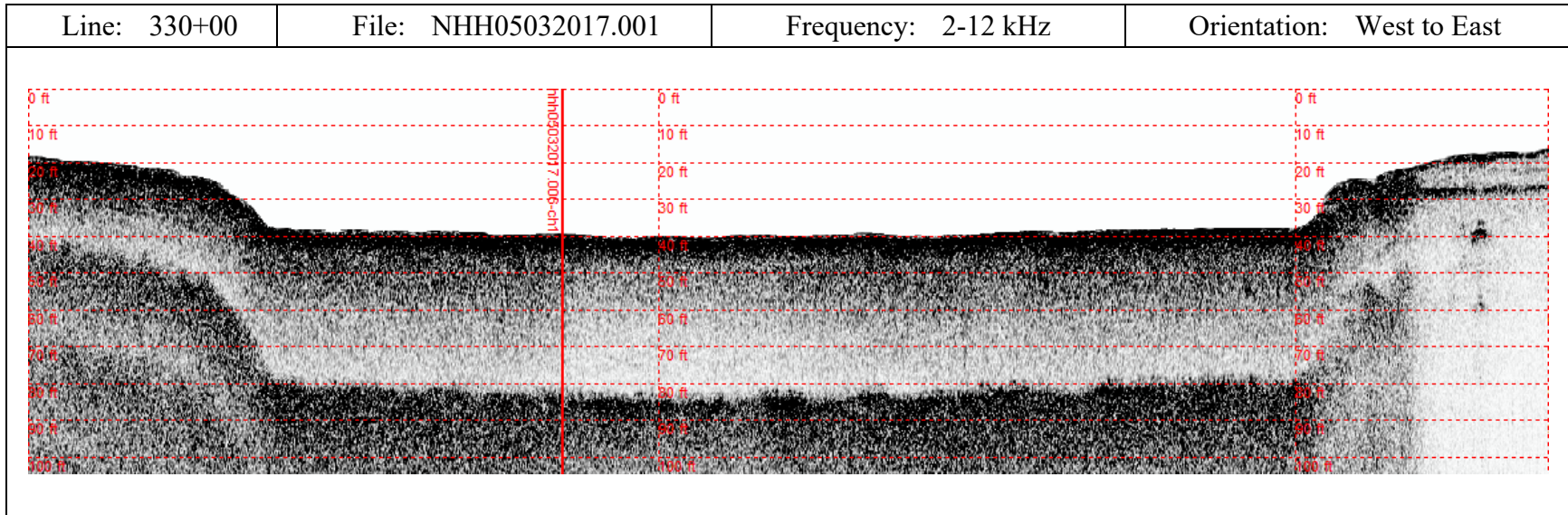
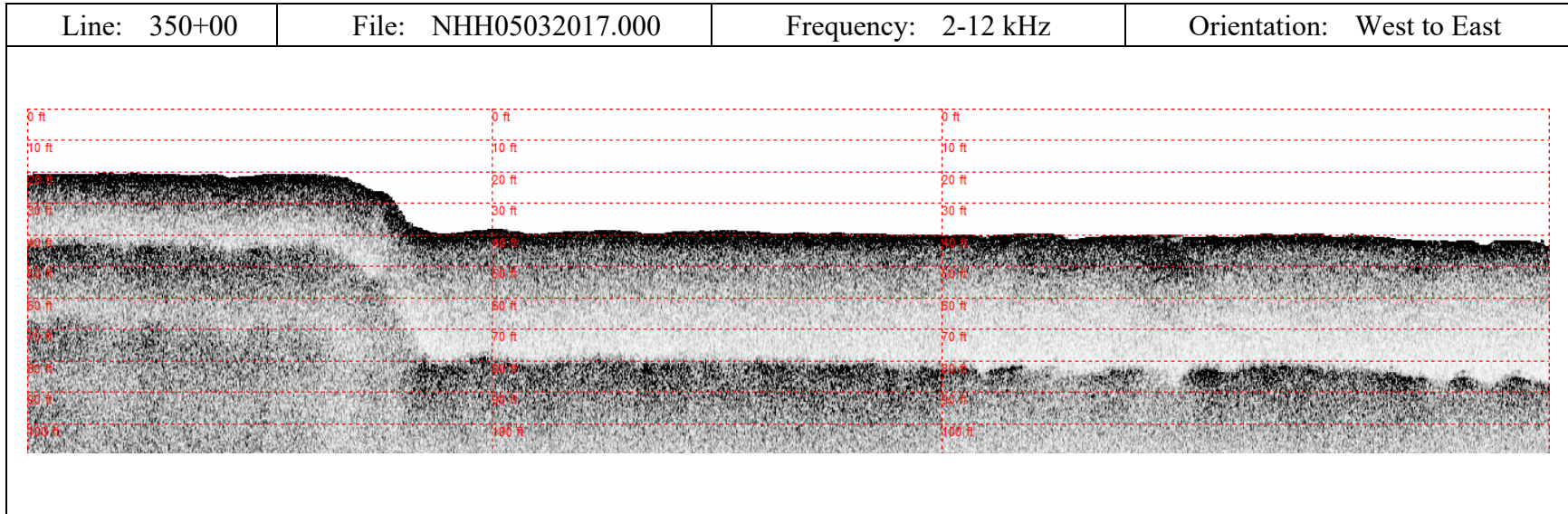
New Haven Harbor May 2017 Side Scan Sonar

	<p>NHH0241</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 9:05:22 AM • Click Position 41.2964883458 -72.9056755219 (WGS84) (X) 957221.85 (Y) 668793.90 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\015_0905.HSX • Ping Number: 15497 • Range to target: 36.27 US ft • Fish Height: 35.32 US ft • Heading: 226.670 Degrees • Event Number: 115 • Line Name: 015_0905 • Water Depth: 102.36 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 0.00 US ft • Target Height: 0.00 US ft • Target Length: 241.98 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Numerous small targets adjacent to string of liner targets and terminal facility. Likely debris or rock pile.
	<p>NHH0242</p> <ul style="list-style-type: none"> • Sonar Time at Target: 5/3/2017 8:39:40 AM • Click Position 41.2972250439 -72.9088924248 (WGS84) (X) 956338.38 (Y) 669063.93 (Projected Coordinates) • Map Projection: CT83F • Acoustic Source File: D:\Projects\NewHaven2017\Raw\007_0834.HSX • Ping Number: 4501 • Range to target: 112.03 US ft • Fish Height: 32.42 US ft • Heading: 49.320 Degrees • Event Number: 105 • Line Name: 007_0834 • Water Depth: 85.30 US ft 	<p>Dimensions and attributes</p> <ul style="list-style-type: none"> • Target Width: 1.35 US ft • Target Height: 0.00 US ft • Target Length: 26.08 US ft • Target Shadow: 0.00 US ft • Classification1: Debris • Classification2: • Description: Linear target in vicinity of pier. Piling. Investigated with ROV.

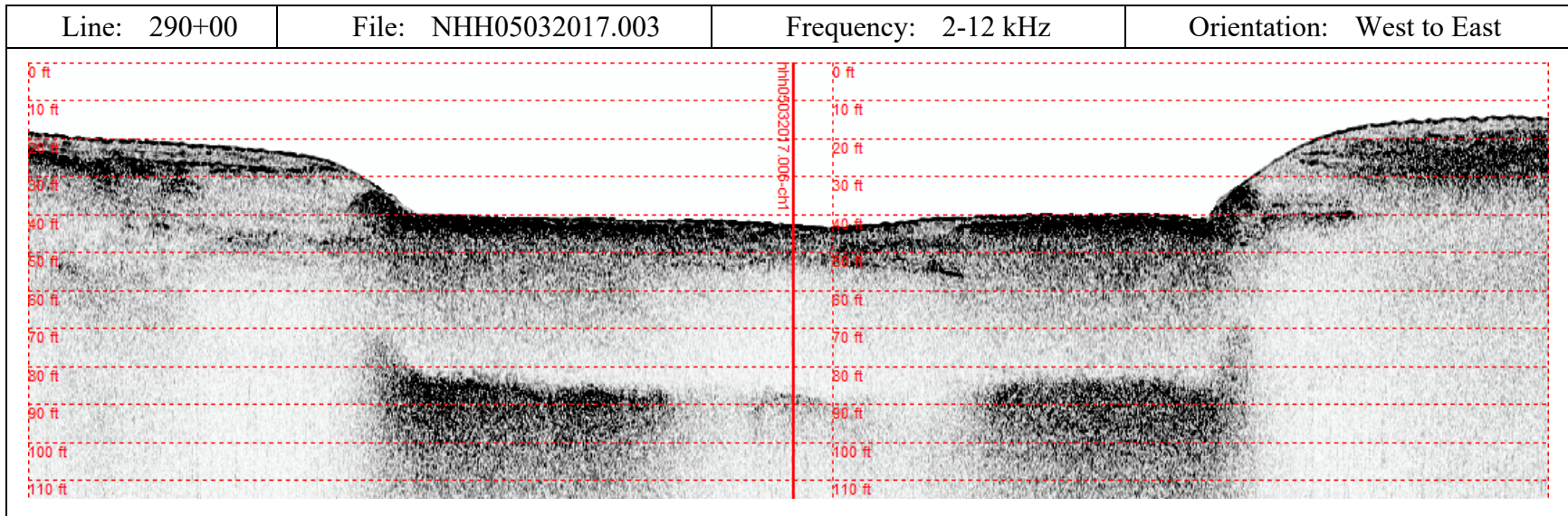
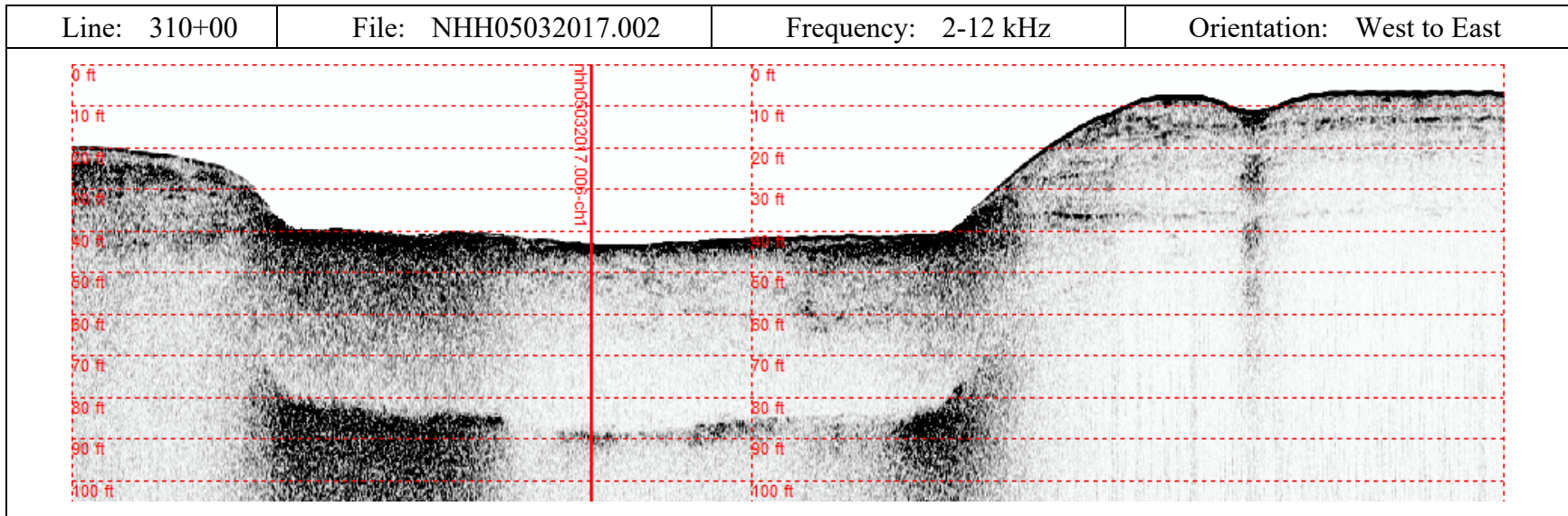
APPENDIX B

SUB-BOTTOM PROFILES

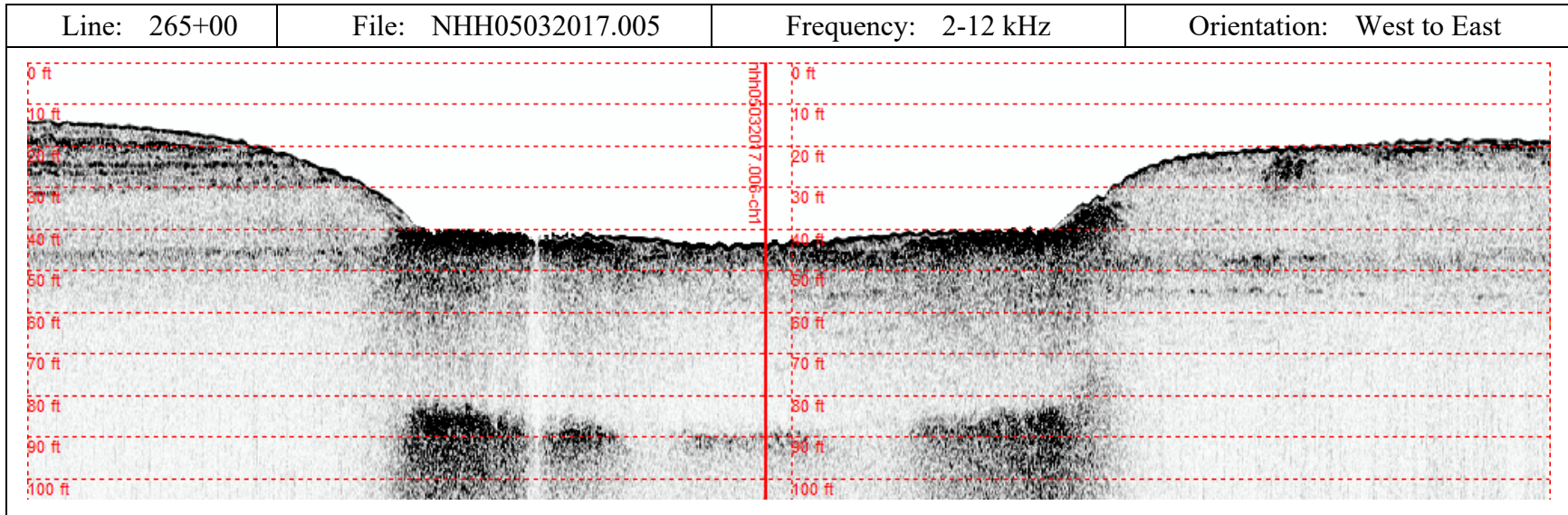
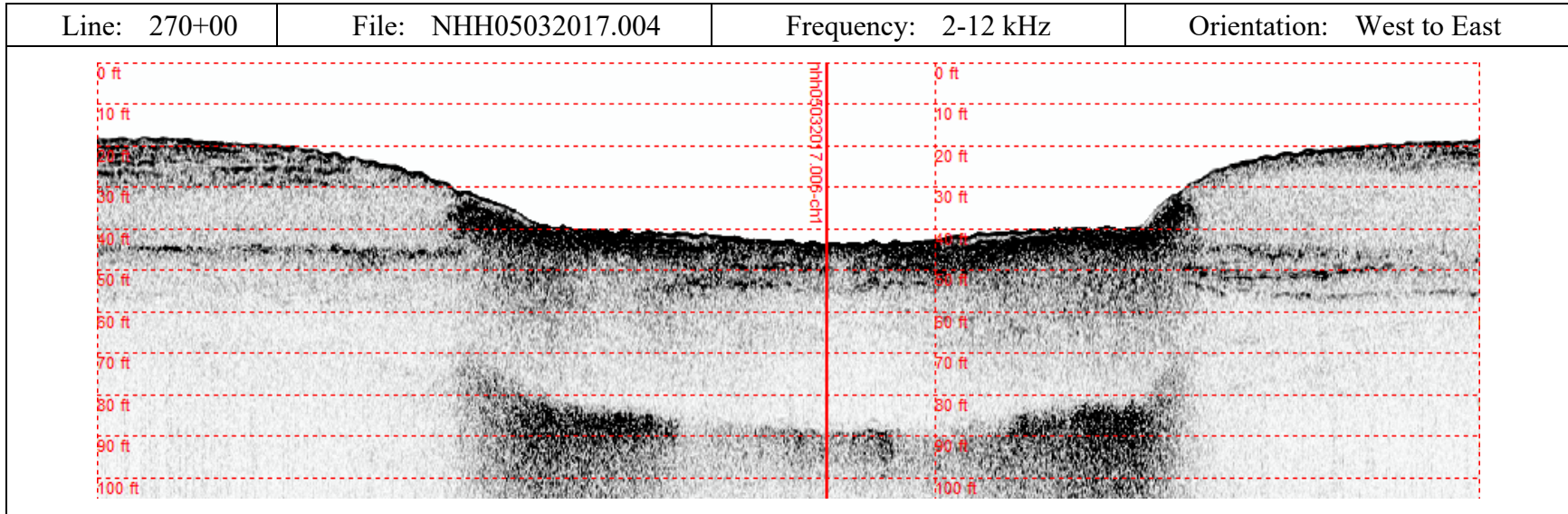
Appendix B: Sub-Bottom Profiles



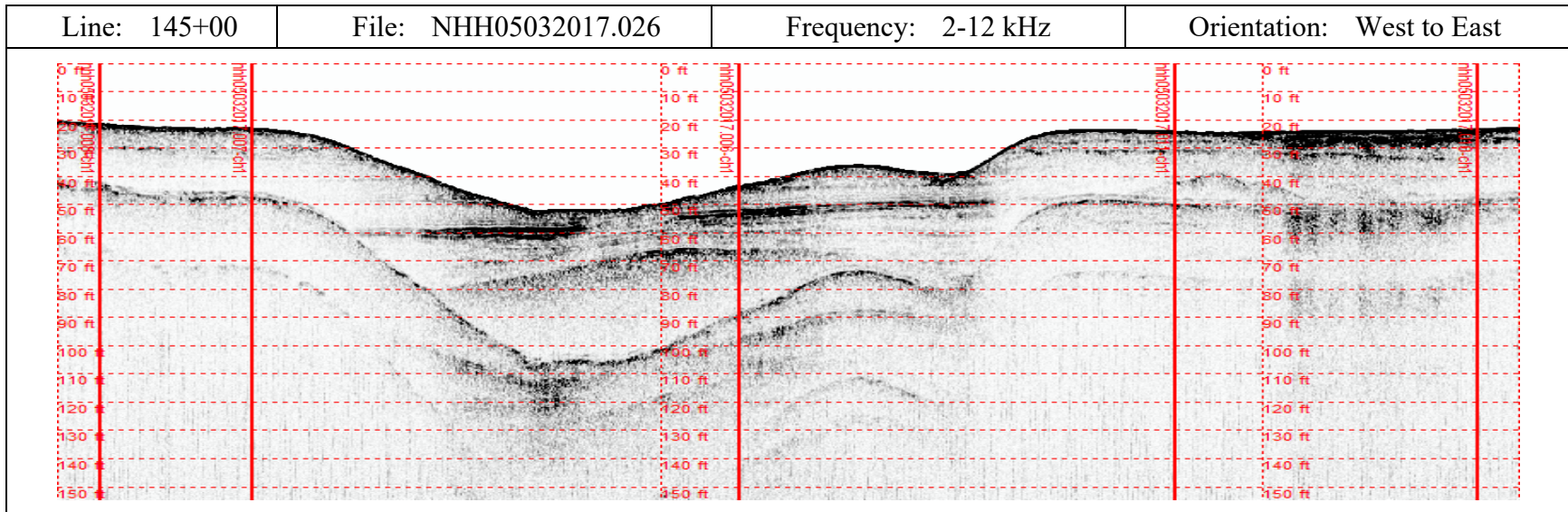
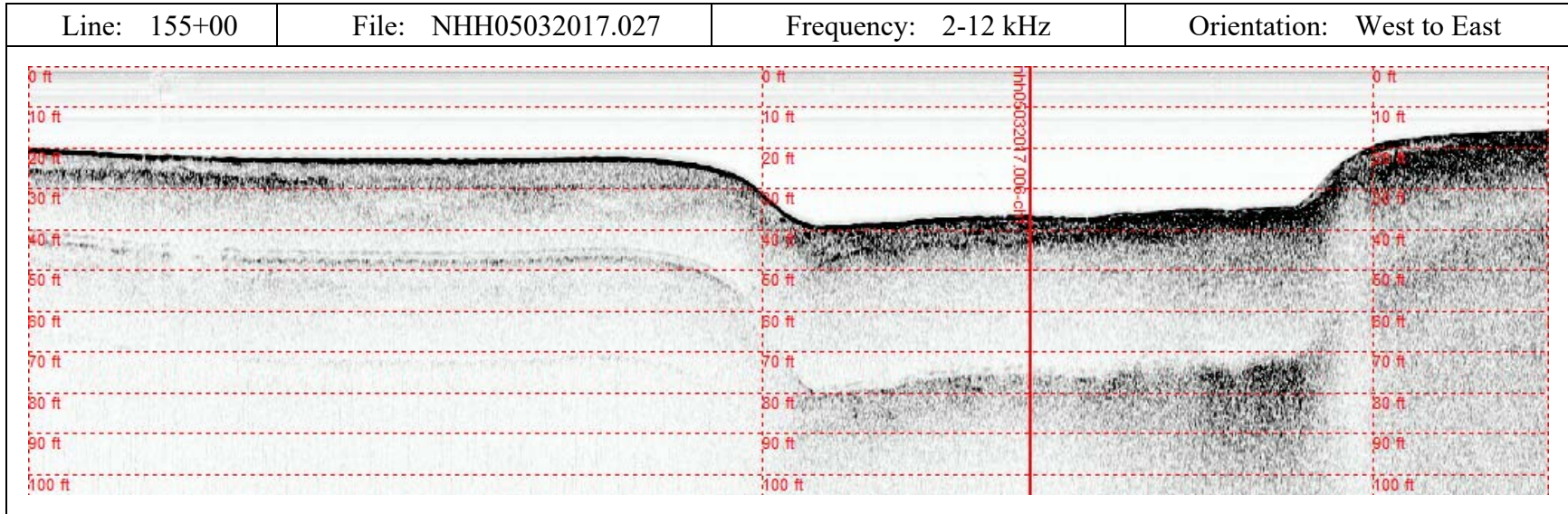
Appendix B: Sub-Bottom Profiles



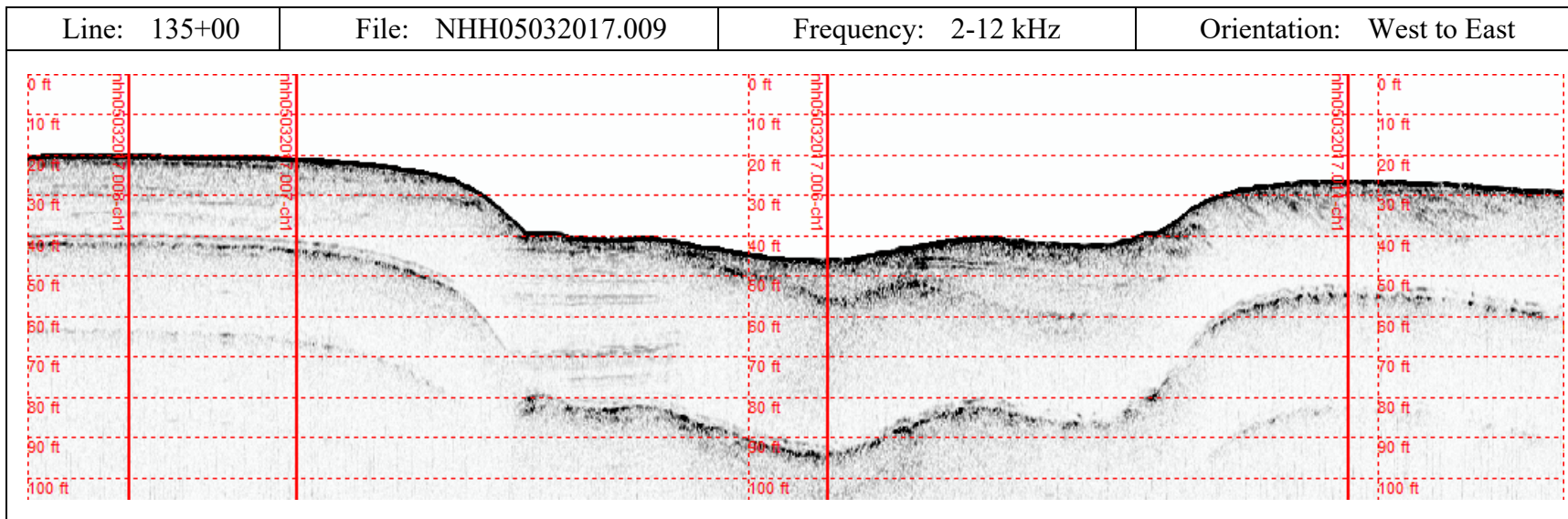
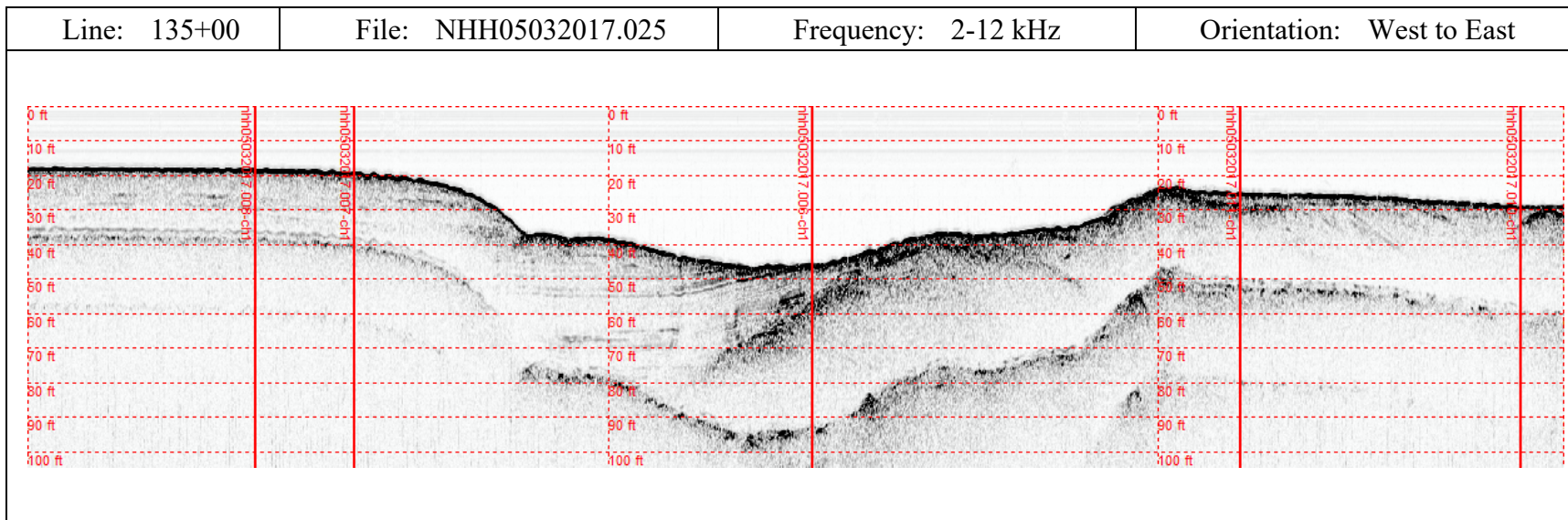
Appendix B: Sub-Bottom Profiles



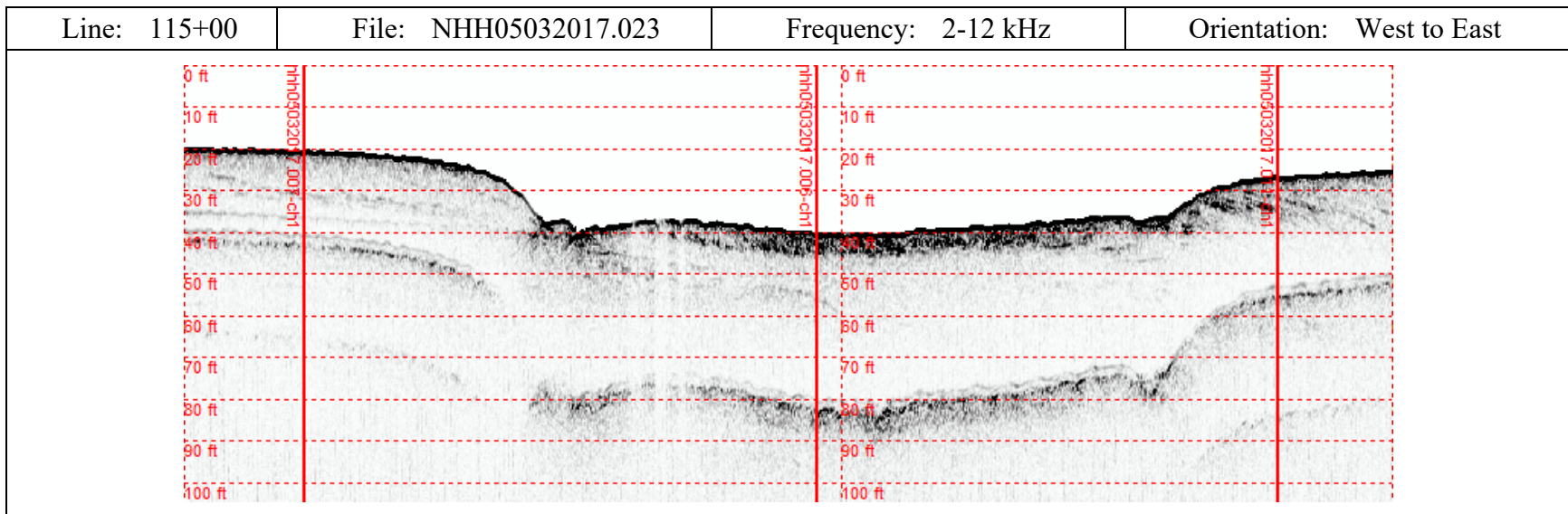
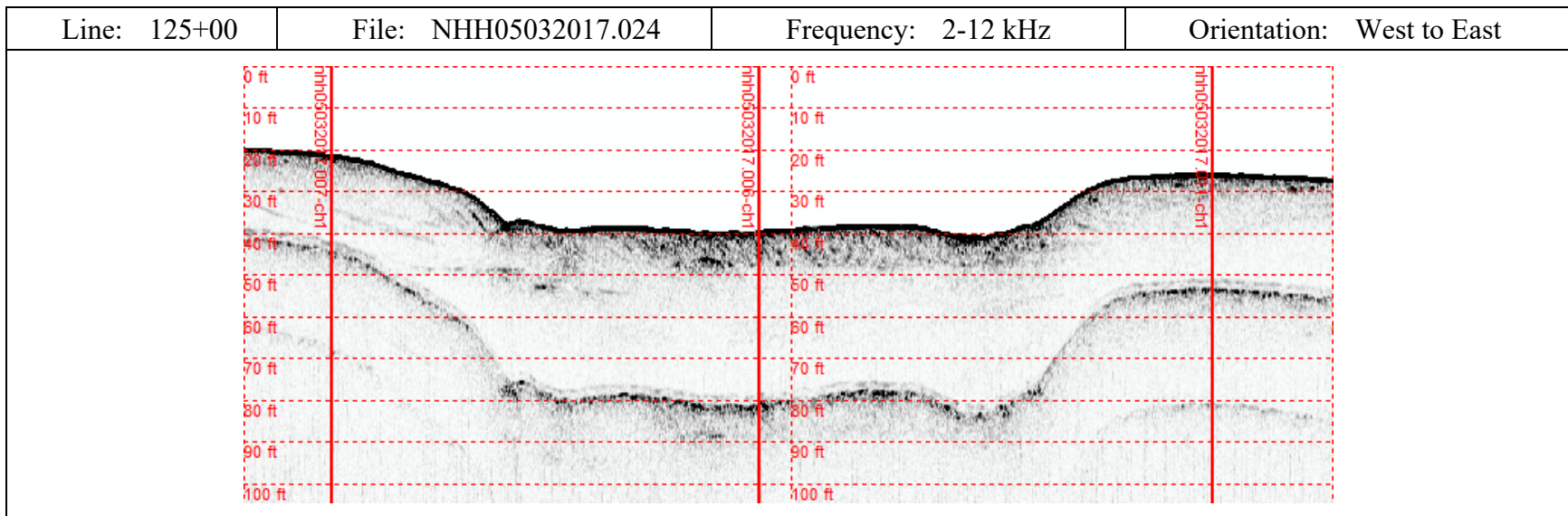
Appendix B: Sub-Bottom Profiles



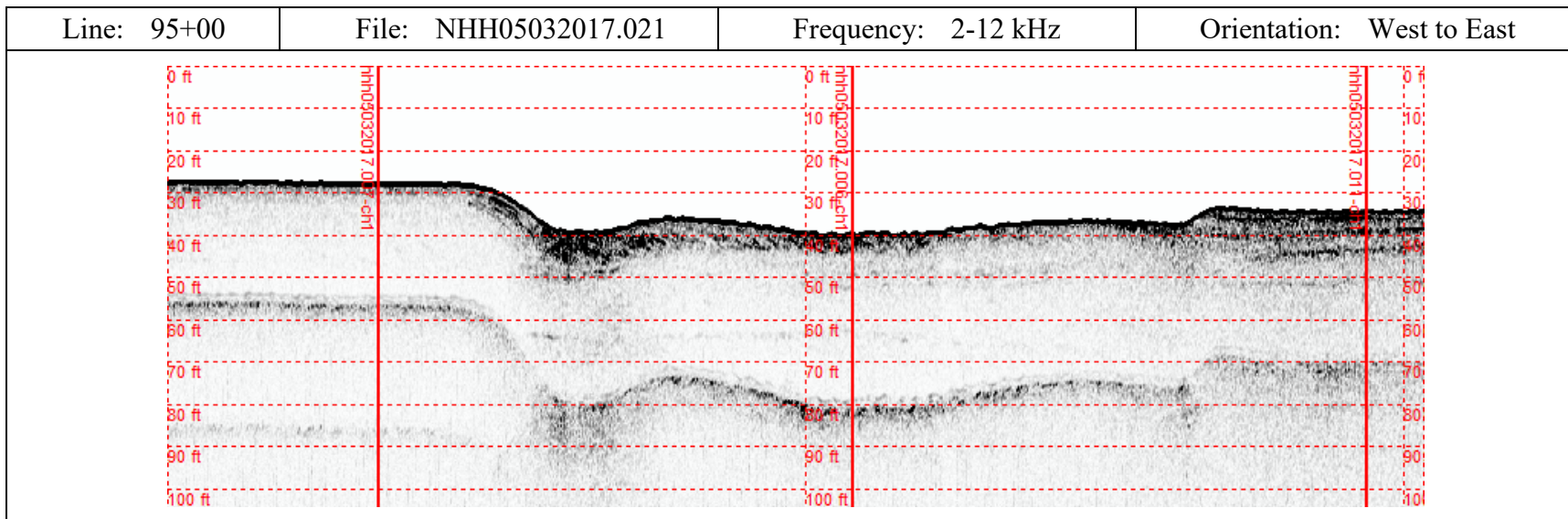
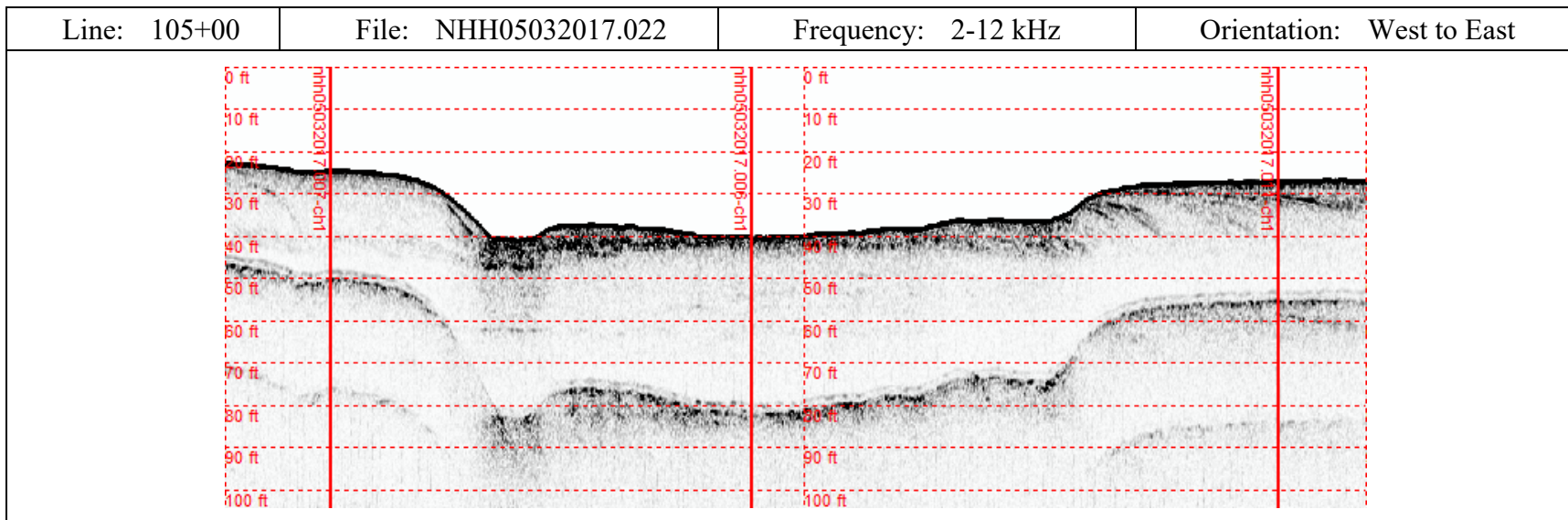
Appendix B: Sub-Bottom Profiles



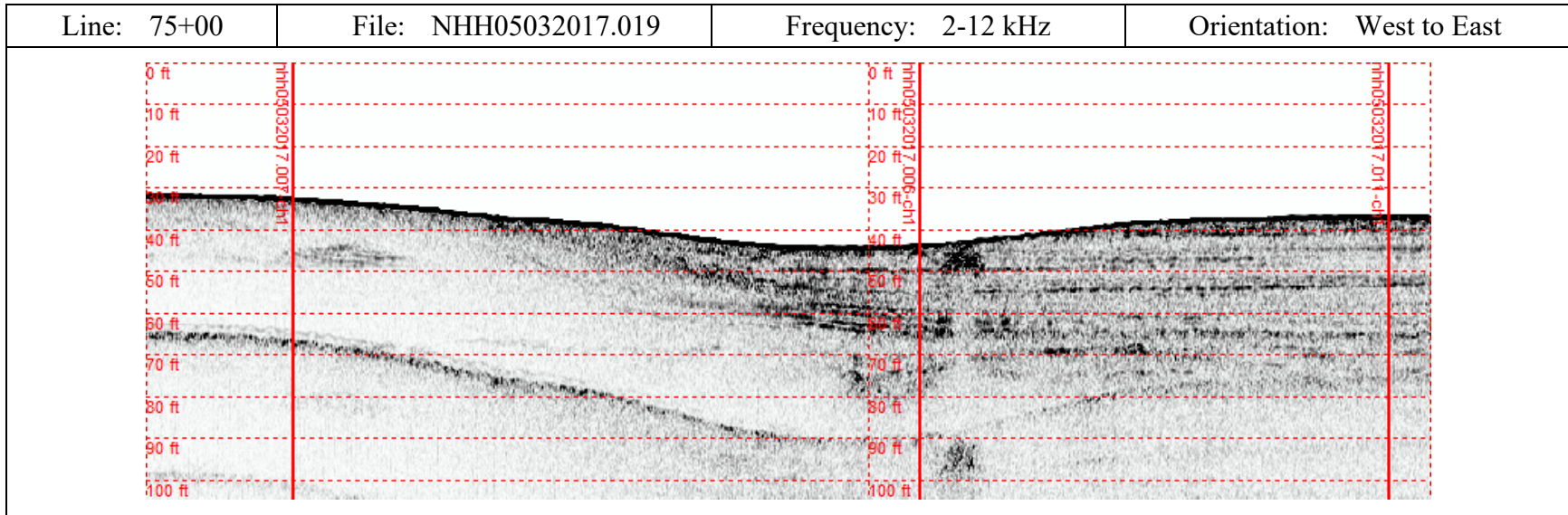
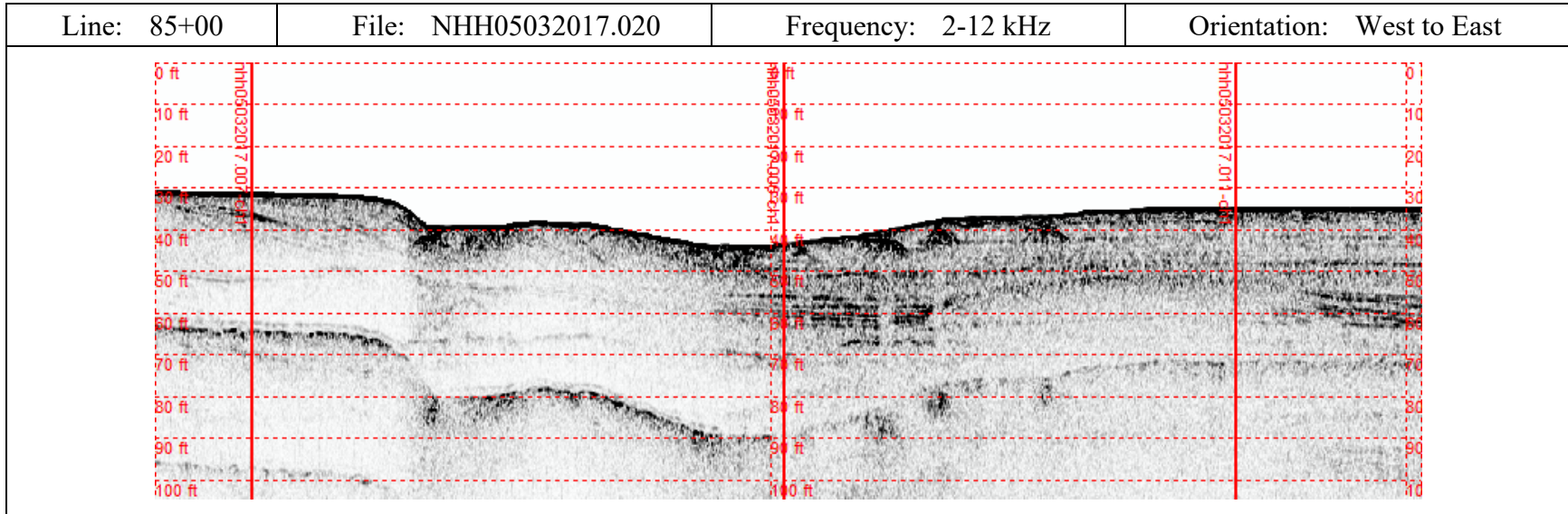
Appendix B: Sub-Bottom Profiles



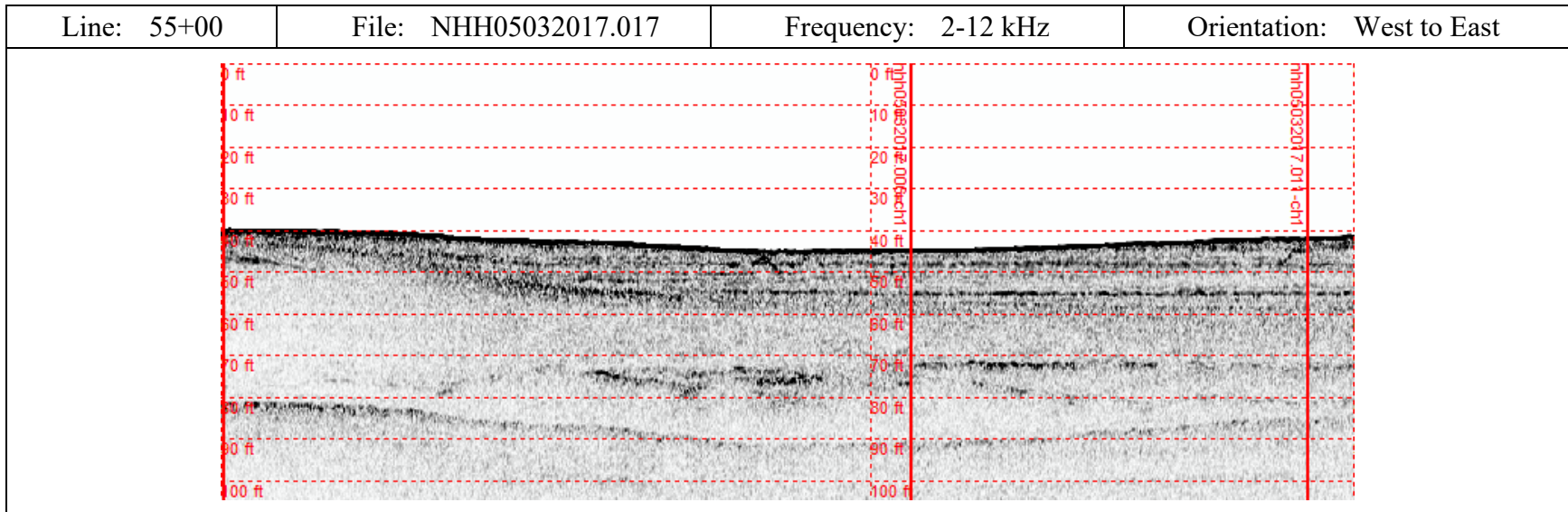
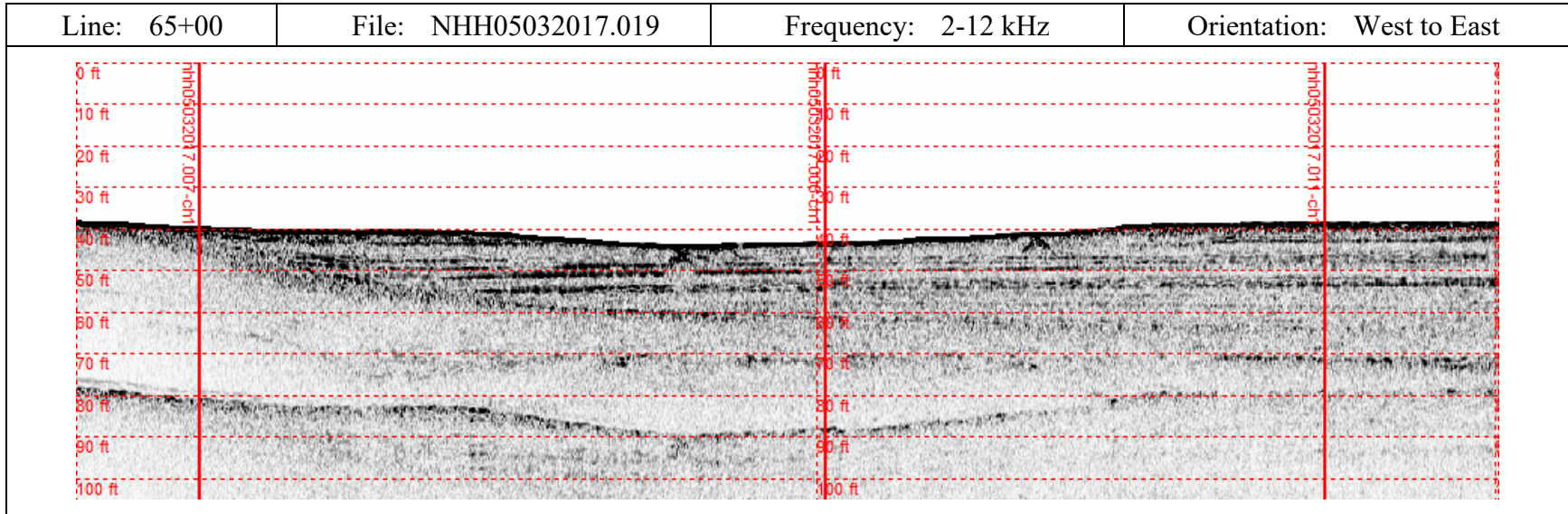
Appendix B: Sub-Bottom Profiles



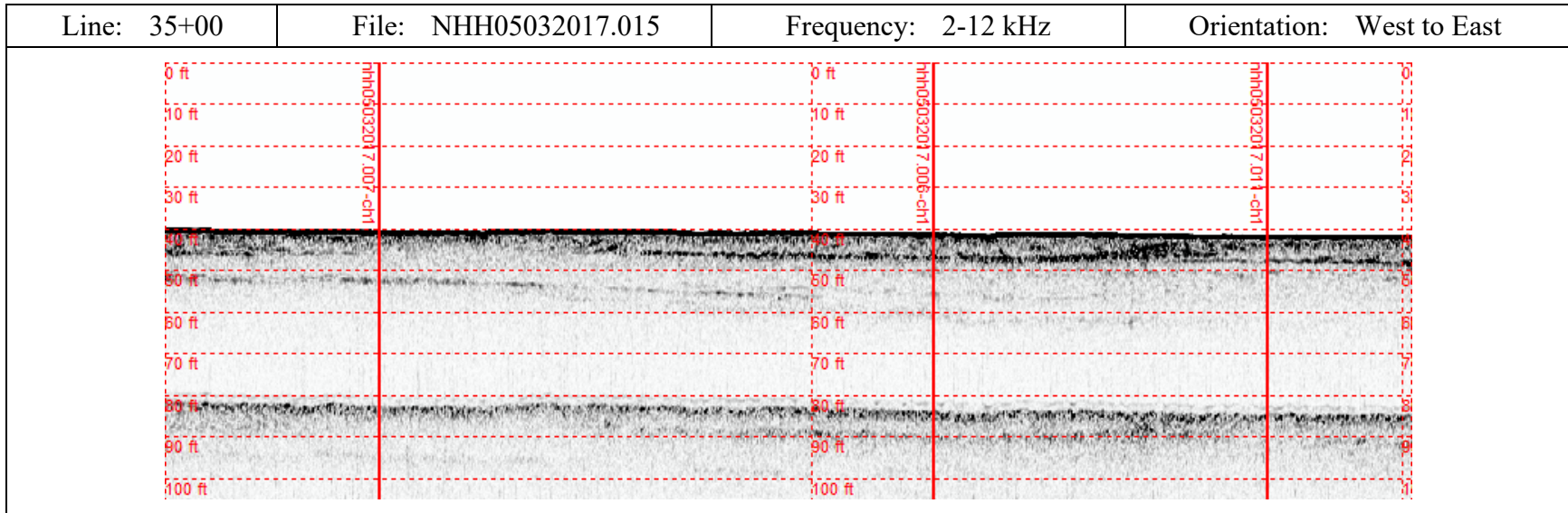
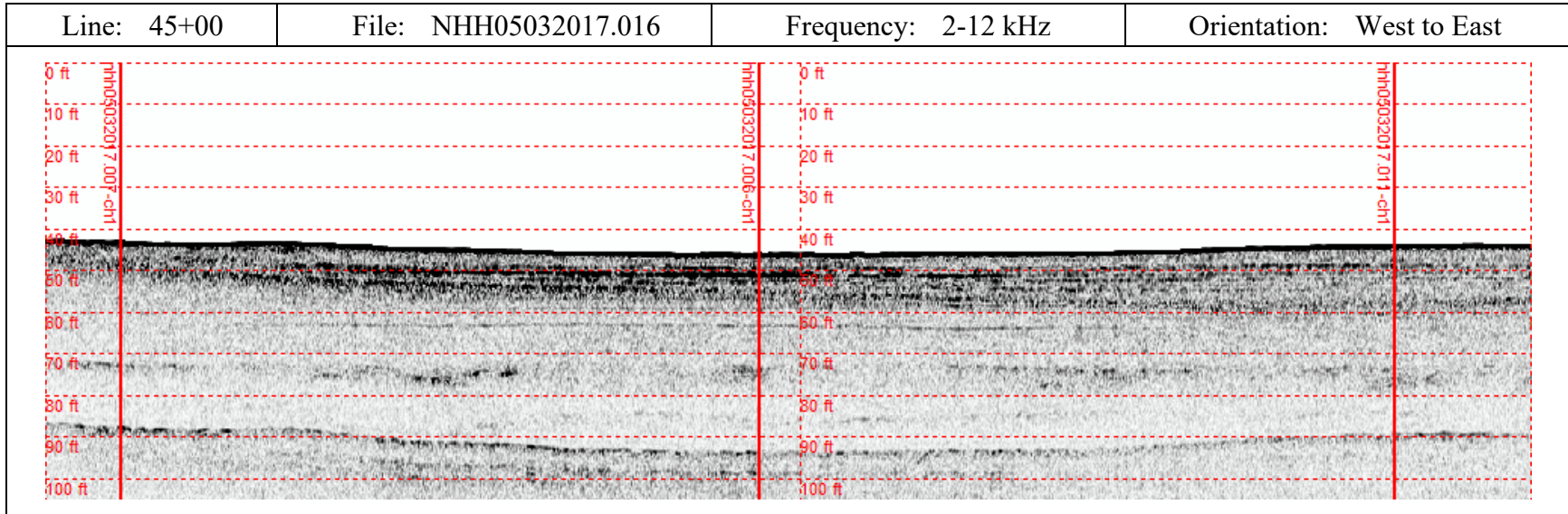
Appendix B: Sub-Bottom Profiles



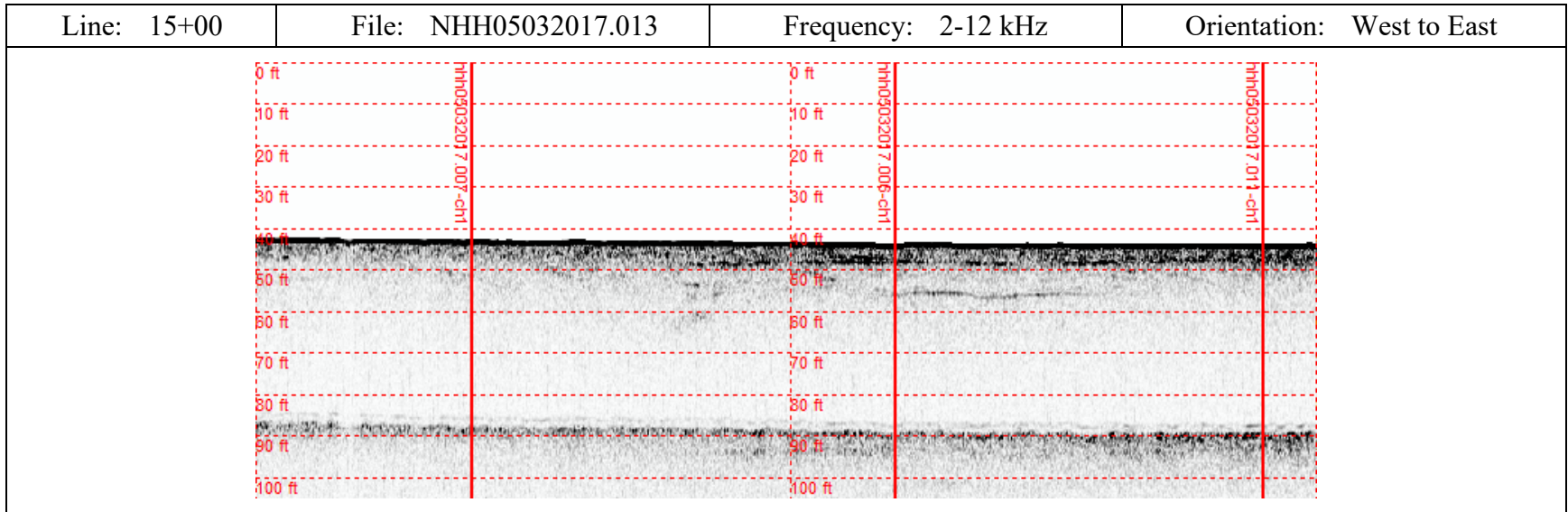
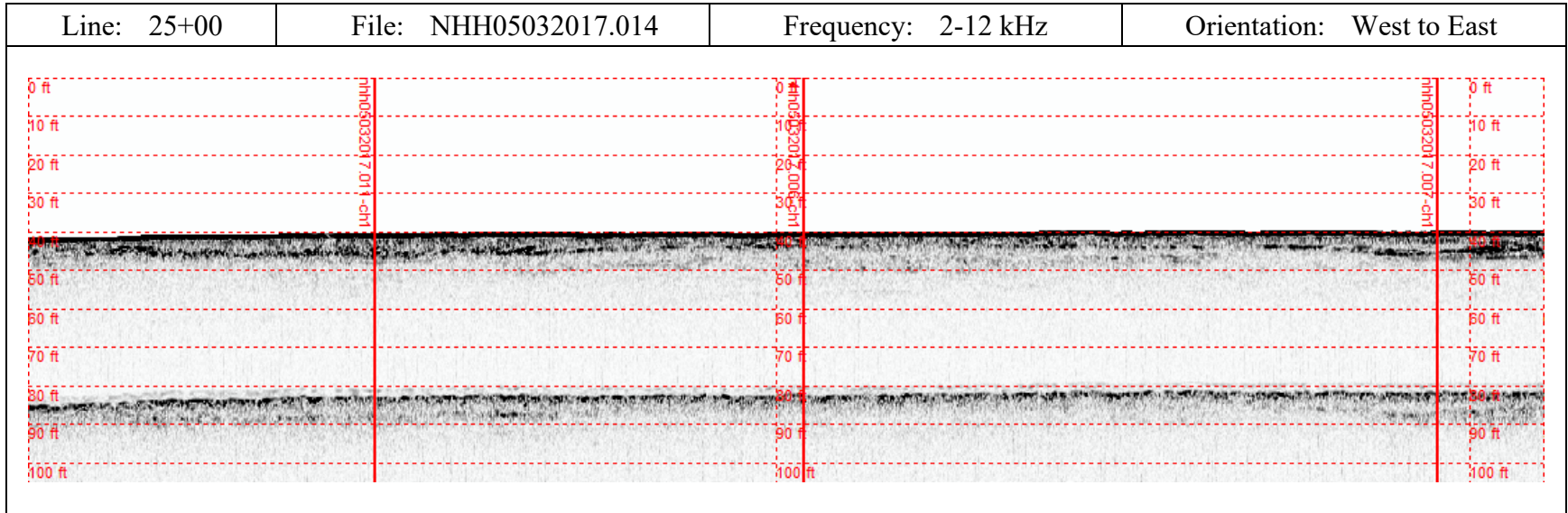
Appendix B: Sub-Bottom Profiles



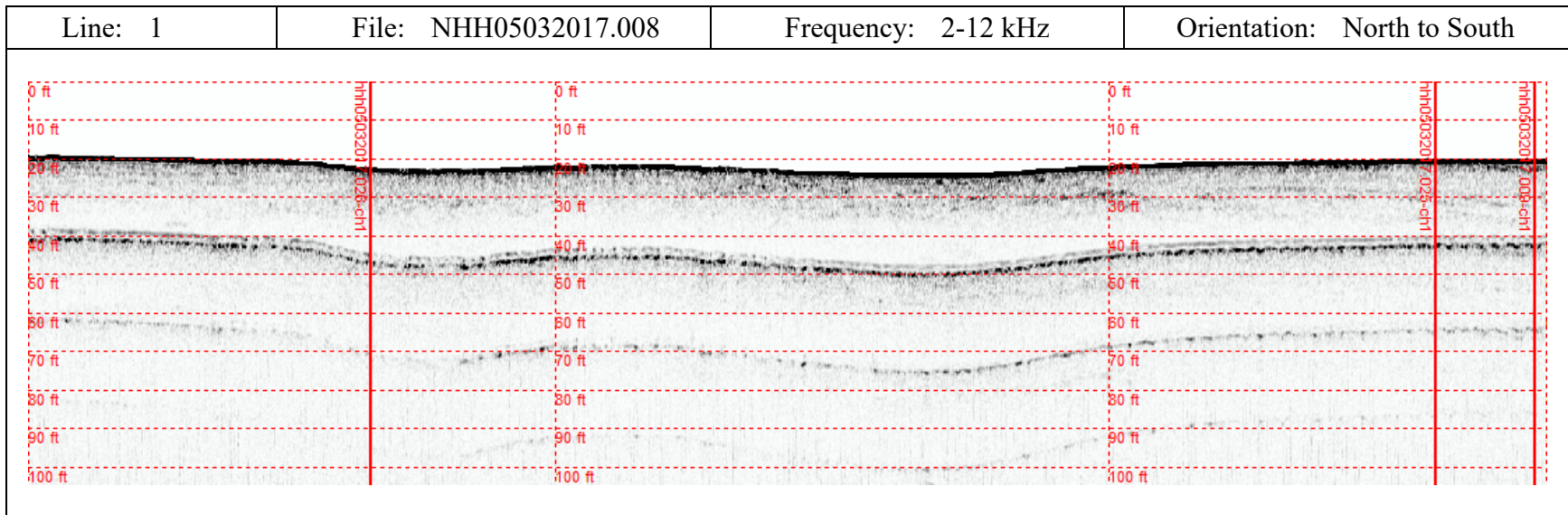
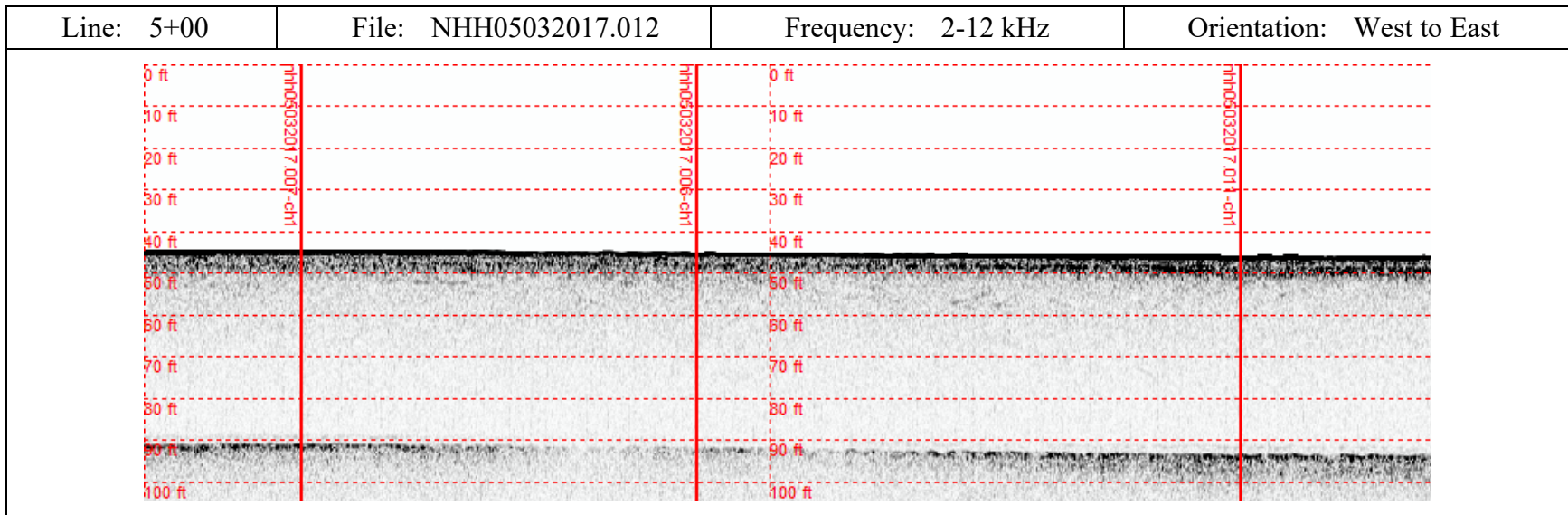
Appendix B: Sub-Bottom Profiles



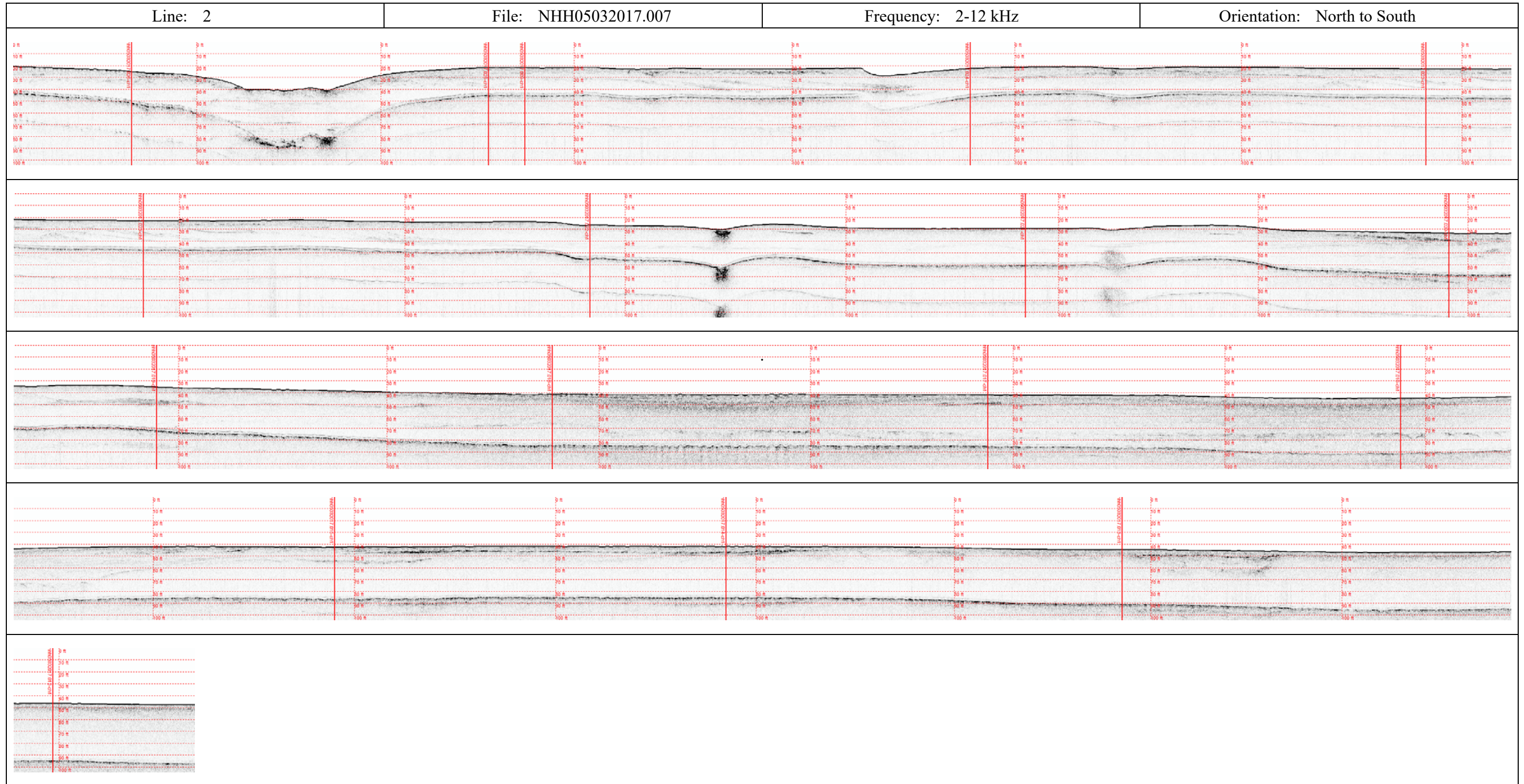
Appendix B: Sub-Bottom Profiles



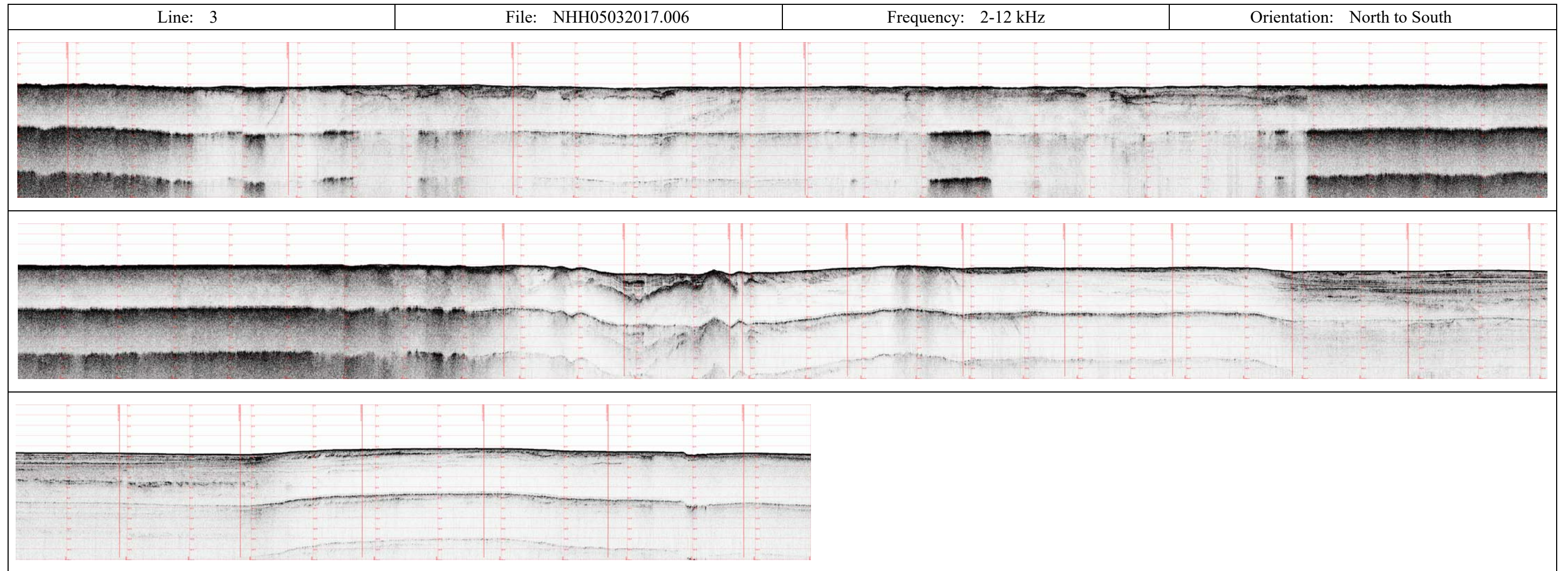
Appendix B: Sub-Bottom Profiles



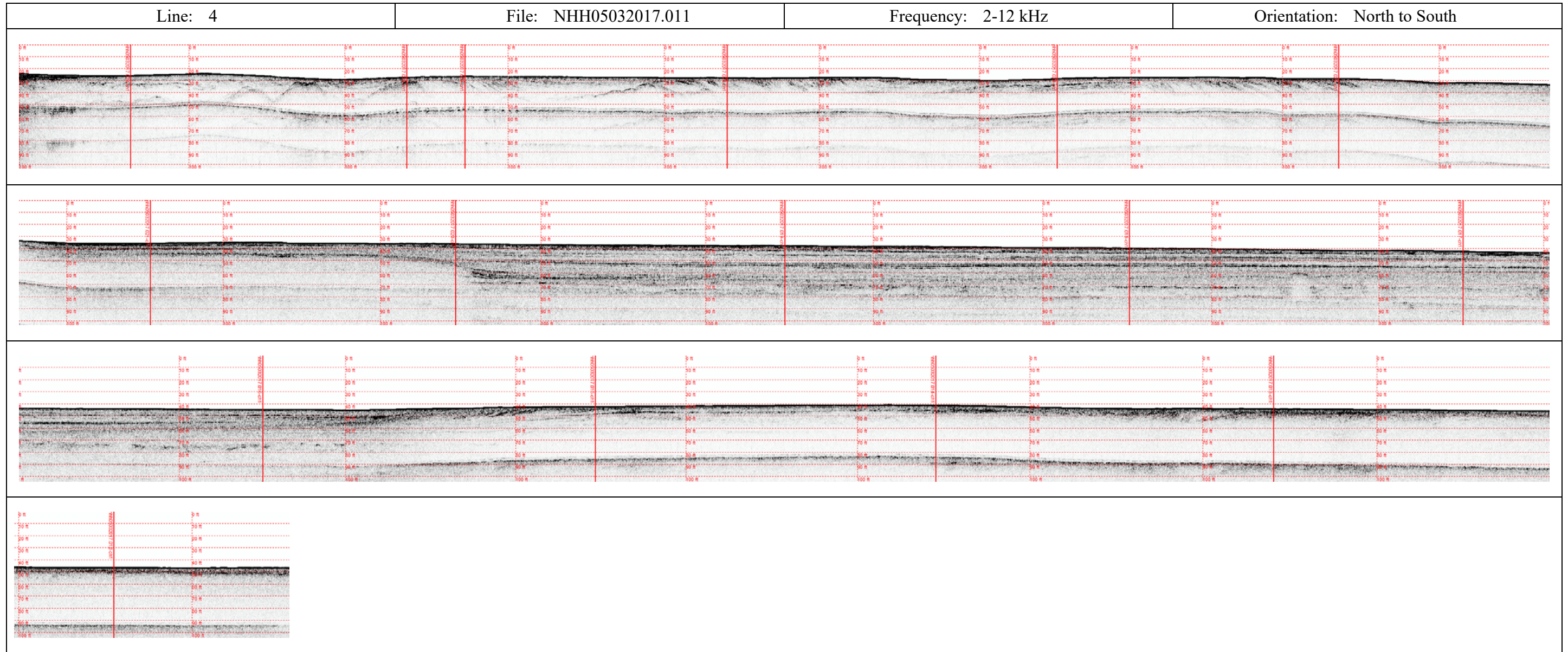
Appendix B: Sub-Bottom Profiles



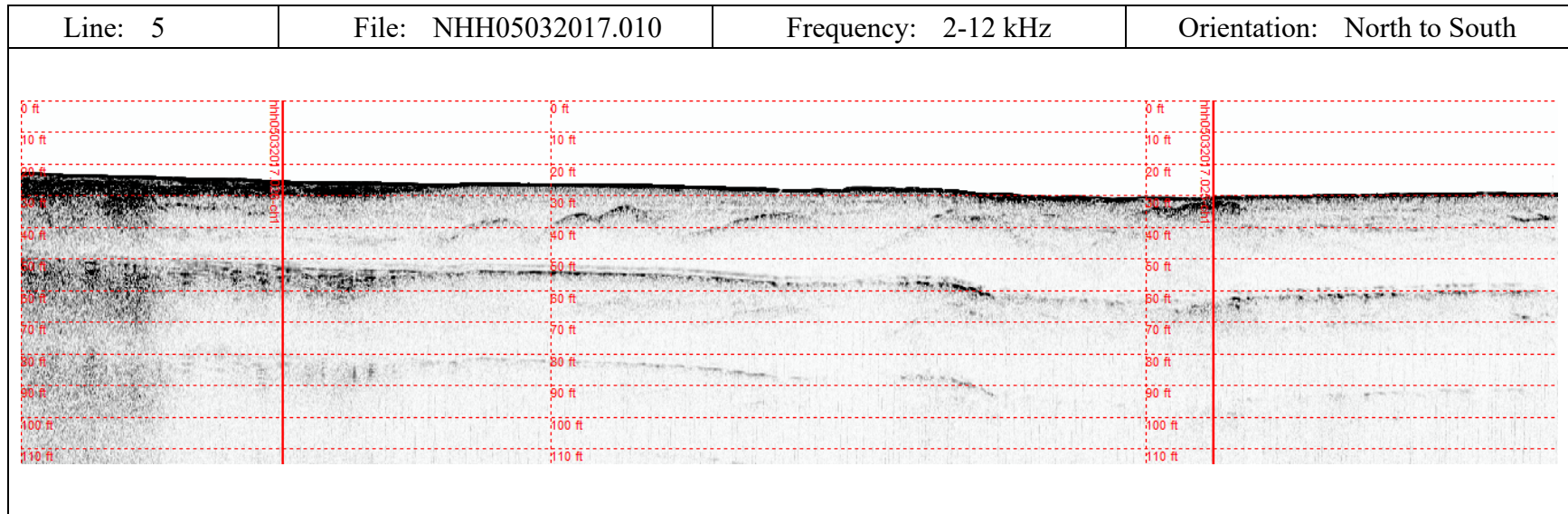
Appendix B: Sub-Bottom Profiles



Appendix B: Sub-Bottom Profiles



Appendix B: Sub-Bottom Profiles



APPENDIX C

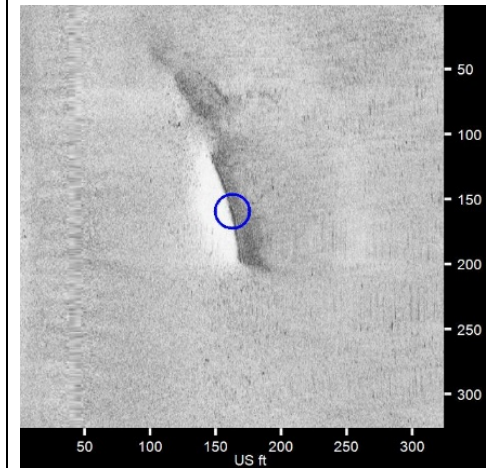
VIDEO SURVEY TARGET DATABASE

SONAR TARGET: NHH-019

Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.225366	-72.913218	642883.41	955100.08
Source File: 008_1415.HSX	Target Length: 85 feet	Target Width: 12 feet	Classification: Shell Reef	

**Survey Notes:**

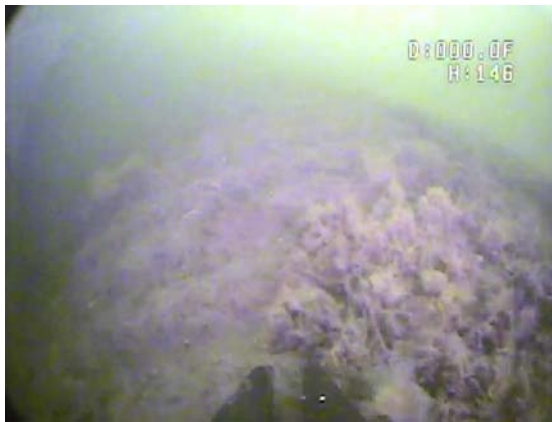
Vessel anchored directly over sonar target. ROV footage documented an elongated *Crepidula* sp. reef with a linear furrow running along the edge furthest from the channel. The shell area created a high intensity return in the side scan sonar imagery followed by a data gap in the area corresponding to the narrow depression. This was initially interpreted as a linear structure that was proud of the seafloor. Based on the ROV footage the target classification survey footage the classification for this target was changed to from 'debris – possible shipwreck' to 'isolated sediment feature – shell reef'.

Side Scan Sonar Image:

SONAR TARGET: NHH-0153

Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.269442	-72.913172	658942.99	955143.17

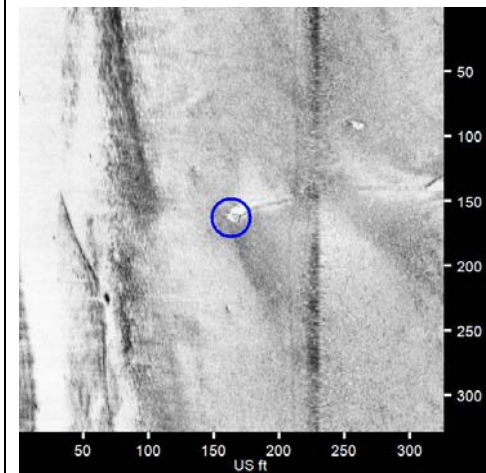
Source File: 007_1642.HSX | Target Length: 31 feet | Target Width: 5 feet | Classification: Pipeline



Survey Notes:

Vessel anchored directly over sonar target. Primary target is the open mouth of an exposed corrugated steel/ concrete pipeline extending west of channel. No flow was apparent at the time of inspection. ROV footage documented mouth and approximately 20 feet of pipeline. Areas of heavy marine growth and several fractures were noted. Anchor points and scattered debris were present on the adjacent seafloor.

Side Scan Sonar Image:



SONAR TARGET: NHH-0176

Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.277411	-72.913807	661847.27	954974.21

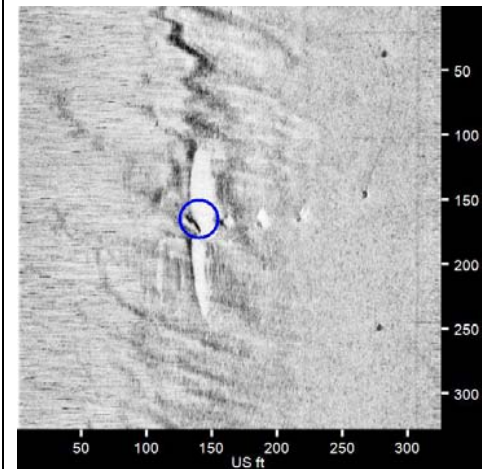
Source File: 008_1747.HSX | Target Length: 129 feet | Target Width: 20 feet | Classification: Debris - Possible Wreck



Survey Notes:

Vessel anchored 20 feet from sonar target on channel side. ROV inspection documented a large and irregularly shaped metallic object with heavy marine growth. The target was partially buried in the sediment and had no distinguishing markings. Due to limited visibility it was not possible to obtain a wide angle view of the entire target but close up video footage documented a hollow structure with an elongated and rounded form. Video footage suggests the presence of rolled metal edges but the amount of marine growth present makes this observation uncertain. Based on the information available, a classification of ‘debris – possible wreckage’ was assigned to the target.

Side Scan Sonar Image:



SONAR TARGET: NHH-0178

Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.277485	-72.913345	661873.91	955101.06

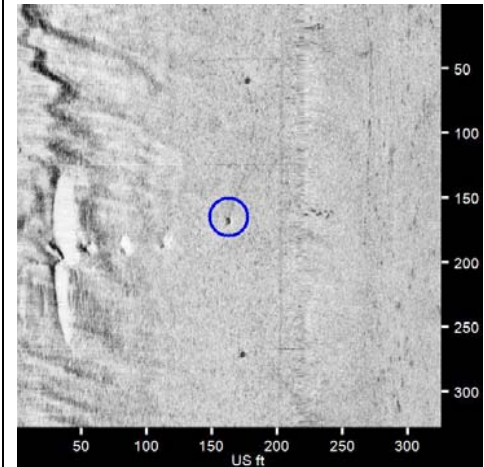
Source File: 008_1747.HSX | Target Length: 3.5 feet | Target Width: 3 feet | Classification: Fishing Gear



Survey Notes:

Vessel anchored 30 feet west of target. Sunken line was located with ROV and followed to location of derelict lobster pot with heavy marine growth. Target was proud of the seafloor. Mesh size was estimated to be 1 inch. Target was classified as derelict fishing gear.

Side Scan Sonar Image:



SONAR TARGET: NHH-0203

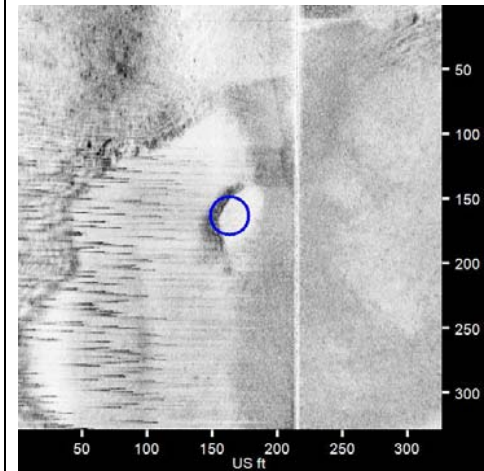
Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.281970	-72.910550	663506.74	955872.45
Source File: 015_1503.HSX	Target Length: 53 feet	Target Width: 15 feet	Classification: Shell Reef	



Survey Notes:

Vessel anchored directly over target. ROV footage documented a large gravel and shell reef along the eastern edge of the existing federal channel. Shell noted to be mostly *Crepidula* sp. Small dip in elevation was observed along western edge of reef. Ambient seafloor sediment was fine sand and silt. Target was classified as a shell reef.

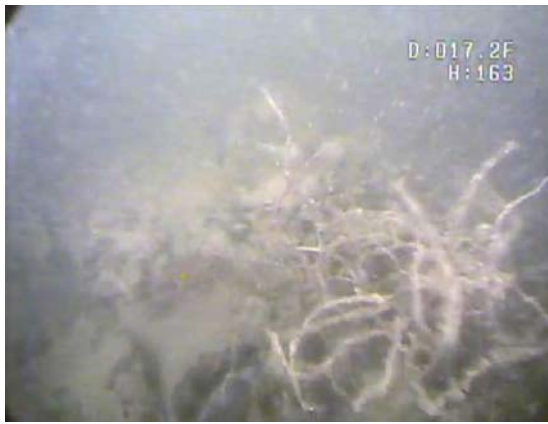
Side Scan Sonar Image:



SONAR TARGET: NHH-0205

Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.282889	-72.910015	663841.24	956020.07

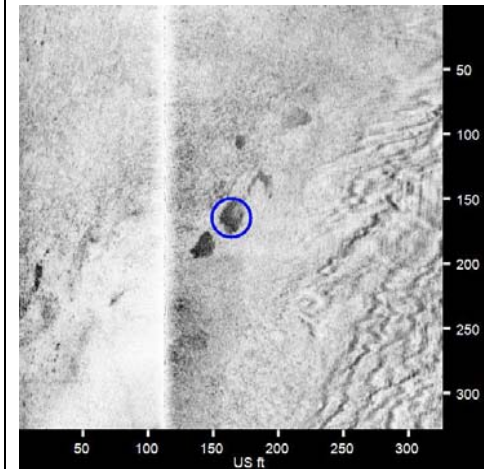
Source File: 015_1503.HSX | Target Length: 63 feet | Target Width: 21 feet | Classification: Disturbed Sediment



Survey Notes:

Vessel anchored approximately 25 feet east of target along edge of channel. Target was an area of partially buried *laminaria* sp. and mixed macroalgae along the toe of the existing channel side slope. Adjacent seafloor noted to be featureless fine grained sediment. Amount of deposition observed suggested slumping of adjacent slope material. Target was classified as an area of disturbed sediment.

Side Scan Sonar Image:

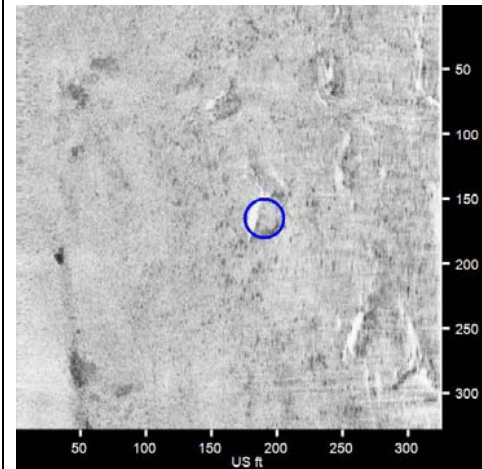


SONAR TARGET: NHH-0215

Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.288226	-72.911063	665786.35	955735.65
Source File: 008_1747.HSX	Target Length: 21 feet	Target Width: 13 feet	Classification: Coarse Substrate	

**Survey Notes:**

Vessel anchored approximately 30 feet north of target. ROV footage documented multiple isolated areas of macroalgae and dense *Crepidula* sp. on an otherwise featureless seafloor. Ambient sediments were predominantly fine grained material. Target was classified as isolated areas of coarse substrate.

Side Scan Sonar Image:

SONAR TARGET: NHH-0217

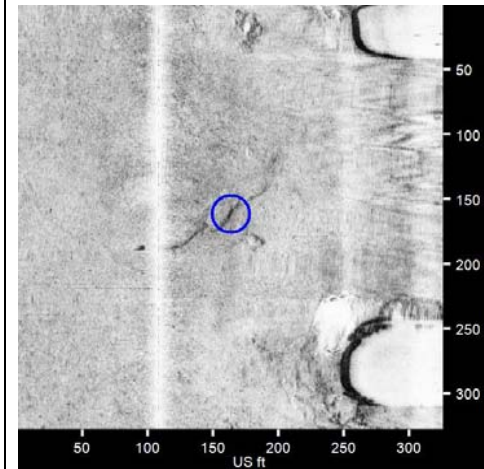
Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.289873	-72.908348	666385.06	956482.99
Source File: 008_1747.HSX	Target Length: 95 feet	Target Width: < 1 foot	Classification: Debris - Cable	



Survey Notes:

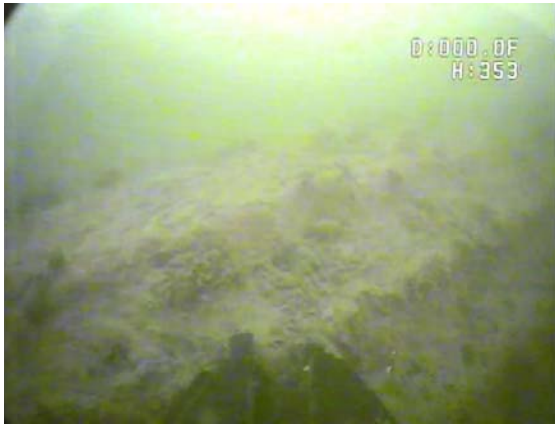
Vessel anchored directly over target. Poor visibility due to high turbidity in water column. After multiple sweeps the ROV picked up a section of discarded cable adjacent to the terminal facility on the eastern shore. Ambient seafloor was featureless fine grained sediment. Target was classified as 'debris – cable'.

Side Scan Sonar Image:



SONAR TARGET: NHH-0221

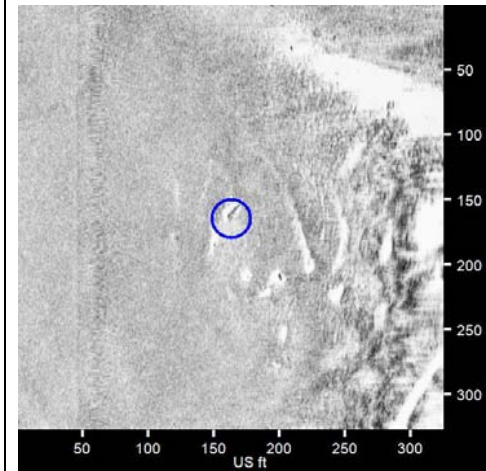
Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.292702	-72.912517	667417.86	955339.24
Source File: 005_1455.HSX	Target Length: 11 feet	Target Width: 2.5 feet	Classification: Debris - Unidentified	



Survey Notes:

Vessel anchored approximately 10 feet north of target. ROV footage documented an unidentifiable target with heavy marine growth in existing anchorage area. Partially buried with attached line. Ribbing or multiple lines running along the length of object. Target was classified as 'debris – unidentified'.

Side Scan Sonar Image:



SONAR TARGET: NHH-0228

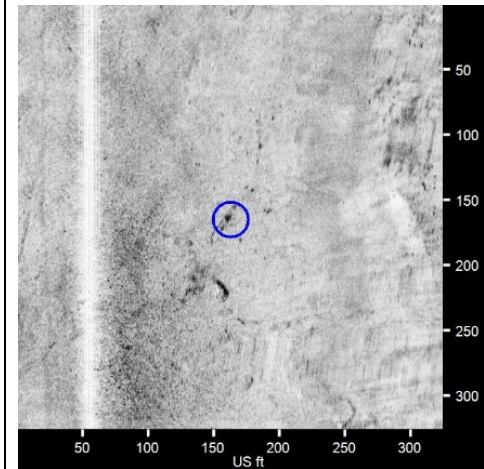
Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):
	41.295380	-72.907333	668391.22	956765.57
Source File: 015_0905.HSX	Target Length: - feet	Target Width: - feet	Classification: Debris - Unidentified	



Survey Notes:

Vessel anchored approximately 30 feet south of target. Multiple sonar contacts identified from side scan sonar data with a possible line visible. No target found with the ROV after multiple passes. Fish caucus noted in survey area. Ambient seafloor was featureless fine grained sediment. High turbidity and location in harbor suggests reworking of sediment. Target was classified as 'debris – unidentified'.

Side Scan Sonar Image:



SONAR TARGET: NHH-0242

Target Location:	Latitude: (NAD83):	Longitude (NAD83):	Northing (CTSP83FT):	Easting (CTSP83FT):			
	41.297225	-72.908892	669063.93	956338.38			
Source File:	015_0905.HSX	Target Length:	27 feet	Target Width:	1.5 feet	Classification:	Debris - Piling



Survey Notes:

Vessel anchored 10 feet south of target. ROV footage documented a fallen timber piling in vicinity of pier along western side of channel. Fine layer of marine growth and damage to the piling were noted. Ambient seafloor is predominantly fine grained sediment. Target was classified as 'debris – piling'.

Side Scan Sonar Image:

