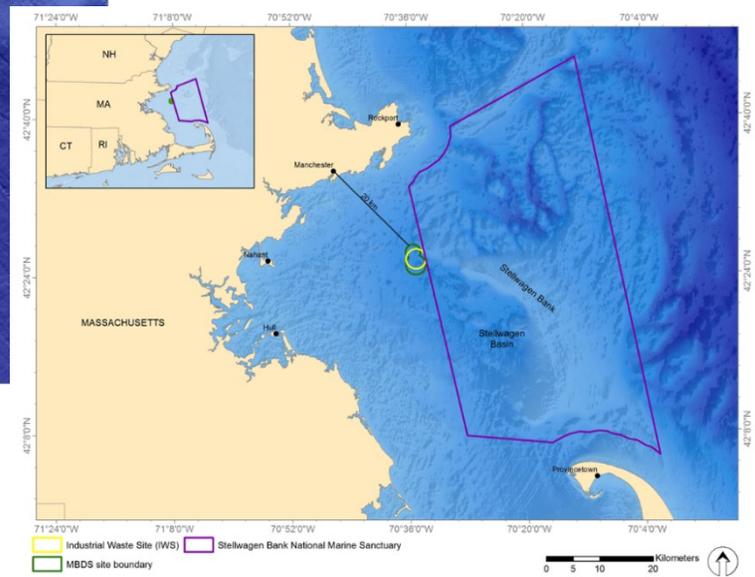
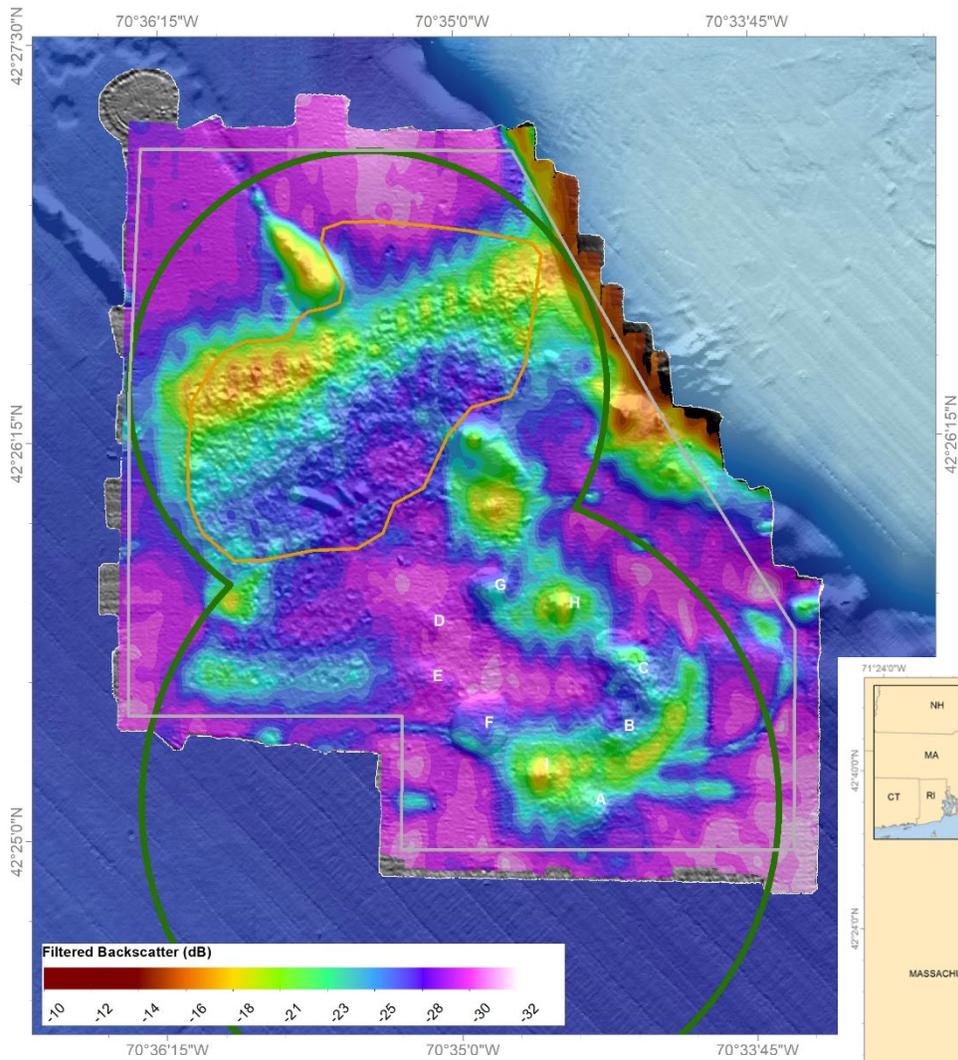
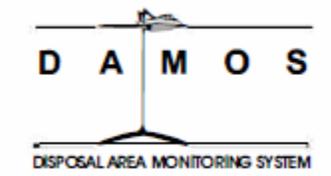


# Summary Report of the Restoration Activities at the Massachusetts Bay Disposal Site 2017 - 2020

## Disposal Area Monitoring System DAMOS



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Restoration Summary Report  
Volume 1  
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New England District

**SUMMARY REPORT OF THE RESTORATION ACTIVITIES  
AT THE MASSACHUSETTS BAY DISPOSAL SITE  
2017 – 2020**

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VOLUME I  
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**Note on units of this report:** As a scientific contribution, information and data are presented in the metric system. However, given the prevalence of English units in the dredging industry of the United States, conversions to English units are provided for the general information in Section 1. A table of common conversions can be found in Appendix A.

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## LIST OF ACRONYMS AND ABBREVIATIONS

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Ac	actinium
ADISS	Automated Disposal Surveillance System
Am	americium
As	arsenic
ASCII	American Standard Code for Information Interchange
AUV	autonomous underwater vehicle
BHNIP	Boston Harbor Navigation Improvement Project
CAD	confined aquatic disposal
CCOM	Center for Coastal and Ocean Mapping
Cd	cadmium
Cs	cesium
CFR	Code of Federal Regulations
cm	centimeters
Co	cobalt
Cr	chromium
Cu	copper
DAMOS	Disposal Area Monitoring System
dB	decibel
DGPS	differential GPS
DQM	Dredging Quality Management
DVR	digital video recorder
EA	Environmental Assessment
EIS	Environmental Impact Statement
ER-L	effects range low
ER-M	effects range median
FADS	Foul Area Disposal Site
GDMS	General Dynamics Mission Systems
GIS	geographic information system
GPS	Global Positioning System

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

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GRD	gridded file format
HD	high definition
HEEC	Harbor Electric Energy Company
Hg	mercury
I	iodine
IWS	Industrial Waste Site
km	kilometer
LED	light-emitting diode
MBDS	Massachusetts Bay Disposal Site
MBES	multibeam echosounder
MLA	Massachusetts Lobstermen's Association
MLLW	Mean Lower Low Water
Mn	Manganese
MRU	motion reference unit
MWRA	Massachusetts Water Resources Authority
m	meter(s)
m <sup>2</sup>	square meter(s)
m <sup>3</sup>	cubic meter(s)
NAD 83	North American Datum of 1983
Ni	nickel
nmi	nautical miles
NOAA	National Oceanic and Atmospheric Administration
NTRIP	Networked Transport of Radio Technical Commission for Maritime Services (RTCM) via Internet Protocol
ODMDS	Ocean Dredged Material Disposal Site
OTI	Outland Technology Inc.
Pb	lead
PPS	pulse-per-second
Pu	plutonium
Ra	radium

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

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ROI	radionuclides of interest
ROV	remotely operated vehicle
RTCM	Radio Technical Commission for Maritime Services
RTK	Real Time Kinematic
SAIC	Science Applications International Corporation
SBNMS	Stellwagen Bank National Marine Sanctuary
SPI	sediment-profile imaging
SSS	side scan sonar
Sr	strontium
SVP	sound velocity profile
TIF	tagged image file
TOC	total organic carbon
U	uranium
UNH	University of New Hampshire
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
yd <sup>3</sup>	cubic yards
Zn	zinc

## 1.0 INTRODUCTION

Between 2017 and 2020 the U.S. Army Corps of Engineers (USACE) New England District (NAE) Disposal Area Monitoring System (DAMOS) Program conducted a series of surveys within the newly expanded boundary of the Massachusetts Bay Disposal Site (MBDS). The United States Environmental Protection Agency (USEPA) temporarily expanded the boundary of the MBDS in 2018 to include a portion of the former Industrial Waste Site (IWS) and allow for restoration of this area through the targeted placement of dredged material. The DAMOS surveys were performed to track the progress of the dredged material placement efforts in the Restoration Area with beneficially used dredged material from the Boston Harbor Navigation Improvement Project (BHNIP). The objective of the directed placements within the Restoration Area was to generate a protective layer of sediment to cover historically disposed waste containers that remained exposed on the seafloor within the IWS.

The DAMOS Program monitored the progress of the restoration effort through focused surveys at the site at varying intervals during the BHNIP. This report provides an overview of the monitoring surveys that were conducted in support of a restoration Pilot Project and actual restoration activities at MBDS.

### 1.1 Overview of the DAMOS Program

The DAMOS Program features a tiered management protocol designed to ensure that any potential adverse environmental impacts associated with dredged material disposal are promptly identified and addressed ([Germano et al., 1994](#)). For over 45 years, under the DAMOS Program, dredged material disposal site data throughout New England have been collected and evaluated. Based on these data, patterns of physical, chemical, and biological responses of seafloor environments to dredged material placement activity have been documented along with the evaluation of any impacts to water quality ([Fredette and French, 2004](#); [Wolf et al., 2012](#)).

DAMOS monitoring surveys fall into two general categories: confirmatory studies and focused studies. The data collected and evaluated during these studies provide answers to strategic questions in determining next steps in the disposal site management process. DAMOS monitoring results guide the management of disposal activities at existing sites, support planning for the use of future sites, and evaluate the long-term status of historical sites ([Wolf et al., 2012](#)).

Confirmatory studies are designed to test hypotheses related to expected physical and ecological response patterns following placement of dredged material on the seafloor at established, active disposal sites. Several survey techniques are employed in order to characterize dredged material placement. Sequential acoustic monitoring surveys (including bathymetric and acoustic backscatter measurements and side-scan sonar) are undertaken to

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characterize the height and spread of discrete dredged material deposits or mounds created at open water sites as well as the accumulation/consolidation of dredged material into confined aquatic disposal cells.

Focused studies are periodically undertaken within the DAMOS Program to evaluate candidate sites, to establish baseline surveys at new sites, to evaluate inactive/historical disposal sites, and to contribute to the development of dredged material placement and capping techniques. Focused DAMOS monitoring surveys often feature additional types of data collection activities as deemed appropriate to achieve specific survey objectives, such as grab sampling of sediment for physical and biological analysis, sub-bottom profiling, sediment coring, towed video, or video collection via a remotely operated vehicle (ROV) and autonomous underwater vehicles (AUV).

The surveys conducted at the Restoration Area to track material placement and restoration progress are considered focused studies to assess restoration activities on an ongoing basis. The monitoring techniques included hydroacoustic surveys to delineate and track the placement of recent disposals over the Site; AUV based side-scan sonar mapping of waste containers and debris; sediment grab sampling to determine the chemical quality of the placed sediments; and towed video.

## **1.2 Industrial Waste Site and Massachusetts Bay Disposal Site Background**

MBDS is located approximately 20 kilometers (km) (10.8 nautical miles [nmi]) southeast of Manchester, Massachusetts, centrally located within Massachusetts Bay and situated adjacent to the Stellwagen Bank National Marine Sanctuary (SBNMS) ([Figure 1-1](#)). Although MBDS was formally designated as an Ocean Dredged Material Disposal Site (ODMDS) by the USEPA in 1993 ([USEPA, 1992](#); [USEPA, 1993](#); [USEPA/USACE, 2009](#)), disposal of a range of materials in the vicinity of MBDS likely dates back to the early 1900s ([USEPA, 2018](#)). The historical IWS is an area partially overlapping the northern portion of MBDS ([Figure 1-2](#)) that received dredged material, construction debris, and industrial waste (including containerized, low-level radioactive wastes) until its closure in 1977. Additionally, an area adjacent to the IWS was established by the USEPA in 1977 termed the Foul Area Disposal Site (FADS) after the IWS was closed. The complete disposal history for the IWS is presented in detail in [USEPA \(2018\)](#) and [USACE \(2015\)](#).

Investigations performed in the 1990s revealed that an estimated 21,000 waste containers remained exposed on the seafloor within the IWS ([USEPA, 2018](#)). In 2018, the USEPA expanded the boundary of MBDS to the north to include an area of the historical IWS with a high density of exposed waste containers on the seafloor (initially termed the priority coverage area, but later known as the Restoration Area). The formal designation of this area as part of MBDS allows for beneficial use of dredged material for restoration purposes within the expanded footprint. The newly expanded MBDS, which includes a

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portion of the historical IWS, is approximately 15.8 km<sup>2</sup> (4.6 nmi<sup>2</sup>) in size, centered at 42° 25.55' N, 70° 35.13' W in the North American Datum of 1983 (NAD 83) ([Figure 1-2](#)).

### **1.3 History of the Restoration Project**

The IWS restoration project was conceived to take advantage of the large volume of dredged material to be generated from the planned BHNIP that would likely be disposed at the adjacent MBDS. While disposal of unsuitable dredged material followed by capping with suitable sediment is prohibited within MBDS through the site designation and management regulations [40 CFR §228.15(b)(2)(vi)] the USEPA determined that suitable dredged material from the BHNIP could be used opportunistically as a cover to address the pre-existing environmental and human health exposure risk potential present within the IWS from historical disposal activity ([USEPA, 2018](#)). This section provides further details about the studies and reports that document the evolution of the restoration design process and the accompanying agency and public review opportunities; a list of associated publications is presented in [Table 1-1](#).

#### **1.3.1 DAMOS Monitoring Survey – 2007**

In 2007 DAMOS performed a confirmatory survey of the portion of MBDS that recently received dredged material. This survey also included acoustic data collection, SPI imaging, and sediment sampling of a previously unused area of the site in preparation for a potential restoration demonstration project at MBDS. The survey concluded that this area was appropriate for the planned demonstration activities and that the existing MBDS reference areas would be suitable for monitoring the recovery of any future restoration efforts at the IWS ([AECOM, 2010](#)).

#### **1.3.2 BHNIP Environmental Impact Statements – 2008 and 2013**

The BHNIP was expected to produce approximately 8.4 million m<sup>3</sup> (11 million yd<sup>3</sup>) of dredged material from the deepening of Boston Harbor with planned disposal at MBDS ([USACE and Massport, 2013](#)). The Draft Feasibility Report (FR) and Draft Supplemental Environmental Impact Statement (SEIS) for the project first proposed the concept of an alternative beneficial use for this dredged material as a cover layer to sequester the waste barrels at the IWS in 2008 ([USACE and Massport, 2008](#)). This alternative was carried through to the Final FR/SEIS in 2013, and both documents were subject to Federal and state agency review as well as the public comment requirements of the National Environmental Policy Act (NEPA).

#### **1.3.3 MBDS Demonstration Project – 2008/2009**

To expand on the restoration concept proposed in the 2008 draft SEIS for the BHNIP, the USACE designed and conducted a Demonstration Project at MBDS to determine the usability of dredged materials from Boston Harbor to develop a cover layer over the

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historical barrel field at the IWS. The focus of this Demonstration Project was to develop an approach to reduce the potential risk to human health and the environment from the exposed waste barrels, minimize the impact on the potentially degraded barrels during the placement process, and beneficially use the large volume of dredged material from the BHNIP with no cost implications to the project.

The Demonstration Project involved the placement of approximately 380,000 m<sup>3</sup> (497,000 yd<sup>3</sup>) of dredged material from the creation of a confined aquatic disposal (CAD) cell in Boston Harbor (material similar in composition to the planned BHNIP) placed along a series of sequential targets to test a berm building technique at MBDS ([Figure 1-2](#)). The Demonstration Project determined that tug operators were capable of accurately placing materials at target coordinates to sequentially construct a berm according to design specifications. This stepwise process, explained in detail in [USACE \(2015\)](#), also demonstrated that sequential, directed placements of Boston Blue Clay and till from Boston Harbor could be used to build a cover layer of dredged material while minimizing direct impacts to exposed waste containers or potentially contaminated sediment at the IWS ([Figure 1-3](#)).

#### **1.3.4 DAMOS Monitoring Surveys – 2012 and 2015**

In 2012 DAMOS conducted a monitoring survey of the recently active portion of MBDS along with an expanded acoustic survey footprint to include the 2008/2009 Demonstration Area. The survey results showed that the dredged material berm created during the Demonstration Project was a stable seafloor feature with no measurable change in elevation since construction ([Carey et al., 2013](#)).

DAMOS revisited MBDS in 2015 to further characterize the area under consideration for expanded site designation and restoration. This effort included an acoustic survey and SPI imaging to define the baseline physical and biological characteristics of the proposed Restoration Area along with an ROV video survey of shipwrecks, debris, and waste barrels in the IWS ([Figure 1-4](#)). The results of the survey concluded that despite historical dredged material deposits and extensive debris, the potential restoration area exhibited benthic infaunal community characteristics similar to reference conditions. It was expected that any effects from future dredged material disposal associated with the planned restoration activities in the IWS would be transient and the infaunal community would quickly reestablish itself following completion of placement operations ([Sturdivant and Carey, 2017](#)).

#### **1.3.5 MBDS Pilot Project – 2017**

In 2017 the USACE conducted a pilot study within the existing MBDS boundary to build on the results of the 2008/2009 Demonstration Project and refine the specific target spacing and volumes needed to create an effective restoration berm ([Table 1-2 and Figure 1-2](#)). The Pilot Project included the placement of approximately 977,799 m<sup>3</sup> (1,278,913 yd<sup>3</sup>) of dredged material from the construction of a new confined aquatic disposal (CAD) cell in

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Boston Harbor and included two DAMOS monitoring surveys to track progress. The results of these surveys are presented in Section 4.0 of this report.

### **1.3.6 USEPA Expansion Rule and Environmental Assessment – 2018**

In May 2018, the USEPA completed the Final Environmental Assessment (EA) on the Proposed Expansion of the Massachusetts Bay ODMDS and Finding of No Significant Impact ([USEPA, 2018](#)). As a result of the EA alternatives analysis, two components were included for the expansion of MBDS. The first component defined the area of the expansion, which increased the Site to 4.60 sq. nmi and fully encompassed the Restoration Area to the north of the previously designated MBDS ([Figure 1-2](#)). This proposed expansion area maintained the current distance from the SBNMS and avoided the large glacial drumlins adjacent to the barrel field ([USEPA, 2018](#)).

The second component of the alternatives analysis determined the length of time the newly designated area will remain open to receive dredged material disposal. USEPA determined that the expanded area will remain open for the duration of the BHNIP and will close once all suitable materials from Boston Harbor have been dredged and disposed of at MBDS. The EA and associated Final Rule were subject to agency review and public comment with all responses to comments available within the Final Environmental Assessment ([USEPA, 2018](#)).

### **1.3.7 Additional Outreach Efforts**

As part of the planning process USACE and USEPA gave multiple presentations to the public and interested stakeholders such as the New England Regional Dredging Team (NERDT), Massachusetts Lobstermen's Association (MLA), Massachusetts Water Resources Authority (MWRA), and numerous other local, state, and watershed groups to outline the approach for the planned restoration effort. Components of the project were also published in the Western Dredging Association (WEDA) journal ([Wolf et al., 2012](#)) and presented at regional and international conferences such as the Society of Environmental Toxicology and Chemistry (SETAC) in 2014 ([Lewis et al., 2014](#)) and the International Conference on Remediation of Contaminated Sediments in 2011 ([Hopkins et al., 2011](#)) and in 2013 ([Wolf et al., 2013](#)).

## **1.4 Restoration Design**

USACE developed the final restoration design based on the results of the 2008/2009 Demonstration Project and the 2017 Pilot Project at MBDS. The design took into consideration the distribution of barrels within the Restoration Area, the estimated volume of material to be dredged during the BHNIP, and a minimum target berm thickness of 1.0 meter to adequately cover the waste barrels at the IWS ([USACE, 2015](#)). In addition, the restoration design took into account sensitive habitat areas to be avoided during disposal activities such as glacial drumlins and Stellwagen Bank.

The operational plan for dredged material disposal followed the directed, sequenced placement approach developed during the Demonstration Project and Pilot Project. The Demonstration Project determined that two sequential disposals at a single target point would create a lateral spread of berm material to insulate the adjacent seafloor, and any waste barrels, from subsequent direct placements (USACE, 2015). The low-energy spreading edge of the berm could then be expanded through directed placements; ultimately forming a cover layer over the Restoration Area. The Pilot Project helped to determine the target spacing required in order to create a continuous cover layer. [Figure 1-3](#) depicts the cover process developed during the Demonstration Project and Section 4.0 of this report presents the findings of the Pilot Project.

## 1.5 Recent Dredged Material Disposal Activity

Since its official designation as an ODMDS in 1993, MBDS has received more than 19 million cubic meters (m<sup>3</sup>) (25 million yd<sup>3</sup>) of dredged material from Boston Harbor and surrounding Massachusetts Bay harbor dredging projects. Site management prior to 2015 focused on the creation of nine distinct disposal mounds (MBDS-A through MBDS-I) on the seafloor within MBDS ([Figure 1-2](#)). Material from smaller, regional dredging projects are still directed to the mound area and not incorporated into the IWS restoration effort. Additionally, DAMOS established a rock placement area near the southernmost glacial drumlin for hard bottom habitat creation with ripped and blasted rock from the BHNIP that was not appropriate for the restoration project.

At the time of the last acoustic survey (September 2020), as detailed within this report, approximately 8.8 million m<sup>3</sup> (11.5 million yd<sup>3</sup>) of dredged material from the BHNIP had been deposited over the active Restoration Area within the expanded MBDS since 2018 (Table 1-3, Appendix B). Figures depicting the disposal process are presented within Section 4.0 of this data summary report. Additional materials were placed within MBDS between 2015 and 2018 from the disposal of approximately 1.2 million m<sup>3</sup> (1.5 million yd<sup>3</sup>) of material from Boston Harbor Maintenance Dredging (2017/2019) and approximately 169,000 m<sup>3</sup> (221,000 yd<sup>3</sup>) of material from smaller dredging projects within the region (Table 1-3, Appendix B).

**Table 1-1.**

## Chronology of IWS Restoration Planning Surveys and Reports

<b>Month/Year</b>	<b>Survey/Report Type</b>	<b>Bathymetric Survey (m x m)</b>	<b>No. SPI Stations</b>	<b>Other</b>	<b>DAMOS Contribution #</b>	<b>Citation</b>
August 2007	Periodic site monitoring	2100 x 3200 multibeam	63	Grain size, moisture content, and Atterberg limits, box cores	181	AECOM, 2010
August 2008	Boston Harbor Navigation Improvement Project Draft SEIS	2001/2004 surveys	MWRA/2003	Grain size, EFH, lobster trawl survey, air quality	-	USACE and Massport, 2008 (Draft)
2008/2009	Restoration Demonstration	Refer to Table 4-1 of Contribution 198			198	USACE, 2015
September 2012	Periodic site monitoring	2000 x 3000 multibeam	48		195	Carey et al., 2013
April 2013	Boston Harbor Navigation Improvement Project Final SEIS	2001/2004 surveys	MWRA/2003	Grain size, EFH, lobster trawl survey, air quality	-	USACE and Massport, 2013
Sept/Oct 2015	Baseline Pre-Restoration Survey	4000 x 4000 multibeam	45	ROV survey	201	Sturdivant and Carey, 2017
May 2018	Restoration Expansion EA	-	-	Alternatives analysis, EFH	-	USEPA, 2018

**Table 1-2.**

## Restoration Survey Events at MBDS

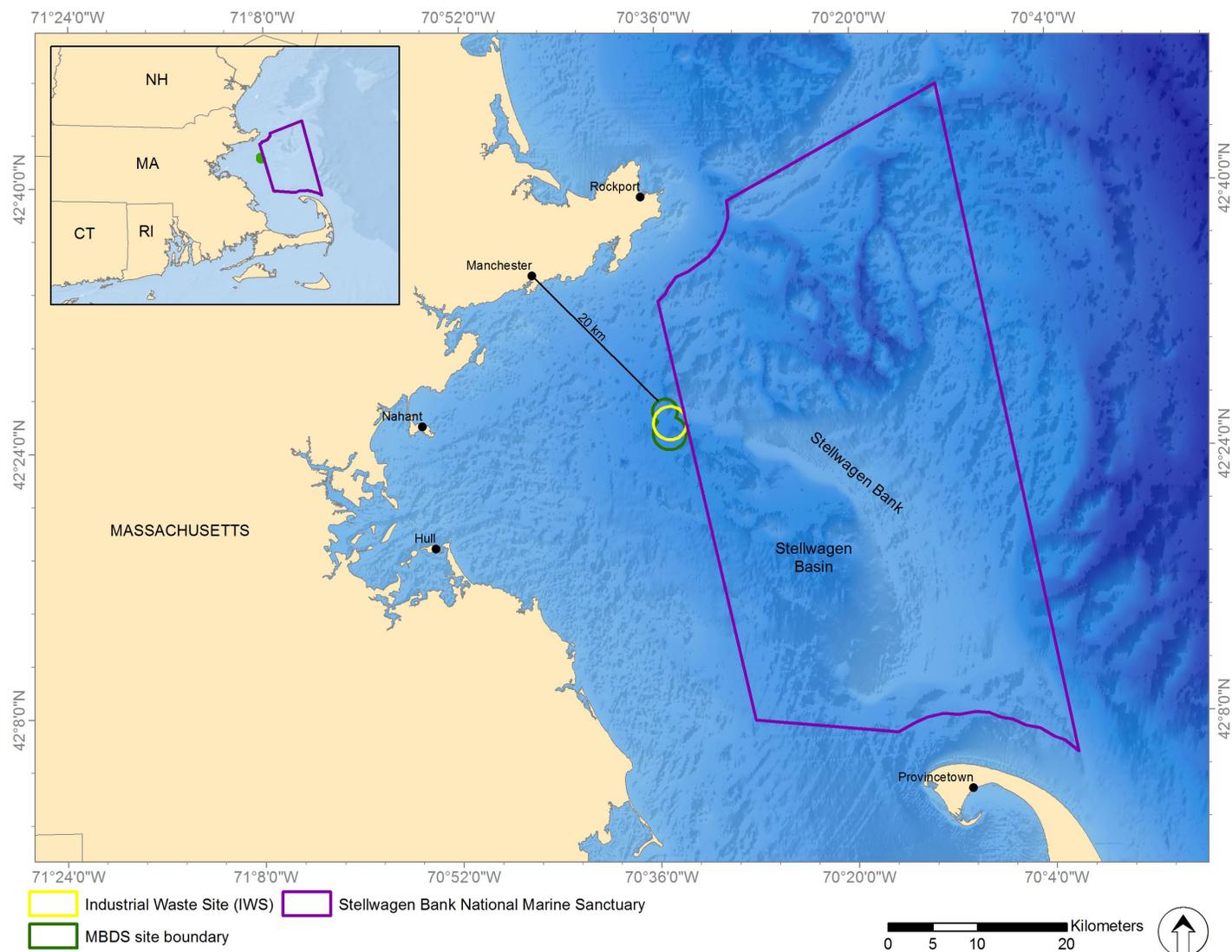
<b>Month/Year</b>	<b>Survey Type</b>	<b>Bathymetric Survey (m x m)</b>	<b>Additional Details</b>
September 2017	Limited acoustic survey	1500 x 1400 multibeam	Pre-Restoration Pilot Study
November 2017	Limited acoustic survey	1800 x 1000 multibeam	Pre-Restoration Pilot Study
August 2018	Limited acoustic survey	1700 x 500 multibeam	Restoration Monitoring
October 2018	Limited acoustic survey	2200 x 500 multibeam	Restoration Monitoring
March 2019	Limited acoustic survey	2300 x 400 multibeam	Restoration Monitoring
June 2019	Periodic site monitoring/Radiological survey	8,000 x 4,000 multibeam	Restoration Monitoring*
September 2019	Limited acoustic survey	2200 x 500 multibeam	Restoration Monitoring
March 2020	Limited acoustic survey	Irregularly Shaped 3,900 m <sup>2</sup>	Restoration Monitoring
September 2020	Limited acoustic survey	1,000 x 450, 1,000 x 500, 1,300 x 600 multibeam	Restoration Monitoring

\*DAMOS Data Reports DR 2019-02 and DR 2019-03

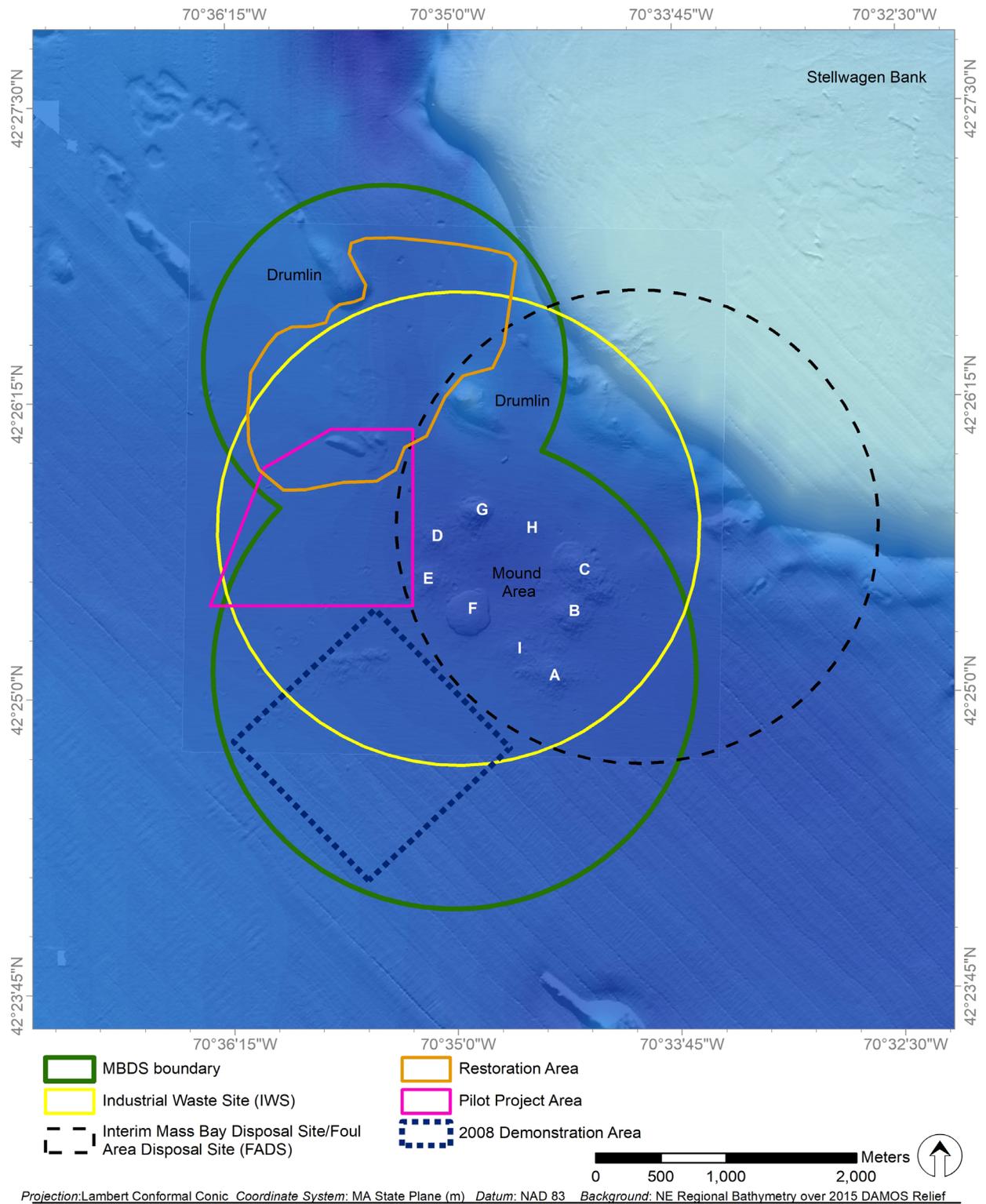
**Table 1-3.**

## Summary of Disposals at MBDS since 2015

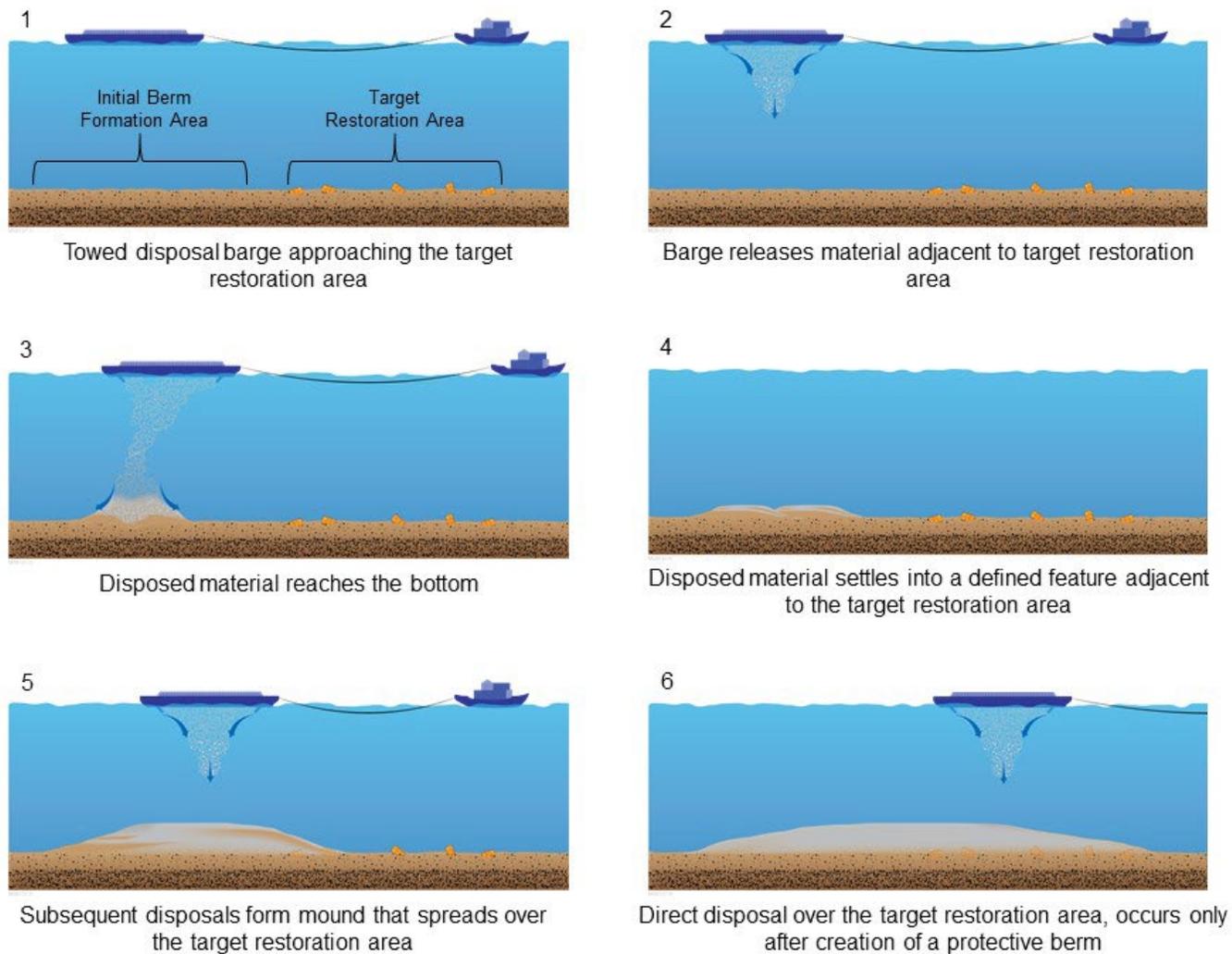
<b>Project</b>	<b>Disposal Year</b>	<b>Volume (yd<sup>3</sup>)</b>	<b>Volume (m<sup>3</sup>)</b>	<b>Project Location</b>
<b>Boston Harbor Dredging</b>				
Boston Harbor Maintenance Dredging	2017	1,278,913	977,799	MBDS
Boston Harbor Improvement	2018	2,730,919	2,087,937	Expanded MBDS
Boston Harbor Improvement	2019	5,405,410	4,132,732	Expanded MBDS
Boston Harbor Maintenance Dredging	2019	266,228	203,546	MBDS
Boston Harbor Improvement	2020	3,314,512	2,534,126	Expanded MBDS
<b>Total</b>		<b>12,955,982</b>	<b>9,905,558</b>	
<b>Regional Harbor Dredging</b>				
Cottage Park Yacht Club	2015	7,378	5,641	Mound I
Cottage Park Yacht Club	2016	2,122	1,622	Mound I
Salem Wharf	2016	13,565	10,371	Mound I
Quincy Shipyard	2016	29,109	22,255	Mound I
Quincy Shipyard	2017	4,079	3,119	Mound I
Eversource Energy	2017	627	479	Mound I
Brewer Hawthorne Cove Marina	2019	8,289	6,337	Mounds E, F, and I
Eversource Harbor Electric Energy Company (HEEC) Cable	2019	17,702	13,534	Mound B
Hingham Harbor	2019	55,906	42,743	Mound A
Plymouth Harbor	2019	38,003	29,055	Mound I
South River	2019	22,989	15,576	Mound I
Brewer Hawthorne Cove Marina	2020	3,608	2,758	Mound I/A
Eversource HEEC Cable	2020	6,865	5,248	Mound B
Plymouth Harbor	2020	6,972	5,330	Mound I
Plymouth Yacht Club	2020	6,168	4,715	Mound A/B
<b>Total</b>		<b>223,382</b>	<b>168,783</b>	



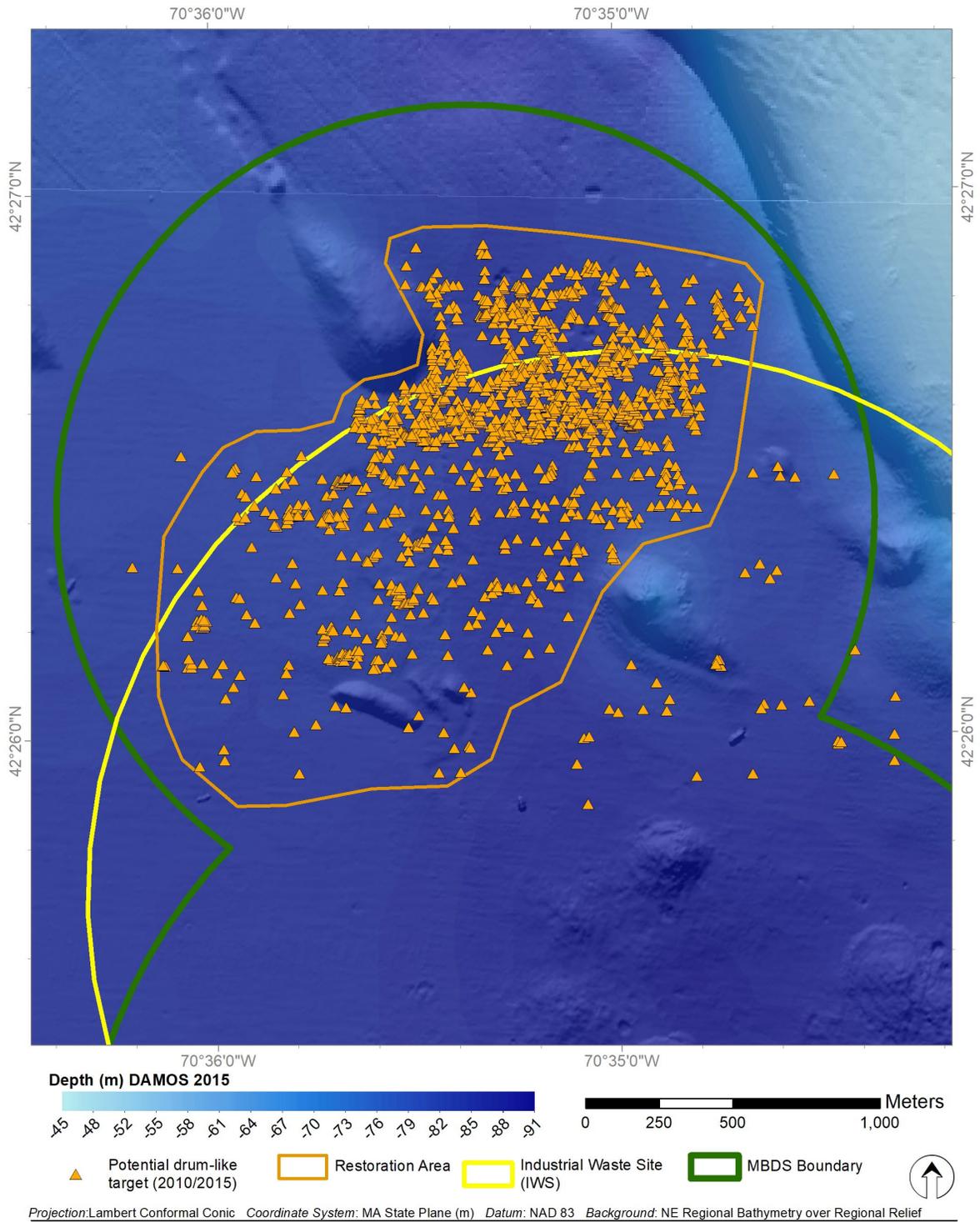
**Figure 1-1.** Location of MBDS/Industrial Waste Site.



**Figure 1-2.** MBDS/IWS boundaries and the Restoration Area.



**Figure 1-3.** Demonstration Project placement approach.



**Figure 1-4.** Drum-like targets within MBDS/IWS – pre-restoration. Data source - USEPA, 2010 and USACE/DAMOS, 2015.

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## 2.0 DISPOSAL PLACEMENT METHODS

During the 2008 Demonstration Project, the USACE developed and tested a disposal method that involved placing dredged material over a target area at MBDS in a stepwise manner in an effort to generate a leading-edge berm. This study was conducted to determine if dredged material could be placed with a technique that would minimize impacts to existing barrels exposed on the seafloor, and the potentially contaminated surrounding sediment, from direct disposal forces during future restoration activities at the IWS ([USACE, 2015](#) and [USEPA, 2018](#)).

### 2.1 Pilot Project

To refine the placement strategy developed during the 2008 Demonstration Project, and to assess the feasibility and effectiveness of the approach at a larger scale, the USACE performed a Pilot Project at MBDS in 2017. The Pilot Project included the placement of approximately 977,799 m<sup>3</sup> (1,278,913 yd<sup>3</sup>) of dredged material from the construction of a new CAD cell in Boston Harbor at a series of targets along the northern boundary of MBDS ([Figure 2-1](#)). Results from this study are presented in Section 4.0 of this report and led to a reduction for disposal target spacing from 100 meters to 50 meters in order to create a consistent berm thickness.

### 2.2 Restoration Project

In order to implement the placement strategy from the Demonstration and Pilot Projects for actual restoration efforts, the USACE first identified an area within the expanded MBDS, on the southwestern edge of the Restoration Area, where barrels and/or containers were not observed during previous surveys as shown on [Figure 1-4](#).

To initiate the strategy, restoration disposals were planned in priority, phased groups (Phases 1 through 5). [Table 2-1](#) and [Figure 2-1](#) outline the proposed target disposal volumes and the phased approach to disposal placements prior to the start of restoration activities. As displayed, disposals were to begin in the southwestern corner of the Restoration Area with placements planned to proceed across the site in a sequential manner. The first Phase 1 placements were intended to generate the initial low-impact berm and subsequent disposals were planned to be placed on the leading edge of the berm, expanding the cover layer into the barrel field. Additional (supplemental) restoration areas were planned outside of the primary Restoration Area, but within the expanded MBDS footprint, to utilize any remaining dredged material in lower priority areas, where exposed waste barrels were present at lower densities ([Figure 2-1](#)).

### **2.3 Scow Placement**

As with the Demonstration and Pilot Projects, dredged material planned for placement within the Restoration Area was transported by split-hull scow and tug from Boston Harbor to the MBDS Restoration Area. The USACE developed an operations plan that was provided to the tug captains for each phase of the restoration project. These plans included preferred headings for the disposal lines and the target coordinates for each individual load of dredged material.

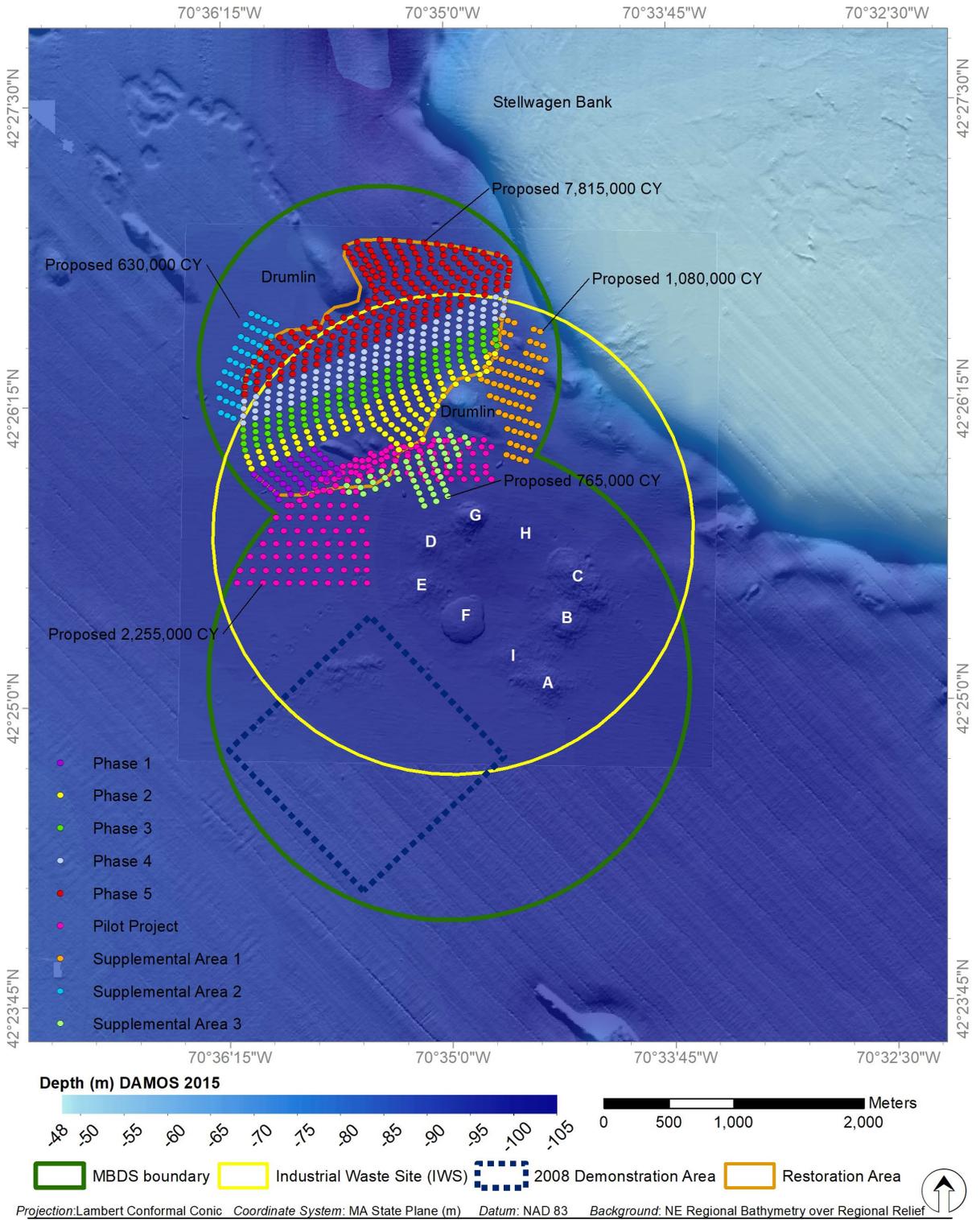
### **2.4 Material Tracking**

The USACE continually monitored the sequenced disposal approach through the National Dredging Quality Management Program (DQM). DQM allowed for nearly real-time monitoring of a variety of parameters on the scow including disposal location, heading, speed, hull open status, and displacement. DAMOS also implemented several monitoring surveys at various intervals during the restoration process. Acoustic monitoring was the most frequently implemented approach; this technique allowed for regular mapping of material placement to confirm the disposal locations and calculate berm thickness. Survey monitoring techniques are further discussed in Section 3.0.

**Table 2-1.**

## Restoration Area Target Disposal Volumes

<b>Target Area</b>	<b>Target Disposal Volume (yd<sup>3</sup>)</b>	<b>Target Disposal Volume (m<sup>3</sup>)</b>
Pilot Study Area	2,255,000	1,724,071
Restoration Area	7,815,000	5,974,996
Supplemental Area 1	1,080,000	825,719
Supplemental Area 2	630,000	481,669
Supplemental Area 3	765,000	584,884
<b>Estimated Total Project Volume</b>	<b>15,545,000</b>	<b>11,885,005</b>



**Figure 2-1.** Pilot Project and Restoration Area targets.

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### 3.0 MONITORING SURVEY METHODS

The DAMOS Program conducted nine monitoring surveys in support of the restoration activities at the MBDS since the Pilot Project in 2017. This section provides an overview of the techniques implemented during those surveys.

#### 3.1 Navigation and On-Board Data Acquisition

Navigation for the acoustic survey was accomplished using a Hemisphere VS-330 Real Time Kinematic (RTK) Global Positioning System (GPS) which received base station correction through the Keynet Networked Transport of Radio Technical Commission for Maritime Services (RTCM) via Internet Protocol (NTRIP) broadcast. Horizontal position accuracy in fixed RTK mode was approximately 2 centimeters (cm). A dual-antennae Hemisphere VS110 differential GPS (DGPS) was available as a backup, if necessary. The GPS system was interfaced to a desktop computer running HYPACK<sup>®</sup> hydrographic survey software. HYPACK<sup>®</sup> continually recorded vessel position and GPS satellite quality and provided a steering display for the vessel captain to accurately maintain the position of the vessel along pre-established survey transects. Vessel heading measurements were provided by an IxBlue Octans III fiber optic gyrocompass.

#### 3.2 Acoustic Surveys

The multibeam surveys included bathymetric, backscatter, and side-scan sonar data collection. The bathymetric data provided measurements of water depth that, when processed, were used to map the seafloor topography. Backscatter and side-scan sonar data provided images that supported characterization of surface sediment texture and roughness. Each of these acoustic data types is useful for assessing dredged material placement and surface sediment features. Acoustic survey areas are displayed on [Figure 3-1](#).

##### 3.2.1 Bathymetry, Backscatter, and Side-Scan Data Collection

Data layers generated by the surveys included bathymetric, acoustic backscatter, and side-scan sonar and were collected using an R2Sonic 2022 broadband multibeam echo sounder (MBES). The MBES transducer was mounted amidships to the port rail of the survey vessel using a high-strength adjustable boom. The primary GPS antenna was mounted atop the transducer boom. The transducer depth below the water surface (draft) and antenna height were checked and recorded at the beginning and end of data acquisition and draft was confirmed using the “bar check” method.

An IxBlue Octans III motion reference unit (MRU) was interfaced to the MBES topside processor and to the acquisition computer. Precise linear offsets between the MRU and MBES were recorded and applied during acquisition. Depth and backscatter data were synchronized using pulse-per-second (PPS) timing and transmitted to the HYPACK MAX<sup>®</sup>

acquisition computer via Ethernet communications. Patch calibration tests were conducted before and during the survey to allow computation of angular offsets between the MBES system components.

The system was calibrated for local water mass speed of sound by performing sound velocity profile (SVP) casts at frequent intervals throughout the survey day using an AML, Inc. MinosX sound velocity profiler.

### **3.2.2 Bathymetric Data Processing**

Bathymetric data were processed using HYPACK HYSWEEP<sup>®</sup> software. Processing components included the following:

- Adjustment of data for tidal elevation fluctuations;
- Correction of ray bending (refraction) due to density variations in the water column;
- Removal of spurious points associated with water column interference or system errors;
- Development of a grid surface representing depth solutions;
- Statistical estimation of sounding solution uncertainty; and
- Generation of data visualization products.

Tidal adjustments were accomplished using RTK GPS verified against tide data using records obtained from the National Oceanic and Atmospheric Association's (NOAA's) Boston Tide Station (#8443970). Details of tidal adjustments and their impacts on specific acoustic datasets are described within the individual cruise reports.

Processed data were exported in American Standard Code for Information Interchange (ASCII) text format with fields for Easting, Northing, and Mean Lower Low Water (MLLW) elevation (meters). All data were projected to the Massachusetts Mainland State Plane, NAD 83 (metric). A variety of data visualizations were generated using a combination of ESRI ArcMap and Golden Software Surfer programs.

### **3.2.3 Backscatter Data Processing**

Backscatter data were extracted from cleaned MBES TruePix formatted files and then used to provide an estimation of surface sediment texture based on seabed surface roughness. Mosaics of backscatter data were created using HYPACK<sup>®</sup>'s implementation of GeoCoder software developed by scientists at the University of New Hampshire's NOAA Center for Coastal and Ocean Mapping (UNH/NOAA CCOM). A seamless mosaic of unfiltered backscatter data was developed and exported in grayscale tagged image file (TIF) format using a 1 m x 1 m pixel resolution. Backscatter data were also exported in ASCII format with fields for Easting, Northing, and backscatter in decibels (dB). These data were converted to

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grid format and a Gaussian filter was applied to the grid to minimize nadir artifacts. The filtered data were used to map backscatter values on a 2 m x 2 m grid. The grid was exported in ESRI binary gridded file format (GRD) to facilitate comparison with other data layers.

### 3.2.4 Side-Scan Sonar Data Processing

Side-scan sonar data were processed using Chesapeake Technology, Inc. Sonar Wiz software to generate a database of images that maximized both textural information and structural detail. Data were processed using gain adjustment methods to minimize nadir artifacts and facilitate visualization of fine seabed structures. Seamless mosaics of side-scan sonar data were developed using SonarWiz and exported in grayscale TIF format.

### 3.2.5 Acoustic Data Analysis

Bathymetric data for each of the MBDS monitoring surveys were compared to data collected for DAMOS during the 2015 baseline survey. Surfaces were developed from these comparisons representing elevation changes (depth differences) between survey dates. Elevation differences were considered to be significant if they were equal to or greater than 0.5 m (estimated average survey vertical uncertainty for the combined survey data sets).

The backscatter mosaics and filtered backscatter grids were combined with acoustic relief models in geographic information systems (GIS) to facilitate visualization of the relationships between acoustic datasets. This was done by rendering images and color-coded grids with sufficient transparency to allow the three-dimensional acoustic relief model to be visible underneath. Models for backscatter and side scan sonar (SSS) can be found within the specified survey reports.

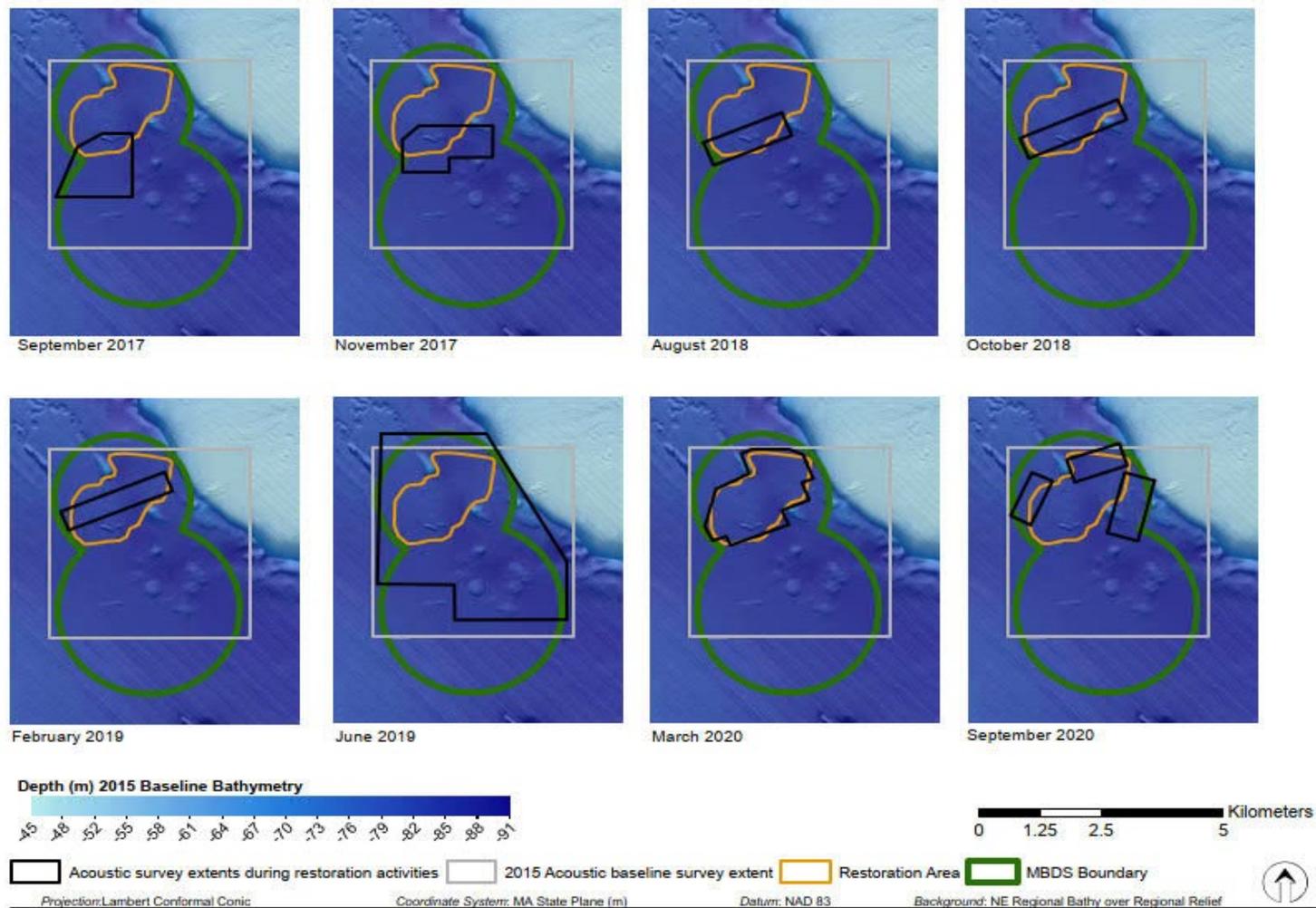
## 3.3 Sediment Sampling

The DAMOS Program also conducted a sediment sampling study over MBDS in June of 2019. During this study, sediment samples were collected from twenty locations within the Restoration Area, one location in an unused portion of MBDS, and two samples from separate disposal scow loads of BHNIP dredged material ([Figure 3-2](#)). Sediment samples were analyzed for radionuclides of interest (ROIs) (Americium [Am]-241, Cesium [Cs]-137, Cobalt [Co]-60, Iodine [I]-131, Manganese [Mn]-54, Actinium [Ac]-228, Radium [Ra]-228, Radium [Ra]-226, Plutonium [Pu]-238, Plutonium [Pu]-239, Plutonium [Pu]-241, Strontium [Sr]-90, Uranium [U]-234, Uranium [U]-235, and Uranium [U]-238) using gamma spectroscopy. Additional analyses included grain size, total organic carbon (TOC), percent moisture, and metals (arsenic [As], cadmium [Cd], chromium [Cr], copper [Cu], lead [Pb], nickel [Ni], mercury [Hg], and zinc [Zn]). Specifics of the collection methods and analysis techniques are included in the Data Summary Report for the Sediment Grab Sampling Survey at the MBDS ([USACE, 2021b](#)).

### **3.4 Underwater Video and Autonomous Underwater Vehicle Surveys**

Underwater video was collected within the active Restoration Area as part of the June 2019 monitoring survey. The intent of the underwater video survey was to document the nature of the seafloor and the clarity of the water column prior to deploying the AUV. Underwater video was collected using a GoPro camera mounted to the frame of a sediment grab sampler. Video Start and Stop locations are displayed on [Figure 3-3](#).

An AUV acoustic survey was conducted as part of the monitoring study in June 2019. During this survey, high-resolution SSS data were collected over the portion (2.5 x 1.0 km area) of MBDS actively receiving dredged materials for restoration ([Figure 3-3](#)). This survey was conducted under the DAMOS Program by General Dynamics Mission Systems (GDMS), using their BlueFin<sup>TM</sup>-9 AUV system. Radioactivity screenings were conducted pre/post survey due to the potential for the equipment to come in contact with the seafloor, however, radioactive material was not detected.



**Figure 3-1.** Hydroacoustic survey boundaries, 2017–2020.

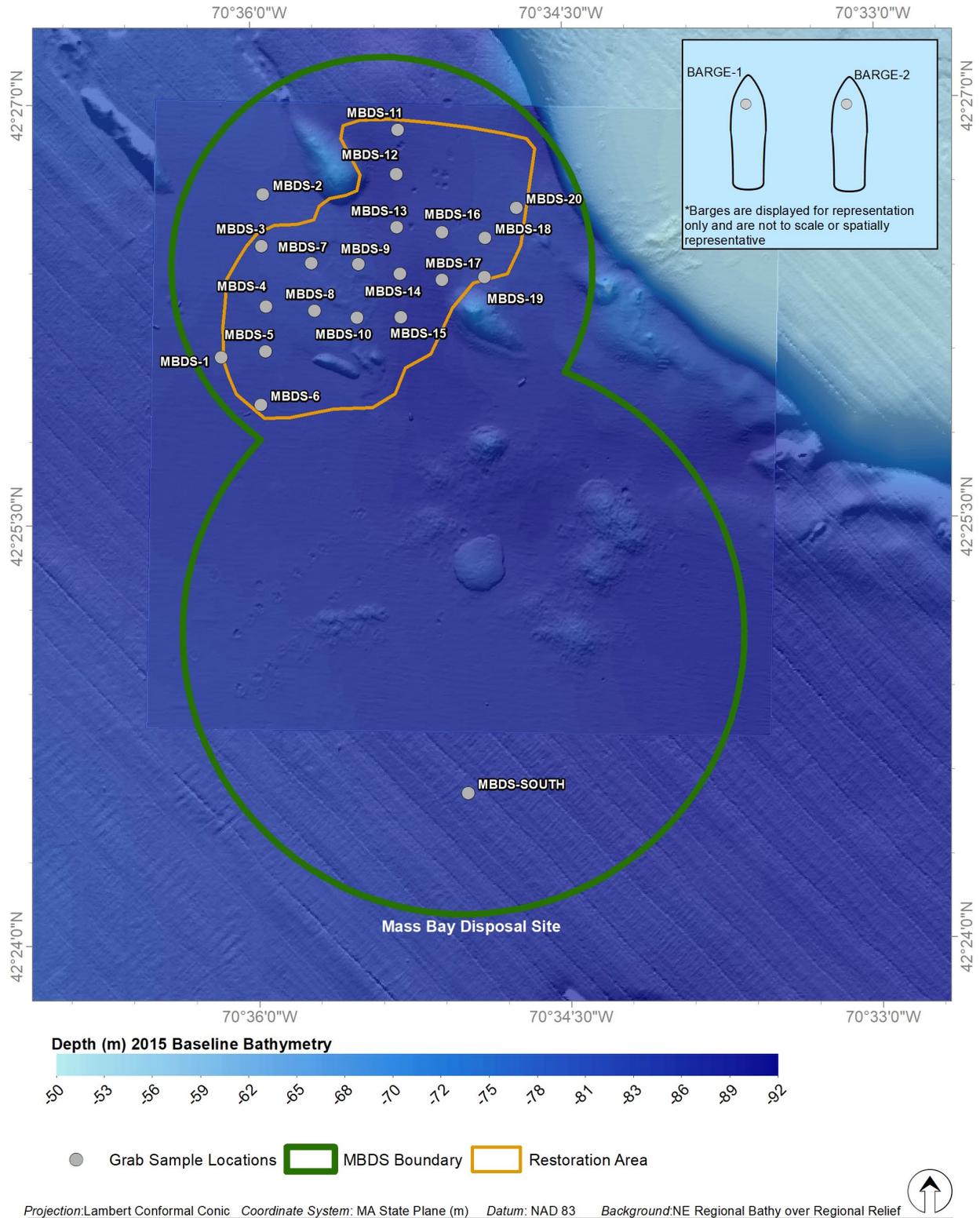
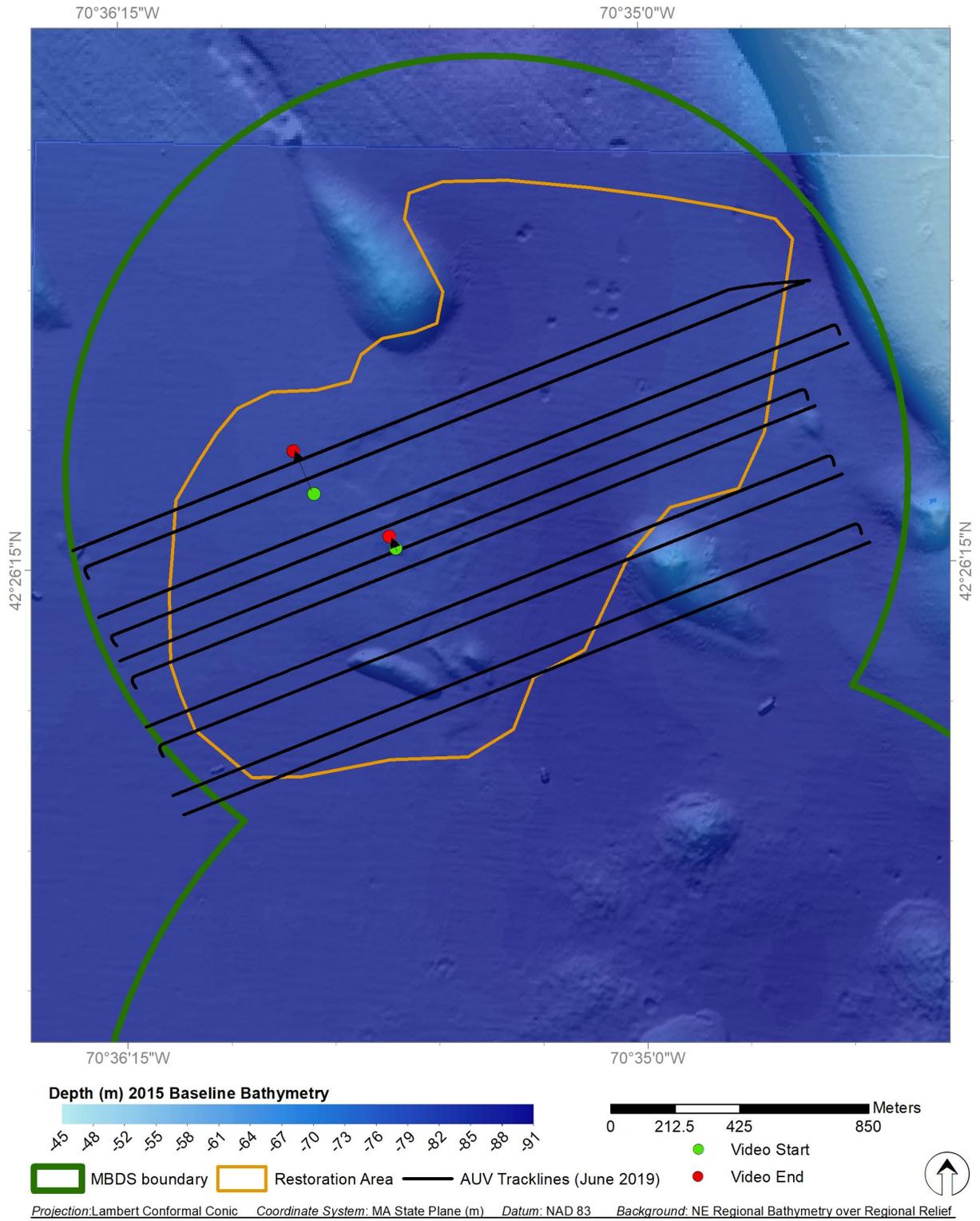


Figure 3-2. Sediment grab sampling locations – June 2019.



**Figure 3-3.** AUV and Underwater Video survey tracklines – June 2019.

## 4.0 RESULTS

Results of the DAMOS surveys performed over the expanded MBDS from 2017 through 2020 are presented within this section; the objective was to describe the Pilot Study and the restoration process through the stepwise survey methods that occurred during disposal activities. The following subsections highlight the disposal placement volumes between survey events, the bathymetric results paired with the acoustic relief, the modeled depth difference compared to the 2015 baseline survey, and filtered backscatter to display variations in bottom sediment texture.

### 4.1 September 2017 – Pilot Project Acoustic Survey

In September 2017, DAMOS performed an acoustic survey to monitor the progress of the MBDS Pilot Project and to evaluate the appropriate disposal spacing required to create an effective berm. The location of the acoustic survey was an approximately 1,400 m x 1,500 m irregularly shaped area within MBDS. Prior to the September survey approximately 425,000 m<sup>3</sup> (555,890 yd<sup>3</sup>) of material was placed as part of the Pilot Project that began in July of 2017. The disposal plan called for 10,000 yd<sup>3</sup> (7,645 m<sup>3</sup>) of dredged material to be placed at each target spaced 100 m apart ([Figure 4-1](#)).

Results of the survey showed that disposal of 10,000 yd<sup>3</sup> of material spaced 100 m apart was not sufficient to generate a consistent 0.5 to 1.0 m thick berm necessary to support the restoration efforts. The depth difference model indicated that the target berm thickness of 0.5 to 1.0 m was achieved at individual disposal points; however, the spacing between targets lacked the necessary overlap to generate a continuous berm. Filtered backscatter data displayed characteristic dredged material markers in the area where disposals occurred, displayed as coarser material (-30 to -33 dB) distinct from the texture of the surrounding ambient seafloor (-37 to -40 dB) ([Figure 4-1](#)).

### 4.2 November 2017 – Pilot Project Acoustic Survey

DAMOS conducted an additional pre-restoration acoustic survey in November 2017 which spanned the Pilot Project area and a portion of the new Restoration Area. Approximately 552,770 m<sup>3</sup> (723,000 yd<sup>3</sup>) of dredged material was placed in this area as part of the Pilot Project between the September 2017 and the November 2017 survey periods using an adjusted target spacing and volume ([Figure 4-2](#)). The acoustic survey area covered an approximately 1,500 m x 1,800 m irregularly shaped area.

The objective of the survey was to further refine the appropriate spacing and volume for restoration disposals. [Figure 4-2](#) displays the depth difference model which confirmed that tighter spacing between the targets (50 m) with an increased disposal volume (15,000 yd<sup>3</sup> [11,468 m<sup>3</sup>]) per placement was effective in building a consistent berm at least 1.0 m thick. The filtered backscatter displayed a distinct variation in sediment texture where

dredged material was placed, displayed as coarser material (-30 to -33 dB) in comparison to the texture of the surrounding ambient seafloor (-37 to -43 dB) ([Figure 4-2](#)). The backscatter signal also served to identify the leading edge of the berm extending beyond the direct disposal area where the elevation change was within the uncertainty of the depth difference model ( $\pm 0.5$  m) and not apparent in the bathymetric data alone ([Figure 4-2](#)).

### **4.3 August 2018 – Acoustic Monitoring Survey**

Restoration activities in the priority Restoration Area began in July of 2018 after the USEPA designated the expanded MBDS boundary ([USEPA, 2018](#)). Between July and August 2018, approximately 391,000 m<sup>3</sup> (511,000 yd<sup>3</sup>) of dredged material from the BHNIP was deposited on the southern edge of the Restoration Area ([Figure 4-3](#)).

The acoustic survey covered a 500 m x 1,700 m rectangular area and the results of the depth differencing model showed that dredged material was forming a berm with a thickness of 0.5 to > 3.5 m. Results of the filtered backscatter displayed coarser sediment within the area of most recent disposal activity. The leading edge of the berm to the north of the recent disposals was also apparent within the filtered backscatter, displayed as coarser materials spreading from the initial disposal locations ([Figure 4-3](#)).

### **4.4 October 2018 – Acoustic Monitoring Survey**

DAMOS conducted the next acoustic monitoring survey in October 2018 to assess the disposal progress that occurred since the previous survey in August 2018. Between the August and October surveys, approximately 902,282 m<sup>3</sup> (1,180,140 yd<sup>3</sup>) of dredged material from the BHNIP was placed within the Restoration Area ([Figure 4-4](#)).

The acoustic survey covered a 500 m x 2,000 m rectangular area. Dredged material disposals were visible on the bathymetry, appearing as a rough surface that differed from the ambient seafloor. Results of the depth differencing model indicated that the directed placement of dredged material was expanding the initial berm which was now approximately 0.5 to >4.0 m thick in some areas. Results of the filtered backscatter displayed the coarser leading edge of the berm (-16 to -23 dB) adjacent to where the majority of the dredged material was newly placed. The survey also confirmed that dredged material disposals successfully avoided direct placements on the glacial drumlins in this portion of the Restoration Area ([Figure 4-4](#)).

### **4.5 March 2019 – Acoustic Monitoring Survey**

An acoustic monitoring survey was conducted in March 2019 to continue assessing the disposal progress within the MBDS Restoration Area since the previous survey in October 2018. During the October 2018–March 2019 timeframe, approximately 1,204,860 m<sup>3</sup> (1,575,900 yd<sup>3</sup>) of dredged material from the BHNIP was placed within the Restoration Area ([Figure 4-5](#)).

The March 2019 acoustic survey covered a 450 m x 2,300 m rectangular area. Evidence of the latest dredged material disposals were visible in the bathymetric data displayed as a rough surface with some apparent disposal craters. Results of the depth differencing model depicted a uniform dredged material berm ranging from 0.5 to >5.5 m thick. As shown on the depth differencing model, dredged material was building up along the southern portion of the survey area in locations where previous disposals had occurred. The leading edge or lateral spread of the berm was apparent within the filtered backscatter data extending to the north of the recent placement area ([Figure 4-5](#)).

## 4.6 June 2019 – Comprehensive Survey

### 4.6.1 Acoustic Monitoring Survey

DAMOS, in partnership with USEPA, conducted an acoustic monitoring survey in June 2019 which covered the Restoration Area and the MBDS disposal mound area to the south. The acoustic data were compared to the 2015 baseline dataset to provide a comprehensive look at the site at the approximate midpoint of the restoration effort. Additional survey details and results are located within DAMOS Data Report 2019-02 ([USACE, 2021a](#)) with a summary presented below.

At the time of the June 2019 survey, approximately 3.8 million m<sup>3</sup> (5 million yd<sup>3</sup>) of dredged material from the BHNIP had been deposited over the active Restoration Area. As previously discussed, approximately 1 million m<sup>3</sup> (1.3 million yd<sup>3</sup>) of dredged material was placed within MBDS as part of the Pilot Project that was conducted prior to restoration activities. Additional material was placed in the disposal mound area from smaller dredging projects within the region which included approximately 76,455 m<sup>3</sup> (100,000 yd<sup>3</sup>) of material ([Figure 4-6](#)).

The June 2019 acoustic survey covered an approximately 4,000 m x 4,000 m irregularly shaped area ([Figure 4-7](#)). New disposal features were apparent within the Restoration Area, the Pilot Project area, and the disposal mound area. Results of the depth differencing model showed that directed dredged material disposals generated a cover over the majority of the Restoration Area with the disposal berm reaching a maximum thickness of approximately 4.0 m to 5.0 m ([Figure 4-8](#)). The uniform berm coverage in the Restoration Area was in contrast to the irregular surface noted in the Pilot Project portion of MBDS. Two disposal mounds, Mounds H and I, also showed accumulation of dredged material in the depth difference model from the disposal activity from smaller dredging projects ([Figures 4-7 and 4-8](#)).

Backscatter signals ranged from -10 to -32 dB; coarser substrate was visible on the leading edge (northern portion) of the active Restoration Area and on/around the glacial drumlins. A distinct change in sediment type, distinguished by the variability within the filtered backscatter, was visible around areas where recent disposals had occurred and was apparent within the Restoration Area and over the southern mound area ([Figure 4-9](#)).

## 4.6.2 Sediment Sampling Survey

Full documentation of the sediment sampling results are presented within DAMOS Data Report 2019-03 ([USACE, 2021b](#)) and a summary of the results is presented below.

Sediment grab samples were collected from 20 stations within the MBDS Restoration Area; 16 samples from the newly formed restoration berm and four samples from the portion of the Restoration Area that had yet to receive dredge material ([Figure 4-10](#)). For comparison, two sediment samples were collected directly from disposal scows on different dates to provide baseline information on sediment coming from the BHNIP (cover material prior to contact with potentially contaminated material at the IWS). Samples from the scows were collected from two different grain size groups – one sample targeted sediments that were composed of finer materials (Boston Blue Clay) and the second sample targeted sediments that were composed of glacial till in order to represent the range of sediments used in the restoration effort. A sample was also collected in the southern portion of MBDS (MBDS-South) to represent seafloor conditions within the Site where restoration activities, or previous disposals, have not occurred ([Figure 4-10](#)). Due to the potential presence of radiological materials, all grab samples were screened aboard the survey vessel (screening method described within [USACE, 2021b](#)) and then analyzed at designated testing laboratories for radiological activity, as well as chemical concentrations and physical characteristics.

### 4.6.2.1 Metals Results

Sediment samples were analyzed for the metals listed in Section 3.3 (As, Cd, Cr, Cu, Pb, Hg, Ni, and Zn). Metals were detected at low levels in all samples collected during the survey. Concentrations at all locations within the MBDS Restoration Area, the two scows, and the MBDS-South location were less than the associated effects range median (ER-M) values for the analyzed metals and were also less than the effects range low (ER-L) for cadmium, lead, and zinc. In general, samples collected within the active Restoration Area yielded similar concentrations to samples collected from the scows and southern reference location and were consistent with the signature of dredged material that is suitable for open water disposal. Additional detail related to the metals results can be found within DAMOS Data Report 2019-03 ([USACE, 2021](#)).

### 4.6.2.2 Radiological Results

Sediment samples were analyzed for the ROIs listed in Section 3.3 and detailed results are included in DAMOS Data Report 2019-03 ([USACE, 2021b](#)). As a point of reference, radiological analysis results were compared to the laboratory method detection limits because these levels were often less than risk-based remediation criteria. Results were also compared to the samples collected from the two dredged material disposal scows to provide background data on sediments prior to placement at the restoration site, and to the available ROI background values for New England. The radiological sampling results

determined that all of the ROI values in the June 2019 sediment sampling study were within the background concentration range for New England ([USACE, 2021b](#)).

#### 4.6.2.3 Underwater Video and Autonomous Underwater Vehicle

As part of the June 2019 survey, DAMOS utilized an AUV to survey the Restoration Area. Prior to deploying the AUV, a frame mounted underwater video camera was deployed to assess seafloor conditions and water column turbidity after the recent disposal activity. The underwater video reconnaissance effort confirmed that near-bottom visibility in the active Restoration Area wasn't adequate to capture useable video footage and the AUV survey was limited to side-scan sonar data collection.

The SSS results were used to quantify debris/targets within the Restoration Area after approximately 5.3 million m<sup>3</sup> (7 million yd<sup>3</sup>) of material had been placed. [Figure 1-4](#) displays the density of targets within the Restoration Area prior to the placement of dredged material and [Figure 4-11](#) displays the targets identified in the 2019 SSS data at the approximate midpoint of the restoration effort. The full contact report from the 2019 AUV survey is provided in Appendix C.

Prior to restoration activities, it was estimated that over 21,000 waste drums or drum-like targets were present within the Restoration Area ([Figure 1-4](#)). At the time of the June 2019 AUV survey, approximately 193 targets were identified in the SSS data; however, none of the targets identified during this survey were classified as barrels or "drum-like targets". The majority of features were identified as lobster pots and the remaining features were generally classified as debris or scour marks ([Figure 4-11](#)). Based on the analysis of the AUV SSS data, the restoration berm was successfully covering the previously exposed waste drums within the active Restoration Area.

#### 4.7 September 2019 – Acoustic Monitoring Survey

DAMOS conducted the next acoustic monitoring survey in September 2019 to survey placements in the northern portion of the Restoration Area. Since the previous survey in June 2019, approximately 1,192,350 m<sup>3</sup> (1,559,540 yd<sup>3</sup>) was placed over this portion of the Restoration Area ([Figure 4-12](#)).

The September 2019 survey covered a 2,200 m x 400 m rectangular area over the active restoration site. Similar to previous surveys, disposals were visible within the bathymetric data, displayed as a rough surface with some apparent disposal craters. Results of the depth differencing model identified an expanded berm in the area that had recently received dredged material. Berm thickness ranged from 0.5 to 4.5 m, with most areas displaying an accumulation of 1.0 to 2.0 m of dredged material ([Figure 4-12](#)).

#### 4.8 March 2020 – Acoustic Monitoring Survey

By the end of October 2019, placements at all five target phases of the primary Restoration Area (shown on [Figure 2-1](#)) were complete and the disposal strategy shifted to infilling areas of the berm that were identified with less than 1 meter of coverage in previous surveys ([Figures 4-1 to 4-5 and 4-8](#)) and beginning the restoration of the lower priority supplemental areas ([Figure 2-1](#)). The objective of the March 2020 monitoring survey was to track the final disposals in the northern portion of the Restoration Area and the additional material placed within the central and southern portion of the Restoration Area where the ideal berm thickness had not yet been achieved ([Figure 4-13](#)). During the September 2019 – March 2020 timeframe, approximately 3,195,120 m<sup>3</sup> (4,179,060 yd<sup>3</sup>) of material was placed over the Restoration Area.

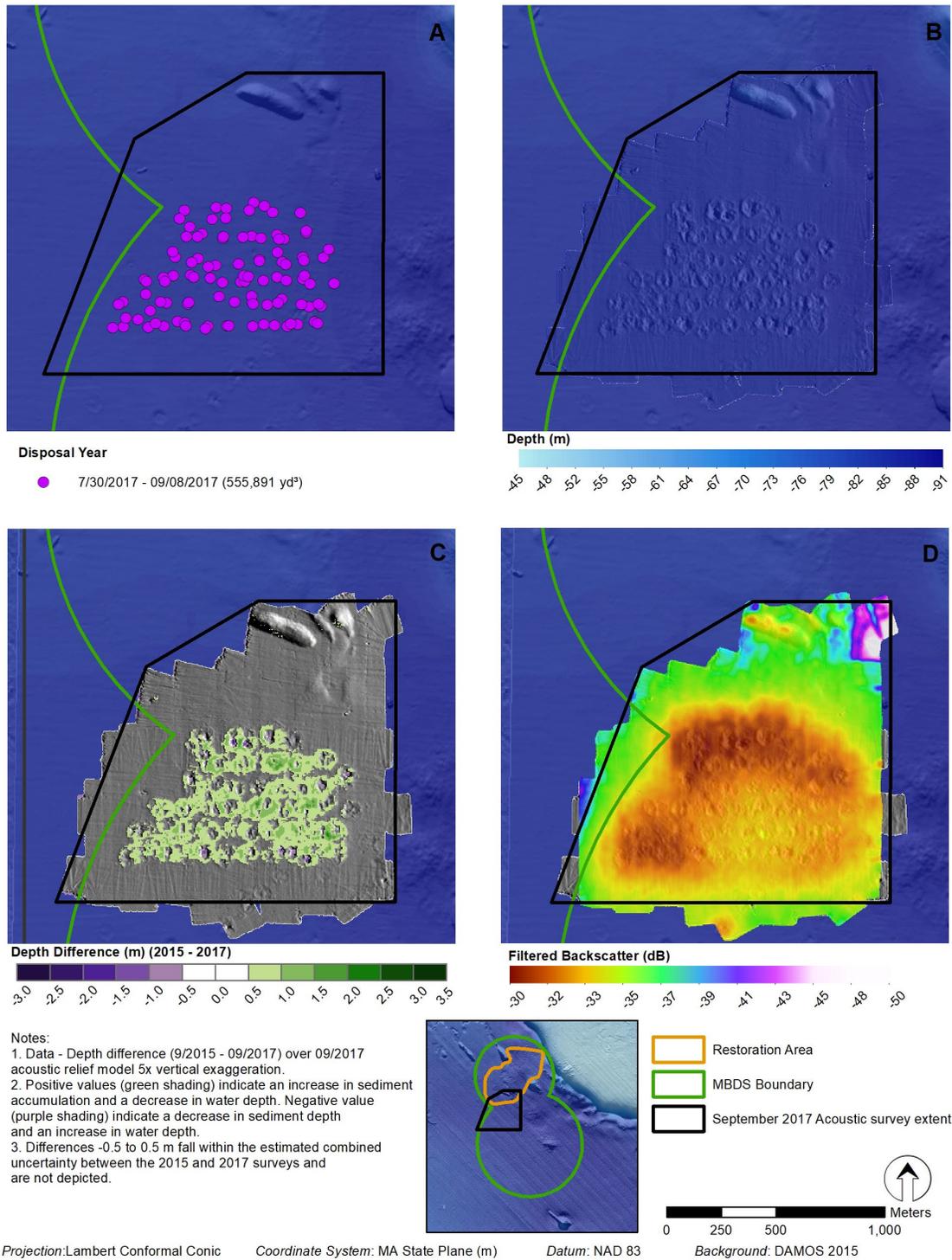
The March 2020 acoustic survey covered an irregularly shaped approximately 2,500 m x 1,800 m footprint over the majority of the Restoration Area. Disposals were visible covering the entirety of the Restoration Area and appeared on the acoustic relief as a rough texture, distinct in appearance from the ambient seafloor. The depth differencing model for this survey compared the baseline 2015 survey to the March 2020 survey, which provided nearly full acoustic coverage of the primary Restoration Area. The depth differencing comparison displayed that, at this point in the restoration process, the site had been fully covered with dredged material with a berm thickness ranging from 1.5 to 6.0 m over the majority of the Restoration Area. Results of the filtered backscatter displayed a surface that appeared to be uniform in texture, with coarser material markers (-16 to -20 dB) showing up over the glacial drumlins and areas that had most recently received dredged material ([Figure 4-13](#)).

#### 4.9 September 2020 – Acoustic Monitoring Survey

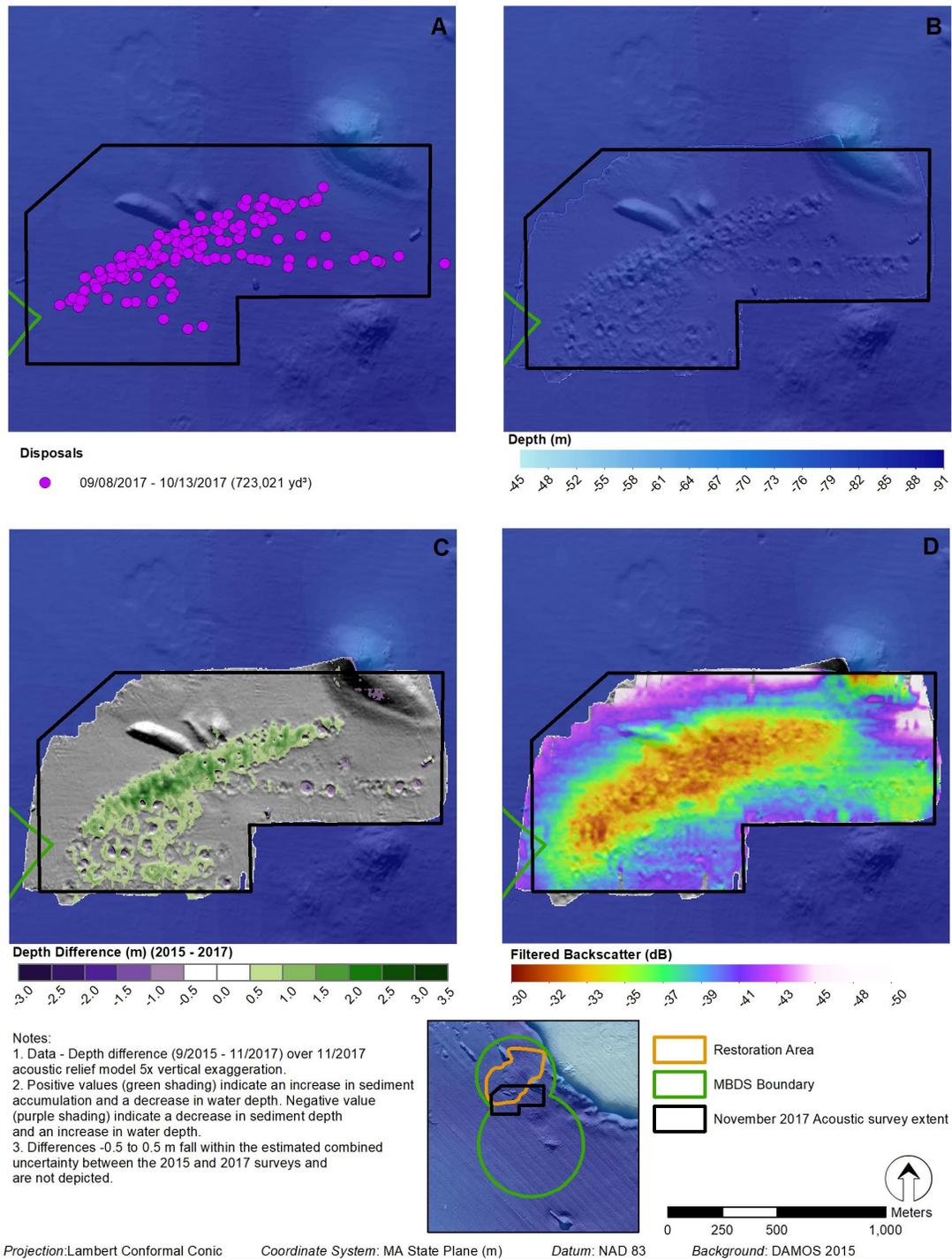
DAMOS conducted the last acoustic monitoring survey in this series in September 2020 to survey the final sequence of placements intended to infill the berm in the primary Restoration Area along with the supplemental areas on the outer edges of the Restoration Area that had recently received dredged material. Between March 2020 and September 2020 approximately 1,343,250 m<sup>3</sup> (1,756,900 yd<sup>3</sup>) of material was placed within the primary and supplemental Restoration Areas ([Figure 4-14](#)). Material placement during this timeframe occurred over three areas within the expanded MBDS. The northeast corner of the primary Restoration Area received approximately 73,580 m<sup>3</sup> (96,240 yd<sup>3</sup>) of dredged material to infill low spots in the berm identified in the March 2020 survey, Supplemental Area 1 to the southeast of the primary Restoration Area received approximately 639,053 m<sup>3</sup> (835,850 yd<sup>3</sup>) of material, and Supplemental Area 2 to the northwest of the primary Restoration Area received approximately 404,640 m<sup>3</sup> (529,250 yd<sup>3</sup>) of dredged material. The survey also covered the placement area for approximately 101,020 m<sup>3</sup> (132,130 yd<sup>3</sup>) of rock from the BHNIP that was placed at an alternate target near the foot of the southern drumlin as rocky material was not appropriate for the restoration effort. Since the previous survey, an

additional 125,020 m<sup>3</sup> (163,520 yd<sup>3</sup>) of dredged material was also placed at isolated locations within the primary Restoration Area that were identified as needing additional cover but were not surveyed during this study.

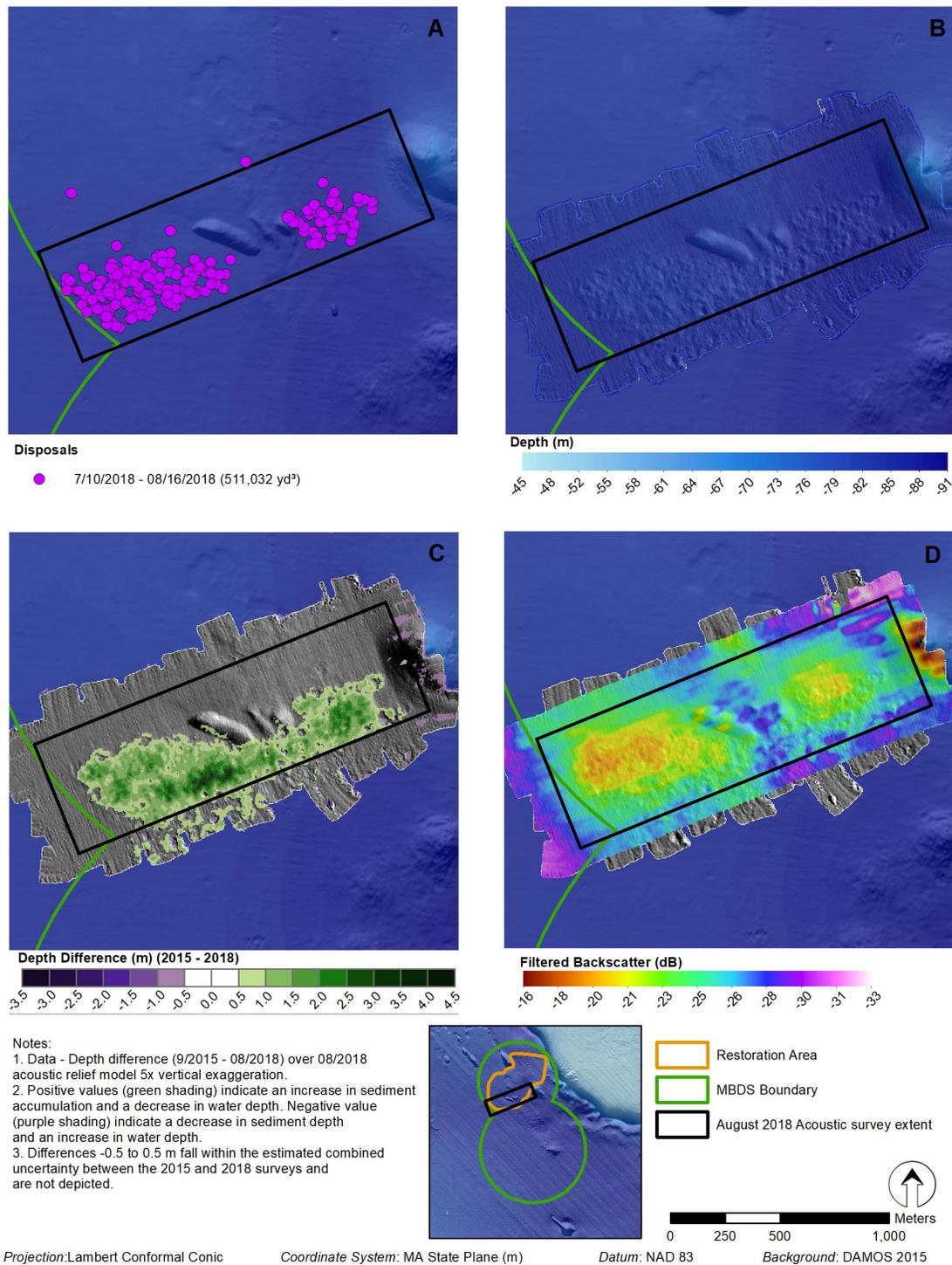
The boundaries for this acoustic monitoring survey were divided into three rectangular areas, ranging in size from 1,000 m x 450 m (western area), to 1,100 m x 500 m (northern area), and 1,300 m x 600 m (eastern area). Disposals were visible within each of the surveyed areas and the rock disposal area was apparent on the western side of the drumlin to the south of the Restoration Area. The depth difference model displayed sediment accumulation generally ranging from approximately 0.5 m to 3.5 m in all three areas. However, the rock placement target within the eastern survey area displayed the greatest elevation change, rising approximately 6.5 m above the ambient seafloor. The filtered backscatter displayed distinct markers where dredged material had recently been placed ([Figure 4-14](#)).



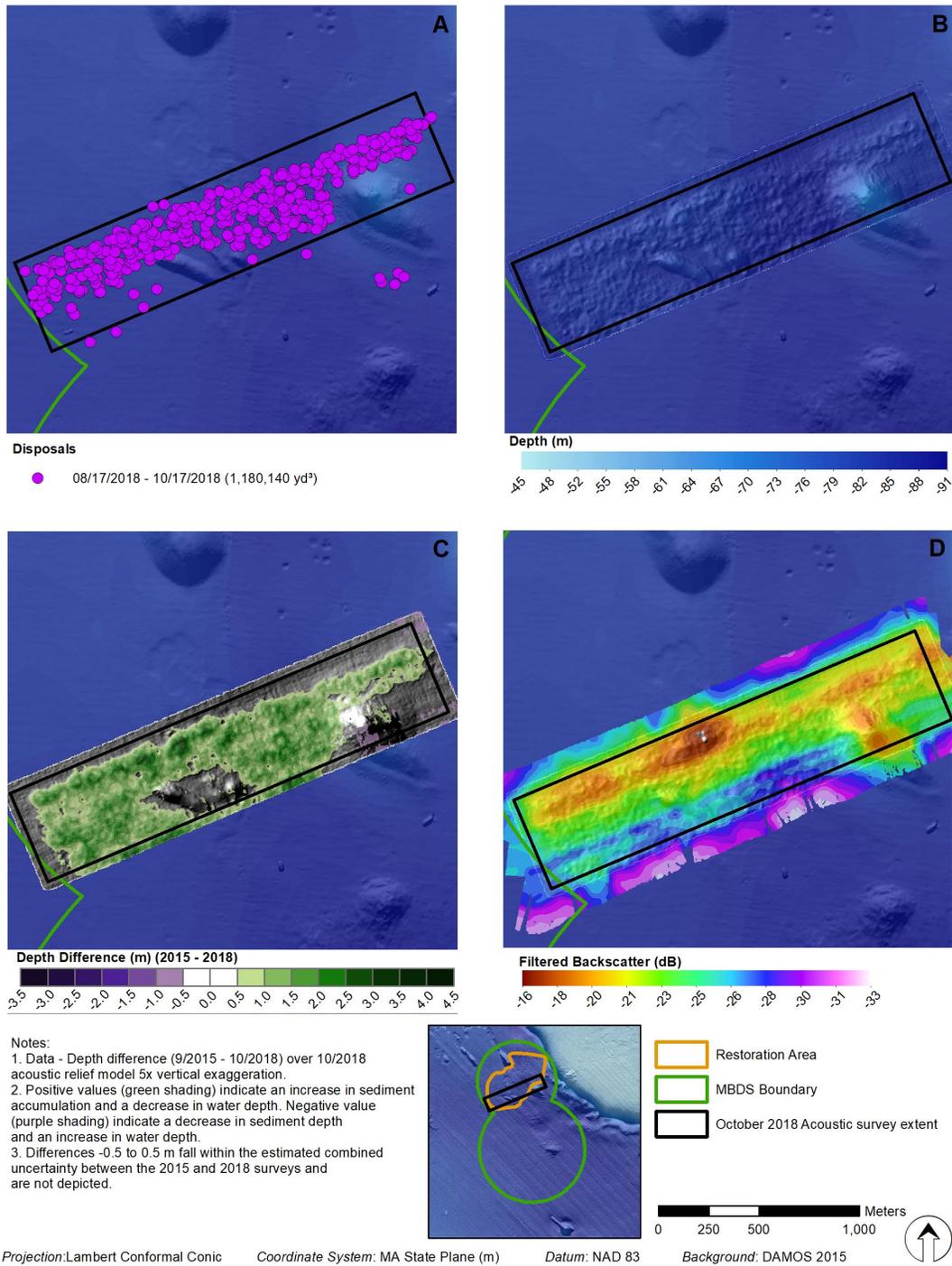
**Figure 4-1.** September 2017 acoustic survey - disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).



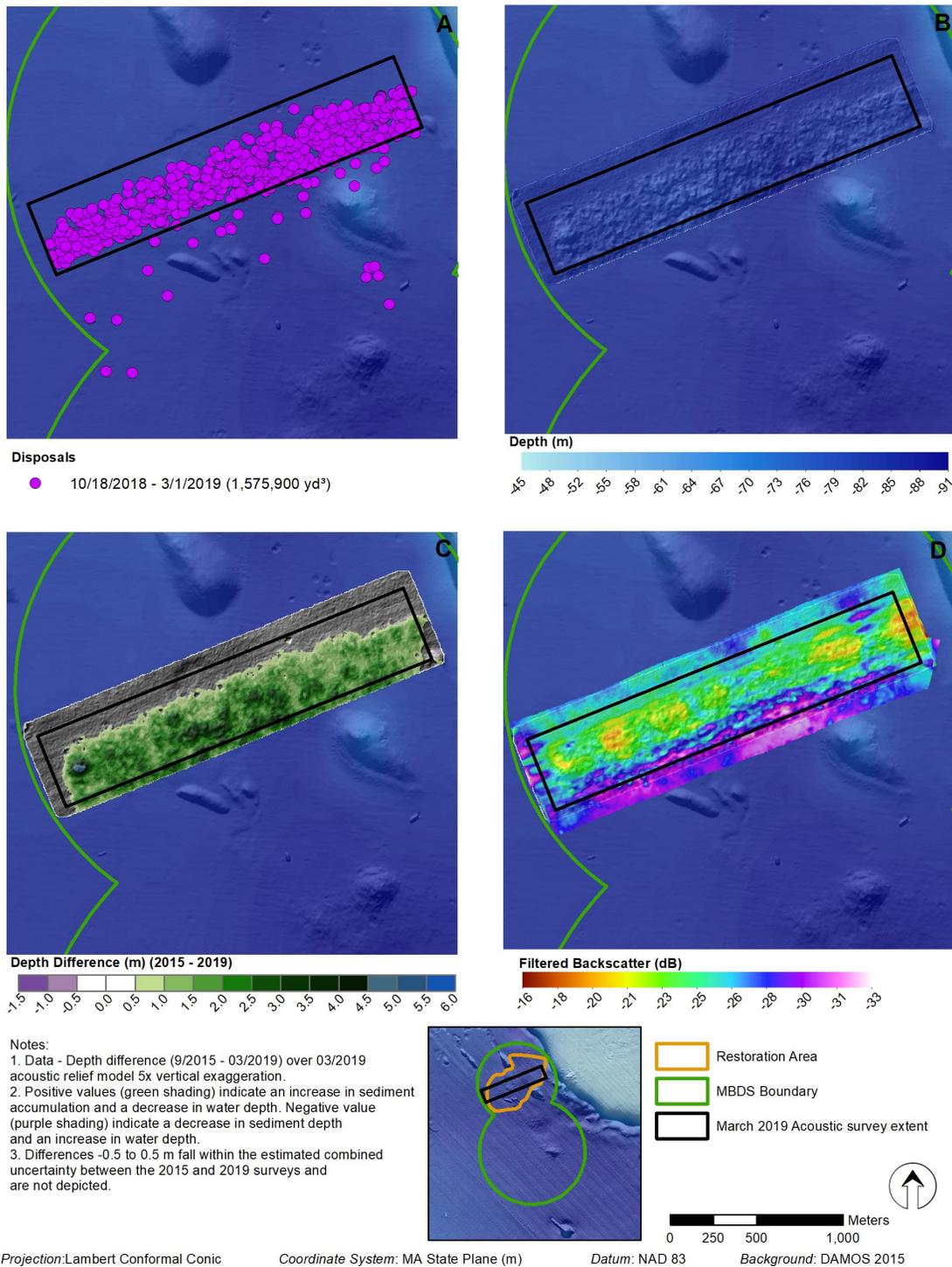
**Figure 4-2.** November 2017 acoustic survey - disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).



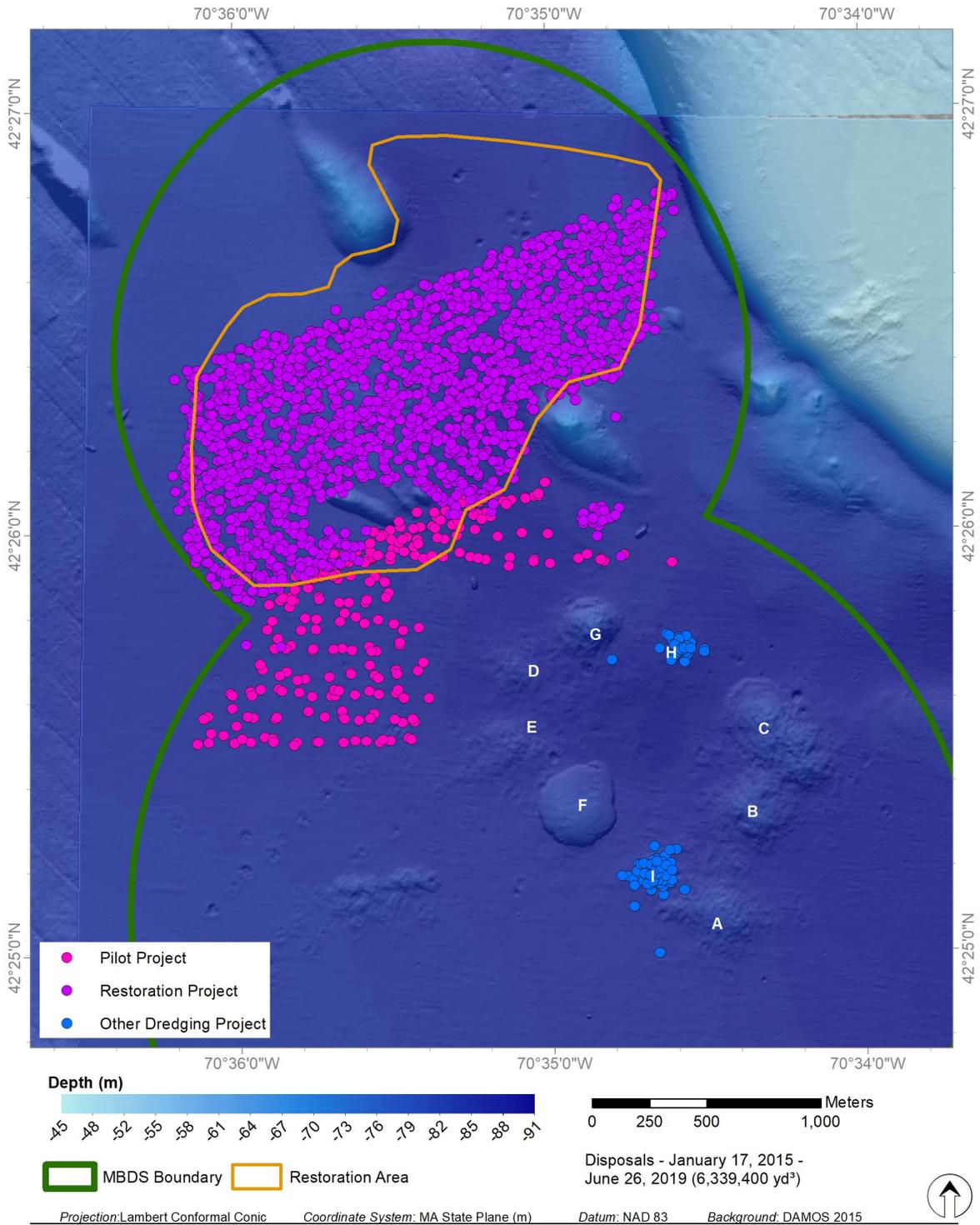
**Figure 4-3.** August 2018 acoustic survey – disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).



**Figure 4-4.** October 2018 acoustic survey - disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).



**Figure 4-5.** March 2019 acoustic survey - disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).



**Figure 4-6.** June 2019 disposals over 2015 bathymetric data.

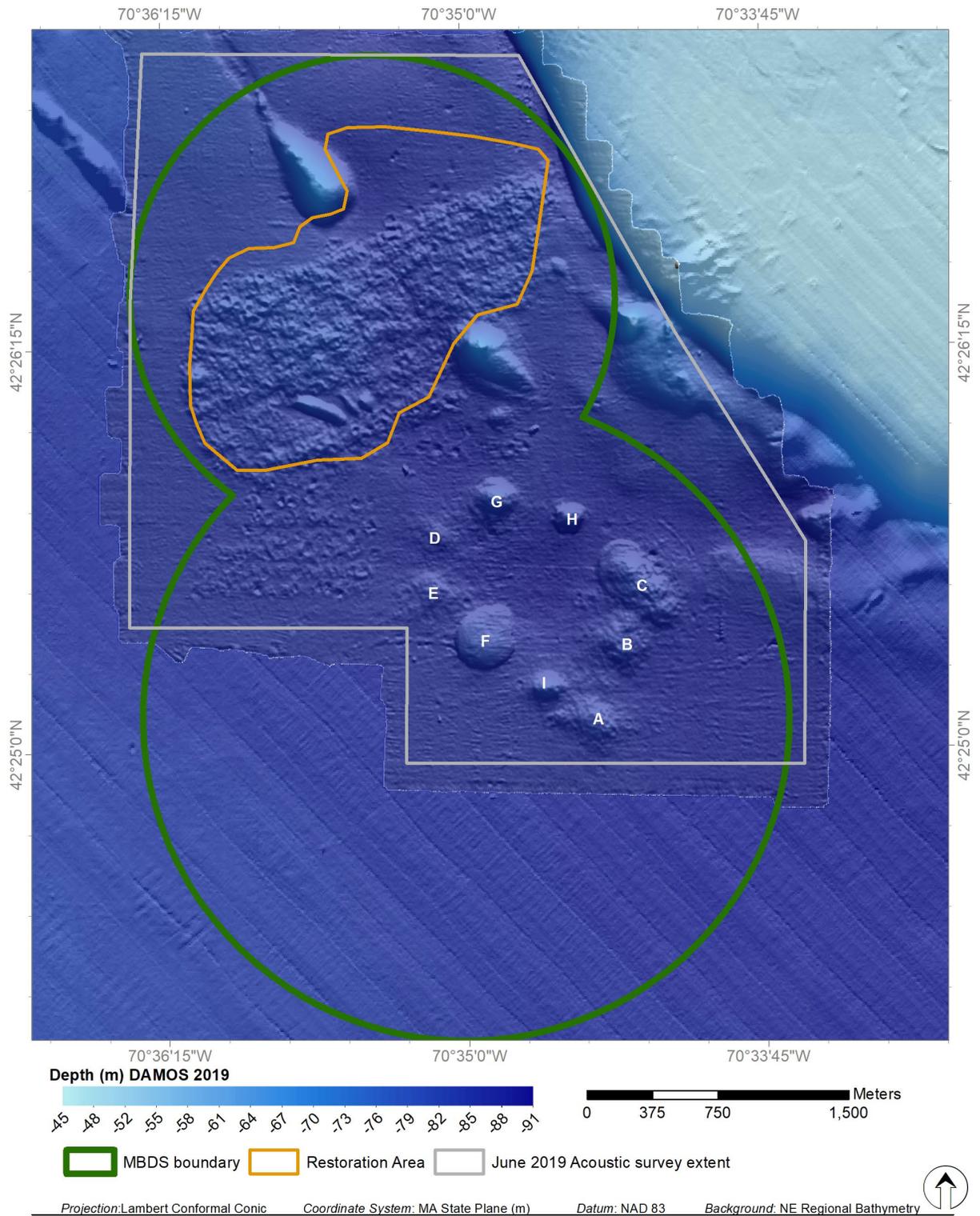
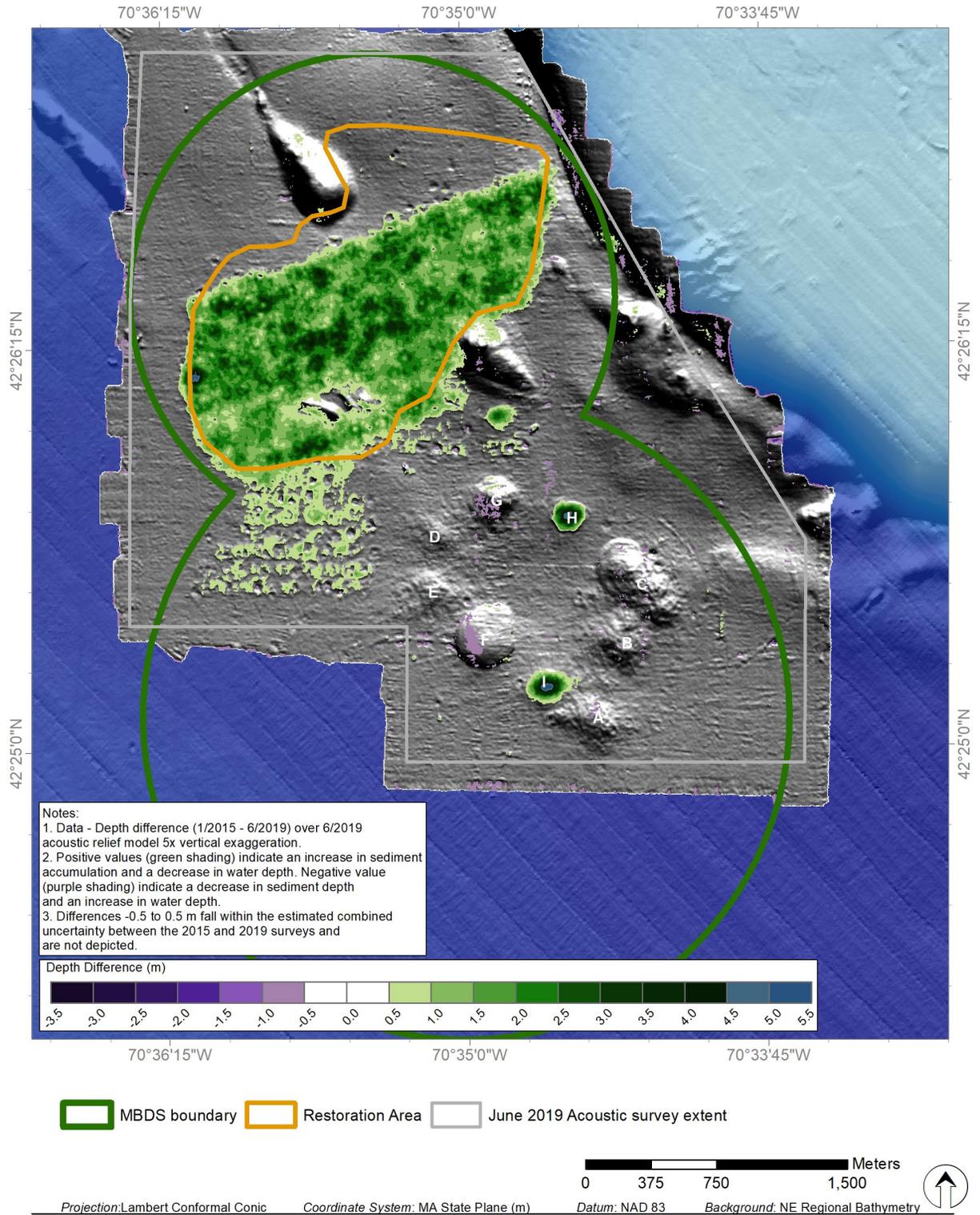
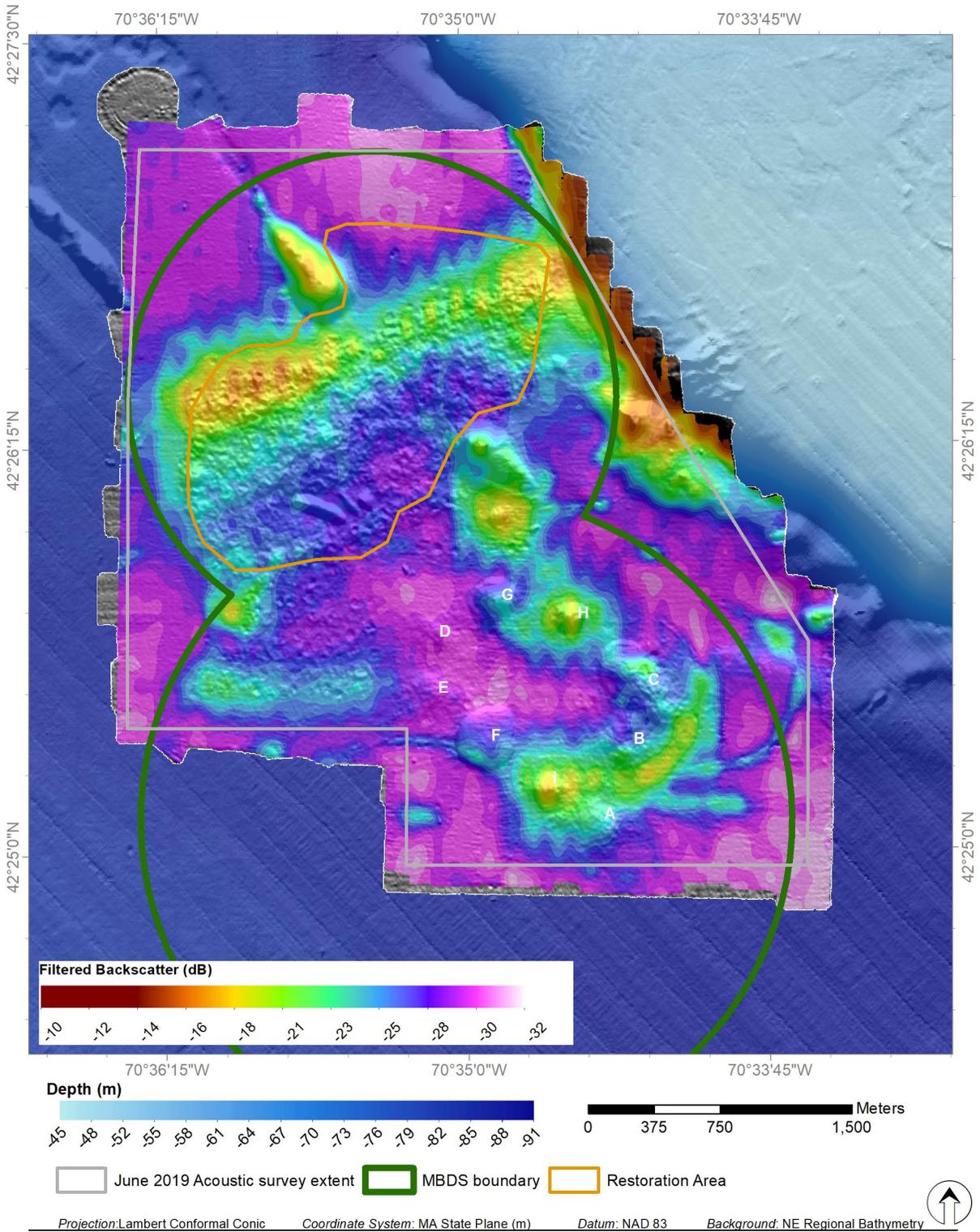


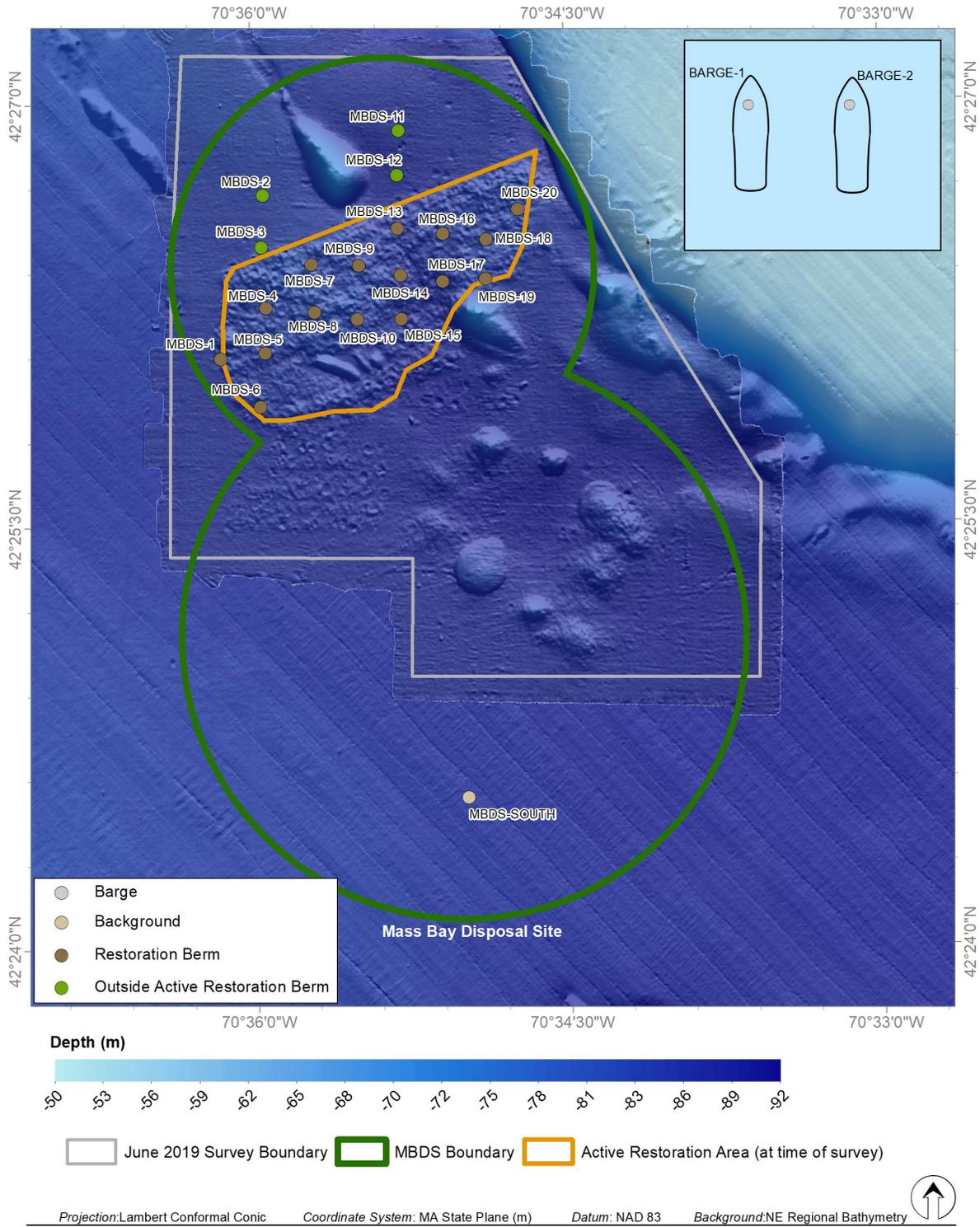
Figure 4-7. Bathymetric survey results, June 2019.



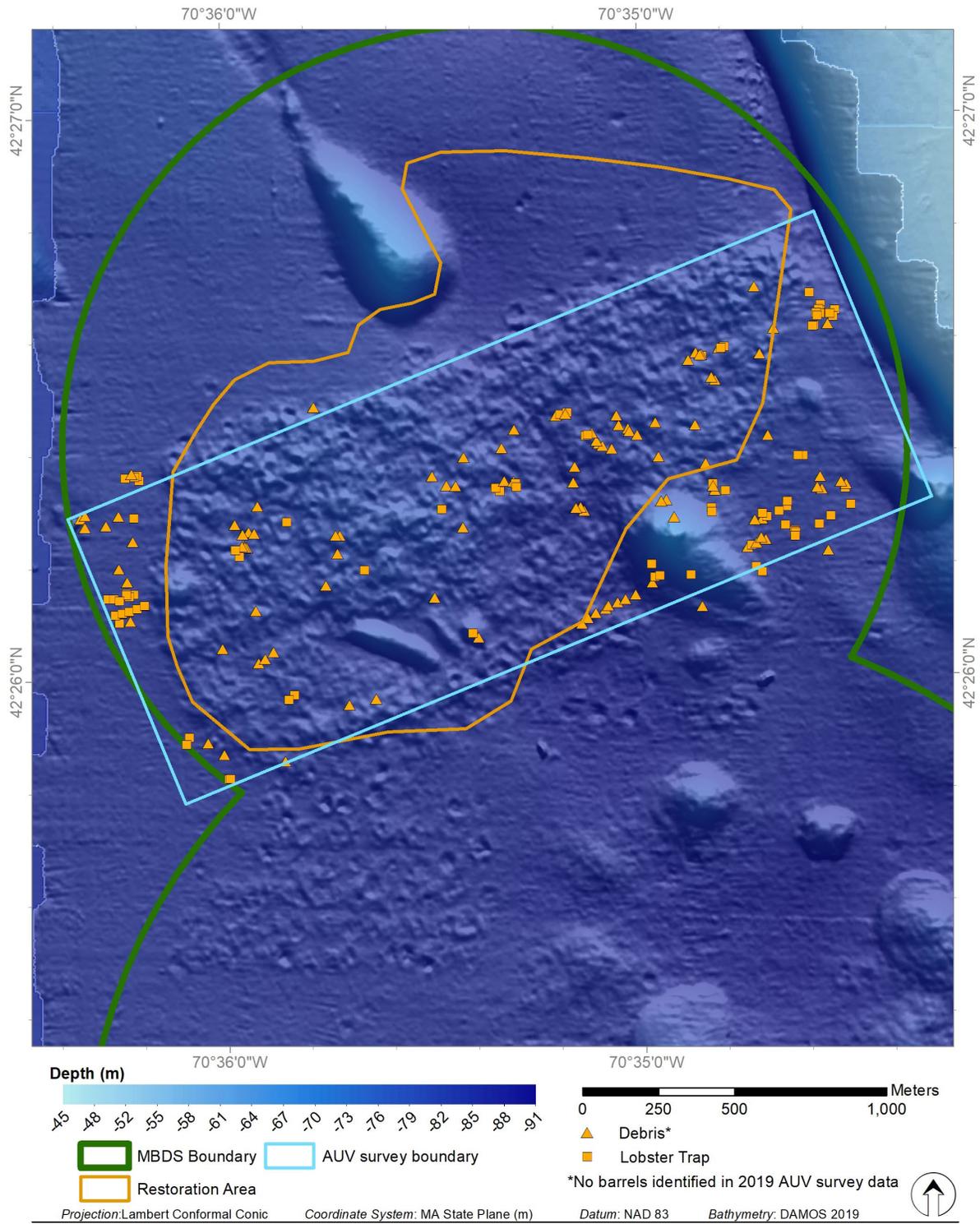
**Figure 4-8.** Depth differencing model (September 2015–June 2019).



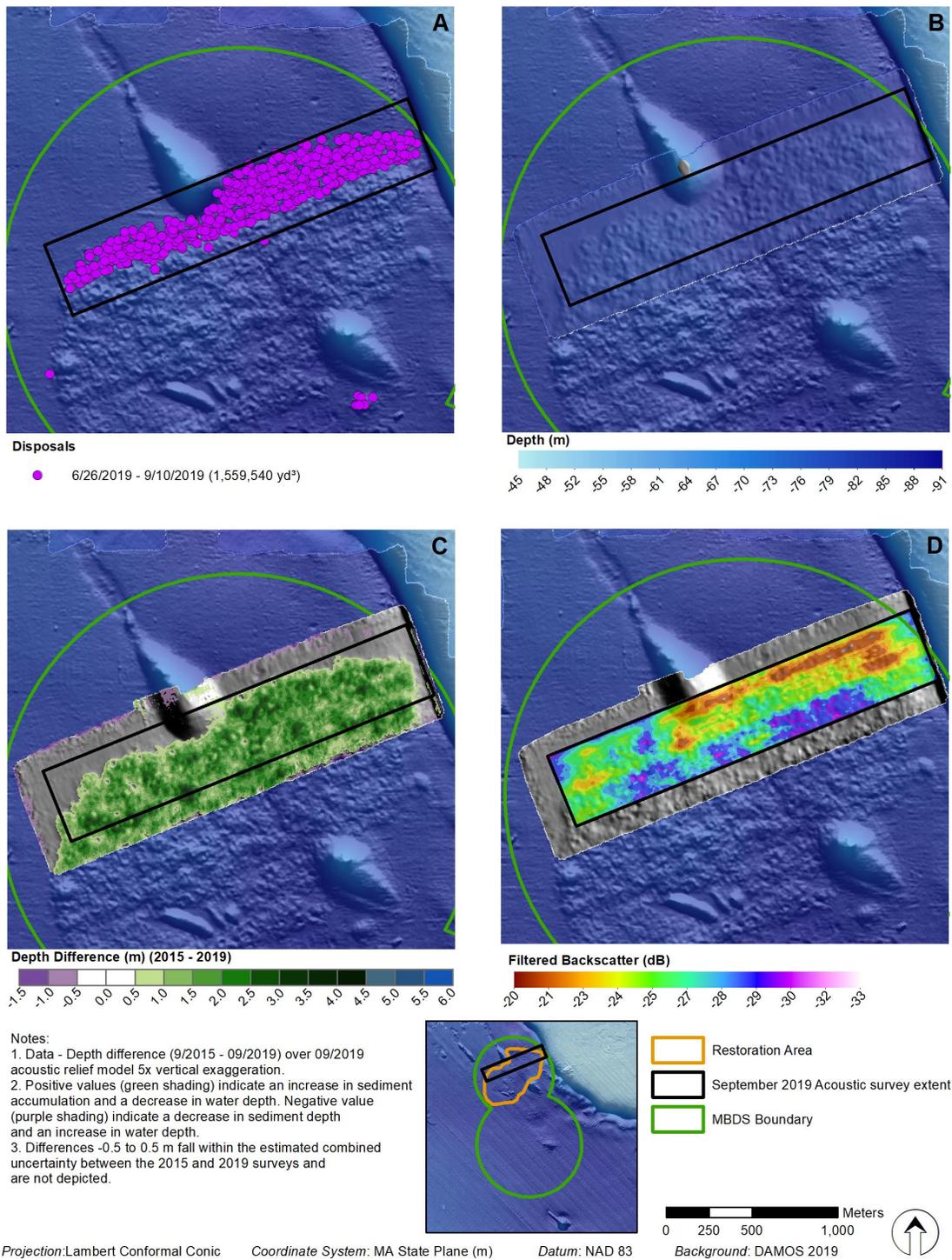
**Figure 4-9.** Filtered backscatter results, June 2019.



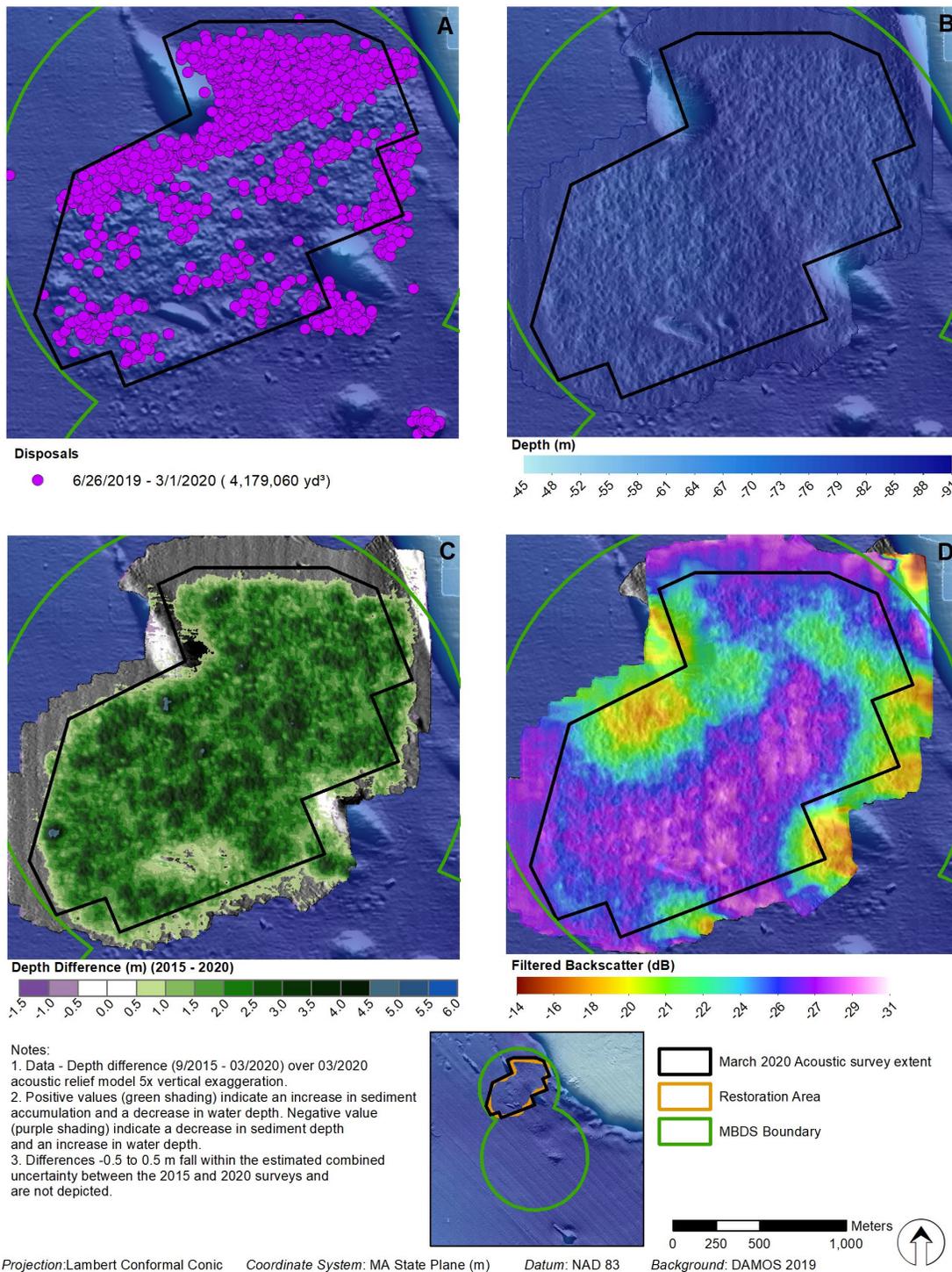
**Figure 4-10.** Sediment sampling locations, June 2019.



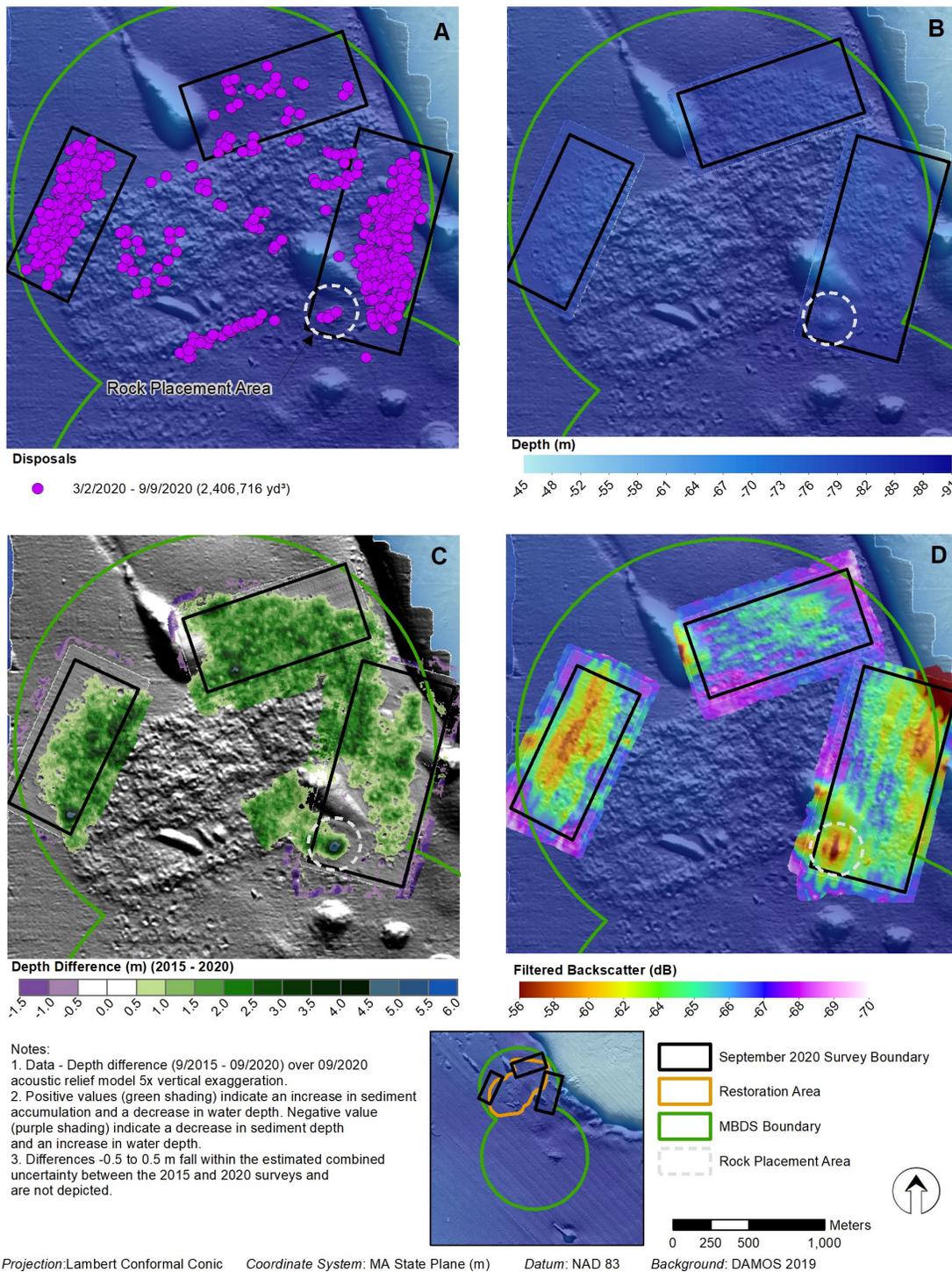
**Figure 4-11.** Targets identified on AUV SSS data, June 2019.



**Figure 4-12.** September 2019 acoustic survey - disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).



**Figure 4-13.** March 2020 acoustic survey - disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).



**Figure 4-14.** September 2020 acoustic survey - disposals (A), bathymetry (B), depth difference (C), and filtered backscatter (D).

## 5.0 SUMMARY AND CONCLUSIONS

The objectives of the series of monitoring surveys presented in this report were to track the stepwise placement of dredged material over the Restoration Area, determine the resulting berm thickness over the site, and implement any adaptive management strategies necessary to accomplish the goals of the IWS restoration project. As previously presented within this report, [Figure 2-1](#) displays the planned disposal process designed to utilize the approximately 9.2 million m<sup>3</sup> (12 million yd<sup>3</sup>) of dredged material from the BHNIP to achieve the restoration goals at the IWS. At the time of the last monitoring survey in September 2020, the Restoration Area had received approximately 8.9 million m<sup>3</sup> (11.5 million yd<sup>3</sup>) of dredged material from the nearly complete BHNIP.

[Figure 5-1](#) displays the planned, pre-restoration disposal targets overlaid on a combination of the two most recent depth difference surfaces using the September 2015 baseline acoustic survey and the March and September 2020 acoustic surveys; [Figure 5-2](#) displays the actual disposal locations that were logged during restoration activities over the same depth difference model. The result of the sequenced placement process is a cover layer that ranges in thickness between 0.5 m and 5.2 m (greater height achieved in the rock placement area) and provides an average cover thickness of approximately 2.3 m of dredged material in the primary Restoration Area. The targeted disposals achieved the goal of placing dredged material using a directed, stepwise process and avoided critical habitat areas such as the glacial drumlins to the north and south of the Restoration Area.

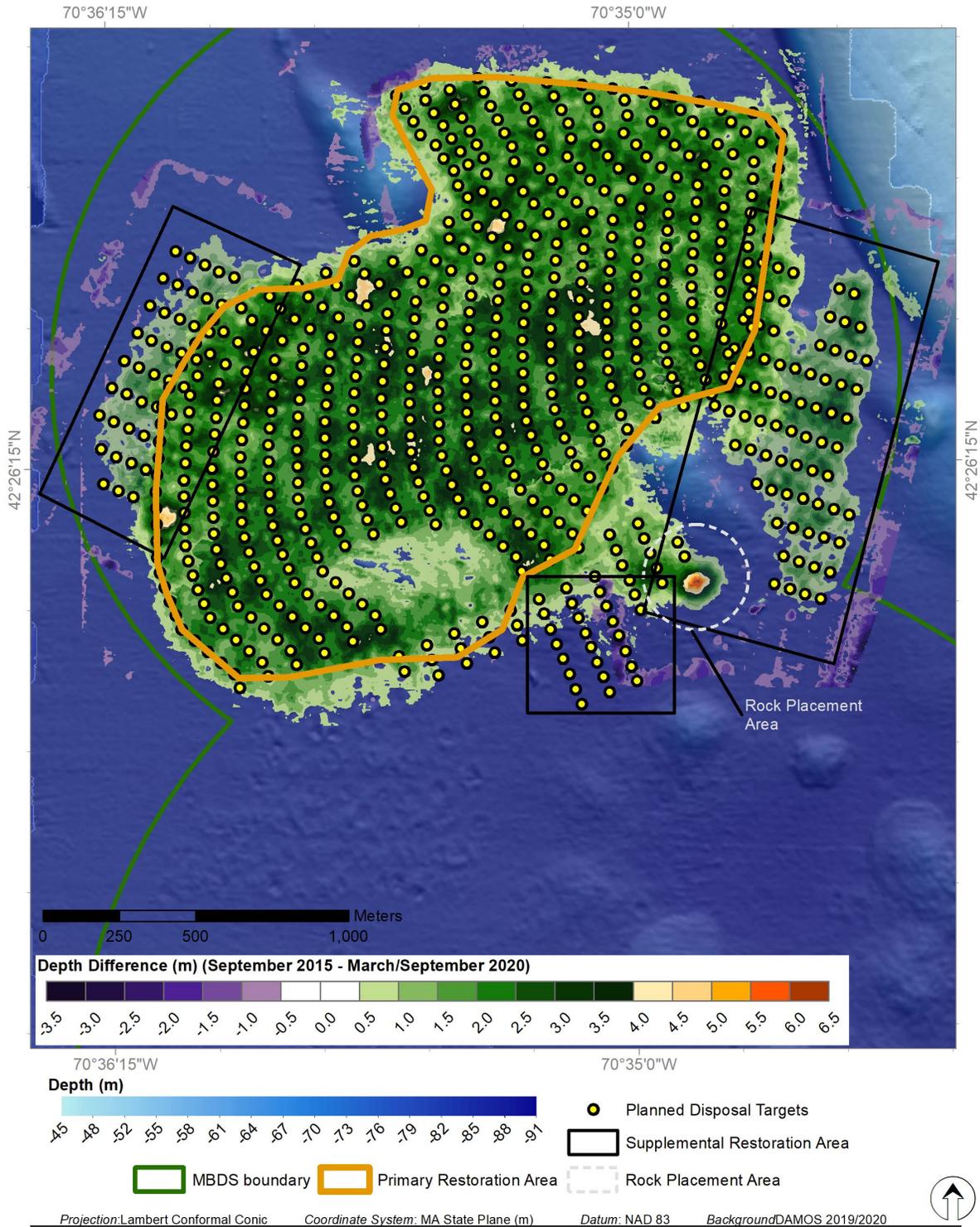
Analysis of the high resolution AUV side-scan sonar dataset did not identify any exposed barrels in the portion of the site that had undergone restoration. At the time of the AUV survey (June 2019), the average berm thickness over the active Restoration Area was approximately 1.4 m; greater than the minimum design goal of 0.5-1.0 m and sufficient to completely cover any exposed waste barrels in that area. A comparison of the existing waste barrels that remained exposed in the portion of the Restoration Area that had yet to receive dredged material in June 2019, and the complete lack of exposed barrels in the active Restoration Area, highlights the success of the restoration approach ([Figure 5-3](#)).

Additionally, results of the radiological analysis of the restoration berm sediment samples were consistent with normal background values, and the chemistry data were consistent with dredged material suitable for open water disposal at MBDS suggesting little to no disturbance of the waste barrels or potentially contaminated seafloor sediments of the IWS during the restoration process.

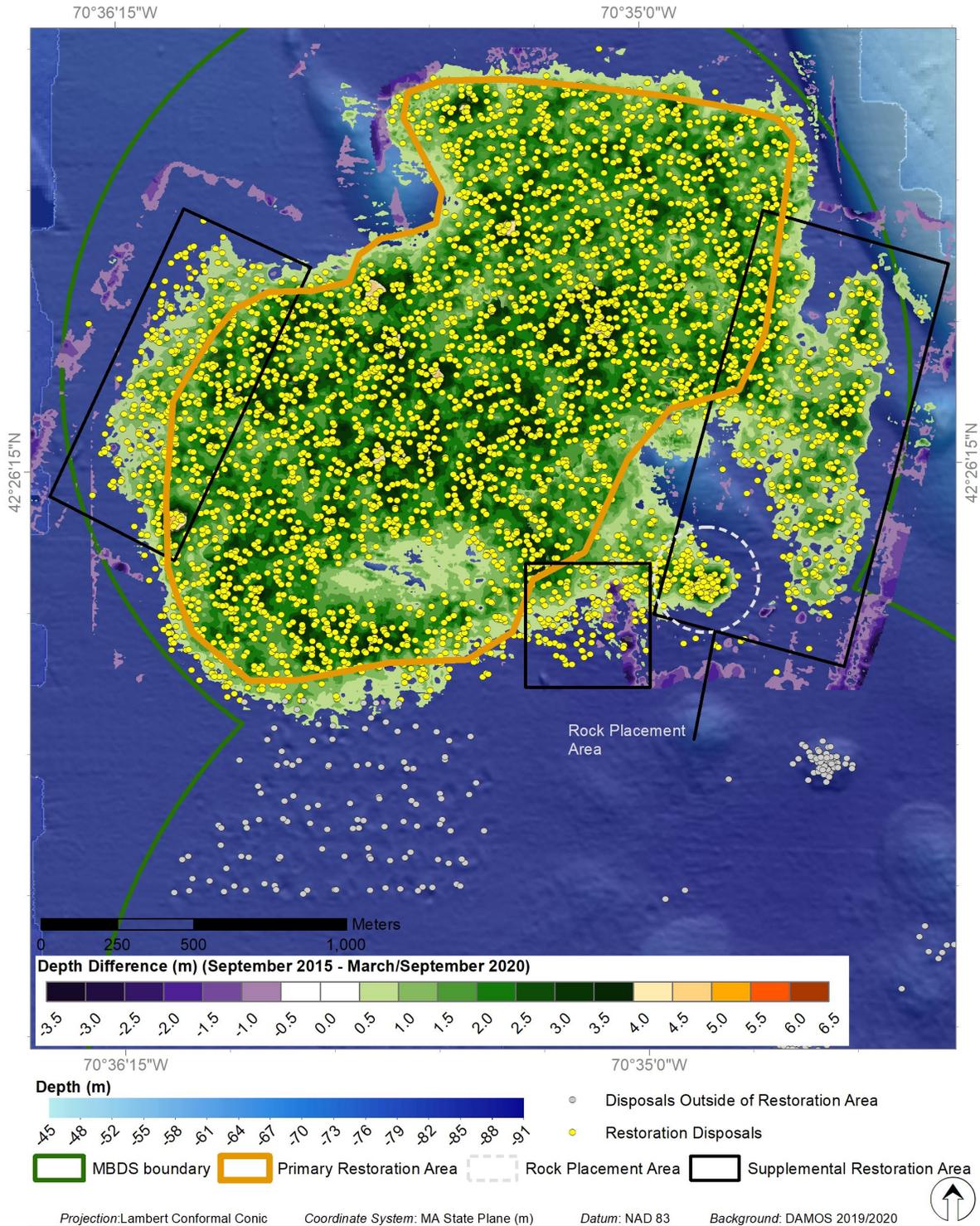
### 5.1 Site Closure Survey

The DAMOS Program and USEPA plan to conduct additional monitoring surveys of the Restoration Area after the completion of restoration activities within the expanded MBDS. These surveys will build on the information presented within this report and will

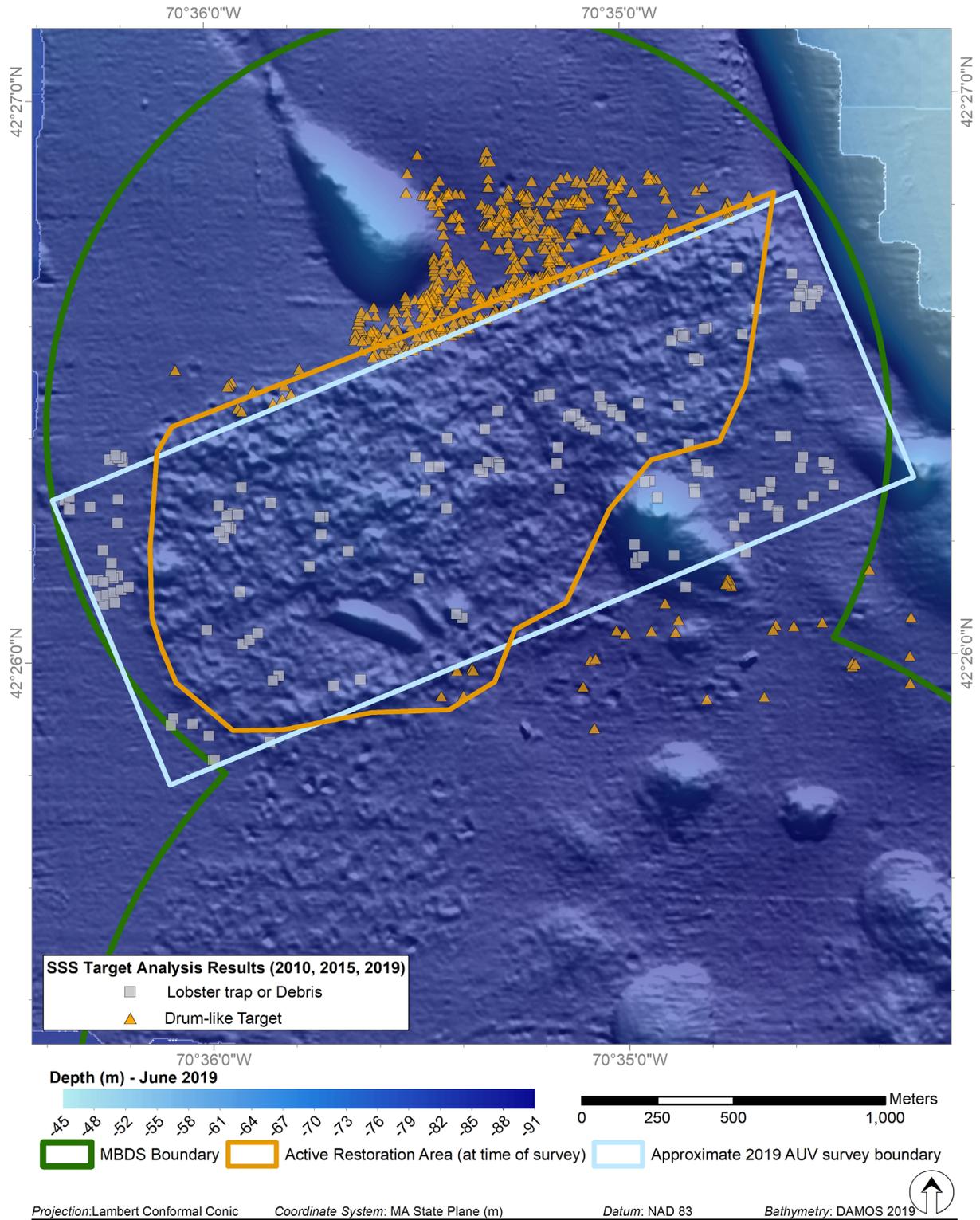
produce a comprehensive study of the site and an overall assessment of the IWS restoration project. Results of the study will be incorporated into a long-term monitoring plan to be included in the Site Management and Monitoring Plan for MBDS.



**Figure 5-1.** Planned disposal targets over 2015–2020 depth differencing model.



**Figure 5-2.** Actual restoration logged disposal locations over 2015–2020 depth differencing model.



**Figure 5-3.** Remaining identified waste drums within the Restoration Area, June 2019.

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**Appendix A**  
**Common Conversions**

## APPENDIX A.

### Common Conversions

<b>Metric</b>	<b>English</b>
<b>Area</b>	
1 Square Kilometer (km <sup>2</sup> )	247.12 Acres
<b>Length</b>	
1 Kilometer (km)	0.62 Miles (mi)
1 Kilometer (km)	0.54 Nautical Miles (nmi)
1 Meter (m)	3.28 Feet (ft)
1 Centimeter (cm)	0.39 Inches (in)
<b>Volume</b>	
1 Cubic Meter (m <sup>3</sup> )	35.31 Cubic Feet (ft <sup>3</sup> )
1 Cubic Meter (m <sup>3</sup> )	1.31 Cubic Yards (yd <sup>3</sup> )

## **Appendix B**

### **MBDS Disposal Log Data (2015 – 2020)**

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Citgo Petroleum	MBDS-2012	3600	2752	1/17/2015	42.41965	-70.57931
Cottage Park Yacht Club	MBDS-2012	527	403	11/24/2015	42.41965	-70.57843
Cottage Park Yacht Club	MBDS-2012	527	403	11/25/2015	42.41910	-70.57810
Cottage Park Yacht Club	MBDS-2012	527	403	11/28/2015	42.42013	-70.57875
Cottage Park Yacht Club	MBDS-2012	527	403	11/29/2015	42.41847	-70.57900
Cottage Park Yacht Club	MBDS-2012	527	403	12/1/2015	42.41953	-70.57903
Cottage Park Yacht Club	MBDS-2012	527	403	12/3/2015	42.42033	-70.57780
Cottage Park Yacht Club	MBDS-2012	527	403	12/5/2015	42.41958	-70.57852
Cottage Park Yacht Club	MBDS-2012	527	403	12/8/2015	42.41975	-70.57862
Cottage Park Yacht Club	MBDS-2012	527	403	12/11/2015	42.41928	-70.57897
Cottage Park Yacht Club	MBDS-2012	527	403	12/13/2015	42.42035	-70.57742
Cottage Park Yacht Club	MBDS-2012	527	403	12/18/2015	42.41953	-70.57832
Cottage Park Yacht Club	MBDS-2012	527	403	12/20/2015	42.41968	-70.57965
Cottage Park Yacht Club	MBDS-2012	527	403	12/22/2015	42.41958	-70.57728
Cottage Park Yacht Club	MBDS-2012	527	403	12/31/2015	42.41947	-70.57707
Cottage Park Yacht Club	MBDS-2012	527	403	1/3/2016	42.41890	-70.57743
Cottage Park Yacht Club	MBDS-2012	527	403	1/6/2016	42.42083	-70.57790
Cottage Park Yacht Club	MBDS-2012	527	403	1/12/2016	42.42045	-70.57733
Cottage Park Yacht Club	MBDS-2012	541	414	1/22/2016	42.41937	-70.57708
Salem Wharf	MBDS-2012	645	493	1/27/2016	42.41992	-70.57742
Salem Wharf	MBDS-2012	645	493	1/28/2016	42.41962	-70.57792
Salem Wharf	MBDS-2012	645	493	1/29/2016	42.41938	-70.57792
Salem Wharf	MBDS-2012	645	493	1/29/2016	42.41995	-70.57753
Salem Wharf	MBDS-2012	645	493	1/31/2016	42.42017	-70.57705
Salem Wharf	MBDS-2012	645	493	1/31/2016	42.42000	-70.57775
Salem Wharf	MBDS-2012	645	493	2/1/2016	42.42018	-70.57805
Salem Wharf	MBDS-2012	645	493	2/2/2016	42.41997	-70.57855
Salem Wharf	MBDS-2012	645	493	2/3/2016	42.42012	-70.57777
Salem Wharf	MBDS-2012	645	493	2/4/2016	42.41923	-70.57748
Salem Wharf	MBDS-2012	645	493	2/6/2016	42.42070	-70.57673
Salem Wharf	MBDS-2012	645	493	2/7/2016	42.41997	-70.57750
Salem Wharf	MBDS-2012	645	493	2/10/2016	42.42027	-70.57797
Salem Wharf	MBDS-2012	645	493	2/11/2016	42.42008	-70.57832
Salem Wharf	MBDS-2012	645	493	2/12/2016	42.41950	-70.57775
Salem Wharf	MBDS-2012	645	493	2/13/2016	42.41965	-70.57793
Salem Wharf	MBDS-2012	645	493	2/15/2016	42.41945	-70.57737
Salem Wharf	MBDS-2012	645	493	2/18/2016	42.41958	-70.57828
Salem Wharf	MBDS-2012	645	493	2/21/2016	42.41940	-70.57805
Salem Wharf	MBDS-2012	645	493	2/21/2016	42.41972	-70.57772
Salem Wharf	MBDS-2012	665	508	3/3/2016	42.41910	-70.57632
Quincy Shipyard	MBDS 14/15	2192	1676	10/21/2016	42.41998	-70.57868
Quincy Shipyard	MBDS 14/15	1906	1457	10/22/2016	42.41976	-70.57868
Quincy Shipyard	MBDS 14/15	2278	1742	10/24/2016	42.41946	-70.57827
Quincy Shipyard	MBDS 14/15	2595	1984	10/25/2016	42.41947	-70.57848
Quincy Shipyard	MBDS 14/15	2055	1571	10/26/2016	42.41969	-70.57832
Quincy Shipyard	MBDS 14/15	2433	1860	10/27/2016	42.41979	-70.57818
Quincy Shipyard	MBDS 14/15	2352	1798	10/30/2016	42.41935	-70.57811
Quincy Shipyard	MBDS 14/15	2932	2242	10/30/2016	42.41985	-70.57881
Quincy Shipyard	MBDS 14/15	2454	1876	11/1/2016	42.41977	-70.57813
Quincy Shipyard	MBDS 14/15	2923	2235	11/2/2016	42.41995	-70.57826
Quincy Shipyard	MBDS 14/15	2232	1706	11/4/2016	42.41980	-70.57804
Quincy Shipyard	MBDS 14/15	1245	952	11/5/2016	42.41976	-70.57844
Quincy Shipyard	MBDS 14/15	1512	1156	12/14/2016	42.42012	-70.57863
Quincy Shipyard	MBDS 14/15	2545	1946	2/11/2017	42.41949	-70.57698
Quincy Shipyard	MBDS 14/15	1534	1173	2/18/2017	42.41934	-70.57760
Eversource Energy	MBDS 14/15	389	297	1/15/2017	42.42010	-70.57817
Eversource Energy	MBDS 14/15	238	182	1/20/2017	42.41933	-70.57828
Boston Harbor Improvement	MBDS	3732	2853	7/10/2018	42.43100	-70.59871
Boston Harbor Improvement	MBDS	2472	1890	7/10/2018	42.43110	-70.59776
Boston Harbor Improvement	MBDS	2251	1721	7/10/2018	42.43089	-70.59971
Boston Harbor Improvement	MBDS	3820	2921	7/10/2018	42.43146	-70.59802
Boston Harbor Improvement	MBDS	3727	2849	7/11/2018	42.43064	-70.59930
Boston Harbor Improvement	MBDS	2516	1923	7/11/2018	42.43279	-70.59339
Boston Harbor Improvement	MBDS	3671	2807	7/11/2018	42.43116	-70.59796
Boston Harbor Improvement	MBDS	3374	2580	7/11/2018	42.43163	-70.59647
Boston Harbor Improvement	MBDS	2668	2040	7/12/2018	42.43178	-70.59672
Boston Harbor Improvement	MBDS	3736	2856	7/12/2018	42.42859	-70.57513
Boston Harbor Improvement	MBDS	2663	2036	7/12/2018	42.43165	-70.59660
Boston Harbor Improvement	MBDS	4513	3450	7/13/2018	42.43150	-70.59620
Boston Harbor Improvement	MBDS	3589	2744	7/13/2018	42.43214	-70.59574
Boston Harbor Improvement	MBDS	2588	1979	7/13/2018	42.43212	-70.59492
Boston Harbor Improvement	MBDS	3668	2805	7/13/2018	42.43200	-70.59510
Boston Harbor Improvement	MBDS	3784	2893	7/13/2018	42.43210	-70.59450
Boston Harbor Improvement	MBDS	2527	1932	7/13/2018	42.43240	-70.59540
Boston Harbor Improvement	MBDS	4119	3149	7/14/2018	42.43250	-70.59410
Boston Harbor Improvement	MBDS	3606	2757	7/14/2018	42.43220	-70.59350
Boston Harbor Improvement	MBDS	3758	2873	7/14/2018	42.43120	-70.60000
Boston Harbor Improvement	MBDS	2592	1982	7/14/2018	42.43120	-70.59990
Boston Harbor Improvement	MBDS	4047	3094	7/14/2018	42.43150	-70.59970
Boston Harbor Improvement	MBDS	3596	2749	7/14/2018	42.43170	-70.59860
Boston Harbor Improvement	MBDS	3909	2989	7/15/2018	42.43160	-70.59890
Boston Harbor Improvement	MBDS	2608	1994	7/15/2018	42.43146	-70.59847
Boston Harbor Improvement	MBDS	4158	3179	7/15/2018	42.43220	-70.59710

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3591	2745	7/15/2018	42.43200	-70.59770
Boston Harbor Improvement	MBDS	2781	2126	7/15/2018	42.43200	-70.59620
Boston Harbor Improvement	MBDS	3665	2802	7/15/2018	42.43180	-70.59780
Boston Harbor Improvement	MBDS	4028	3080	7/15/2018	42.43210	-70.59660
Boston Harbor Improvement	MBDS	2749	2102	7/16/2018	42.43220	-70.59620
Boston Harbor Improvement	MBDS	3116	2383	7/16/2018	42.43290	-70.59540
Boston Harbor Improvement	MBDS	3981	3044	7/16/2018	42.43250	-70.59530
Boston Harbor Improvement	MBDS	2657	2032	7/16/2018	42.43240	-70.59540
Boston Harbor Improvement	MBDS	3931	3005	7/16/2018	42.43240	-70.59390
Boston Harbor Improvement	MBDS	4190	3203	7/17/2018	42.43330	-70.59420
Boston Harbor Improvement	MBDS	3560	2722	7/17/2018	42.43340	-70.59310
Boston Harbor Improvement	MBDS	2789	2132	7/17/2018	42.43150	-70.60050
Boston Harbor Improvement	MBDS	3038	2323	7/17/2018	42.43140	-70.60010
Boston Harbor Improvement	MBDS	2005	1533	7/17/2018	42.43200	-70.60040
Boston Harbor Improvement	MBDS	2877	2200	7/17/2018	42.43160	-70.59950
Boston Harbor Improvement	MBDS	1623	1241	7/18/2018	42.43200	-70.59800
Boston Harbor Improvement	MBDS	1341	1025	7/18/2018	42.43210	-70.59920
Boston Harbor Improvement	MBDS	3890	2974	7/18/2018	42.43210	-70.59820
Boston Harbor Improvement	MBDS	3530	2699	7/18/2018	42.43210	-70.59820
Boston Harbor Improvement	MBDS	3516	2688	7/18/2018	42.43220	-70.59810
Boston Harbor Improvement	MBDS	4415	3376	7/19/2018	42.43620	-70.60190
Boston Harbor Improvement	MBDS	1648	1260	7/19/2018	42.43250	-70.59720
Boston Harbor Improvement	MBDS	1779	1360	7/19/2018	42.43240	-70.59710
Boston Harbor Improvement	MBDS	2404	1838	7/19/2018	42.43304	-70.59610
Boston Harbor Improvement	MBDS	3813	2915	7/19/2018	42.43300	-70.59510
Boston Harbor Improvement	MBDS	1851	1415	7/19/2018	42.43320	-70.59500
Boston Harbor Improvement	MBDS	2747	2100	7/20/2018	42.43330	-70.59500
Boston Harbor Improvement	MBDS	3776	2887	7/20/2018	42.43160	-70.60140
Boston Harbor Improvement	MBDS	1645	1258	7/20/2018	42.43140	-70.60030
Boston Harbor Improvement	MBDS	2751	2103	7/20/2018	42.43200	-70.60120
Boston Harbor Improvement	MBDS	3815	2916	7/20/2018	42.43220	-70.59990
Boston Harbor Improvement	MBDS	3901	2982	7/20/2018	42.43190	-70.60020
Boston Harbor Improvement	MBDS	3772	2884	7/21/2018	42.43250	-70.59960
Boston Harbor Improvement	MBDS	4284	3275	7/21/2018	42.43230	-70.59960
Boston Harbor Improvement	MBDS	1618	1237	7/21/2018	42.43270	-70.59880
Boston Harbor Improvement	MBDS	3768	2881	7/21/2018	42.43300	-70.59790
Boston Harbor Improvement	MBDS	3818	2919	7/21/2018	42.43290	-70.59750
Boston Harbor Improvement	MBDS	2641	2019	7/22/2018	42.43300	-70.59640
Boston Harbor Improvement	MBDS	3671	2807	7/22/2018	42.43330	-70.59660
Boston Harbor Improvement	MBDS	4050	3097	7/22/2018	42.43115	-70.59817
Boston Harbor Improvement	MBDS	3420	2615	7/22/2018	42.43320	-70.59660
Boston Harbor Improvement	MBDS	3805	2909	7/22/2018	42.43220	-70.60160
Boston Harbor Improvement	MBDS	1300	994	7/22/2018	42.43280	-70.60120
Boston Harbor Improvement	MBDS	3675	2810	7/23/2018	42.43220	-70.60160
Boston Harbor Improvement	MBDS	3633	2778	7/23/2018	42.43260	-70.60030
Boston Harbor Improvement	MBDS	3582	2738	7/23/2018	42.43230	-70.59980
Boston Harbor Improvement	MBDS	2653	2028	7/23/2018	42.43260	-70.59900
Boston Harbor Improvement	MBDS	3622	2769	7/23/2018	42.43280	-70.59950
Boston Harbor Improvement	MBDS	4200	3211	7/23/2018	42.43300	-70.59890
Boston Harbor Improvement	MBDS	3317	2536	7/23/2018	42.43290	-70.59930
Boston Harbor Improvement	MBDS	2595	1984	7/24/2018	42.43320	-70.59780
Boston Harbor Improvement	MBDS	3781	2891	7/24/2018	42.43280	-70.59830
Boston Harbor Improvement	MBDS	1945	1487	7/24/2018	42.43310	-70.59820
Boston Harbor Improvement	MBDS	2356	1801	7/24/2018	42.43460	-70.59640
Boston Harbor Improvement	MBDS	2821	2157	7/24/2018	42.43360	-70.59710
Boston Harbor Improvement	MBDS	1807	1381	7/24/2018	42.43350	-70.59720
Boston Harbor Improvement	MBDS	3628	2774	7/24/2018	42.43240	-70.60220
Boston Harbor Improvement	MBDS	2052	1569	7/25/2018	42.43250	-70.60220
Boston Harbor Improvement	MBDS	2715	2076	7/25/2018	42.43280	-70.60090
Boston Harbor Improvement	MBDS	1957	1496	7/25/2018	42.43310	-70.60130
Boston Harbor Improvement	MBDS	1654	1264	7/25/2018	42.43340	-70.59890
Boston Harbor Improvement	MBDS	2569	1964	7/25/2018	42.43300	-70.59960
Boston Harbor Improvement	MBDS	3537	2704	7/25/2018	42.43330	-70.59970
Boston Harbor Improvement	MBDS	3619	2767	7/25/2018	42.43310	-70.59960
Boston Harbor Improvement	MBDS	1838	1406	7/26/2018	42.43340	-70.59870
Boston Harbor Improvement	MBDS	1685	1289	7/26/2018	42.43110	-70.59860
Boston Harbor Improvement	MBDS	3749	2867	7/26/2018	42.43070	-70.59950
Boston Harbor Improvement	MBDS	4183	3198	7/26/2018	42.43080	-70.60000
Boston Harbor Improvement	MBDS	1852	1416	7/26/2018	42.43100	-70.59860
Boston Harbor Improvement	MBDS	1317	1007	7/27/2018	42.43140	-70.59750
Boston Harbor Improvement	MBDS	3679	2812	7/27/2018	42.43180	-70.59590
Boston Harbor Improvement	MBDS	4587	3507	7/27/2018	42.43160	-70.59640
Boston Harbor Improvement	MBDS	1955	1494	7/27/2018	42.43200	-70.59520
Boston Harbor Improvement	MBDS	3665	2802	7/27/2018	42.43180	-70.59610
Boston Harbor Improvement	MBDS	3867	2957	7/27/2018	42.43210	-70.59540
Boston Harbor Improvement	MBDS	2564	1960	7/27/2018	42.43270	-70.59410
Boston Harbor Improvement	MBDS	4360	3334	7/27/2018	42.43277	-70.59373
Boston Harbor Improvement	MBDS	3733	2854	7/28/2018	42.43110	-70.60010
Boston Harbor Improvement	MBDS	3988	3049	7/28/2018	42.43110	-70.60000
Boston Harbor Improvement	MBDS	4166	3185	7/28/2018	42.43290	-70.59830
Boston Harbor Improvement	MBDS	3843	2938	7/28/2018	42.43200	-70.59780
Boston Harbor Improvement	MBDS	3813	2915	7/28/2018	42.43150	-70.59870
Boston Harbor Improvement	MBDS	2608	1994	7/28/2018	42.43170	-70.59760

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	2570	1965	7/28/2018	42.43170	-70.59760
Boston Harbor Improvement	MBDS	3715	2841	7/29/2018	42.43220	-70.59660
Boston Harbor Improvement	MBDS	1969	1505	7/29/2018	42.43200	-70.59660
Boston Harbor Improvement	MBDS	3830	2928	7/29/2018	42.43270	-70.59520
Boston Harbor Improvement	MBDS	4277	3270	7/29/2018	42.43250	-70.59560
Boston Harbor Improvement	MBDS	1745	1334	7/29/2018	42.43290	-70.59450
Boston Harbor Improvement	MBDS	1989	1521	7/29/2018	42.43240	-70.59420
Boston Harbor Improvement	MBDS	1313	1004	7/29/2018	42.43150	-70.60060
Boston Harbor Improvement	MBDS	2515	1923	7/29/2018	42.43150	-70.60060
Boston Harbor Improvement	MBDS	4181	3196	7/29/2018	42.43130	-70.60110
Boston Harbor Improvement	MBDS	1673	1279	7/30/2018	42.43200	-70.59930
Boston Harbor Improvement	MBDS	1673	1279	7/30/2018	42.43200	-70.59930
Boston Harbor Improvement	MBDS	3836	2933	7/30/2018	42.43170	-70.59890
Boston Harbor Improvement	MBDS	4308	3294	7/30/2018	42.43260	-70.59740
Boston Harbor Improvement	MBDS	3776	2887	7/30/2018	42.43230	-70.59820
Boston Harbor Improvement	MBDS	4112	3144	7/30/2018	42.43270	-70.59700
Boston Harbor Improvement	MBDS	3884	2969	7/30/2018	42.43290	-70.59650
Boston Harbor Improvement	MBDS	2447	1871	7/30/2018	42.43300	-70.59490
Boston Harbor Improvement	MBDS	4390	3357	7/31/2018	42.43340	-70.59510
Boston Harbor Improvement	MBDS	3867	2957	7/31/2018	42.43310	-70.59480
Boston Harbor Improvement	MBDS	3871	2960	7/31/2018	42.43140	-70.60050
Boston Harbor Improvement	MBDS	3812	2915	7/31/2018	42.43180	-70.60080
Boston Harbor Improvement	MBDS	4641	3548	7/31/2018	42.43200	-70.59990
Boston Harbor Improvement	MBDS	2394	1830	7/31/2018	42.43200	-70.59980
Boston Harbor Improvement	MBDS	3755	2871	7/31/2018	42.43250	-70.59890
Boston Harbor Improvement	MBDS	3529	2698	8/1/2018	42.43250	-70.59850
Boston Harbor Improvement	MBDS	4344	3321	8/1/2018	42.43280	-70.59610
Boston Harbor Improvement	MBDS	1946	1488	8/1/2018	42.43270	-70.59770
Boston Harbor Improvement	MBDS	3892	2975	8/1/2018	42.43330	-70.59650
Boston Harbor Improvement	MBDS	2419	1850	8/1/2018	42.43370	-70.59640
Boston Harbor Improvement	MBDS	3537	2704	8/1/2018	42.43220	-70.60150
Boston Harbor Improvement	MBDS	4336	3315	8/1/2018	42.43220	-70.60220
Boston Harbor Improvement	MBDS	4102	3136	8/2/2018	42.43240	-70.60050
Boston Harbor Improvement	MBDS	4474	3420	8/2/2018	42.43280	-70.59960
Boston Harbor Improvement	MBDS	3731	2853	8/2/2018	42.43280	-70.59940
Boston Harbor Improvement	MBDS	1946	1488	8/2/2018	42.43210	-70.59990
Boston Harbor Improvement	MBDS	3747	2864	8/3/2018	42.43310	-70.59810
Boston Harbor Improvement	MBDS	4475	3422	8/3/2018	42.43360	-70.59690
Boston Harbor Improvement	MBDS	3913	2991	8/3/2018	42.43270	-70.60220
Boston Harbor Improvement	MBDS	3689	2820	8/3/2018	42.43260	-70.60200
Boston Harbor Improvement	MBDS	4079	3119	8/3/2018	42.43270	-70.60110
Boston Harbor Improvement	MBDS	2048	1566	8/3/2018	42.43400	-70.59940
Boston Harbor Improvement	MBDS	1296	991	8/4/2018	42.43320	-70.59840
Boston Harbor Improvement	MBDS	2668	2040	8/4/2018	42.43330	-70.59690
Boston Harbor Improvement	MBDS	4280	3272	8/5/2018	42.43650	-70.58790
Boston Harbor Improvement	MBDS	1959	1497	8/5/2018	42.43520	-70.58870
Boston Harbor Improvement	MBDS	1281	980	8/5/2018	42.43310	-70.59980
Boston Harbor Improvement	MBDS	4365	3337	8/5/2018	42.43400	-70.58860
Boston Harbor Improvement	MBDS	3604	2756	8/5/2018	42.43510	-70.58660
Boston Harbor Improvement	MBDS	2454	1876	8/6/2018	42.43490	-70.58770
Boston Harbor Improvement	MBDS	2420	1850	8/6/2018	42.43480	-70.58690
Boston Harbor Improvement	MBDS	3781	2890	8/6/2018	42.43460	-70.58720
Boston Harbor Improvement	MBDS	4557	3484	8/6/2018	42.43430	-70.58750
Boston Harbor Improvement	MBDS	1305	998	8/6/2018	42.43400	-70.58810
Boston Harbor Improvement	MBDS	1305	998	8/6/2018	42.43410	-70.58640
Boston Harbor Improvement	MBDS	3800	2905	8/6/2018	42.43460	-70.58690
Boston Harbor Improvement	MBDS	3994	3054	8/6/2018	42.43470	-70.58620
Boston Harbor Improvement	MBDS	4229	3234	8/6/2018	42.43480	-70.58620
Boston Harbor Improvement	MBDS	3636	2780	8/7/2018	42.43460	-70.58680
Boston Harbor Improvement	MBDS	3694	2824	8/7/2018	42.43450	-70.58850
Boston Harbor Improvement	MBDS	4426	3384	8/7/2018	42.43440	-70.58630
Boston Harbor Improvement	MBDS	4110	3142	8/7/2018	42.43450	-70.58900
Boston Harbor Improvement	MBDS	3587	2743	8/7/2018	42.43500	-70.58740
Boston Harbor Improvement	MBDS	2081	1591	8/8/2018	42.43430	-70.58830
Boston Harbor Improvement	MBDS	4678	3576	8/8/2018	42.43490	-70.58750
Boston Harbor Improvement	MBDS	3955	3024	8/8/2018	42.43460	-70.58750
Boston Harbor Improvement	MBDS	3858	2950	8/8/2018	42.43490	-70.58810
Boston Harbor Improvement	MBDS	4271	3266	8/9/2018	42.43490	-70.58760
Boston Harbor Improvement	MBDS	3805	2909	8/9/2018	42.43540	-70.58520
Boston Harbor Improvement	MBDS	3808	2911	8/9/2018	42.43510	-70.58640
Boston Harbor Improvement	MBDS	4297	3285	8/9/2018	42.43530	-70.58630
Boston Harbor Improvement	MBDS	3763	2877	8/10/2018	42.43400	-70.58840
Boston Harbor Improvement	MBDS	3514	2687	8/10/2018	42.43460	-70.58680
Boston Harbor Improvement	MBDS	3864	2954	8/10/2018	42.43290	-70.59420
Boston Harbor Improvement	MBDS	4009	3065	8/11/2018	42.43283	-70.59417
Boston Harbor Improvement	MBDS	3603	2755	8/11/2018	42.43570	-70.58520
Boston Harbor Improvement	MBDS	3034	2320	8/11/2018	42.43470	-70.58900
Boston Harbor Improvement	MBDS	4340	3318	8/11/2018	42.43500	-70.58940
Boston Harbor Improvement	MBDS	3585	2741	8/12/2018	42.43490	-70.58930
Boston Harbor Improvement	MBDS	3385	2588	8/12/2018	42.43530	-70.58830
Boston Harbor Improvement	MBDS	4181	3196	8/12/2018	42.43530	-70.58800
Boston Harbor Improvement	MBDS	3767	2880	8/12/2018	42.43520	-70.58790
Boston Harbor Improvement	MBDS	3595	2748	8/13/2018	42.43550	-70.58710

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4574	3497	8/13/2018	42.43550	-70.58710
Boston Harbor Improvement	MBDS	3856	2948	8/13/2018	42.43550	-70.58710
Boston Harbor Improvement	MBDS	3504	2679	8/13/2018	42.43560	-70.58710
Boston Harbor Improvement	MBDS	4697	3591	8/13/2018	42.43570	-70.58590
Boston Harbor Improvement	MBDS	3205	2450	8/14/2018	42.43590	-70.58660
Boston Harbor Improvement	MBDS	3805	2909	8/14/2018	42.43580	-70.58560
Boston Harbor Improvement	MBDS	3226	2466	8/14/2018	42.43590	-70.58660
Boston Harbor Improvement	MBDS	3689	2820	8/14/2018	42.43500	-70.58960
Boston Harbor Improvement	MBDS	3257	2490	8/15/2018	42.43520	-70.58980
Boston Harbor Improvement	MBDS	3525	2695	8/15/2018	42.43490	-70.58960
Boston Harbor Improvement	MBDS	4617	3530	8/15/2018	42.43510	-70.58990
Boston Harbor Improvement	MBDS	3660	2798	8/15/2018	42.43540	-70.58860
Boston Harbor Improvement	MBDS	4293	3283	8/15/2018	42.43740	-70.59220
Boston Harbor Improvement	MBDS	3334	2549	8/16/2018	42.43540	-70.58880
Boston Harbor Improvement	MBDS	3668	2805	8/16/2018	42.43560	-70.58840
Boston Harbor Improvement	MBDS	4478	3424	8/16/2018	42.43580	-70.58730
Boston Harbor Improvement	MBDS	3611	2761	8/16/2018	42.43590	-70.58740
Boston Harbor Improvement	MBDS	3400	2599	8/16/2018	42.43570	-70.58750
Boston Harbor Improvement	MBDS	4342	3320	8/16/2018	42.43610	-70.58730
Boston Harbor Improvement	MBDS	2661	2035	8/17/2018	42.43610	-70.58660
Boston Harbor Improvement	MBDS	3630	2775	8/17/2018	42.43610	-70.58620
Boston Harbor Improvement	MBDS	3343	2556	8/17/2018	42.43610	-70.58630
Boston Harbor Improvement	MBDS	4317	3301	8/17/2018	42.43620	-70.58510
Boston Harbor Improvement	MBDS	3605	2756	8/17/2018	42.43650	-70.58460
Boston Harbor Improvement	MBDS	2826	2161	8/18/2018	42.43680	-70.58520
Boston Harbor Improvement	MBDS	3478	2659	8/18/2018	42.43630	-70.58510
Boston Harbor Improvement	MBDS	4538	3469	8/18/2018	42.43640	-70.58530
Boston Harbor Improvement	MBDS	3805	2909	8/18/2018	42.43240	-70.60020
Boston Harbor Improvement	MBDS	3765	2878	8/18/2018	42.43230	-70.60010
Boston Harbor Improvement	MBDS	3253	2487	8/18/2018	42.43560	-70.59020
Boston Harbor Improvement	MBDS	2910	2225	8/18/2018	42.43530	-70.59000
Boston Harbor Improvement	MBDS	4710	3601	8/18/2018	42.43530	-70.59030
Boston Harbor Improvement	MBDS	3687	2819	8/19/2018	42.43530	-70.59000
Boston Harbor Improvement	MBDS	2857	2184	8/19/2018	42.43560	-70.58880
Boston Harbor Improvement	MBDS	3237	2475	8/19/2018	42.43580	-70.58920
Boston Harbor Improvement	MBDS	4097	3133	8/20/2018	42.43580	-70.58910
Boston Harbor Improvement	MBDS	3899	2981	8/20/2018	42.43600	-70.58770
Boston Harbor Improvement	MBDS	2866	2191	8/20/2018	42.43560	-70.58910
Boston Harbor Improvement	MBDS	3796	2902	8/20/2018	42.43540	-70.59010
Boston Harbor Improvement	MBDS	4524	3458	8/20/2018	42.43630	-70.58820
Boston Harbor Improvement	MBDS	3850	2943	8/20/2018	42.43630	-70.58810
Boston Harbor Improvement	MBDS	2876	2199	8/20/2018	42.43630	-70.58800
Boston Harbor Improvement	MBDS	3779	2889	8/21/2018	42.43610	-70.58800
Boston Harbor Improvement	MBDS	3640	2783	8/21/2018	42.43610	-70.58790
Boston Harbor Improvement	MBDS	4283	3274	8/21/2018	42.43650	-70.58660
Boston Harbor Improvement	MBDS	3734	2855	8/21/2018	42.43630	-70.58670
Boston Harbor Improvement	MBDS	3789	2897	8/21/2018	42.43640	-70.58670
Boston Harbor Improvement	MBDS	2787	2131	8/21/2018	42.43640	-70.58690
Boston Harbor Improvement	MBDS	4400	3364	8/21/2018	42.43630	-70.58680
Boston Harbor Improvement	MBDS	3069	2346	8/22/2018	42.43550	-70.58850
Boston Harbor Improvement	MBDS	3893	2976	8/22/2018	42.43680	-70.58580
Boston Harbor Improvement	MBDS	3698	2828	8/22/2018	42.43490	-70.58660
Boston Harbor Improvement	MBDS	2773	2120	8/22/2018	42.43260	-70.59590
Boston Harbor Improvement	MBDS	4261	3258	8/22/2018	42.43340	-70.59510
Boston Harbor Improvement	MBDS	3700	2829	8/22/2018	42.43470	-70.58930
Boston Harbor Improvement	MBDS	3725	2848	8/22/2018	42.43550	-70.58850
Boston Harbor Improvement	MBDS	3574	2733	8/22/2018	42.43600	-70.58540
Boston Harbor Improvement	MBDS	4220	3226	8/23/2018	42.43670	-70.58570
Boston Harbor Improvement	MBDS	2500	1911	8/23/2018	42.43710	-70.58550
Boston Harbor Improvement	MBDS	3651	2791	8/23/2018	42.43710	-70.58560
Boston Harbor Improvement	MBDS	3517	2689	8/23/2018	42.43720	-70.58490
Boston Harbor Improvement	MBDS	3541	2707	8/23/2018	42.43710	-70.58470
Boston Harbor Improvement	MBDS	4390	3356	8/23/2018	42.43700	-70.58490
Boston Harbor Improvement	MBDS	2920	2232	8/23/2018	42.43710	-70.58490
Boston Harbor Improvement	MBDS	3271	2501	8/24/2018	42.43690	-70.58470
Boston Harbor Improvement	MBDS	3784	2893	8/24/2018	42.43240	-70.60210
Boston Harbor Improvement	MBDS	3617	2765	8/24/2018	42.43260	-70.60030
Boston Harbor Improvement	MBDS	2798	2139	8/24/2018	42.43330	-70.59860
Boston Harbor Improvement	MBDS	4308	3294	8/24/2018	42.43350	-70.59860
Boston Harbor Improvement	MBDS	3633	2777	8/24/2018	42.43330	-70.59850
Boston Harbor Improvement	MBDS	3501	2677	8/24/2018	42.43320	-70.59650
Boston Harbor Improvement	MBDS	3901	2982	8/25/2018	42.43370	-70.59740
Boston Harbor Improvement	MBDS	4468	3416	8/25/2018	42.43380	-70.59790
Boston Harbor Improvement	MBDS	2759	2109	8/25/2018	42.43410	-70.59750
Boston Harbor Improvement	MBDS	3498	2675	8/25/2018	42.43380	-70.59770
Boston Harbor Improvement	MBDS	3814	2916	8/25/2018	42.43550	-70.59150
Boston Harbor Improvement	MBDS	3920	2997	8/25/2018	42.43560	-70.59180
Boston Harbor Improvement	MBDS	4229	3233	8/25/2018	42.43540	-70.59210
Boston Harbor Improvement	MBDS	3572	2731	8/26/2018	42.43530	-70.59190
Boston Harbor Improvement	MBDS	2959	2262	8/26/2018	42.43540	-70.59190
Boston Harbor Improvement	MBDS	3771	2883	8/26/2018	42.43570	-70.59070
Boston Harbor Improvement	MBDS	2767	2115	8/26/2018	42.43570	-70.59070
Boston Harbor Improvement	MBDS	3766	2879	8/26/2018	42.43570	-70.59000

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4130	3157	8/26/2018	42.43580	-70.59080
Boston Harbor Improvement	MBDS	3389	2591	8/26/2018	42.43680	-70.58990
Boston Harbor Improvement	MBDS	2758	2109	8/26/2018	42.43620	-70.58970
Boston Harbor Improvement	MBDS	3780	2890	8/27/2018	42.43590	-70.58900
Boston Harbor Improvement	MBDS	3638	2781	8/27/2018	42.43610	-70.58960
Boston Harbor Improvement	MBDS	4309	3294	8/27/2018	42.43600	-70.59010
Boston Harbor Improvement	MBDS	2791	2134	8/27/2018	42.43640	-70.58860
Boston Harbor Improvement	MBDS	3459	2644	8/27/2018	42.43660	-70.58850
Boston Harbor Improvement	MBDS	3762	2876	8/27/2018	42.43660	-70.58820
Boston Harbor Improvement	MBDS	3819	2920	8/28/2018	42.43650	-70.58840
Boston Harbor Improvement	MBDS	4294	3283	8/28/2018	42.43680	-70.58740
Boston Harbor Improvement	MBDS	2612	1997	8/28/2018	42.43710	-70.58710
Boston Harbor Improvement	MBDS	3311	2531	8/28/2018	42.43650	-70.58730
Boston Harbor Improvement	MBDS	4115	3146	8/28/2018	42.43680	-70.58730
Boston Harbor Improvement	MBDS	4384	3352	8/28/2018	42.43690	-70.58660
Boston Harbor Improvement	MBDS	2824	2159	8/28/2018	42.43720	-70.58620
Boston Harbor Improvement	MBDS	3469	2652	8/29/2018	42.43730	-70.58630
Boston Harbor Improvement	MBDS	3805	2909	8/29/2018	42.43710	-70.58600
Boston Harbor Improvement	MBDS	4165	3184	8/29/2018	42.43690	-70.58620
Boston Harbor Improvement	MBDS	2715	2076	8/29/2018	42.43740	-70.58520
Boston Harbor Improvement	MBDS	3330	2546	8/29/2018	42.43750	-70.58520
Boston Harbor Improvement	MBDS	3821	2921	8/29/2018	42.43750	-70.58490
Boston Harbor Improvement	MBDS	4277	3270	8/30/2018	42.43760	-70.58520
Boston Harbor Improvement	MBDS	2670	2041	8/30/2018	42.43750	-70.58510
Boston Harbor Improvement	MBDS	3788	2897	8/30/2018	42.43360	-70.60160
Boston Harbor Improvement	MBDS	3211	2455	8/30/2018	42.43290	-70.60230
Boston Harbor Improvement	MBDS	4385	3352	8/30/2018	42.43280	-70.60250
Boston Harbor Improvement	MBDS	2748	2101	8/30/2018	42.43270	-70.60230
Boston Harbor Improvement	MBDS	3759	2874	8/30/2018	42.43290	-70.60200
Boston Harbor Improvement	MBDS	3609	2759	8/31/2018	42.43330	-70.60150
Boston Harbor Improvement	MBDS	3994	3054	8/31/2018	42.43320	-70.60130
Boston Harbor Improvement	MBDS	2527	1932	8/31/2018	42.43310	-70.60120
Boston Harbor Improvement	MBDS	3721	2845	8/31/2018	42.43260	-70.60170
Boston Harbor Improvement	MBDS	3728	2850	8/31/2018	42.43340	-70.60110
Boston Harbor Improvement	MBDS	4493	3435	8/31/2018	42.43350	-70.60000
Boston Harbor Improvement	MBDS	1940	1483	9/1/2018	42.43340	-70.59960
Boston Harbor Improvement	MBDS	2830	2164	9/1/2018	42.43330	-70.59980
Boston Harbor Improvement	MBDS	3249	2484	9/1/2018	42.43340	-70.59980
Boston Harbor Improvement	MBDS	3603	2755	9/1/2018	42.43350	-70.60030
Boston Harbor Improvement	MBDS	4293	3282	9/1/2018	42.43400	-70.59890
Boston Harbor Improvement	MBDS	3653	2793	9/1/2018	42.43400	-70.59870
Boston Harbor Improvement	MBDS	2774	2121	9/1/2018	42.43390	-70.59870
Boston Harbor Improvement	MBDS	2961	2264	9/2/2018	42.43370	-70.59880
Boston Harbor Improvement	MBDS	4284	3275	9/2/2018	42.43430	-70.59800
Boston Harbor Improvement	MBDS	3632	2777	9/2/2018	42.43390	-70.59890
Boston Harbor Improvement	MBDS	2825	2160	9/2/2018	42.43410	-70.59780
Boston Harbor Improvement	MBDS	3854	2946	9/2/2018	42.43430	-70.59740
Boston Harbor Improvement	MBDS	3242	2479	9/2/2018	42.43420	-70.59790
Boston Harbor Improvement	MBDS	4365	3337	9/2/2018	42.43410	-70.59780
Boston Harbor Improvement	MBDS	3899	2981	9/3/2018	42.43430	-70.59690
Boston Harbor Improvement	MBDS	3677	2811	9/3/2018	42.43470	-70.59650
Boston Harbor Improvement	MBDS	2622	2004	9/3/2018	42.43470	-70.59670
Boston Harbor Improvement	MBDS	3279	2507	9/3/2018	42.43460	-70.59670
Boston Harbor Improvement	MBDS	2735	2091	9/3/2018	42.43460	-70.59660
Boston Harbor Improvement	MBDS	4585	3506	9/4/2018	42.43447	-70.59640
Boston Harbor Improvement	MBDS	3302	2524	9/4/2018	42.43490	-70.59560
Boston Harbor Improvement	MBDS	4036	3086	9/4/2018	42.43490	-70.59430
Boston Harbor Improvement	MBDS	2769	2117	9/4/2018	42.43470	-70.59550
Boston Harbor Improvement	MBDS	3741	2861	9/4/2018	42.43490	-70.59550
Boston Harbor Improvement	MBDS	4304	3291	9/4/2018	42.43520	-70.59450
Boston Harbor Improvement	MBDS	3451	2639	9/4/2018	42.43150	-70.59760
Boston Harbor Improvement	MBDS	3820	2920	9/5/2018	42.43520	-70.59400
Boston Harbor Improvement	MBDS	3597	2750	9/5/2018	42.43560	-70.59280
Boston Harbor Improvement	MBDS	2725	2084	9/5/2018	42.43510	-70.59450
Boston Harbor Improvement	MBDS	4333	3313	9/5/2018	42.43540	-70.59460
Boston Harbor Improvement	MBDS	3259	2492	9/5/2018	42.43550	-70.59330
Boston Harbor Improvement	MBDS	4157	3178	9/5/2018	42.43580	-70.59310
Boston Harbor Improvement	MBDS	3897	2980	9/5/2018	42.43550	-70.59320
Boston Harbor Improvement	MBDS	2732	2089	9/5/2018	42.43570	-70.59320
Boston Harbor Improvement	MBDS	4238	3240	9/5/2018	42.43570	-70.59340
Boston Harbor Improvement	MBDS	3275	2504	9/6/2018	42.43580	-70.59200
Boston Harbor Improvement	MBDS	3771	2883	9/6/2018	42.43580	-70.59200
Boston Harbor Improvement	MBDS	4589	3509	9/6/2018	42.43590	-70.59210
Boston Harbor Improvement	MBDS	1488	1137	9/6/2018	42.43493	-70.59492
Boston Harbor Improvement	MBDS	3326	2543	9/6/2018	42.43640	-70.59090
Boston Harbor Improvement	MBDS	3536	2703	9/6/2018	42.43640	-70.59070
Boston Harbor Improvement	MBDS	3998	3057	9/7/2018	42.43630	-70.59110
Boston Harbor Improvement	MBDS	3275	2504	9/7/2018	42.43640	-70.59090
Boston Harbor Improvement	MBDS	2909	2224	9/7/2018	42.43660	-70.58990
Boston Harbor Improvement	MBDS	3374	2580	9/7/2018	42.43670	-70.58990
Boston Harbor Improvement	MBDS	4274	3268	9/7/2018	42.43660	-70.59000
Boston Harbor Improvement	MBDS	3249	2484	9/7/2018	42.43690	-70.58980
Boston Harbor Improvement	MBDS	3124	2389	9/7/2018	42.43660	-70.58860

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3461	2646	9/8/2018	42.43690	-70.58850
Boston Harbor Improvement	MBDS	4442	3396	9/8/2018	42.43700	-70.58890
Boston Harbor Improvement	MBDS	3246	2482	9/8/2018	42.43740	-70.58850
Boston Harbor Improvement	MBDS	2875	2198	9/8/2018	42.43660	-70.58830
Boston Harbor Improvement	MBDS	3789	2897	9/8/2018	42.43680	-70.58850
Boston Harbor Improvement	MBDS	4387	3354	9/8/2018	42.43720	-70.58770
Boston Harbor Improvement	MBDS	3221	2463	9/8/2018	42.43750	-70.58770
Boston Harbor Improvement	MBDS	3566	2726	9/9/2018	42.43720	-70.58750
Boston Harbor Improvement	MBDS	4344	3321	9/9/2018	42.43710	-70.58750
Boston Harbor Improvement	MBDS	3026	2313	9/9/2018	42.43700	-70.58740
Boston Harbor Improvement	MBDS	3322	2540	9/9/2018	42.43770	-70.58650
Boston Harbor Improvement	MBDS	3577	2735	9/9/2018	42.43770	-70.58640
Boston Harbor Improvement	MBDS	4249	3249	9/9/2018	42.43760	-70.58670
Boston Harbor Improvement	MBDS	2499	1911	9/9/2018	42.43760	-70.58640
Boston Harbor Improvement	MBDS	3800	2906	9/10/2018	42.43760	-70.58650
Boston Harbor Improvement	MBDS	3911	2990	9/10/2018	42.43810	-70.58540
Boston Harbor Improvement	MBDS	4914	3757	9/10/2018	42.43820	-70.58560
Boston Harbor Improvement	MBDS	3709	2836	9/10/2018	42.43820	-70.58560
Boston Harbor Improvement	MBDS	3488	2667	9/10/2018	42.43820	-70.58520
Boston Harbor Improvement	MBDS	3736	2856	9/11/2018	42.43820	-70.58420
Boston Harbor Improvement	MBDS	3788	2896	9/11/2018	42.43740	-70.58700
Boston Harbor Improvement	MBDS	3577	2735	9/11/2018	42.43850	-70.58410
Boston Harbor Improvement	MBDS	2375	1816	9/12/2018	42.43800	-70.58530
Boston Harbor Improvement	MBDS	4222	3228	9/12/2018	42.43810	-70.58410
Boston Harbor Improvement	MBDS	3910	2990	9/12/2018	42.43810	-70.58410
Boston Harbor Improvement	MBDS	3979	3042	9/12/2018	42.43870	-70.58320
Boston Harbor Improvement	MBDS	2757	2108	9/12/2018	42.43870	-70.58270
Boston Harbor Improvement	MBDS	3755	2871	9/13/2018	42.43850	-70.58310
Boston Harbor Improvement	MBDS	3773	2885	9/13/2018	42.43360	-70.58150
Boston Harbor Improvement	MBDS	2007	1534	9/13/2018	42.43870	-70.58310
Boston Harbor Improvement	MBDS	4163	3183	9/13/2018	42.43860	-70.58310
Boston Harbor Improvement	MBDS	2771	2119	9/13/2018	42.43900	-70.58190
Boston Harbor Improvement	MBDS	3308	2529	9/13/2018	42.43880	-70.58200
Boston Harbor Improvement	MBDS	4294	3283	9/14/2018	42.43930	-70.58100
Boston Harbor Improvement	MBDS	4117	3147	9/14/2018	42.43890	-70.58210
Boston Harbor Improvement	MBDS	2652	2028	9/14/2018	42.43890	-70.58200
Boston Harbor Improvement	MBDS	2080	1591	9/14/2018	42.43950	-70.57960
Boston Harbor Improvement	MBDS	2505	1915	9/14/2018	42.43950	-70.58010
Boston Harbor Improvement	MBDS	3524	2695	9/14/2018	42.43930	-70.58090
Boston Harbor Improvement	MBDS	4273	3267	9/14/2018	42.43920	-70.58120
Boston Harbor Improvement	MBDS	2645	2022	9/14/2018	42.43950	-70.58010
Boston Harbor Improvement	MBDS	3700	2829	9/14/2018	42.43940	-70.57980
Boston Harbor Improvement	MBDS	3530	2699	9/15/2018	42.43940	-70.58030
Boston Harbor Improvement	MBDS	3910	2990	9/15/2018	42.43930	-70.57990
Boston Harbor Improvement	MBDS	4432	3388	9/15/2018	42.43960	-70.58050
Boston Harbor Improvement	MBDS	2787	2131	9/15/2018	42.43320	-70.60250
Boston Harbor Improvement	MBDS	3799	2904	9/15/2018	42.43320	-70.60210
Boston Harbor Improvement	MBDS	2499	1910	9/15/2018	42.43350	-70.60210
Boston Harbor Improvement	MBDS	3472	2655	9/15/2018	42.43340	-70.60240
Boston Harbor Improvement	MBDS	3580	2737	9/15/2018	42.43350	-70.58070
Boston Harbor Improvement	MBDS	4030	3081	9/15/2018	42.43320	-70.60260
Boston Harbor Improvement	MBDS	2675	2045	9/16/2018	42.43370	-70.60150
Boston Harbor Improvement	MBDS	1891	1446	9/16/2018	42.43360	-70.60110
Boston Harbor Improvement	MBDS	4413	3374	9/16/2018	42.43400	-70.59900
Boston Harbor Improvement	MBDS	3556	2719	9/16/2018	42.43350	-70.60140
Boston Harbor Improvement	MBDS	4515	3452	9/16/2018	42.43370	-70.60130
Boston Harbor Improvement	MBDS	2622	2005	9/16/2018	42.43400	-70.59960
Boston Harbor Improvement	MBDS	2854	2182	9/16/2018	42.43400	-70.60000
Boston Harbor Improvement	MBDS	3326	2543	9/16/2018	42.43380	-70.60000
Boston Harbor Improvement	MBDS	2388	1826	9/17/2018	42.43400	-70.59960
Boston Harbor Improvement	MBDS	3974	3038	9/17/2018	42.43390	-70.60030
Boston Harbor Improvement	MBDS	4537	3469	9/17/2018	42.43450	-70.59800
Boston Harbor Improvement	MBDS	3241	2478	9/17/2018	42.43400	-70.59900
Boston Harbor Improvement	MBDS	4217	3224	9/17/2018	42.43430	-70.59910
Boston Harbor Improvement	MBDS	3680	2814	9/17/2018	42.43440	-70.59890
Boston Harbor Improvement	MBDS	4262	3258	9/17/2018	42.43420	-70.59920
Boston Harbor Improvement	MBDS	2431	1858	9/17/2018	42.43460	-70.59740
Boston Harbor Improvement	MBDS	3274	2503	9/18/2018	42.43450	-70.59800
Boston Harbor Improvement	MBDS	2906	2222	9/18/2018	42.43440	-70.59750
Boston Harbor Improvement	MBDS	3464	2648	9/18/2018	42.43380	-70.58160
Boston Harbor Improvement	MBDS	3657	2796	9/18/2018	42.43470	-70.59800
Boston Harbor Improvement	MBDS	2728	2086	9/18/2018	42.43450	-70.59790
Boston Harbor Improvement	MBDS	3376	2581	9/18/2018	42.43433	-70.59870
Boston Harbor Improvement	MBDS	2310	1766	9/18/2018	42.43520	-70.59670
Boston Harbor Improvement	MBDS	1181	903	9/19/2018	42.43496	-70.59618
Boston Harbor Improvement	MBDS	3679	2813	9/19/2018	42.43480	-70.59660
Boston Harbor Improvement	MBDS	2728	2086	9/19/2018	42.43510	-70.59650
Boston Harbor Improvement	MBDS	3510	2684	9/19/2018	42.43500	-70.59670
Boston Harbor Improvement	MBDS	1903	1455	9/19/2018	42.43530	-70.59560
Boston Harbor Improvement	MBDS	4306	3292	9/19/2018	42.43530	-70.59590
Boston Harbor Improvement	MBDS	2835	2168	9/19/2018	42.43550	-70.59550
Boston Harbor Improvement	MBDS	4017	3071	9/20/2018	42.43530	-70.59580
Boston Harbor Improvement	MBDS	3479	2660	9/20/2018	42.43570	-70.59450

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3748	2866	9/20/2018	42.43550	-70.59460
Boston Harbor Improvement	MBDS	4716	3606	9/20/2018	42.43550	-70.59490
Boston Harbor Improvement	MBDS	4258	3256	9/21/2018	42.43520	-70.59570
Boston Harbor Improvement	MBDS	2284	1746	9/21/2018	42.43580	-70.59420
Boston Harbor Improvement	MBDS	3653	2793	9/21/2018	42.43580	-70.59450
Boston Harbor Improvement	MBDS	4194	3207	9/21/2018	42.43570	-70.59400
Boston Harbor Improvement	MBDS	3535	2703	9/21/2018	42.43590	-70.59330
Boston Harbor Improvement	MBDS	3596	2749	9/21/2018	42.43600	-70.59350
Boston Harbor Improvement	MBDS	3980	3043	9/21/2018	42.43590	-70.59350
Boston Harbor Improvement	MBDS	2380	1820	9/21/2018	42.43600	-70.59320
Boston Harbor Improvement	MBDS	4285	3276	9/21/2018	42.43721	-70.59016
Boston Harbor Improvement	MBDS	3577	2735	9/21/2018	42.43642	-70.59211
Boston Harbor Improvement	MBDS	3253	2487	9/22/2018	42.43692	-70.59181
Boston Harbor Improvement	MBDS	3207	2452	9/22/2018	42.43620	-70.59210
Boston Harbor Improvement	MBDS	4334	3314	9/22/2018	42.43641	-70.59188
Boston Harbor Improvement	MBDS	4744	3627	9/22/2018	42.43709	-70.59049
Boston Harbor Improvement	MBDS	2963	2266	9/22/2018	42.43668	-70.59085
Boston Harbor Improvement	MBDS	2492	1906	9/22/2018	42.43668	-70.59113
Boston Harbor Improvement	MBDS	4129	3157	9/22/2018	42.43728	-70.59052
Boston Harbor Improvement	MBDS	4311	3296	9/22/2018	42.43688	-70.59086
Boston Harbor Improvement	MBDS	3370	2576	9/22/2018	42.43726	-70.58945
Boston Harbor Improvement	MBDS	2973	2273	9/23/2018	42.43721	-70.58939
Boston Harbor Improvement	MBDS	4491	3433	9/23/2018	42.43703	-70.58982
Boston Harbor Improvement	MBDS	2605	1992	9/23/2018	42.43714	-70.58925
Boston Harbor Improvement	MBDS	4674	3573	9/23/2018	42.43688	-70.58925
Boston Harbor Improvement	MBDS	3099	2370	9/23/2018	42.43721	-70.58830
Boston Harbor Improvement	MBDS	3441	2631	9/23/2018	42.43783	-70.58814
Boston Harbor Improvement	MBDS	2812	2150	9/23/2018	42.43740	-70.58825
Boston Harbor Improvement	MBDS	4273	3267	9/23/2018	42.43742	-70.58862
Boston Harbor Improvement	MBDS	3423	2617	9/23/2018	42.43474	-70.59787
Boston Harbor Improvement	MBDS	4412	3374	9/24/2018	42.43775	-70.58761
Boston Harbor Improvement	MBDS	3642	2785	9/24/2018	42.43790	-70.58692
Boston Harbor Improvement	MBDS	3069	2346	9/24/2018	42.43821	-70.58687
Boston Harbor Improvement	MBDS	4249	3248	9/24/2018	42.43778	-70.58754
Boston Harbor Improvement	MBDS	2301	1759	9/24/2018	42.43811	-70.58559
Boston Harbor Improvement	MBDS	2474	1892	9/24/2018	42.43773	-70.58756
Boston Harbor Improvement	MBDS	4703	3596	9/24/2018	42.43850	-70.58532
Boston Harbor Improvement	MBDS	4165	3184	9/25/2018	42.43794	-70.58693
Boston Harbor Improvement	MBDS	3491	2669	9/25/2018	42.43827	-70.58603
Boston Harbor Improvement	MBDS	3091	2363	9/25/2018	42.43823	-70.58629
Boston Harbor Improvement	MBDS	4640	3548	9/25/2018	42.43864	-70.58503
Boston Harbor Improvement	MBDS	2618	2002	9/25/2018	42.43861	-70.58535
Boston Harbor Improvement	MBDS	4018	3072	9/25/2018	42.43873	-70.58440
Boston Harbor Improvement	MBDS	2599	1987	9/25/2018	42.43778	-70.57971
Boston Harbor Improvement	MBDS	3791	2898	9/25/2018	42.43106	-70.59917
Boston Harbor Improvement	MBDS	2466	1886	9/26/2018	42.43908	-70.58268
Boston Harbor Improvement	MBDS	4621	3533	9/26/2018	42.43872	-70.58437
Boston Harbor Improvement	MBDS	3243	2479	9/26/2018	42.43916	-70.58317
Boston Harbor Improvement	MBDS	4216	3223	9/26/2018	42.43922	-70.58332
Boston Harbor Improvement	MBDS	3581	2738	9/27/2018	42.43903	-70.58252
Boston Harbor Improvement	MBDS	3517	2689	9/27/2018	42.43914	-70.58312
Boston Harbor Improvement	MBDS	3071	2348	9/27/2018	42.43925	-70.58205
Boston Harbor Improvement	MBDS	3945	3016	9/27/2018	42.43991	-70.58043
Boston Harbor Improvement	MBDS	4257	3255	9/27/2018	42.43930	-70.58205
Boston Harbor Improvement	MBDS	3558	2721	9/27/2018	42.43946	-70.58181
Boston Harbor Improvement	MBDS	2543	1944	9/27/2018	42.43993	-70.58054
Boston Harbor Improvement	MBDS	683	522	9/27/2018	42.43970	-70.58159
Boston Harbor Improvement	MBDS	3357	2567	9/27/2018	42.43970	-70.58122
Boston Harbor Improvement	MBDS	4205	3215	9/27/2018	42.43987	-70.58082
Boston Harbor Improvement	MBDS	3584	2740	9/28/2018	42.44029	-70.57989
Boston Harbor Improvement	MBDS	4381	3349	9/28/2018	42.44025	-70.57932
Boston Harbor Improvement	MBDS	3495	2672	9/28/2018	42.44010	-70.57953
Boston Harbor Improvement	MBDS	2656	2030	9/28/2018	42.44005	-70.57927
Boston Harbor Improvement	MBDS	2925	2236	9/28/2018	42.44023	-70.57968
Boston Harbor Improvement	MBDS	2674	2045	9/28/2018	42.43426	-70.60090
Boston Harbor Improvement	MBDS	3716	2841	9/28/2018	42.43394	-70.60189
Boston Harbor Improvement	MBDS	4444	3397	9/28/2018	42.44016	-70.57955
Boston Harbor Improvement	MBDS	2797	2139	9/28/2018	42.43407	-70.60174
Boston Harbor Improvement	MBDS	4362	3335	9/29/2018	42.43418	-70.60159
Boston Harbor Improvement	MBDS	3690	2821	9/29/2018	42.43383	-70.60204
Boston Harbor Improvement	MBDS	2564	1960	9/29/2018	42.43524	-70.59879
Boston Harbor Improvement	MBDS	3715	2841	9/29/2018	42.43444	-70.60077
Boston Harbor Improvement	MBDS	4331	3312	9/29/2018	42.43437	-70.60094
Boston Harbor Improvement	MBDS	2473	1891	9/30/2018	42.43510	-70.59921
Boston Harbor Improvement	MBDS	3592	2746	9/30/2018	42.43425	-70.60088
Boston Harbor Improvement	MBDS	3331	2546	9/30/2018	42.43506	-70.59977
Boston Harbor Improvement	MBDS	4600	3517	9/30/2018	42.43457	-70.60004
Boston Harbor Improvement	MBDS	4155	3177	9/30/2018	42.43524	-70.59744
Boston Harbor Improvement	MBDS	3595	2749	9/30/2018	42.43462	-70.59973
Boston Harbor Improvement	MBDS	2783	2128	10/1/2018	42.43476	-70.59941
Boston Harbor Improvement	MBDS	2600	1988	10/1/2018	42.43515	-70.59680
Boston Harbor Improvement	MBDS	3143	2403	10/1/2018	42.43503	-70.59844
Boston Harbor Improvement	MBDS	4275	3269	10/1/2018	42.43480	-70.59925

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3711	2837	10/1/2018	42.43501	-70.59904
Boston Harbor Improvement	MBDS	1203	920	10/1/2018	42.43711	-70.59529
Boston Harbor Improvement	MBDS	3400	2600	10/1/2018	42.43514	-70.59817
Boston Harbor Improvement	MBDS	3863	2953	10/1/2018	42.43532	-70.59749
Boston Harbor Improvement	MBDS	4132	3159	10/2/2018	42.43529	-70.59752
Boston Harbor Improvement	MBDS	2313	1769	10/2/2018	42.43539	-70.59586
Boston Harbor Improvement	MBDS	3770	2882	10/2/2018	42.43590	-70.59574
Boston Harbor Improvement	MBDS	2848	2177	10/2/2018	42.43546	-70.59731
Boston Harbor Improvement	MBDS	3350	2561	10/2/2018	42.43547	-70.59689
Boston Harbor Improvement	MBDS	4486	3429	10/2/2018	42.43565	-70.59656
Boston Harbor Improvement	MBDS	4452	3404	10/2/2018	42.43590	-70.59591
Boston Harbor Improvement	MBDS	3575	2734	10/2/2018	42.43598	-70.59596
Boston Harbor Improvement	MBDS	3452	2639	10/3/2018	42.43575	-70.59588
Boston Harbor Improvement	MBDS	1869	1429	10/3/2018	42.43584	-70.59516
Boston Harbor Improvement	MBDS	2624	2006	10/3/2018	42.43629	-70.59416
Boston Harbor Improvement	MBDS	4326	3307	10/3/2018	42.43588	-70.59538
Boston Harbor Improvement	MBDS	2734	2090	10/3/2018	42.43599	-70.59534
Boston Harbor Improvement	MBDS	3511	2685	10/3/2018	42.43644	-70.59421
Boston Harbor Improvement	MBDS	3118	2384	10/3/2018	42.43646	-70.59383
Boston Harbor Improvement	MBDS	4256	3254	10/3/2018	42.43636	-70.59398
Boston Harbor Improvement	MBDS	3967	3033	10/3/2018	42.43640	-70.59410
Boston Harbor Improvement	MBDS	4001	3059	10/3/2018	42.43633	-70.59322
Boston Harbor Improvement	MBDS	3656	2796	10/4/2018	42.43654	-70.59315
Boston Harbor Improvement	MBDS	2870	2194	10/4/2018	42.43668	-70.59283
Boston Harbor Improvement	MBDS	3022	2310	10/4/2018	42.43656	-70.59343
Boston Harbor Improvement	MBDS	1820	1392	10/4/2018	42.43665	-70.59241
Boston Harbor Improvement	MBDS	3721	2845	10/4/2018	42.43710	-70.59280
Boston Harbor Improvement	MBDS	4173	3191	10/4/2018	42.43697	-70.59238
Boston Harbor Improvement	MBDS	3746	2864	10/4/2018	42.43768	-70.59185
Boston Harbor Improvement	MBDS	3034	2320	10/4/2018	42.43714	-70.59209
Boston Harbor Improvement	MBDS	3153	2411	10/4/2018	42.43718	-70.59077
Boston Harbor Improvement	MBDS	3836	2933	10/5/2018	42.43730	-70.59090
Boston Harbor Improvement	MBDS	4488	3431	10/5/2018	42.43791	-70.58941
Boston Harbor Improvement	MBDS	4253	3251	10/5/2018	42.43742	-70.59025
Boston Harbor Improvement	MBDS	2885	2206	10/5/2018	42.43753	-70.59063
Boston Harbor Improvement	MBDS	3750	2867	10/5/2018	42.43753	-70.58975
Boston Harbor Improvement	MBDS	2377	1817	10/5/2018	42.43787	-70.58926
Boston Harbor Improvement	MBDS	3507	2681	10/5/2018	42.43773	-70.59028
Boston Harbor Improvement	MBDS	4300	3288	10/5/2018	42.43790	-70.58906
Boston Harbor Improvement	MBDS	3870	2959	10/5/2018	42.43770	-70.58950
Boston Harbor Improvement	MBDS	4007	3063	10/5/2018	42.43808	-70.58879
Boston Harbor Improvement	MBDS	2532	1936	10/6/2018	42.43845	-70.58749
Boston Harbor Improvement	MBDS	2828	2162	10/6/2018	42.43806	-70.58831
Boston Harbor Improvement	MBDS	3660	2798	10/6/2018	42.43858	-70.58844
Boston Harbor Improvement	MBDS	3230	2469	10/6/2018	42.43821	-70.58853
Boston Harbor Improvement	MBDS	4292	3282	10/6/2018	42.43842	-70.58674
Boston Harbor Improvement	MBDS	4007	3064	10/6/2018	42.43840	-70.58710
Boston Harbor Improvement	MBDS	4430	3387	10/6/2018	42.43838	-70.58764
Boston Harbor Improvement	MBDS	2490	1904	10/6/2018	42.43857	-70.58744
Boston Harbor Improvement	MBDS	2920	2232	10/7/2018	42.43878	-70.58604
Boston Harbor Improvement	MBDS	3718	2843	10/7/2018	42.43845	-70.58743
Boston Harbor Improvement	MBDS	4357	3331	10/7/2018	42.43859	-70.58644
Boston Harbor Improvement	MBDS	3156	2413	10/7/2018	42.43851	-70.58665
Boston Harbor Improvement	MBDS	3736	2857	10/7/2018	42.43870	-70.58670
Boston Harbor Improvement	MBDS	2775	2121	10/7/2018	42.43856	-70.58611
Boston Harbor Improvement	MBDS	4384	3352	10/7/2018	42.43894	-70.58514
Boston Harbor Improvement	MBDS	2502	1913	10/7/2018	42.43858	-70.58603
Boston Harbor Improvement	MBDS	3663	2800	10/7/2018	42.43916	-70.58476
Boston Harbor Improvement	MBDS	4081	3121	10/7/2018	42.43930	-70.58446
Boston Harbor Improvement	MBDS	3261	2493	10/7/2018	42.43922	-70.58485
Boston Harbor Improvement	MBDS	3841	2937	10/8/2018	42.43930	-70.58390
Boston Harbor Improvement	MBDS	4258	3256	10/8/2018	42.43923	-70.58421
Boston Harbor Improvement	MBDS	2483	1899	10/8/2018	42.43964	-70.58273
Boston Harbor Improvement	MBDS	2639	2017	10/8/2018	42.43897	-70.58462
Boston Harbor Improvement	MBDS	3567	2727	10/8/2018	42.43960	-70.58392
Boston Harbor Improvement	MBDS	3123	2388	10/8/2018	42.43946	-70.58344
Boston Harbor Improvement	MBDS	4230	3234	10/8/2018	42.43993	-70.58209
Boston Harbor Improvement	MBDS	4309	3295	10/8/2018	42.43957	-70.58316
Boston Harbor Improvement	MBDS	3904	2985	10/8/2018	42.43960	-70.58250
Boston Harbor Improvement	MBDS	2358	1803	10/9/2018	42.43978	-70.58161
Boston Harbor Improvement	MBDS	3556	2719	10/9/2018	42.44000	-70.58178
Boston Harbor Improvement	MBDS	2705	2068	10/9/2018	42.44003	-70.58136
Boston Harbor Improvement	MBDS	3270	2500	10/9/2018	42.44012	-70.58119
Boston Harbor Improvement	MBDS	1668	1275	10/9/2018	42.43990	-70.58150
Boston Harbor Improvement	MBDS	4362	3335	10/9/2018	42.43982	-70.58178
Boston Harbor Improvement	MBDS	4432	3389	10/9/2018	42.44057	-70.58006
Boston Harbor Improvement	MBDS	4022	3075	10/9/2018	42.44039	-70.58017
Boston Harbor Improvement	MBDS	2724	2082	10/9/2018	42.44027	-70.58048
Boston Harbor Improvement	MBDS	3413	2609	10/9/2018	42.44032	-70.58061
Boston Harbor Improvement	MBDS	4593	3511	10/10/2018	42.44071	-70.57986
Boston Harbor Improvement	MBDS	3864	2954	10/10/2018	42.44064	-70.57970
Boston Harbor Improvement	MBDS	2373	1814	10/10/2018	42.43999	-70.58255
Boston Harbor Improvement	MBDS	3506	2680	10/10/2018	42.44038	-70.58027

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3795	2902	10/10/2018	42.44042	-70.57963
Boston Harbor Improvement	MBDS	3596	2749	10/10/2018	42.44090	-70.57850
Boston Harbor Improvement	MBDS	3626	2773	10/10/2018	42.44069	-70.57898
Boston Harbor Improvement	MBDS	4417	3377	10/10/2018	42.44099	-70.57837
Boston Harbor Improvement	MBDS	3916	2994	10/11/2018	42.44065	-70.57888
Boston Harbor Improvement	MBDS	4092	3128	10/11/2018	42.44067	-70.57922
Boston Harbor Improvement	MBDS	3762	2876	10/11/2018	42.43443	-70.60187
Boston Harbor Improvement	MBDS	3727	2850	10/11/2018	42.43438	-70.60223
Boston Harbor Improvement	MBDS	2570	1965	10/11/2018	42.43400	-70.58049
Boston Harbor Improvement	MBDS	4481	3426	10/11/2018	42.43434	-70.60222
Boston Harbor Improvement	MBDS	4265	3261	10/11/2018	42.43428	-70.60192
Boston Harbor Improvement	MBDS	3687	2819	10/12/2018	42.43427	-70.60305
Boston Harbor Improvement	MBDS	3492	2670	10/12/2018	42.43473	-70.60134
Boston Harbor Improvement	MBDS	4210	3219	10/12/2018	42.43459	-70.60125
Boston Harbor Improvement	MBDS	4368	3340	10/12/2018	42.43383	-70.58012
Boston Harbor Improvement	MBDS	4490	3433	10/12/2018	42.43459	-70.60110
Boston Harbor Improvement	MBDS	2466	1886	10/12/2018	42.43511	-70.59957
Boston Harbor Improvement	MBDS	3659	2797	10/12/2018	42.43468	-70.60089
Boston Harbor Improvement	MBDS	4208	3218	10/12/2018	42.43518	-70.60037
Boston Harbor Improvement	MBDS	4204	3214	10/13/2018	42.43489	-70.60036
Boston Harbor Improvement	MBDS	3638	2781	10/13/2018	42.43500	-70.59996
Boston Harbor Improvement	MBDS	3888	2973	10/13/2018	42.43504	-70.59964
Boston Harbor Improvement	MBDS	4109	3142	10/13/2018	42.43490	-70.60032
Boston Harbor Improvement	MBDS	4600	3517	10/13/2018	42.43593	-70.59709
Boston Harbor Improvement	MBDS	3895	2978	10/13/2018	42.43537	-70.59870
Boston Harbor Improvement	MBDS	3623	2770	10/13/2018	42.43518	-70.59869
Boston Harbor Improvement	MBDS	3873	2961	10/14/2018	42.43529	-70.59886
Boston Harbor Improvement	MBDS	2194	1677	10/14/2018	42.43600	-70.59743
Boston Harbor Improvement	MBDS	4513	3450	10/14/2018	42.43562	-70.59794
Boston Harbor Improvement	MBDS	3535	2703	10/14/2018	42.43549	-70.59714
Boston Harbor Improvement	MBDS	4149	3172	10/14/2018	42.43509	-70.59760
Boston Harbor Improvement	MBDS	4524	3459	10/14/2018	42.43576	-70.59728
Boston Harbor Improvement	MBDS	3767	2880	10/14/2018	42.43565	-70.59769
Boston Harbor Improvement	MBDS	2513	1921	10/14/2018	42.43610	-70.59620
Boston Harbor Improvement	MBDS	4349	3325	10/14/2018	42.43573	-70.59699
Boston Harbor Improvement	MBDS	2589	1980	10/14/2018	42.43647	-70.59493
Boston Harbor Improvement	MBDS	3943	3015	10/14/2018	42.43570	-70.59717
Boston Harbor Improvement	MBDS	3822	2922	10/15/2018	42.43627	-70.59569
Boston Harbor Improvement	MBDS	3654	2794	10/15/2018	42.43603	-70.59634
Boston Harbor Improvement	MBDS	4702	3595	10/15/2018	42.43632	-70.59570
Boston Harbor Improvement	MBDS	4429	3386	10/15/2018	42.43624	-70.59587
Boston Harbor Improvement	MBDS	2416	1847	10/15/2018	42.43640	-70.59500
Boston Harbor Improvement	MBDS	4453	3405	10/15/2018	42.43635	-70.59602
Boston Harbor Improvement	MBDS	3636	2780	10/15/2018	42.43662	-70.59390
Boston Harbor Improvement	MBDS	2154	1647	10/15/2018	42.43704	-70.59313
Boston Harbor Improvement	MBDS	3587	2742	10/15/2018	42.43700	-70.59383
Boston Harbor Improvement	MBDS	4209	3218	10/15/2018	42.43667	-70.59405
Boston Harbor Improvement	MBDS	1367	1045	10/16/2018	42.43720	-70.59460
Boston Harbor Improvement	MBDS	4360	3334	10/16/2018	42.43696	-70.59261
Boston Harbor Improvement	MBDS	3751	2868	10/16/2018	42.43708	-70.59288
Boston Harbor Improvement	MBDS	3567	2727	10/16/2018	42.43702	-70.59332
Boston Harbor Improvement	MBDS	4228	3232	10/16/2018	42.43690	-70.59351
Boston Harbor Improvement	MBDS	4286	3277	10/16/2018	42.43610	-70.59637
Boston Harbor Improvement	MBDS	4342	3320	10/16/2018	42.43736	-70.59182
Boston Harbor Improvement	MBDS	3704	2832	10/17/2018	42.43732	-70.59182
Boston Harbor Improvement	MBDS	4291	3281	10/17/2018	42.43716	-70.59213
Boston Harbor Improvement	MBDS	3678	2812	10/17/2018	42.43747	-70.59186
Boston Harbor Improvement	MBDS	2502	1913	10/17/2018	42.43760	-70.59176
Boston Harbor Improvement	MBDS	3732	2853	10/17/2018	42.43781	-70.59120
Boston Harbor Improvement	MBDS	4106	3139	10/17/2018	42.43775	-70.59120
Boston Harbor Improvement	MBDS	4201	3212	10/17/2018	42.43762	-70.59067
Boston Harbor Improvement	MBDS	3585	2741	10/18/2018	42.43706	-70.59009
Boston Harbor Improvement	MBDS	4108	3141	10/18/2018	42.43993	-70.58370
Boston Harbor Improvement	MBDS	3808	2911	10/18/2018	42.43784	-70.59059
Boston Harbor Improvement	MBDS	4654	3558	10/18/2018	42.43797	-70.58981
Boston Harbor Improvement	MBDS	3871	2960	10/18/2018	42.43808	-70.58943
Boston Harbor Improvement	MBDS	920	704	10/18/2018	42.43796	-70.58550
Boston Harbor Improvement	MBDS	3767	2880	10/18/2018	42.43804	-70.58982
Boston Harbor Improvement	MBDS	3636	2780	10/19/2018	42.43825	-70.58815
Boston Harbor Improvement	MBDS	4240	3242	10/19/2018	42.43862	-70.58802
Boston Harbor Improvement	MBDS	3837	2933	10/19/2018	42.43836	-70.58879
Boston Harbor Improvement	MBDS	4821	3686	10/19/2018	42.43844	-70.58852
Boston Harbor Improvement	MBDS	4362	3335	10/19/2018	42.43832	-70.58893
Boston Harbor Improvement	MBDS	4399	3364	10/19/2018	42.43883	-70.58730
Boston Harbor Improvement	MBDS	3472	2654	10/19/2018	42.43857	-70.58795
Boston Harbor Improvement	MBDS	1002	766	10/19/2018	42.43416	-70.58081
Boston Harbor Improvement	MBDS	3719	2843	10/19/2018	42.43885	-70.58742
Boston Harbor Improvement	MBDS	4122	3152	10/20/2018	42.43862	-70.58792
Boston Harbor Improvement	MBDS	4345	3322	10/20/2018	42.43882	-70.58752
Boston Harbor Improvement	MBDS	3694	2824	10/20/2018	42.43878	-70.58652
Boston Harbor Improvement	MBDS	4164	3184	10/20/2018	42.43904	-70.58696
Boston Harbor Improvement	MBDS	4493	3435	10/20/2018	42.43920	-70.58577
Boston Harbor Improvement	MBDS	4274	3267	10/20/2018	42.43909	-70.58619

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3606	2757	10/21/2018	42.43928	-70.58614
Boston Harbor Improvement	MBDS	3781	2891	10/21/2018	42.43961	-70.58520
Boston Harbor Improvement	MBDS	4348	3324	10/21/2018	42.43802	-70.58969
Boston Harbor Improvement	MBDS	469	358	10/21/2018	42.43963	-70.58481
Boston Harbor Improvement	MBDS	4322	3304	10/21/2018	42.43956	-70.58501
Boston Harbor Improvement	MBDS	3403	2602	10/21/2018	42.42883	-70.59767
Boston Harbor Improvement	MBDS	4314	3298	10/22/2018	42.43948	-70.58415
Boston Harbor Improvement	MBDS	4197	3209	10/22/2018	42.43971	-70.58406
Boston Harbor Improvement	MBDS	4347	3324	10/22/2018	42.43973	-70.58442
Boston Harbor Improvement	MBDS	4425	3383	10/22/2018	42.43976	-70.58400
Boston Harbor Improvement	MBDS	3584	2740	10/22/2018	42.43983	-70.58396
Boston Harbor Improvement	MBDS	2585	1976	10/22/2018	42.44001	-70.58324
Boston Harbor Improvement	MBDS	4466	3414	10/22/2018	42.44011	-70.58382
Boston Harbor Improvement	MBDS	956	731	10/22/2018	42.44049	-70.58244
Boston Harbor Improvement	MBDS	4310	3295	10/22/2018	42.44023	-70.58243
Boston Harbor Improvement	MBDS	3584	2740	10/23/2018	42.43979	-70.58330
Boston Harbor Improvement	MBDS	4444	3397	10/23/2018	42.44056	-70.58196
Boston Harbor Improvement	MBDS	4268	3263	10/23/2018	42.44039	-70.58144
Boston Harbor Improvement	MBDS	3783	2892	10/23/2018	42.44044	-70.58160
Boston Harbor Improvement	MBDS	3164	2419	10/23/2018	42.43986	-70.58541
Boston Harbor Improvement	MBDS	4496	3437	10/24/2018	42.44062	-70.58172
Boston Harbor Improvement	MBDS	4024	3076	10/24/2018	42.44046	-70.58202
Boston Harbor Improvement	MBDS	4182	3197	10/24/2018	42.44068	-70.58092
Boston Harbor Improvement	MBDS	3746	2864	10/24/2018	42.44078	-70.58100
Boston Harbor Improvement	MBDS	2570	1965	10/24/2018	42.44085	-70.58047
Boston Harbor Improvement	MBDS	382	292	10/24/2018	42.44120	-70.57970
Boston Harbor Improvement	MBDS	4065	3108	10/24/2018	42.44050	-70.58090
Boston Harbor Improvement	MBDS	4284	3275	10/24/2018	42.44100	-70.57960
Boston Harbor Improvement	MBDS	3814	2916	10/25/2018	42.44120	-70.57960
Boston Harbor Improvement	MBDS	4398	3363	10/25/2018	42.44100	-70.57954
Boston Harbor Improvement	MBDS	2498	1909	10/25/2018	42.44110	-70.58000
Boston Harbor Improvement	MBDS	4402	3365	10/25/2018	42.44140	-70.57870
Boston Harbor Improvement	MBDS	3703	2831	10/25/2018	42.44120	-70.57970
Boston Harbor Improvement	MBDS	2514	1922	10/25/2018	42.44140	-70.57910
Boston Harbor Improvement	MBDS	3715	2840	10/25/2018	42.44120	-70.57760
Boston Harbor Improvement	MBDS	4173	3191	10/26/2018	42.44130	-70.57850
Boston Harbor Improvement	MBDS	2578	1971	10/26/2018	42.44130	-70.57810
Boston Harbor Improvement	MBDS	4573	3496	10/26/2018	42.43460	-70.60280
Boston Harbor Improvement	MBDS	3776	2887	10/26/2018	42.43480	-70.60250
Boston Harbor Improvement	MBDS	4341	3319	10/26/2018	42.43500	-70.60190
Boston Harbor Improvement	MBDS	3670	2806	10/26/2018	42.43460	-70.60230
Boston Harbor Improvement	MBDS	4045	3093	10/26/2018	42.43489	-70.60240
Boston Harbor Improvement	MBDS	4265	3261	10/26/2018	42.43520	-70.60140
Boston Harbor Improvement	MBDS	2082	1591	10/26/2018	42.43530	-70.60100
Boston Harbor Improvement	MBDS	2556	1954	10/27/2018	42.43570	-70.60000
Boston Harbor Improvement	MBDS	3942	3014	10/27/2018	42.43560	-70.60090
Boston Harbor Improvement	MBDS	348	266	10/27/2018	42.43540	-70.60080
Boston Harbor Improvement	MBDS	3818	2919	10/29/2018	42.43570	-70.59960
Boston Harbor Improvement	MBDS	3998	3056	10/29/2018	42.43550	-70.60040
Boston Harbor Improvement	MBDS	4144	3168	10/29/2018	42.43520	-70.60030
Boston Harbor Improvement	MBDS	3849	2943	10/29/2018	42.43550	-70.60000
Boston Harbor Improvement	MBDS	3761	2875	10/30/2018	42.43610	-70.59890
Boston Harbor Improvement	MBDS	4273	3267	10/30/2018	42.43590	-70.59930
Boston Harbor Improvement	MBDS	4600	3517	10/30/2018	42.43570	-70.59930
Boston Harbor Improvement	MBDS	2595	1984	10/30/2018	42.43600	-70.59860
Boston Harbor Improvement	MBDS	3579	2736	10/30/2018	42.43590	-70.59840
Boston Harbor Improvement	MBDS	959	734	10/30/2018	42.43228	-70.57952
Boston Harbor Improvement	MBDS	3658	2797	10/30/2018	42.43610	-70.59780
Boston Harbor Improvement	MBDS	4267	3262	10/30/2018	42.43560	-70.59330
Boston Harbor Improvement	MBDS	2552	1951	10/31/2018	42.43640	-70.59070
Boston Harbor Improvement	MBDS	4364	3336	10/31/2018	42.43940	-70.58030
Boston Harbor Improvement	MBDS	2638	2017	10/31/2018	42.43630	-70.59060
Boston Harbor Improvement	MBDS	3808	2911	10/31/2018	42.43870	-70.58470
Boston Harbor Improvement	MBDS	4367	3339	10/31/2018	42.43285	-70.59512
Boston Harbor Improvement	MBDS	4599	3516	10/31/2018	42.43474	-70.58827
Boston Harbor Improvement	MBDS	4124	3153	10/31/2018	42.43708	-70.58532
Boston Harbor Improvement	MBDS	2490	1904	11/1/2018	42.43689	-70.58728
Boston Harbor Improvement	MBDS	3656	2795	11/1/2018	42.43864	-70.58527
Boston Harbor Improvement	MBDS	4377	3346	11/1/2018	42.43679	-70.58735
Boston Harbor Improvement	MBDS	3781	2890	11/1/2018	42.43915	-70.58286
Boston Harbor Improvement	MBDS	4270	3264	11/1/2018	42.43964	-70.58178
Boston Harbor Improvement	MBDS	3624	2771	11/1/2018	42.43974	-70.57974
Boston Harbor Improvement	MBDS	2440	1865	11/1/2018	42.43569	-70.59599
Boston Harbor Improvement	MBDS	3789	2897	11/2/2018	42.43701	-70.59175
Boston Harbor Improvement	MBDS	1920	1468	11/2/2018	42.44049	-70.58042
Boston Harbor Improvement	MBDS	4257	3255	11/2/2018	42.43887	-70.58589
Boston Harbor Improvement	MBDS	1999	1528	11/2/2018	42.43612	-70.59829
Boston Harbor Improvement	MBDS	3750	2867	11/2/2018	42.43612	-70.59778
Boston Harbor Improvement	MBDS	3724	2847	11/2/2018	42.43627	-70.59751
Boston Harbor Improvement	MBDS	4163	3183	11/2/2018	42.43624	-70.59769
Boston Harbor Improvement	MBDS	2427	1856	11/3/2018	42.43665	-70.59595
Boston Harbor Improvement	MBDS	1655	1265	11/3/2018	42.43626	-70.59728
Boston Harbor Improvement	MBDS	4100	3135	11/3/2018	42.43674	-70.59678

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3492	2670	11/3/2018	42.43665	-70.59533
Boston Harbor Improvement	MBDS	4138	3164	11/3/2018	42.43692	-70.59551
Boston Harbor Improvement	MBDS	2692	2058	11/3/2018	42.43668	-70.59558
Boston Harbor Improvement	MBDS	2519	1926	11/3/2018	42.43653	-70.59444
Boston Harbor Improvement	MBDS	3280	2508	11/4/2018	42.44187	-70.58015
Boston Harbor Improvement	MBDS	4169	3187	11/4/2018	42.43674	-70.59555
Boston Harbor Improvement	MBDS	2469	1888	11/4/2018	42.43748	-70.59390
Boston Harbor Improvement	MBDS	4070	3112	11/4/2018	42.43726	-70.59448
Boston Harbor Improvement	MBDS	3623	2770	11/4/2018	42.43734	-70.59423
Boston Harbor Improvement	MBDS	4168	3187	11/4/2018	42.43718	-70.59450
Boston Harbor Improvement	MBDS	2455	1877	11/4/2018	42.43710	-70.59441
Boston Harbor Improvement	MBDS	1736	1327	11/5/2018	42.43757	-70.59293
Boston Harbor Improvement	MBDS	4379	3348	11/5/2018	42.43727	-70.59391
Boston Harbor Improvement	MBDS	3648	2789	11/5/2018	42.43774	-70.59304
Boston Harbor Improvement	MBDS	4401	3364	11/5/2018	42.43718	-70.59393
Boston Harbor Improvement	MBDS	2378	1818	11/5/2018	42.43772	-70.59294
Boston Harbor Improvement	MBDS	3393	2594	11/5/2018	42.43769	-70.59282
Boston Harbor Improvement	MBDS	2566	1962	11/5/2018	42.43801	-70.59221
Boston Harbor Improvement	MBDS	4124	3153	11/6/2018	42.43768	-70.59303
Boston Harbor Improvement	MBDS	4293	3282	11/6/2018	42.43776	-70.59270
Boston Harbor Improvement	MBDS	3637	2781	11/6/2018	42.43781	-70.59217
Boston Harbor Improvement	MBDS	1607	1228	11/6/2018	42.43810	-70.59163
Boston Harbor Improvement	MBDS	3462	2647	11/6/2018	42.43806	-70.59145
Boston Harbor Improvement	MBDS	3900	2982	11/6/2018	42.43838	-70.59166
Boston Harbor Improvement	MBDS	2479	1895	11/6/2018	42.43836	-70.59123
Boston Harbor Improvement	MBDS	2394	1830	11/6/2018	42.43875	-70.59005
Boston Harbor Improvement	MBDS	4187	3201	11/7/2018	42.43836	-70.58974
Boston Harbor Improvement	MBDS	3445	2634	11/7/2018	42.43884	-70.59001
Boston Harbor Improvement	MBDS	4177	3193	11/7/2018	42.43825	-70.59007
Boston Harbor Improvement	MBDS	3560	2722	11/7/2018	42.43847	-70.58982
Boston Harbor Improvement	MBDS	4523	3458	11/7/2018	42.43816	-70.59029
Boston Harbor Improvement	MBDS	4342	3319	11/7/2018	42.44086	-70.58385
Boston Harbor Improvement	MBDS	2674	2044	11/7/2018	42.43881	-70.58854
Boston Harbor Improvement	MBDS	3569	2729	11/7/2018	42.43888	-70.58832
Boston Harbor Improvement	MBDS	2495	1908	11/8/2018	42.43916	-70.58805
Boston Harbor Improvement	MBDS	4091	3128	11/8/2018	42.43830	-70.58904
Boston Harbor Improvement	MBDS	4228	3233	11/8/2018	42.43842	-70.58778
Boston Harbor Improvement	MBDS	3577	2735	11/8/2018	42.43914	-70.58768
Boston Harbor Improvement	MBDS	3593	2747	11/8/2018	42.43915	-70.58811
Boston Harbor Improvement	MBDS	4302	3289	11/8/2018	42.43909	-70.58799
Boston Harbor Improvement	MBDS	2723	2082	11/8/2018	42.43921	-70.58765
Boston Harbor Improvement	MBDS	4528	3462	11/9/2018	42.43934	-70.58646
Boston Harbor Improvement	MBDS	4521	3457	11/9/2018	42.43928	-70.58654
Boston Harbor Improvement	MBDS	3880	2966	11/9/2018	42.43962	-70.58614
Boston Harbor Improvement	MBDS	2416	1847	11/9/2018	42.43961	-70.58638
Boston Harbor Improvement	MBDS	4214	3222	11/9/2018	42.43847	-70.58187
Boston Harbor Improvement	MBDS	4145	3169	11/9/2018	42.43967	-70.58589
Boston Harbor Improvement	MBDS	4595	3513	11/10/2018	42.43998	-70.58542
Boston Harbor Improvement	MBDS	1773	1355	11/10/2018	42.43174	-70.60060
Boston Harbor Improvement	MBDS	2266	1733	11/10/2018	42.43997	-70.58509
Boston Harbor Improvement	MBDS	4371	3342	11/10/2018	42.43982	-70.58541
Boston Harbor Improvement	MBDS	3647	2788	11/11/2018	42.44052	-70.58370
Boston Harbor Improvement	MBDS	3910	2989	11/11/2018	42.44015	-70.58401
Boston Harbor Improvement	MBDS	2148	1643	11/11/2018	42.44018	-70.58385
Boston Harbor Improvement	MBDS	4722	3610	11/11/2018	42.44000	-70.58378
Boston Harbor Improvement	MBDS	2394	1831	11/11/2018	42.44029	-70.58366
Boston Harbor Improvement	MBDS	3812	2914	11/11/2018	42.44043	-70.57977
Boston Harbor Improvement	MBDS	2379	1819	11/11/2018	42.44047	-70.58275
Boston Harbor Improvement	MBDS	2331	1782	11/11/2018	42.44057	-70.58236
Boston Harbor Improvement	MBDS	3911	2990	11/11/2018	42.44051	-70.58307
Boston Harbor Improvement	MBDS	3888	2972	11/11/2018	42.44054	-70.58326
Boston Harbor Improvement	MBDS	4285	3276	11/12/2018	42.44170	-70.57889
Boston Harbor Improvement	MBDS	2566	1962	11/12/2018	42.44088	-70.58193
Boston Harbor Improvement	MBDS	4408	3370	11/12/2018	42.44036	-70.58287
Boston Harbor Improvement	MBDS	2145	1640	11/12/2018	42.44074	-70.58163
Boston Harbor Improvement	MBDS	3547	2712	11/12/2018	42.44101	-70.58202
Boston Harbor Improvement	MBDS	2347	1794	11/12/2018	42.44116	-70.58103
Boston Harbor Improvement	MBDS	3860	2951	11/12/2018	42.44103	-70.58094
Boston Harbor Improvement	MBDS	4308	3294	11/12/2018	42.44168	-70.57765
Boston Harbor Improvement	MBDS	4450	3402	11/12/2018	42.43965	-70.58550
Boston Harbor Improvement	MBDS	2800	2141	11/13/2018	42.44114	-70.58053
Boston Harbor Improvement	MBDS	3702	2830	11/13/2018	42.44128	-70.58091
Boston Harbor Improvement	MBDS	3670	2806	11/13/2018	42.44130	-70.57990
Boston Harbor Improvement	MBDS	3870	2959	11/13/2018	42.43617	-70.59132
Boston Harbor Improvement	MBDS	2308	1765	11/13/2018	42.44105	-70.57886
Boston Harbor Improvement	MBDS	3771	2883	11/13/2018	42.44149	-70.57980
Boston Harbor Improvement	MBDS	3454	2641	11/13/2018	42.44097	-70.58009
Boston Harbor Improvement	MBDS	4500	3440	11/14/2018	42.44181	-70.57857
Boston Harbor Improvement	MBDS	2662	2035	11/14/2018	42.44172	-70.57828
Boston Harbor Improvement	MBDS	4136	3162	11/14/2018	42.44205	-70.57849
Boston Harbor Improvement	MBDS	2527	1932	11/14/2018	42.44148	-70.57859
Boston Harbor Improvement	MBDS	4296	3284	11/14/2018	42.43526	-70.60214
Boston Harbor Improvement	MBDS	3654	2793	11/14/2018	42.43529	-70.60201

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3755	2871	11/14/2018	42.43490	-70.60206
Boston Harbor Improvement	MBDS	1265	967	11/14/2018	42.43500	-70.60323
Boston Harbor Improvement	MBDS	4313	3298	11/15/2018	42.43561	-70.60157
Boston Harbor Improvement	MBDS	4599	3516	11/15/2018	42.43523	-70.60261
Boston Harbor Improvement	MBDS	2683	2051	11/15/2018	42.43579	-70.60077
Boston Harbor Improvement	MBDS	2553	1952	11/15/2018	42.43572	-70.60126
Boston Harbor Improvement	MBDS	3724	2847	11/15/2018	42.43547	-70.60151
Boston Harbor Improvement	MBDS	3806	2910	11/15/2018	42.43569	-70.60070
Boston Harbor Improvement	MBDS	4405	3368	11/15/2018	42.43597	-70.59976
Boston Harbor Improvement	MBDS	4359	3333	11/15/2018	42.43607	-70.59981
Boston Harbor Improvement	MBDS	4316	3300	11/15/2018	42.43581	-70.60022
Boston Harbor Improvement	MBDS	2590	1980	11/15/2018	42.43610	-70.59947
Boston Harbor Improvement	MBDS	1423	1088	11/15/2018	42.43648	-70.59908
Boston Harbor Improvement	MBDS	3815	2916	11/16/2018	42.43624	-70.59921
Boston Harbor Improvement	MBDS	2956	2260	11/16/2018	42.43618	-70.59919
Boston Harbor Improvement	MBDS	2544	1945	11/17/2018	42.43652	-70.59816
Boston Harbor Improvement	MBDS	2605	1992	11/17/2018	42.43628	-70.59871
Boston Harbor Improvement	MBDS	4072	3113	11/18/2018	42.43418	-70.59649
Boston Harbor Improvement	MBDS	4690	3586	11/18/2018	42.43658	-70.59784
Boston Harbor Improvement	MBDS	4405	3368	11/18/2018	42.43624	-70.59809
Boston Harbor Improvement	MBDS	2505	1915	11/18/2018	42.43676	-70.59741
Boston Harbor Improvement	MBDS	3607	2757	11/18/2018	42.43655	-70.59767
Boston Harbor Improvement	MBDS	3843	2938	11/18/2018	42.43705	-70.59636
Boston Harbor Improvement	MBDS	4393	3359	11/18/2018	42.43687	-70.59658
Boston Harbor Improvement	MBDS	4600	3517	11/18/2018	42.43789	-70.59451
Boston Harbor Improvement	MBDS	4492	3435	11/19/2018	42.43723	-70.59636
Boston Harbor Improvement	MBDS	2591	1981	11/19/2018	42.43714	-70.59652
Boston Harbor Improvement	MBDS	2440	1865	11/19/2018	42.43731	-70.59513
Boston Harbor Improvement	MBDS	4147	3171	11/19/2018	42.43737	-70.59543
Boston Harbor Improvement	MBDS	4598	3516	11/19/2018	42.43765	-70.59454
Boston Harbor Improvement	MBDS	3625	2771	11/19/2018	42.43748	-70.59504
Boston Harbor Improvement	MBDS	3537	2704	11/19/2018	42.43741	-70.59552
Boston Harbor Improvement	MBDS	4453	3405	11/19/2018	42.43796	-70.59377
Boston Harbor Improvement	MBDS	2563	1959	11/19/2018	42.43762	-70.59420
Boston Harbor Improvement	MBDS	4533	3466	11/19/2018	42.43764	-70.59438
Boston Harbor Improvement	MBDS	4728	3615	11/20/2018	42.43786	-70.59323
Boston Harbor Improvement	MBDS	3760	2875	11/20/2018	42.43765	-70.59372
Boston Harbor Improvement	MBDS	2324	1777	11/20/2018	42.43789	-70.59315
Boston Harbor Improvement	MBDS	2607	1993	11/20/2018	42.43773	-70.59433
Boston Harbor Improvement	MBDS	4142	3167	11/20/2018	42.43798	-70.59298
Boston Harbor Improvement	MBDS	4271	3266	11/20/2018	42.43825	-70.59262
Boston Harbor Improvement	MBDS	3592	2747	11/20/2018	42.43791	-70.59350
Boston Harbor Improvement	MBDS	3535	2703	11/20/2018	42.43817	-70.59221
Boston Harbor Improvement	MBDS	4713	3603	11/20/2018	42.43840	-70.59190
Boston Harbor Improvement	MBDS	4159	3180	11/20/2018	42.43821	-70.59191
Boston Harbor Improvement	MBDS	2618	2001	11/20/2018	42.43805	-70.59199
Boston Harbor Improvement	MBDS	4323	3305	11/21/2018	42.43812	-70.59206
Boston Harbor Improvement	MBDS	2795	2137	11/21/2018	42.43879	-70.59027
Boston Harbor Improvement	MBDS	3701	2830	11/21/2018	42.43874	-70.59027
Boston Harbor Improvement	MBDS	4241	3242	11/21/2018	42.43876	-70.59080
Boston Harbor Improvement	MBDS	4425	3383	11/21/2018	42.43861	-70.59154
Boston Harbor Improvement	MBDS	3287	2513	11/21/2018	42.43871	-70.59104
Boston Harbor Improvement	MBDS	4219	3226	11/21/2018	42.43925	-70.58934
Boston Harbor Improvement	MBDS	2564	1960	11/21/2018	42.43927	-70.58831
Boston Harbor Improvement	MBDS	2579	1971	11/21/2018	42.43941	-70.58879
Boston Harbor Improvement	MBDS	3596	2749	11/21/2018	42.43854	-70.58862
Boston Harbor Improvement	MBDS	4175	3192	11/21/2018	42.43898	-70.58939
Boston Harbor Improvement	MBDS	4346	3323	11/22/2018	42.43956	-70.58747
Boston Harbor Improvement	MBDS	4782	3656	11/22/2018	42.43946	-70.58858
Boston Harbor Improvement	MBDS	3699	2828	11/22/2018	42.43924	-70.58872
Boston Harbor Improvement	MBDS	4301	3288	11/22/2018	42.43941	-70.58891
Boston Harbor Improvement	MBDS	2541	1942	11/22/2018	42.43917	-70.58935
Boston Harbor Improvement	MBDS	2415	1846	11/22/2018	42.43946	-70.58730
Boston Harbor Improvement	MBDS	4592	3511	11/23/2018	42.43977	-70.58828
Boston Harbor Improvement	MBDS	2134	1631	11/23/2018	42.43927	-70.58738
Boston Harbor Improvement	MBDS	2457	1878	11/23/2018	42.43982	-70.58682
Boston Harbor Improvement	MBDS	2558	1956	11/23/2018	42.44007	-70.58709
Boston Harbor Improvement	MBDS	4219	3226	11/24/2018	42.44002	-70.58638
Boston Harbor Improvement	MBDS	4648	3554	11/24/2018	42.44011	-70.58596
Boston Harbor Improvement	MBDS	3228	2468	11/24/2018	42.44008	-70.58615
Boston Harbor Improvement	MBDS	3699	2828	11/24/2018	42.43996	-70.58576
Boston Harbor Improvement	MBDS	2623	2005	11/24/2018	42.43956	-70.58617
Boston Harbor Improvement	MBDS	4374	3344	11/24/2018	42.44056	-70.58530
Boston Harbor Improvement	MBDS	2637	2016	11/24/2018	42.44079	-70.58471
Boston Harbor Improvement	MBDS	4143	3168	11/24/2018	42.44022	-70.58594
Boston Harbor Improvement	MBDS	4570	3494	11/24/2018	42.44114	-70.58331
Boston Harbor Improvement	MBDS	3565	2725	11/24/2018	42.44043	-70.58537
Boston Harbor Improvement	MBDS	3570	2730	11/25/2018	42.44059	-70.58445
Boston Harbor Improvement	MBDS	4042	3091	11/25/2018	42.44079	-70.58358
Boston Harbor Improvement	MBDS	2467	1886	11/25/2018	42.44106	-70.58377
Boston Harbor Improvement	MBDS	2410	1842	11/25/2018	42.44107	-70.58314
Boston Harbor Improvement	MBDS	3919	2997	11/25/2018	42.44057	-70.58426
Boston Harbor Improvement	MBDS	3192	2440	11/25/2018	42.44089	-70.58323

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4855	3712	11/25/2018	42.44142	-70.58150
Boston Harbor Improvement	MBDS	3994	3054	11/25/2018	42.44116	-70.58285
Boston Harbor Improvement	MBDS	76	58	11/26/2018	42.44074	-70.58396
Boston Harbor Improvement	MBDS	3648	2789	11/26/2018	42.44085	-70.58289
Boston Harbor Improvement	MBDS	4134	3160	11/26/2018	42.44134	-70.58218
Boston Harbor Improvement	MBDS	3257	2490	11/26/2018	42.44130	-70.58222
Boston Harbor Improvement	MBDS	2507	1917	11/26/2018	42.44196	-70.58166
Boston Harbor Improvement	MBDS	4708	3599	11/26/2018	42.44158	-70.58083
Boston Harbor Improvement	MBDS	4421	3380	11/26/2018	42.44143	-70.58291
Boston Harbor Improvement	MBDS	3895	2978	11/26/2018	42.44165	-70.58107
Boston Harbor Improvement	MBDS	654	500	11/26/2018	42.44190	-70.58011
Boston Harbor Improvement	MBDS	3615	2764	11/26/2018	42.44156	-70.58124
Boston Harbor Improvement	MBDS	3645	2787	11/26/2018	42.44222	-70.58110
Boston Harbor Improvement	MBDS	3864	2954	11/28/2018	42.44203	-70.58083
Boston Harbor Improvement	MBDS	3369	2575	11/28/2018	42.44217	-70.57951
Boston Harbor Improvement	MBDS	4235	3238	11/28/2018	42.44246	-70.57951
Boston Harbor Improvement	MBDS	4000	3059	11/28/2018	42.44199	-70.57978
Boston Harbor Improvement	MBDS	3571	2730	11/28/2018	42.44219	-70.57785
Boston Harbor Improvement	MBDS	2475	1893	11/28/2018	42.44204	-70.57980
Boston Harbor Improvement	MBDS	4159	3180	11/28/2018	42.44260	-70.57870
Boston Harbor Improvement	MBDS	4242	3243	11/28/2018	42.44227	-70.57873
Boston Harbor Improvement	MBDS	4204	3214	11/29/2018	42.44215	-70.57882
Boston Harbor Improvement	MBDS	3798	2904	11/29/2018	42.44220	-70.57856
Boston Harbor Improvement	MBDS	4040	3089	11/29/2018	42.43540	-70.60226
Boston Harbor Improvement	MBDS	4283	3275	11/30/2018	42.43594	-70.60198
Boston Harbor Improvement	MBDS	3788	2896	11/30/2018	42.43568	-70.60255
Boston Harbor Improvement	MBDS	4122	3151	11/30/2018	42.43610	-70.60269
Boston Harbor Improvement	MBDS	4163	3183	11/30/2018	42.43563	-70.60269
Boston Harbor Improvement	MBDS	3678	2812	12/1/2018	42.43616	-70.60174
Boston Harbor Improvement	MBDS	4315	3299	12/1/2018	42.43563	-70.60335
Boston Harbor Improvement	MBDS	4480	3425	12/1/2018	42.43601	-70.60232
Boston Harbor Improvement	MBDS	3822	2922	12/1/2018	42.43585	-70.60206
Boston Harbor Improvement	MBDS	4264	3260	12/1/2018	42.43598	-70.60284
Boston Harbor Improvement	MBDS	4347	3323	12/2/2018	42.43607	-70.60187
Boston Harbor Improvement	MBDS	4648	3553	12/2/2018	42.43591	-70.60265
Boston Harbor Improvement	MBDS	3836	2933	12/2/2018	42.43623	-70.60195
Boston Harbor Improvement	MBDS	4112	3144	12/2/2018	42.43612	-70.60229
Boston Harbor Improvement	MBDS	3813	2915	12/3/2018	42.43573	-70.60265
Boston Harbor Improvement	MBDS	3227	2467	12/3/2018	42.43612	-70.60182
Boston Harbor Improvement	MBDS	4163	3183	12/3/2018	42.43585	-70.60237
Boston Harbor Improvement	MBDS	3649	2790	12/3/2018	42.43548	-70.60227
Boston Harbor Improvement	MBDS	3983	3045	12/4/2018	42.43611	-70.60043
Boston Harbor Improvement	MBDS	3894	2977	12/4/2018	42.43603	-70.60174
Boston Harbor Improvement	MBDS	4262	3259	12/5/2018	42.43624	-70.60050
Boston Harbor Improvement	MBDS	3800	2905	12/5/2018	42.43622	-70.60097
Boston Harbor Improvement	MBDS	3239	2476	12/5/2018	42.43626	-70.60074
Boston Harbor Improvement	MBDS	4014	3069	12/6/2018	42.43679	-70.59972
Boston Harbor Improvement	MBDS	4319	3302	12/6/2018	42.43632	-70.60032
Boston Harbor Improvement	MBDS	3708	2835	12/6/2018	42.43670	-70.59955
Boston Harbor Improvement	MBDS	4549	3478	12/6/2018	42.43645	-70.59995
Boston Harbor Improvement	MBDS	4299	3286	12/6/2018	42.43641	-70.59990
Boston Harbor Improvement	MBDS	3754	2870	12/7/2018	42.43678	-70.59880
Boston Harbor Improvement	MBDS	4279	3272	12/7/2018	42.43676	-70.59889
Boston Harbor Improvement	MBDS	4316	3300	12/7/2018	42.43642	-70.59909
Boston Harbor Improvement	MBDS	3675	2809	12/7/2018	42.43679	-70.59863
Boston Harbor Improvement	MBDS	4314	3299	12/8/2018	42.43673	-70.59917
Boston Harbor Improvement	MBDS	4032	3083	12/8/2018	42.43664	-70.59912
Boston Harbor Improvement	MBDS	4217	3224	12/9/2018	42.43725	-70.59736
Boston Harbor Improvement	MBDS	4222	3228	12/9/2018	42.43684	-70.59824
Boston Harbor Improvement	MBDS	3735	2856	12/9/2018	42.43755	-70.59723
Boston Harbor Improvement	MBDS	4137	3163	12/9/2018	42.43715	-70.59745
Boston Harbor Improvement	MBDS	4180	3196	12/10/2018	42.43693	-70.59886
Boston Harbor Improvement	MBDS	3947	3018	12/10/2018	42.43742	-70.59649
Boston Harbor Improvement	MBDS	4324	3306	12/10/2018	42.43720	-70.59635
Boston Harbor Improvement	MBDS	3690	2821	12/10/2018	42.43712	-70.59726
Boston Harbor Improvement	MBDS	3690	2821	12/10/2018	42.43740	-70.59630
Boston Harbor Improvement	MBDS	3937	3010	12/11/2018	42.43766	-70.59692
Boston Harbor Improvement	MBDS	4469	3417	12/11/2018	42.43751	-70.59577
Boston Harbor Improvement	MBDS	3716	2841	12/11/2018	42.43770	-70.59543
Boston Harbor Improvement	MBDS	4120	3150	12/12/2018	42.43777	-70.59561
Boston Harbor Improvement	MBDS	4201	3212	12/12/2018	42.43733	-70.59586
Boston Harbor Improvement	MBDS	3781	2891	12/12/2018	42.43762	-70.59532
Boston Harbor Improvement	MBDS	4180	3196	12/12/2018	42.43781	-70.59442
Boston Harbor Improvement	MBDS	3700	2829	12/13/2018	42.43767	-70.59547
Boston Harbor Improvement	MBDS	3751	2868	12/13/2018	42.43833	-70.59467
Boston Harbor Improvement	MBDS	4249	3249	12/13/2018	42.43800	-70.59400
Boston Harbor Improvement	MBDS	4347	3323	12/13/2018	42.43804	-70.59437
Boston Harbor Improvement	MBDS	3763	2877	12/13/2018	42.43826	-70.59307
Boston Harbor Improvement	MBDS	4299	3287	12/14/2018	42.43820	-70.59391
Boston Harbor Improvement	MBDS	4421	3380	12/14/2018	42.43811	-70.59323
Boston Harbor Improvement	MBDS	3756	2872	12/14/2018	42.43808	-70.59314
Boston Harbor Improvement	MBDS	4290	3280	12/14/2018	42.43788	-70.59392
Boston Harbor Improvement	MBDS	4050	3096	12/14/2018	42.43869	-70.59213

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3780	2890	12/14/2018	42.43870	-70.59189
Boston Harbor Improvement	MBDS	4101	3136	12/15/2018	42.43851	-70.59271
Boston Harbor Improvement	MBDS	4314	3299	12/15/2018	42.43850	-70.59243
Boston Harbor Improvement	MBDS	3789	2897	12/15/2018	42.43883	-70.59217
Boston Harbor Improvement	MBDS	4240	3242	12/15/2018	42.43898	-70.59153
Boston Harbor Improvement	MBDS	4199	3210	12/16/2018	42.43883	-70.59169
Boston Harbor Improvement	MBDS	3884	2969	12/16/2018	42.43922	-70.59079
Boston Harbor Improvement	MBDS	3936	3010	12/16/2018	42.43924	-70.59079
Boston Harbor Improvement	MBDS	4217	3224	12/16/2018	42.43958	-70.58996
Boston Harbor Improvement	MBDS	3750	2867	12/18/2018	42.43960	-70.58980
Boston Harbor Improvement	MBDS	3920	2997	12/18/2018	42.43920	-70.58980
Boston Harbor Improvement	MBDS	4291	3280	12/19/2018	42.43931	-70.59063
Boston Harbor Improvement	MBDS	4211	3220	12/19/2018	42.43928	-70.58983
Boston Harbor Improvement	MBDS	3620	2768	12/19/2018	42.43758	-70.59473
Boston Harbor Improvement	MBDS	4085	3123	12/19/2018	42.44013	-70.58919
Boston Harbor Improvement	MBDS	4226	3231	12/20/2018	42.43960	-70.58977
Boston Harbor Improvement	MBDS	3791	2898	12/20/2018	42.43987	-70.58870
Boston Harbor Improvement	MBDS	4349	3325	12/20/2018	42.43979	-70.58901
Boston Harbor Improvement	MBDS	4272	3266	12/20/2018	42.43976	-70.58926
Boston Harbor Improvement	MBDS	3750	2867	12/20/2018	42.43933	-70.58920
Boston Harbor Improvement	MBDS	4143	3168	12/20/2018	42.44009	-70.58834
Boston Harbor Improvement	MBDS	4165	3184	12/21/2018	42.43989	-70.58832
Boston Harbor Improvement	MBDS	3696	2826	12/21/2018	42.43756	-70.59392
Boston Harbor Improvement	MBDS	4007	3064	12/21/2018	42.44006	-70.58828
Boston Harbor Improvement	MBDS	3928	3003	12/21/2018	42.44051	-70.58641
Boston Harbor Improvement	MBDS	4299	3287	12/28/2018	42.44076	-70.58733
Boston Harbor Improvement	MBDS	4625	3536	12/28/2018	42.44056	-70.58719
Boston Harbor Improvement	MBDS	3772	2884	12/29/2018	42.43937	-70.59024
Boston Harbor Improvement	MBDS	4179	3195	12/29/2018	42.44051	-70.58668
Boston Harbor Improvement	MBDS	4125	3153	12/29/2018	42.44061	-70.58719
Boston Harbor Improvement	MBDS	3571	2730	12/29/2018	42.44112	-70.58566
Boston Harbor Improvement	MBDS	3941	3013	12/30/2018	42.44053	-70.58629
Boston Harbor Improvement	MBDS	4279	3272	12/30/2018	42.44107	-70.58536
Boston Harbor Improvement	MBDS	3520	2691	12/31/2018	42.44060	-70.58601
Boston Harbor Improvement	MBDS	4137	3163	12/31/2018	42.44073	-70.58587
Boston Harbor Improvement	MBDS	3727	2850	1/1/2019	42.44157	-70.58455
Boston Harbor Improvement	MBDS	4115	3146	1/1/2019	42.44116	-70.58453
Boston Harbor Improvement	MBDS	3931	3006	1/2/2019	42.44087	-70.58448
Boston Harbor Improvement	MBDS	4274	3268	1/2/2019	42.44110	-70.58455
Boston Harbor Improvement	MBDS	3846	2940	1/3/2019	42.44118	-70.58497
Boston Harbor Improvement	MBDS	3771	2883	1/4/2019	42.43422	-70.58095
Boston Harbor Improvement	MBDS	3954	3023	1/5/2019	42.44132	-70.58399
Boston Harbor Improvement	MBDS	3847	2941	1/6/2019	42.43369	-70.58112
Boston Harbor Improvement	MBDS	3917	2995	1/6/2019	42.44140	-70.58377
Boston Harbor Improvement	MBDS	4037	3086	1/6/2019	42.44153	-70.58322
Boston Harbor Improvement	MBDS	4328	3309	1/7/2019	42.44117	-70.58399
Boston Harbor Improvement	MBDS	4204	3214	1/7/2019	42.44162	-70.58206
Boston Harbor Improvement	MBDS	4297	3285	1/7/2019	42.44176	-70.58239
Boston Harbor Improvement	MBDS	4561	3487	1/8/2019	42.44191	-70.58212
Boston Harbor Improvement	MBDS	4276	3269	1/8/2019	42.44211	-70.58200
Boston Harbor Improvement	MBDS	4053	3099	1/8/2019	42.44224	-70.58085
Boston Harbor Improvement	MBDS	4053	3099	1/8/2019	42.44224	-70.58085
Boston Harbor Improvement	MBDS	2377	1818	1/9/2019	42.44215	-70.58080
Boston Harbor Improvement	MBDS	1824	1395	1/9/2019	42.44215	-70.58037
Boston Harbor Improvement	MBDS	4067	3109	1/12/2019	42.44224	-70.57968
Boston Harbor Improvement	MBDS	4584	3504	1/12/2019	42.44252	-70.57998
Boston Harbor Improvement	MBDS	3481	2662	1/12/2019	42.44261	-70.57972
Boston Harbor Improvement	MBDS	4380	3348	1/12/2019	42.44257	-70.58042
Boston Harbor Improvement	MBDS	4217	3224	1/12/2019	42.44256	-70.57956
Boston Harbor Improvement	MBDS	3882	2968	1/13/2019	42.44313	-70.57863
Boston Harbor Improvement	MBDS	4427	3385	1/13/2019	42.44271	-70.57924
Boston Harbor Improvement	MBDS	4157	3178	1/13/2019	42.44278	-70.57896
Boston Harbor Improvement	MBDS	3462	2647	1/13/2019	42.44276	-70.57852
Boston Harbor Improvement	MBDS	2686	2054	1/13/2019	42.44270	-70.57840
Boston Harbor Improvement	MBDS	4168	3187	1/13/2019	42.43622	-70.60218
Boston Harbor Improvement	MBDS	4141	3166	1/14/2019	42.43677	-70.60125
Boston Harbor Improvement	MBDS	4392	3358	1/14/2019	42.43686	-70.60021
Boston Harbor Improvement	MBDS	3455	2641	1/14/2019	42.43740	-70.59882
Boston Harbor Improvement	MBDS	4181	3197	1/14/2019	42.43831	-70.59552
Boston Harbor Improvement	MBDS	4243	3244	1/14/2019	42.43162	-70.59872
Boston Harbor Improvement	MBDS	2525	1930	1/14/2019	42.43794	-70.59696
Boston Harbor Improvement	MBDS	3600	2752	1/15/2019	42.43638	-70.60251
Boston Harbor Improvement	MBDS	4345	3322	1/15/2019	42.43631	-70.60260
Boston Harbor Improvement	MBDS	3707	2834	1/15/2019	42.43645	-70.60250
Boston Harbor Improvement	MBDS	4203	3213	1/15/2019	42.43625	-70.60263
Boston Harbor Improvement	MBDS	2523	1929	1/15/2019	42.43673	-70.60125
Boston Harbor Improvement	MBDS	4109	3142	1/16/2019	42.43665	-70.60092
Boston Harbor Improvement	MBDS	3794	2901	1/16/2019	42.43676	-70.60113
Boston Harbor Improvement	MBDS	2448	1872	1/16/2019	42.43656	-70.60063
Boston Harbor Improvement	MBDS	4373	3343	1/16/2019	42.43686	-70.60074
Boston Harbor Improvement	MBDS	4222	3228	1/17/2019	42.43682	-70.59986
Boston Harbor Improvement	MBDS	2684	2052	1/17/2019	42.43681	-70.59996
Boston Harbor Improvement	MBDS	4389	3356	1/17/2019	42.43693	-70.60008

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3432	2624	1/17/2019	42.43722	-70.59915
Boston Harbor Improvement	MBDS	3739	2859	1/17/2019	42.43736	-70.59911
Boston Harbor Improvement	MBDS	2273	1738	1/17/2019	42.44081	-70.58818
Boston Harbor Improvement	MBDS	4229	3233	1/17/2019	42.43727	-70.59870
Boston Harbor Improvement	MBDS	4403	3366	1/18/2019	42.43747	-70.59881
Boston Harbor Improvement	MBDS	3815	2917	1/18/2019	42.43768	-70.59792
Boston Harbor Improvement	MBDS	3531	2700	1/18/2019	42.43774	-70.59764
Boston Harbor Improvement	MBDS	4172	3190	1/18/2019	42.43776	-70.59690
Boston Harbor Improvement	MBDS	4302	3289	1/18/2019	42.43827	-70.59671
Boston Harbor Improvement	MBDS	2494	1907	1/18/2019	42.43828	-70.59563
Boston Harbor Improvement	MBDS	3717	2842	1/19/2019	42.43799	-70.59686
Boston Harbor Improvement	MBDS	4237	3240	1/19/2019	42.43839	-70.59569
Boston Harbor Improvement	MBDS	4395	3360	1/19/2019	42.43824	-70.59607
Boston Harbor Improvement	MBDS	3490	2668	1/19/2019	42.43824	-70.59583
Boston Harbor Improvement	MBDS	3625	2771	1/19/2019	42.43827	-70.59550
Boston Harbor Improvement	MBDS	3993	3053	1/19/2019	42.43820	-70.59633
Boston Harbor Improvement	MBDS	2415	1847	1/19/2019	42.43834	-70.59594
Boston Harbor Improvement	MBDS	4330	3311	1/20/2019	42.43825	-70.59625
Boston Harbor Improvement	MBDS	2099	1605	1/20/2019	42.43859	-70.59567
Boston Harbor Improvement	MBDS	2884	2205	1/20/2019	42.43838	-70.59570
Boston Harbor Improvement	MBDS	3355	2565	1/21/2019	42.43866	-70.59457
Boston Harbor Improvement	MBDS	3308	2529	1/21/2019	42.43844	-70.59455
Boston Harbor Improvement	MBDS	3016	2306	1/22/2019	42.43947	-70.59043
Boston Harbor Improvement	MBDS	4177	3194	1/22/2019	42.43881	-70.59467
Boston Harbor Improvement	MBDS	3892	2976	1/23/2019	42.43872	-70.59476
Boston Harbor Improvement	MBDS	3586	2742	1/23/2019	42.44223	-70.58270
Boston Harbor Improvement	MBDS	1716	1312	1/23/2019	42.43857	-70.59455
Boston Harbor Improvement	MBDS	3469	2652	1/23/2019	42.43921	-70.59308
Boston Harbor Improvement	MBDS	2025	1548	1/23/2019	42.44253	-70.58608
Boston Harbor Improvement	MBDS	3448	2637	1/24/2019	42.43946	-70.59365
Boston Harbor Improvement	MBDS	2960	2263	1/25/2019	42.43426	-70.58053
Boston Harbor Improvement	MBDS	4340	3318	1/25/2019	42.43874	-70.59396
Boston Harbor Improvement	MBDS	1971	1507	1/25/2019	42.43916	-70.59155
Boston Harbor Improvement	MBDS	4132	3159	1/25/2019	42.43929	-70.59230
Boston Harbor Improvement	MBDS	3686	2818	1/25/2019	42.43933	-70.59209
Boston Harbor Improvement	MBDS	2405	1839	1/26/2019	42.43930	-70.59220
Boston Harbor Improvement	MBDS	3521	2692	1/26/2019	42.43929	-70.59306
Boston Harbor Improvement	MBDS	4148	3172	1/26/2019	42.43946	-70.59080
Boston Harbor Improvement	MBDS	4234	3237	1/26/2019	42.43959	-70.59099
Boston Harbor Improvement	MBDS	2516	1923	1/26/2019	42.44000	-70.58990
Boston Harbor Improvement	MBDS	3545	2710	1/26/2019	42.43900	-70.59232
Boston Harbor Improvement	MBDS	4347	3324	1/27/2019	42.43971	-70.59130
Boston Harbor Improvement	MBDS	4253	3251	1/27/2019	42.43967	-70.59031
Boston Harbor Improvement	MBDS	3492	2670	1/27/2019	42.43997	-70.58990
Boston Harbor Improvement	MBDS	3518	2689	1/27/2019	42.44033	-70.58992
Boston Harbor Improvement	MBDS	2306	1763	1/28/2019	42.44000	-70.58980
Boston Harbor Improvement	MBDS	3853	2946	1/28/2019	42.43973	-70.59018
Boston Harbor Improvement	MBDS	4063	3106	1/28/2019	42.43820	-70.58995
Boston Harbor Improvement	MBDS	3453	2640	1/28/2019	42.44037	-70.58876
Boston Harbor Improvement	MBDS	3929	3004	1/28/2019	42.44040	-70.58877
Boston Harbor Improvement	MBDS	3509	2683	1/28/2019	42.44019	-70.58843
Boston Harbor Improvement	MBDS	2234	1708	1/29/2019	42.43851	-70.59292
Boston Harbor Improvement	MBDS	3815	2917	1/29/2019	42.44058	-70.58820
Boston Harbor Improvement	MBDS	4488	3431	1/29/2019	42.44054	-70.58784
Boston Harbor Improvement	MBDS	3542	2708	1/29/2019	42.44098	-70.58676
Boston Harbor Improvement	MBDS	3460	2646	1/29/2019	42.44076	-70.58782
Boston Harbor Improvement	MBDS	3905	2986	1/30/2019	42.44147	-70.58727
Boston Harbor Improvement	MBDS	2198	1681	1/30/2019	42.43910	-70.59310
Boston Harbor Improvement	MBDS	3895	2978	1/30/2019	42.44241	-70.58438
Boston Harbor Improvement	MBDS	3660	2798	1/30/2019	42.44084	-70.58647
Boston Harbor Improvement	MBDS	4087	3125	1/31/2019	42.44080	-70.58700
Boston Harbor Improvement	MBDS	3425	2618	1/31/2019	42.44129	-70.58567
Boston Harbor Improvement	MBDS	3797	2903	1/31/2019	42.44153	-70.58547
Boston Harbor Improvement	MBDS	2348	1795	1/31/2019	42.44160	-70.58470
Boston Harbor Improvement	MBDS	3603	2755	2/1/2019	42.44161	-70.58526
Boston Harbor Improvement	MBDS	4078	3118	2/1/2019	42.44020	-70.58957
Boston Harbor Improvement	MBDS	3992	3052	2/2/2019	42.44209	-70.58375
Boston Harbor Improvement	MBDS	4185	3200	2/2/2019	42.44187	-70.58435
Boston Harbor Improvement	MBDS	3498	2675	2/2/2019	42.44193	-70.58322
Boston Harbor Improvement	MBDS	2375	1816	2/2/2019	42.44201	-70.58364
Boston Harbor Improvement	MBDS	4192	3205	2/2/2019	42.44180	-70.58398
Boston Harbor Improvement	MBDS	3818	2919	2/3/2019	42.44178	-70.58343
Boston Harbor Improvement	MBDS	3593	2747	2/3/2019	42.44214	-70.58320
Boston Harbor Improvement	MBDS	3344	2557	2/3/2019	42.44192	-70.58349
Boston Harbor Improvement	MBDS	2291	1752	2/3/2019	42.44206	-70.58276
Boston Harbor Improvement	MBDS	4213	3221	2/4/2019	42.44231	-70.58277
Boston Harbor Improvement	MBDS	3341	2554	2/4/2019	42.44160	-70.58430
Boston Harbor Improvement	MBDS	3613	2763	2/4/2019	42.44222	-70.58169
Boston Harbor Improvement	MBDS	3279	2507	2/4/2019	42.44229	-70.58440
Boston Harbor Improvement	MBDS	2447	1871	2/4/2019	42.44250	-70.58263
Boston Harbor Improvement	MBDS	3548	2713	2/5/2019	42.44224	-70.58196
Boston Harbor Improvement	MBDS	2406	1840	2/5/2019	42.44253	-70.58099
Boston Harbor Improvement	MBDS	4299	3287	2/6/2019	42.44245	-70.58150

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3770	2883	2/6/2019	42.44254	-70.58112
Boston Harbor Improvement	MBDS	2340	1789	2/6/2019	42.44247	-70.58108
Boston Harbor Improvement	MBDS	3479	2660	2/6/2019	42.44253	-70.58111
Boston Harbor Improvement	MBDS	4037	3087	2/6/2019	42.44318	-70.57996
Boston Harbor Improvement	MBDS	3467	2651	2/7/2019	42.44315	-70.57994
Boston Harbor Improvement	MBDS	2652	2028	2/7/2019	42.44309	-70.57994
Boston Harbor Improvement	MBDS	3631	2776	2/7/2019	42.44297	-70.58008
Boston Harbor Improvement	MBDS	3813	2915	2/7/2019	42.44294	-70.58005
Boston Harbor Improvement	MBDS	2666	2038	2/8/2019	42.44327	-70.57904
Boston Harbor Improvement	MBDS	3287	2513	2/8/2019	42.44348	-70.57852
Boston Harbor Improvement	MBDS	3688	2820	2/8/2019	42.44320	-70.57875
Boston Harbor Improvement	MBDS	3593	2747	2/8/2019	42.44331	-70.57842
Boston Harbor Improvement	MBDS	4152	3174	2/9/2019	42.44102	-70.58539
Boston Harbor Improvement	MBDS	3440	2630	2/9/2019	42.44331	-70.57805
Boston Harbor Improvement	MBDS	4048	3095	2/9/2019	42.44338	-70.57779
Boston Harbor Improvement	MBDS	4192	3205	2/10/2019	42.43673	-70.60252
Boston Harbor Improvement	MBDS	3838	2934	2/10/2019	42.43652	-70.60242
Boston Harbor Improvement	MBDS	3579	2736	2/10/2019	42.43720	-70.60185
Boston Harbor Improvement	MBDS	4043	3091	2/11/2019	42.43698	-70.60154
Boston Harbor Improvement	MBDS	3997	3056	2/11/2019	42.43717	-70.60103
Boston Harbor Improvement	MBDS	3640	2783	2/11/2019	42.43722	-70.60131
Boston Harbor Improvement	MBDS	4077	3117	2/11/2019	42.43725	-70.60064
Boston Harbor Improvement	MBDS	4126	3154	2/12/2019	42.43734	-70.60035
Boston Harbor Improvement	MBDS	3719	2843	2/12/2019	42.43744	-70.60035
Boston Harbor Improvement	MBDS	3966	3032	2/12/2019	42.43777	-70.59874
Boston Harbor Improvement	MBDS	1539	1177	2/13/2019	42.43764	-70.59955
Boston Harbor Improvement	MBDS	4147	3171	2/13/2019	42.43774	-70.59881
Boston Harbor Improvement	MBDS	3758	2873	2/14/2019	42.43793	-70.59862
Boston Harbor Improvement	MBDS	1630	1246	2/14/2019	42.43826	-70.59787
Boston Harbor Improvement	MBDS	4187	3201	2/14/2019	42.43377	-70.58025
Boston Harbor Improvement	MBDS	3930	3005	2/15/2019	42.43865	-70.59782
Boston Harbor Improvement	MBDS	3818	2919	2/15/2019	42.43880	-70.59673
Boston Harbor Improvement	MBDS	1535	1174	2/15/2019	42.43872	-70.59652
Boston Harbor Improvement	MBDS	3799	2905	2/16/2019	42.43859	-70.59693
Boston Harbor Improvement	MBDS	1399	1069	2/16/2019	42.43879	-70.59561
Boston Harbor Improvement	MBDS	4215	3222	2/16/2019	42.43885	-70.59567
Boston Harbor Improvement	MBDS	4044	3092	2/17/2019	42.43859	-70.59594
Boston Harbor Improvement	MBDS	1676	1281	2/17/2019	42.43953	-70.59472
Boston Harbor Improvement	MBDS	4097	3132	2/17/2019	42.43910	-70.59445
Boston Harbor Improvement	MBDS	4067	3110	2/18/2019	42.43918	-70.59433
Boston Harbor Improvement	MBDS	4232	3235	2/18/2019	42.43963	-70.59400
Boston Harbor Improvement	MBDS	4133	3160	2/18/2019	42.43898	-70.59480
Boston Harbor Improvement	MBDS	1626	1243	2/18/2019	42.43937	-70.59318
Boston Harbor Improvement	MBDS	3913	2991	2/19/2019	42.43943	-70.59218
Boston Harbor Improvement	MBDS	4044	3092	2/19/2019	42.43984	-70.59192
Boston Harbor Improvement	MBDS	1702	1301	2/19/2019	42.44034	-70.59166
Boston Harbor Improvement	MBDS	4283	3275	2/20/2019	42.43997	-70.59147
Boston Harbor Improvement	MBDS	4024	3076	2/20/2019	42.44006	-70.59153
Boston Harbor Improvement	MBDS	1558	1191	2/20/2019	42.44023	-70.59073
Boston Harbor Improvement	MBDS	3892	2976	2/21/2019	42.44010	-70.59138
Boston Harbor Improvement	MBDS	3804	2908	2/21/2019	42.44051	-70.59063
Boston Harbor Improvement	MBDS	3389	2591	2/21/2019	42.44032	-70.59013
Boston Harbor Improvement	MBDS	4103	3137	2/22/2019	42.44068	-70.59033
Boston Harbor Improvement	MBDS	3627	2773	2/22/2019	42.44104	-70.58943
Boston Harbor Improvement	MBDS	3560	2722	2/22/2019	42.44089	-70.58840
Boston Harbor Improvement	MBDS	3858	2950	2/22/2019	42.44090	-70.58822
Boston Harbor Improvement	MBDS	4080	3120	2/22/2019	42.44095	-70.58924
Boston Harbor Improvement	MBDS	3020	2309	2/23/2019	42.44114	-70.58771
Boston Harbor Improvement	MBDS	3745	2863	2/23/2019	42.44107	-70.58800
Boston Harbor Improvement	MBDS	3931	3006	2/23/2019	42.44159	-70.58818
Boston Harbor Improvement	MBDS	4167	3186	2/24/2019	42.44143	-70.58739
Boston Harbor Improvement	MBDS	3807	2911	2/24/2019	42.44166	-70.58731
Boston Harbor Improvement	MBDS	4021	3074	2/26/2019	42.44132	-70.58733
Boston Harbor Improvement	MBDS	4375	3345	2/26/2019	42.44132	-70.58545
Boston Harbor Improvement	MBDS	3768	2881	2/27/2019	42.44132	-70.58543
Boston Harbor Improvement	MBDS	4212	3220	2/27/2019	42.44181	-70.58510
Boston Harbor Improvement	MBDS	4168	3187	2/27/2019	42.44193	-70.58500
Boston Harbor Improvement	MBDS	3662	2800	2/27/2019	42.44222	-70.58434
Boston Harbor Improvement	MBDS	3895	2978	2/28/2019	42.44253	-70.58337
Boston Harbor Improvement	MBDS	4009	3065	2/28/2019	42.44203	-70.58401
Boston Harbor Improvement	MBDS	3476	2658	2/28/2019	42.44212	-70.58252
Boston Harbor Improvement	MBDS	4282	3274	3/1/2019	42.44229	-70.58391
Boston Harbor Improvement	MBDS	4056	3101	3/1/2019	42.44227	-70.58431
Boston Harbor Improvement	MBDS	3521	2692	3/2/2019	42.44272	-70.58235
Boston Harbor Improvement	MBDS	3521	2692	3/2/2019	42.42892	-70.59953
Boston Harbor Improvement	MBDS	3923	2999	3/3/2019	42.44279	-70.58192
Boston Harbor Improvement	MBDS	3443	2633	3/3/2019	42.44251	-70.58244
Boston Harbor Improvement	MBDS	4083	3122	3/4/2019	42.44282	-70.58170
Boston Harbor Improvement	MBDS	3944	3015	3/4/2019	42.44315	-70.58115
Boston Harbor Improvement	MBDS	3512	2685	3/4/2019	42.44338	-70.58107
Boston Harbor Improvement	MBDS	4178	3194	3/5/2019	42.44315	-70.58088
Boston Harbor Improvement	MBDS	3994	3053	3/5/2019	42.44298	-70.58162
Boston Harbor Improvement	MBDS	3666	2803	3/5/2019	42.44347	-70.57977

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4317	3300	3/6/2019	42.44352	-70.58010
Boston Harbor Improvement	MBDS	4014	3069	3/6/2019	42.44311	-70.58020
Boston Harbor Improvement	MBDS	3497	2674	3/6/2019	42.44381	-70.57965
Boston Harbor Improvement	MBDS	4072	3113	3/7/2019	42.44358	-70.57935
Boston Harbor Improvement	MBDS	3995	3054	3/7/2019	42.44382	-70.57869
Boston Harbor Improvement	MBDS	3610	2760	3/7/2019	42.44445	-70.57825
Boston Harbor Improvement	MBDS	4264	3260	3/8/2019	42.44430	-70.57774
Boston Harbor Improvement	MBDS	3853	2946	3/8/2019	42.44421	-70.57780
Boston Harbor Improvement	MBDS	4039	3088	3/8/2019	42.44373	-70.57887
Boston Harbor Improvement	MBDS	3686	2818	3/8/2019	42.44422	-70.57755
Boston Harbor Improvement	MBDS	2489	1903	3/8/2019	42.44230	-70.58160
Boston Harbor Improvement	MBDS	4206	3215	3/8/2019	42.43719	-70.60242
Boston Harbor Improvement	MBDS	4054	3099	3/9/2019	42.43728	-70.60222
Boston Harbor Improvement	MBDS	3700	2829	3/9/2019	42.43729	-70.60240
Boston Harbor Improvement	MBDS	3755	2871	3/9/2019	42.43752	-70.60001
Boston Harbor Improvement	MBDS	4111	3143	3/9/2019	42.43759	-70.60224
Boston Harbor Improvement	MBDS	2616	2000	3/9/2019	42.43740	-70.60110
Boston Harbor Improvement	MBDS	4269	3264	3/9/2019	42.43762	-70.60114
Boston Harbor Improvement	MBDS	3720	2844	3/9/2019	42.43756	-70.60156
Boston Harbor Improvement	MBDS	3824	2924	3/9/2019	42.43757	-70.60093
Boston Harbor Improvement	MBDS	4119	3149	3/10/2019	42.43783	-70.60124
Boston Harbor Improvement	MBDS	4210	3219	3/10/2019	42.43801	-70.60045
Boston Harbor Improvement	MBDS	2722	2081	3/10/2019	42.43820	-70.59940
Boston Harbor Improvement	MBDS	3687	2819	3/10/2019	42.43824	-70.59999
Boston Harbor Improvement	MBDS	4186	3201	3/11/2019	42.43819	-70.60036
Boston Harbor Improvement	MBDS	4258	3255	3/11/2019	42.43846	-70.59901
Boston Harbor Improvement	MBDS	2611	1996	3/11/2019	42.43800	-70.59970
Boston Harbor Improvement	MBDS	3236	2474	3/11/2019	42.43852	-70.59801
Boston Harbor Improvement	MBDS	3950	3020	3/12/2019	42.43818	-70.59901
Boston Harbor Improvement	MBDS	1846	1411	3/12/2019	42.43830	-70.59880
Boston Harbor Improvement	MBDS	3468	2651	3/12/2019	42.43849	-70.59830
Boston Harbor Improvement	MBDS	4018	3072	3/12/2019	42.43862	-70.59803
Boston Harbor Improvement	MBDS	3671	2806	3/12/2019	42.43896	-70.59760
Boston Harbor Improvement	MBDS	3796	2902	3/12/2019	42.43850	-70.59770
Boston Harbor Improvement	MBDS	3670	2806	3/12/2019	42.43888	-70.59771
Boston Harbor Improvement	MBDS	1907	1458	3/13/2019	42.43890	-70.59760
Boston Harbor Improvement	MBDS	4104	3138	3/13/2019	42.43924	-70.59632
Boston Harbor Improvement	MBDS	4222	3228	3/13/2019	42.43874	-70.59723
Boston Harbor Improvement	MBDS	3658	2797	3/13/2019	42.43998	-70.58957
Boston Harbor Improvement	MBDS	4169	3187	3/13/2019	42.43909	-70.59655
Boston Harbor Improvement	MBDS	3653	2793	3/13/2019	42.43865	-70.59669
Boston Harbor Improvement	MBDS	4078	3118	3/14/2019	42.43946	-70.59518
Boston Harbor Improvement	MBDS	2404	1838	3/14/2019	42.43920	-70.59530
Boston Harbor Improvement	MBDS	3510	2684	3/14/2019	42.43933	-70.59509
Boston Harbor Improvement	MBDS	4269	3264	3/14/2019	42.43921	-70.59586
Boston Harbor Improvement	MBDS	3602	2754	3/14/2019	42.43932	-70.59607
Boston Harbor Improvement	MBDS	2432	1860	3/15/2019	42.43960	-70.59410
Boston Harbor Improvement	MBDS	4094	3130	3/15/2019	42.43990	-70.59400
Boston Harbor Improvement	MBDS	3479	2660	3/15/2019	42.44030	-70.58580
Boston Harbor Improvement	MBDS	3985	3047	3/15/2019	42.43955	-70.59461
Boston Harbor Improvement	MBDS	4144	3168	3/15/2019	42.43936	-70.59499
Boston Harbor Improvement	MBDS	3575	2733	3/16/2019	42.44020	-70.59450
Boston Harbor Improvement	MBDS	4279	3271	3/16/2019	42.43986	-70.59448
Boston Harbor Improvement	MBDS	3303	2525	3/16/2019	42.44025	-70.59426
Boston Harbor Improvement	MBDS	4092	3128	3/16/2019	42.44018	-70.59430
Boston Harbor Improvement	MBDS	3578	2735	3/16/2019	42.44050	-70.59360
Boston Harbor Improvement	MBDS	2277	1741	3/16/2019	42.44010	-70.59300
Boston Harbor Improvement	MBDS	4188	3202	3/17/2019	42.43969	-70.59346
Boston Harbor Improvement	MBDS	4166	3185	3/17/2019	42.43974	-70.59365
Boston Harbor Improvement	MBDS	3531	2699	3/17/2019	42.43990	-70.59320
Boston Harbor Improvement	MBDS	3411	2608	3/17/2019	42.44016	-70.59316
Boston Harbor Improvement	MBDS	4008	3065	3/17/2019	42.44034	-70.59220
Boston Harbor Improvement	MBDS	4058	3103	3/18/2019	42.44045	-70.59157
Boston Harbor Improvement	MBDS	3525	2695	3/18/2019	42.44031	-70.59211
Boston Harbor Improvement	MBDS	4275	3268	3/18/2019	42.44026	-70.59192
Boston Harbor Improvement	MBDS	4174	3191	3/18/2019	42.44039	-70.59173
Boston Harbor Improvement	MBDS	2184	1670	3/19/2019	42.44080	-70.59100
Boston Harbor Improvement	MBDS	4120	3150	3/19/2019	42.44066	-70.59078
Boston Harbor Improvement	MBDS	3645	2787	3/19/2019	42.44108	-70.59051
Boston Harbor Improvement	MBDS	3348	2560	3/19/2019	42.44070	-70.59100
Boston Harbor Improvement	MBDS	4034	3084	3/19/2019	42.44096	-70.59014
Boston Harbor Improvement	MBDS	4153	3176	3/20/2019	42.44109	-70.58954
Boston Harbor Improvement	MBDS	3685	2817	3/20/2019	42.44095	-70.58963
Boston Harbor Improvement	MBDS	4112	3144	3/20/2019	42.44099	-70.58990
Boston Harbor Improvement	MBDS	2481	1897	3/20/2019	42.44110	-70.58990
Boston Harbor Improvement	MBDS	4324	3306	3/20/2019	42.44163	-70.58972
Boston Harbor Improvement	MBDS	3502	2677	3/21/2019	42.44054	-70.58927
Boston Harbor Improvement	MBDS	4243	3244	3/21/2019	42.44132	-70.58890
Boston Harbor Improvement	MBDS	4139	3165	3/21/2019	42.44115	-70.58936
Boston Harbor Improvement	MBDS	3641	2784	3/21/2019	42.44144	-70.58854
Boston Harbor Improvement	MBDS	4025	3078	3/22/2019	42.44128	-70.58901
Boston Harbor Improvement	MBDS	3795	2902	3/22/2019	42.44168	-70.58780
Boston Harbor Improvement	MBDS	3637	2780	3/22/2019	42.44157	-70.58759

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	2563	1960	3/22/2019	42.44190	-70.58660
Boston Harbor Improvement	MBDS	3926	3002	3/23/2019	42.44169	-70.58696
Boston Harbor Improvement	MBDS	4072	3113	3/23/2019	42.44163	-70.58798
Boston Harbor Improvement	MBDS	3456	2642	3/23/2019	42.44199	-70.58654
Boston Harbor Improvement	MBDS	3416	2612	3/23/2019	42.44200	-70.58660
Boston Harbor Improvement	MBDS	3943	3015	3/23/2019	42.44205	-70.58651
Boston Harbor Improvement	MBDS	2368	1810	3/23/2019	42.44180	-70.58670
Boston Harbor Improvement	MBDS	3712	2838	3/24/2019	42.44183	-70.58692
Boston Harbor Improvement	MBDS	4176	3192	3/24/2019	42.44220	-70.58551
Boston Harbor Improvement	MBDS	3471	2654	3/24/2019	42.44247	-70.58567
Boston Harbor Improvement	MBDS	4026	3078	3/25/2019	42.44221	-70.58561
Boston Harbor Improvement	MBDS	3201	2447	3/25/2019	42.44280	-70.58570
Boston Harbor Improvement	MBDS	4083	3122	3/25/2019	42.44250	-70.58548
Boston Harbor Improvement	MBDS	4187	3201	3/26/2019	42.44228	-70.58467
Boston Harbor Improvement	MBDS	3040	2324	3/27/2019	42.44320	-70.57980
Boston Harbor Improvement	MBDS	2013	1539	3/27/2019	42.44260	-70.58440
Boston Harbor Improvement	MBDS	4185	3200	3/27/2019	42.44271	-70.58422
Boston Harbor Improvement	MBDS	4399	3363	3/28/2019	42.44278	-70.58390
Boston Harbor Improvement	MBDS	2942	2249	3/28/2019	42.43380	-70.58010
Boston Harbor Improvement	MBDS	4184	3199	3/28/2019	42.44276	-70.58402
Boston Harbor Improvement	MBDS	4216	3223	3/29/2019	42.44279	-70.58317
Boston Harbor Improvement	MBDS	1759	1344	3/29/2019	42.43420	-70.57960
Boston Harbor Improvement	MBDS	4116	3147	3/29/2019	42.44264	-70.58417
Boston Harbor Improvement	MBDS	4271	3266	3/30/2019	42.44322	-70.58221
Boston Harbor Improvement	MBDS	4131	3158	3/30/2019	42.44304	-70.58244
Boston Harbor Improvement	MBDS	4364	3337	3/31/2019	42.44312	-70.58222
Boston Harbor Improvement	MBDS	2306	1763	3/31/2019	42.44390	-70.58030
Boston Harbor Improvement	MBDS	3182	2433	3/31/2019	42.44320	-70.58210
Boston Harbor Improvement	MBDS	2339	1788	4/1/2019	42.44350	-70.58150
Boston Harbor Improvement	MBDS	3995	3054	4/1/2019	42.44367	-70.58082
Boston Harbor Improvement	MBDS	2220	1697	4/1/2019	42.44380	-70.57840
Boston Harbor Improvement	MBDS	3223	2464	4/2/2019	42.44360	-70.58110
Boston Harbor Improvement	MBDS	1146	876	4/2/2019	42.44350	-70.58120
Boston Harbor Improvement	MBDS	3322	2540	4/3/2019	42.44400	-70.57990
Boston Harbor Improvement	MBDS	2250	1720	4/3/2019	42.44370	-70.57990
Boston Harbor Improvement	MBDS	3988	3049	4/4/2019	42.44388	-70.58022
Boston Harbor Improvement	MBDS	3334	2549	4/4/2019	42.44400	-70.57950
Boston Harbor Improvement	MBDS	4159	3180	4/5/2019	42.44371	-70.58018
Boston Harbor Improvement	MBDS	4247	3247	4/5/2019	42.44429	-70.57901
Boston Harbor Improvement	MBDS	2183	1669	4/5/2019	42.44400	-70.57840
Boston Harbor Improvement	MBDS	3550	2714	4/5/2019	42.44434	-70.57914
Boston Harbor Improvement	MBDS	4179	3195	4/6/2019	42.44473	-70.57846
Boston Harbor Improvement	MBDS	4200	3211	4/6/2019	42.44435	-70.57886
Boston Harbor Improvement	MBDS	4198	3210	4/6/2019	42.44467	-70.57758
Boston Harbor Improvement	MBDS	3047	2330	4/6/2019	42.43410	-70.58070
Boston Harbor Improvement	MBDS	4121	3151	4/6/2019	42.44488	-70.57747
Boston Harbor Improvement	MBDS	4122	3151	4/7/2019	42.44475	-70.57783
Boston Harbor Improvement	MBDS	2223	1700	4/7/2019	42.44450	-70.57810
Boston Harbor Improvement	MBDS	4245	3245	4/7/2019	42.44494	-70.57766
Boston Harbor Improvement	MBDS	4306	3292	4/7/2019	42.43803	-70.60204
Boston Harbor Improvement	MBDS	2866	2191	4/7/2019	42.43800	-70.60240
Boston Harbor Improvement	MBDS	4155	3177	4/8/2019	42.43768	-70.60202
Boston Harbor Improvement	MBDS	4105	3138	4/8/2019	42.43782	-70.60195
Boston Harbor Improvement	MBDS	2213	1692	4/8/2019	42.43780	-70.60190
Boston Harbor Improvement	MBDS	3582	2739	4/8/2019	42.43838	-70.60086
Boston Harbor Improvement	MBDS	4262	3259	4/8/2019	42.43805	-70.60135
Boston Harbor Improvement	MBDS	2583	1975	4/9/2019	42.43810	-70.60060
Boston Harbor Improvement	MBDS	4140	3165	4/9/2019	42.43803	-70.60124
Boston Harbor Improvement	MBDS	2361	1805	4/9/2019	42.44070	-70.59130
Boston Harbor Improvement	MBDS	3952	3021	4/9/2019	42.43869	-70.60028
Boston Harbor Improvement	MBDS	4198	3210	4/9/2019	42.43823	-70.60055
Boston Harbor Improvement	MBDS	2550	1949	4/9/2019	42.43820	-70.60030
Boston Harbor Improvement	MBDS	2605	1992	4/9/2019	42.43820	-70.60060
Boston Harbor Improvement	MBDS	4003	3060	4/10/2019	42.43847	-70.60007
Boston Harbor Improvement	MBDS	4278	3271	4/10/2019	42.43875	-70.59901
Boston Harbor Improvement	MBDS	2695	2060	4/10/2019	42.43890	-70.59870
Boston Harbor Improvement	MBDS	2381	1820	4/10/2019	42.43870	-70.59910
Boston Harbor Improvement	MBDS	3628	2774	4/10/2019	42.43886	-70.59910
Boston Harbor Improvement	MBDS	4084	3122	4/11/2019	42.43903	-70.59812
Boston Harbor Improvement	MBDS	2803	2143	4/11/2019	42.43910	-70.59820
Boston Harbor Improvement	MBDS	3963	3030	4/11/2019	42.43917	-70.59768
Boston Harbor Improvement	MBDS	4209	3218	4/11/2019	42.43908	-70.59831
Boston Harbor Improvement	MBDS	2590	1981	4/11/2019	42.44100	-70.57900
Boston Harbor Improvement	MBDS	1778	1359	4/11/2019	42.43934	-70.59767
Boston Harbor Improvement	MBDS	4208	3217	4/12/2019	42.43933	-70.59691
Boston Harbor Improvement	MBDS	2600	1988	4/12/2019	42.44020	-70.59370
Boston Harbor Improvement	MBDS	2811	2149	4/12/2019	42.43970	-70.59640
Boston Harbor Improvement	MBDS	4135	3161	4/12/2019	42.43967	-70.59653
Boston Harbor Improvement	MBDS	4133	3160	4/12/2019	42.43974	-70.59701
Boston Harbor Improvement	MBDS	2984	2282	4/12/2019	42.43970	-70.59530
Boston Harbor Improvement	MBDS	3968	3034	4/13/2019	42.43957	-70.59584
Boston Harbor Improvement	MBDS	4331	3312	4/13/2019	42.43952	-70.59587
Boston Harbor Improvement	MBDS	2618	2001	4/13/2019	42.43390	-70.58070

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3893	2976	4/13/2019	42.43968	-70.59562
Boston Harbor Improvement	MBDS	3196	2444	4/13/2019	42.44010	-70.59540
Boston Harbor Improvement	MBDS	4096	3132	4/13/2019	42.44040	-70.59335
Boston Harbor Improvement	MBDS	3886	2971	4/14/2019	42.44039	-70.59333
Boston Harbor Improvement	MBDS	3325	2542	4/14/2019	42.44040	-70.59290
Boston Harbor Improvement	MBDS	4112	3144	4/14/2019	42.44049	-70.59328
Boston Harbor Improvement	MBDS	3881	2967	4/14/2019	42.44029	-70.59383
Boston Harbor Improvement	MBDS	3234	2473	4/15/2019	42.44050	-70.59200
Boston Harbor Improvement	MBDS	4313	3298	4/15/2019	42.44051	-70.59254
Boston Harbor Improvement	MBDS	4070	3112	4/15/2019	42.44063	-70.59252
Boston Harbor Improvement	MBDS	3313	2533	4/15/2019	42.44070	-70.59210
Boston Harbor Improvement	MBDS	3976	3040	4/15/2019	42.44100	-70.59107
Boston Harbor Improvement	MBDS	1822	1393	4/16/2019	42.43360	-70.58100
Boston Harbor Improvement	MBDS	3759	2874	4/16/2019	42.44064	-70.59023
Boston Harbor Improvement	MBDS	4160	3180	4/16/2019	42.44107	-70.59104
Boston Harbor Improvement	MBDS	3360	2569	4/16/2019	42.44110	-70.59090
Boston Harbor Improvement	MBDS	3926	3001	4/16/2019	42.44104	-70.59057
Boston Harbor Improvement	MBDS	3967	3033	4/17/2019	42.44131	-70.59028
Boston Harbor Improvement	MBDS	3264	2495	4/17/2019	42.44160	-70.58990
Boston Harbor Improvement	MBDS	3578	2736	4/17/2019	42.44136	-70.58989
Boston Harbor Improvement	MBDS	3578	2736	4/17/2019	42.44136	-70.58989
Boston Harbor Improvement	MBDS	3718	2842	4/17/2019	42.44165	-70.58978
Boston Harbor Improvement	MBDS	4127	3155	4/17/2019	42.44132	-70.59021
Boston Harbor Improvement	MBDS	3250	2485	4/17/2019	42.44180	-70.58880
Boston Harbor Improvement	MBDS	4103	3137	4/18/2019	42.44209	-70.58831
Boston Harbor Improvement	MBDS	3965	3031	4/18/2019	42.44187	-70.58866
Boston Harbor Improvement	MBDS	3435	2626	4/18/2019	42.44210	-70.58770
Boston Harbor Improvement	MBDS	4043	3091	4/18/2019	42.44239	-70.58759
Boston Harbor Improvement	MBDS	4315	3299	4/18/2019	42.44241	-70.58809
Boston Harbor Improvement	MBDS	3370	2577	4/18/2019	42.44210	-70.58810
Boston Harbor Improvement	MBDS	1701	1301	4/19/2019	42.43390	-70.57980
Boston Harbor Improvement	MBDS	3835	2932	4/19/2019	42.44239	-70.58798
Boston Harbor Improvement	MBDS	3909	2989	4/19/2019	42.44225	-70.58672
Boston Harbor Improvement	MBDS	3194	2442	4/19/2019	42.44250	-70.58660
Boston Harbor Improvement	MBDS	4167	3186	4/19/2019	42.44200	-70.58631
Boston Harbor Improvement	MBDS	4261	3258	4/19/2019	42.44230	-70.58710
Boston Harbor Improvement	MBDS	3378	2583	4/20/2019	42.44220	-70.58650
Boston Harbor Improvement	MBDS	4186	3200	4/20/2019	42.44306	-70.58499
Boston Harbor Improvement	MBDS	4156	3178	4/20/2019	42.44276	-70.58586
Boston Harbor Improvement	MBDS	3486	2665	4/20/2019	42.43401	-70.58059
Boston Harbor Improvement	MBDS	3466	2650	4/20/2019	42.44310	-70.58580
Boston Harbor Improvement	MBDS	4096	3131	4/20/2019	42.44278	-70.58588
Boston Harbor Improvement	MBDS	4184	3199	4/21/2019	42.44251	-70.58576
Boston Harbor Improvement	MBDS	3523	2694	4/21/2019	42.44320	-70.58400
Boston Harbor Improvement	MBDS	4449	3402	4/21/2019	42.44324	-70.58423
Boston Harbor Improvement	MBDS	4129	3157	4/22/2019	42.44318	-70.58436
Boston Harbor Improvement	MBDS	4385	3352	4/22/2019	42.44347	-70.58428
Boston Harbor Improvement	MBDS	1804	1379	4/22/2019	42.43390	-70.58150
Boston Harbor Improvement	MBDS	3616	2765	4/23/2019	42.43365	-70.58062
Boston Harbor Improvement	MBDS	3239	2477	4/24/2019	42.44380	-70.58280
Boston Harbor Improvement	MBDS	2400	1835	4/24/2019	42.44350	-70.58310
Boston Harbor Improvement	MBDS	3034	2320	4/26/2019	42.43380	-70.58130
Boston Harbor Improvement	MBDS	4268	3263	4/26/2019	42.44334	-70.58324
Boston Harbor Improvement	MBDS	3894	2978	4/27/2019	42.43310	-70.58077
Boston Harbor Improvement	MBDS	3150	2409	4/27/2019	42.44350	-70.58330
Boston Harbor Improvement	MBDS	4118	3148	4/27/2019	42.44369	-70.58189
Boston Harbor Improvement	MBDS	2274	1739	4/28/2019	42.44390	-70.58200
Boston Harbor Improvement	MBDS	4102	3136	4/28/2019	42.44341	-70.58245
Boston Harbor Improvement	MBDS	4474	3420	4/28/2019	42.44398	-70.58169
Boston Harbor Improvement	MBDS	3796	2903	4/28/2019	42.44369	-70.58185
Boston Harbor Improvement	MBDS	3205	2450	4/28/2019	42.44450	-70.58080
Boston Harbor Improvement	MBDS	4147	3171	4/28/2019	42.44411	-70.58073
Boston Harbor Improvement	MBDS	4541	3472	4/29/2019	42.44410	-70.58039
Boston Harbor Improvement	MBDS	3386	2589	4/29/2019	42.44400	-70.58150
Boston Harbor Improvement	MBDS	2638	2017	4/29/2019	42.44430	-70.58060
Boston Harbor Improvement	MBDS	4167	3186	4/29/2019	42.44435	-70.58003
Boston Harbor Improvement	MBDS	4098	3133	4/30/2019	42.44426	-70.57975
Boston Harbor Improvement	MBDS	4206	3216	4/30/2019	42.44427	-70.57974
Boston Harbor Improvement	MBDS	3321	2539	4/30/2019	42.44430	-70.57960
Boston Harbor Improvement	MBDS	3821	2922	4/30/2019	42.44437	-70.57968
Boston Harbor Improvement	MBDS	4392	3358	4/30/2019	42.44473	-70.57905
Boston Harbor Improvement	MBDS	3097	2367	5/1/2019	42.44500	-70.57770
Boston Harbor Improvement	MBDS	3993	3053	5/1/2019	42.44460	-70.57858
Boston Harbor Improvement	MBDS	2388	1826	5/1/2019	42.44480	-70.57860
Boston Harbor Improvement	MBDS	4430	3387	5/1/2019	42.44488	-70.57876
Boston Harbor Improvement	MBDS	3931	3006	5/1/2019	42.44507	-70.57807
Boston Harbor Improvement	MBDS	3408	2605	5/2/2019	42.44515	-70.57757
Boston Harbor Improvement	MBDS	4356	3330	5/2/2019	42.44514	-70.57739
Boston Harbor Improvement	MBDS	3615	2764	5/2/2019	42.44516	-70.57791
Boston Harbor Improvement	MBDS	3701	2829	5/2/2019	42.44501	-70.57719
Boston Harbor Improvement	MBDS	3712	2838	5/2/2019	42.43784	-70.60228
Boston Harbor Improvement	MBDS	4398	3363	5/2/2019	42.43846	-70.60194
Boston Harbor Improvement	MBDS	2090	1598	5/3/2019	42.43828	-70.60193

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3831	2929	5/3/2019	42.43812	-70.60236
Boston Harbor Improvement	MBDS	4546	3476	5/3/2019	42.43828	-70.60267
Boston Harbor Improvement	MBDS	3488	2667	5/3/2019	42.43889	-70.60004
Boston Harbor Improvement	MBDS	3448	2636	5/3/2019	42.43870	-70.60100
Boston Harbor Improvement	MBDS	2313	1769	5/3/2019	42.43850	-70.60120
Boston Harbor Improvement	MBDS	4340	3318	5/3/2019	42.43843	-70.60134
Boston Harbor Improvement	MBDS	3629	2774	5/3/2019	42.43862	-70.60080
Boston Harbor Improvement	MBDS	4390	3356	5/4/2019	42.43834	-70.60199
Boston Harbor Improvement	MBDS	3615	2764	5/4/2019	42.43922	-70.59928
Boston Harbor Improvement	MBDS	3453	2640	5/4/2019	42.43923	-70.59860
Boston Harbor Improvement	MBDS	3282	2509	5/4/2019	42.43880	-70.60060
Boston Harbor Improvement	MBDS	4119	3149	5/4/2019	42.43865	-70.60046
Boston Harbor Improvement	MBDS	4445	3398	5/4/2019	42.43863	-70.60014
Boston Harbor Improvement	MBDS	4498	3439	5/4/2019	42.43960	-70.59736
Boston Harbor Improvement	MBDS	3919	2996	5/4/2019	42.43910	-70.59871
Boston Harbor Improvement	MBDS	2257	1726	5/4/2019	42.43920	-70.59900
Boston Harbor Improvement	MBDS	3611	2761	5/4/2019	42.44212	-70.59457
Boston Harbor Improvement	MBDS	3987	3048	5/5/2019	42.43921	-70.59868
Boston Harbor Improvement	MBDS	3543	2709	5/5/2019	42.43967	-70.59735
Boston Harbor Improvement	MBDS	3455	2642	5/5/2019	42.43984	-70.59714
Boston Harbor Improvement	MBDS	3872	2961	5/5/2019	42.43968	-70.59750
Boston Harbor Improvement	MBDS	3631	2776	5/5/2019	42.43984	-70.59651
Boston Harbor Improvement	MBDS	4410	3372	5/5/2019	42.43956	-70.59755
Boston Harbor Improvement	MBDS	3206	2451	5/6/2019	42.44002	-70.59645
Boston Harbor Improvement	MBDS	2988	2284	5/6/2019	42.43950	-70.59720
Boston Harbor Improvement	MBDS	4124	3153	5/6/2019	42.43994	-70.59655
Boston Harbor Improvement	MBDS	3708	2835	5/6/2019	42.44028	-70.59553
Boston Harbor Improvement	MBDS	4299	3286	5/6/2019	42.44018	-70.59635
Boston Harbor Improvement	MBDS	3785	2894	5/6/2019	42.44026	-70.59564
Boston Harbor Improvement	MBDS	4406	3369	5/6/2019	42.43962	-70.59570
Boston Harbor Improvement	MBDS	2402	1837	5/6/2019	42.44030	-70.59550
Boston Harbor Improvement	MBDS	3575	2734	5/7/2019	42.44038	-70.59489
Boston Harbor Improvement	MBDS	4201	3212	5/7/2019	42.44026	-70.59569
Boston Harbor Improvement	MBDS	4341	3319	5/7/2019	42.43998	-70.59472
Boston Harbor Improvement	MBDS	1443	1103	5/7/2019	42.44078	-70.59395
Boston Harbor Improvement	MBDS	3084	2358	5/7/2019	42.44070	-70.59410
Boston Harbor Improvement	MBDS	3528	2698	5/7/2019	42.44081	-70.59343
Boston Harbor Improvement	MBDS	4342	3320	5/7/2019	42.44101	-70.59373
Boston Harbor Improvement	MBDS	4224	3229	5/8/2019	42.44087	-70.59327
Boston Harbor Improvement	MBDS	2083	1593	5/8/2019	42.44095	-70.59289
Boston Harbor Improvement	MBDS	3262	2494	5/8/2019	42.44080	-70.59350
Boston Harbor Improvement	MBDS	4403	3366	5/8/2019	42.44036	-70.59396
Boston Harbor Improvement	MBDS	3586	2742	5/8/2019	42.44116	-70.59274
Boston Harbor Improvement	MBDS	4255	3253	5/8/2019	42.44136	-70.59206
Boston Harbor Improvement	MBDS	3339	2553	5/8/2019	42.44110	-70.59200
Boston Harbor Improvement	MBDS	3351	2562	5/8/2019	42.44144	-70.59168
Boston Harbor Improvement	MBDS	4528	3462	5/9/2019	42.44156	-70.59282
Boston Harbor Improvement	MBDS	4184	3199	5/9/2019	42.44112	-70.59248
Boston Harbor Improvement	MBDS	3774	2885	5/9/2019	42.44195	-70.59046
Boston Harbor Improvement	MBDS	2158	1650	5/9/2019	42.43410	-70.58040
Boston Harbor Improvement	MBDS	4451	3403	5/9/2019	42.44138	-70.59087
Boston Harbor Improvement	MBDS	1288	984	5/9/2019	42.44208	-70.58930
Boston Harbor Improvement	MBDS	2617	2001	5/9/2019	42.44150	-70.59090
Boston Harbor Improvement	MBDS	4238	3240	5/9/2019	42.44172	-70.59108
Boston Harbor Improvement	MBDS	3748	2866	5/9/2019	42.44223	-70.58933
Boston Harbor Improvement	MBDS	4423	3382	5/10/2019	42.44203	-70.58973
Boston Harbor Improvement	MBDS	1287	984	5/10/2019	42.44197	-70.58952
Boston Harbor Improvement	MBDS	3961	3028	5/10/2019	42.44183	-70.58977
Boston Harbor Improvement	MBDS	3520	2691	5/10/2019	42.44213	-70.58935
Boston Harbor Improvement	MBDS	3551	2715	5/10/2019	42.44250	-70.58852
Boston Harbor Improvement	MBDS	4616	3529	5/10/2019	42.44250	-70.58808
Boston Harbor Improvement	MBDS	1083	828	5/10/2019	42.44230	-70.58840
Boston Harbor Improvement	MBDS	4008	3064	5/11/2019	42.44224	-70.58836
Boston Harbor Improvement	MBDS	3473	2655	5/11/2019	42.44219	-70.58795
Boston Harbor Improvement	MBDS	2172	1660	5/11/2019	42.43400	-70.58150
Boston Harbor Improvement	MBDS	3560	2722	5/11/2019	42.44307	-70.58638
Boston Harbor Improvement	MBDS	4335	3314	5/11/2019	42.44252	-70.58722
Boston Harbor Improvement	MBDS	3773	2884	5/11/2019	42.43930	-70.59850
Boston Harbor Improvement	MBDS	4128	3156	5/11/2019	42.44262	-70.58726
Boston Harbor Improvement	MBDS	3961	3028	5/11/2019	42.44167	-70.58693
Boston Harbor Improvement	MBDS	3646	2787	5/11/2019	42.44261	-70.58759
Boston Harbor Improvement	MBDS	4442	3396	5/12/2019	42.44294	-70.58661
Boston Harbor Improvement	MBDS	4330	3311	5/12/2019	42.44266	-70.58640
Boston Harbor Improvement	MBDS	3897	2979	5/12/2019	42.44254	-70.58624
Boston Harbor Improvement	MBDS	4315	3299	5/12/2019	42.44320	-70.58620
Boston Harbor Improvement	MBDS	4399	3363	5/12/2019	42.44293	-70.58616
Boston Harbor Improvement	MBDS	4315	3299	5/12/2019	42.44306	-70.58573
Boston Harbor Improvement	MBDS	3644	2786	5/12/2019	42.44338	-70.58476
Boston Harbor Improvement	MBDS	2029	1551	5/12/2019	42.43370	-70.58050
Boston Harbor Improvement	MBDS	3758	2873	5/12/2019	42.44324	-70.58378
Boston Harbor Improvement	MBDS	4359	3332	5/13/2019	42.44341	-70.58541
Boston Harbor Improvement	MBDS	4201	3212	5/13/2019	42.44340	-70.58510
Boston Harbor Improvement	MBDS	4235	3238	5/13/2019	42.44351	-70.58413

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3668	2804	5/13/2019	42.44305	-70.58420
Boston Harbor Improvement	MBDS	3590	2744	5/13/2019	42.44369	-70.58388
Boston Harbor Improvement	MBDS	4397	3362	5/13/2019	42.44365	-70.58455
Boston Harbor Improvement	MBDS	3519	2690	5/13/2019	42.44386	-70.58388
Boston Harbor Improvement	MBDS	3681	2814	5/14/2019	42.44400	-70.58330
Boston Harbor Improvement	MBDS	4096	3132	5/15/2019	42.44385	-70.58314
Boston Harbor Improvement	MBDS	2297	1756	5/15/2019	42.43750	-70.58640
Boston Harbor Improvement	MBDS	4332	3312	5/15/2019	42.44422	-70.58250
Boston Harbor Improvement	MBDS	3532	2701	5/15/2019	42.44396	-70.58295
Boston Harbor Improvement	MBDS	3850	2944	5/16/2019	42.44440	-70.58210
Boston Harbor Improvement	MBDS	4234	3237	5/16/2019	42.44443	-70.58198
Boston Harbor Improvement	MBDS	3901	2983	5/16/2019	42.44422	-70.58154
Boston Harbor Improvement	MBDS	3671	2807	5/16/2019	42.44442	-70.58160
Boston Harbor Improvement	MBDS	4201	3212	5/16/2019	42.44463	-70.58154
Boston Harbor Improvement	MBDS	4393	3358	5/16/2019	42.44450	-70.58140
Boston Harbor Improvement	MBDS	4096	3132	5/16/2019	42.44454	-70.58127
Boston Harbor Improvement	MBDS	3335	2549	5/17/2019	42.44470	-70.58050
Boston Harbor Improvement	MBDS	3591	2745	5/17/2019	42.44470	-70.58068
Boston Harbor Improvement	MBDS	4179	3195	5/17/2019	42.44480	-70.58092
Boston Harbor Improvement	MBDS	4191	3204	5/17/2019	42.44460	-70.58000
Boston Harbor Improvement	MBDS	4341	3319	5/17/2019	42.44499	-70.57986
Boston Harbor Improvement	MBDS	3922	2999	5/17/2019	42.44477	-70.57985
Boston Harbor Improvement	MBDS	3159	2415	5/18/2019	42.44520	-70.57830
Boston Harbor Improvement	MBDS	4189	3203	5/18/2019	42.44490	-70.57980
Boston Harbor Improvement	MBDS	4071	3113	5/18/2019	42.44535	-70.57798
Boston Harbor Improvement	MBDS	3883	2969	5/18/2019	42.44513	-70.57899
Boston Harbor Improvement	MBDS	3975	3039	5/18/2019	42.44504	-70.57836
Boston Harbor Improvement	MBDS	3899	2981	5/18/2019	42.44530	-70.57870
Boston Harbor Improvement	MBDS	4324	3306	5/19/2019	42.44551	-70.57804
Boston Harbor Improvement	MBDS	3598	2751	5/19/2019	42.44593	-70.57805
Boston Harbor Improvement	MBDS	3052	2334	5/19/2019	42.44650	-70.57660
Boston Harbor Improvement	MBDS	3706	2834	5/19/2019	42.44561	-70.57807
Boston Harbor Improvement	MBDS	4213	3221	5/19/2019	42.44570	-70.57760
Boston Harbor Improvement	MBDS	4356	3330	5/19/2019	42.44559	-70.57744
Boston Harbor Improvement	MBDS	3591	2745	5/19/2019	42.43876	-70.60194
Boston Harbor Improvement	MBDS	3176	2428	5/19/2019	42.43990	-70.59940
Boston Harbor Improvement	MBDS	3510	2684	5/19/2019	42.43374	-70.58102
Boston Harbor Improvement	MBDS	4077	3117	5/20/2019	42.43904	-70.60085
Boston Harbor Improvement	MBDS	4177	3194	5/20/2019	42.43880	-70.60200
Boston Harbor Improvement	MBDS	4116	3147	5/20/2019	42.43865	-70.60212
Boston Harbor Improvement	MBDS	3654	2794	5/20/2019	42.43944	-70.59960
Boston Harbor Improvement	MBDS	3961	3029	5/20/2019	42.43910	-70.60081
Boston Harbor Improvement	MBDS	2194	1678	5/20/2019	42.43920	-70.60080
Boston Harbor Improvement	MBDS	4243	3244	5/20/2019	42.43940	-70.60020
Boston Harbor Improvement	MBDS	4410	3372	5/21/2019	42.43921	-70.60032
Boston Harbor Improvement	MBDS	3650	2791	5/21/2019	42.43959	-70.59935
Boston Harbor Improvement	MBDS	4184	3199	5/21/2019	42.43952	-70.59941
Boston Harbor Improvement	MBDS	4181	3196	5/21/2019	42.43945	-70.59865
Boston Harbor Improvement	MBDS	4442	3396	5/21/2019	42.43930	-70.60030
Boston Harbor Improvement	MBDS	3285	2512	5/21/2019	42.43920	-70.60010
Boston Harbor Improvement	MBDS	3769	2882	5/22/2019	42.43942	-70.59985
Boston Harbor Improvement	MBDS	3647	2788	5/22/2019	42.43995	-70.59824
Boston Harbor Improvement	MBDS	4163	3183	5/22/2019	42.43968	-70.59881
Boston Harbor Improvement	MBDS	4082	3121	5/22/2019	42.43940	-70.59860
Boston Harbor Improvement	MBDS	2131	1629	5/22/2019	42.43370	-70.58150
Boston Harbor Improvement	MBDS	4251	3250	5/22/2019	42.43956	-70.59948
Boston Harbor Improvement	MBDS	3711	2837	5/22/2019	42.44017	-70.59714
Boston Harbor Improvement	MBDS	4200	3211	5/23/2019	42.44001	-70.59764
Boston Harbor Improvement	MBDS	4170	3188	5/23/2019	42.43970	-70.59770
Boston Harbor Improvement	MBDS	3962	3029	5/23/2019	42.44007	-70.59764
Boston Harbor Improvement	MBDS	3916	2994	5/23/2019	42.44025	-70.59752
Boston Harbor Improvement	MBDS	4424	3383	5/23/2019	42.44032	-70.59684
Boston Harbor Improvement	MBDS	2779	2125	5/23/2019	42.44050	-70.59670
Boston Harbor Improvement	MBDS	3756	2871	5/23/2019	42.43894	-70.58624
Boston Harbor Improvement	MBDS	4422	3381	5/23/2019	42.44023	-70.59690
Boston Harbor Improvement	MBDS	4673	3573	5/24/2019	42.44100	-70.59430
Boston Harbor Improvement	MBDS	3656	2795	5/24/2019	42.44025	-70.59650
Boston Harbor Improvement	MBDS	4215	3223	5/24/2019	42.44047	-70.59521
Boston Harbor Improvement	MBDS	3756	2872	5/24/2019	42.44116	-70.59456
Boston Harbor Improvement	MBDS	4190	3204	5/24/2019	42.44050	-70.59590
Boston Harbor Improvement	MBDS	2173	1661	5/24/2019	42.44070	-70.59540
Boston Harbor Improvement	MBDS	3417	2612	5/25/2019	42.44089	-70.59536
Boston Harbor Improvement	MBDS	4515	3452	5/25/2019	42.44110	-70.59390
Boston Harbor Improvement	MBDS	2853	2181	5/25/2019	42.44100	-70.59440
Boston Harbor Improvement	MBDS	3657	2796	5/25/2019	42.44107	-70.59387
Boston Harbor Improvement	MBDS	4215	3223	5/26/2019	42.44120	-70.59320
Boston Harbor Improvement	MBDS	3600	2753	5/26/2019	42.44139	-70.59360
Boston Harbor Improvement	MBDS	4280	3273	5/26/2019	42.44148	-70.59318
Boston Harbor Improvement	MBDS	4325	3307	5/26/2019	42.44130	-70.59340
Boston Harbor Improvement	MBDS	4185	3200	5/26/2019	42.44129	-70.59317
Boston Harbor Improvement	MBDS	2300	1758	5/27/2019	42.44120	-70.59340
Boston Harbor Improvement	MBDS	3191	2440	5/27/2019	42.44160	-70.59330
Boston Harbor Improvement	MBDS	3699	2828	5/27/2019	42.44166	-70.59267

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4123	3152	5/27/2019	42.44172	-70.59238
Boston Harbor Improvement	MBDS	4182	3197	5/27/2019	42.44145	-70.59232
Boston Harbor Improvement	MBDS	4261	3258	5/27/2019	42.44180	-70.59210
Boston Harbor Improvement	MBDS	3812	2914	5/27/2019	42.44191	-70.59159
Boston Harbor Improvement	MBDS	3705	2832	5/27/2019	42.44220	-70.59102
Boston Harbor Improvement	MBDS	3321	2539	5/27/2019	42.44190	-70.59220
Boston Harbor Improvement	MBDS	4272	3266	5/28/2019	42.44184	-70.59087
Boston Harbor Improvement	MBDS	1952	1492	5/28/2019	42.44190	-70.59080
Boston Harbor Improvement	MBDS	4229	3233	5/28/2019	42.44250	-70.58950
Boston Harbor Improvement	MBDS	3413	2610	5/28/2019	42.44190	-70.59090
Boston Harbor Improvement	MBDS	4111	3143	5/28/2019	42.44233	-70.58992
Boston Harbor Improvement	MBDS	1691	1293	5/28/2019	42.44225	-70.59016
Boston Harbor Improvement	MBDS	4347	3324	5/28/2019	42.44248	-70.59021
Boston Harbor Improvement	MBDS	3956	3024	5/28/2019	42.44235	-70.59017
Boston Harbor Improvement	MBDS	4403	3366	5/28/2019	42.44290	-70.58860
Boston Harbor Improvement	MBDS	3277	2505	5/29/2019	42.44300	-70.58880
Boston Harbor Improvement	MBDS	4268	3263	5/29/2019	42.44266	-70.58897
Boston Harbor Improvement	MBDS	1783	1363	5/29/2019	42.44252	-70.58952
Boston Harbor Improvement	MBDS	2211	1691	5/29/2019	42.44260	-70.58920
Boston Harbor Improvement	MBDS	4092	3129	5/29/2019	42.44310	-70.58760
Boston Harbor Improvement	MBDS	4308	3294	5/30/2019	42.44278	-70.58807
Boston Harbor Improvement	MBDS	1702	1301	5/30/2019	42.44331	-70.58678
Boston Harbor Improvement	MBDS	4130	3158	5/30/2019	42.44314	-70.58709
Boston Harbor Improvement	MBDS	3285	2511	5/30/2019	42.44330	-70.58640
Boston Harbor Improvement	MBDS	4265	3260	5/30/2019	42.44350	-70.58610
Boston Harbor Improvement	MBDS	3535	2703	5/30/2019	42.44344	-70.58659
Boston Harbor Improvement	MBDS	4307	3293	5/30/2019	42.44329	-70.58643
Boston Harbor Improvement	MBDS	2102	1607	5/30/2019	42.44310	-70.58620
Boston Harbor Improvement	MBDS	1862	1424	5/30/2019	42.44341	-70.58636
Boston Harbor Improvement	MBDS	3705	2833	5/31/2019	42.44369	-70.58548
Boston Harbor Improvement	MBDS	3988	3049	5/31/2019	42.44380	-70.58510
Boston Harbor Improvement	MBDS	4246	3246	5/31/2019	42.44376	-70.58568
Boston Harbor Improvement	MBDS	4499	3440	5/31/2019	42.44374	-70.58525
Boston Harbor Improvement	MBDS	1824	1395	5/31/2019	42.44404	-70.58411
Boston Harbor Improvement	MBDS	3765	2879	5/31/2019	42.44405	-70.58445
Boston Harbor Improvement	MBDS	3328	2545	5/31/2019	42.44420	-70.58450
Boston Harbor Improvement	MBDS	3825	2924	6/1/2019	42.44450	-70.58390
Boston Harbor Improvement	MBDS	1780	1361	6/1/2019	42.44364	-70.58461
Boston Harbor Improvement	MBDS	4432	3389	6/1/2019	42.44414	-70.58361
Boston Harbor Improvement	MBDS	1497	1145	6/1/2019	42.44422	-70.58331
Boston Harbor Improvement	MBDS	3087	2360	6/1/2019	42.44390	-70.58480
Boston Harbor Improvement	MBDS	2354	1800	6/1/2019	42.44440	-70.58300
Boston Harbor Improvement	MBDS	4318	3301	6/1/2019	42.44465	-70.58216
Boston Harbor Improvement	MBDS	4671	3571	6/1/2019	42.44540	-70.57860
Boston Harbor Improvement	MBDS	3464	2649	6/2/2019	42.44472	-70.58126
Boston Harbor Improvement	MBDS	1497	1145	6/2/2019	42.44487	-70.58096
Boston Harbor Improvement	MBDS	4406	3369	6/2/2019	42.44467	-70.58218
Boston Harbor Improvement	MBDS	4494	3436	6/2/2019	42.44460	-70.58180
Boston Harbor Improvement	MBDS	3415	2611	6/2/2019	42.44490	-70.58040
Boston Harbor Improvement	MBDS	3505	2680	6/2/2019	42.44492	-70.58142
Boston Harbor Improvement	MBDS	2392	1829	6/2/2019	42.44500	-70.58070
Boston Harbor Improvement	MBDS	4255	3253	6/2/2019	42.44521	-70.58074
Boston Harbor Improvement	MBDS	4258	3255	6/3/2019	42.44530	-70.58030
Boston Harbor Improvement	MBDS	3510	2683	6/3/2019	42.44540	-70.57890
Boston Harbor Improvement	MBDS	3731	2853	6/3/2019	42.44529	-70.58025
Boston Harbor Improvement	MBDS	3578	2735	6/3/2019	42.44535	-70.57937
Boston Harbor Improvement	MBDS	3379	2583	6/3/2019	42.44558	-70.57875
Boston Harbor Improvement	MBDS	4109	3142	6/3/2019	42.44538	-70.57909
Boston Harbor Improvement	MBDS	2144	1640	6/3/2019	42.44570	-70.57860
Boston Harbor Improvement	MBDS	4003	3060	6/3/2019	42.44560	-70.57870
Boston Harbor Improvement	MBDS	3647	2788	6/4/2019	42.44590	-70.57879
Boston Harbor Improvement	MBDS	3528	2697	6/4/2019	42.44561	-70.57881
Boston Harbor Improvement	MBDS	4121	3151	6/4/2019	42.44571	-70.57844
Boston Harbor Improvement	MBDS	4590	3509	6/4/2019	42.44580	-70.57800
Boston Harbor Improvement	MBDS	2895	2214	6/4/2019	42.44607	-70.57748
Boston Harbor Improvement	MBDS	3321	2539	6/5/2019	42.43380	-70.58100
Boston Harbor Improvement	MBDS	3847	2941	6/5/2019	42.44592	-70.57655
Boston Harbor Improvement	MBDS	3956	3025	6/5/2019	42.44620	-70.57720
Boston Harbor Improvement	MBDS	4262	3259	6/5/2019	42.44573	-70.57762
Boston Harbor Improvement	MBDS	3802	2907	6/5/2019	42.43952	-70.60219
Boston Harbor Improvement	MBDS	2278	1741	6/5/2019	42.43910	-70.60220
Boston Harbor Improvement	MBDS	4126	3154	6/5/2019	42.43923	-70.60231
Boston Harbor Improvement	MBDS	4025	3077	6/5/2019	42.43920	-70.60230
Boston Harbor Improvement	MBDS	4406	3369	6/6/2019	42.43931	-70.60220
Boston Harbor Improvement	MBDS	3574	2733	6/6/2019	42.43947	-70.60155
Boston Harbor Improvement	MBDS	3400	2599	6/6/2019	42.43960	-70.60020
Boston Harbor Improvement	MBDS	4242	3244	6/6/2019	42.43957	-70.60101
Boston Harbor Improvement	MBDS	4042	3090	6/6/2019	42.43950	-70.60110
Boston Harbor Improvement	MBDS	4245	3246	6/6/2019	42.43972	-70.60079
Boston Harbor Improvement	MBDS	3624	2771	6/6/2019	42.43979	-70.60020
Boston Harbor Improvement	MBDS	3688	2820	6/6/2019	42.43983	-70.59975
Boston Harbor Improvement	MBDS	3552	2716	6/6/2019	42.43960	-70.59970
Boston Harbor Improvement	MBDS	4646	3552	6/7/2019	42.43970	-70.59980

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4286	3277	6/7/2019	42.43940	-70.59967
Boston Harbor Improvement	MBDS	4421	3380	6/7/2019	42.44021	-70.59840
Boston Harbor Improvement	MBDS	2448	1872	6/7/2019	42.44000	-70.59870
Boston Harbor Improvement	MBDS	3705	2833	6/7/2019	42.44044	-70.59864
Boston Harbor Improvement	MBDS	3507	2681	6/7/2019	42.44030	-70.59880
Boston Harbor Improvement	MBDS	3880	2967	6/7/2019	42.44071	-70.59736
Boston Harbor Improvement	MBDS	3811	2914	6/7/2019	42.44072	-70.59734
Boston Harbor Improvement	MBDS	4297	3285	6/7/2019	42.44040	-70.59800
Boston Harbor Improvement	MBDS	4194	3206	6/8/2019	42.44059	-70.59770
Boston Harbor Improvement	MBDS	3804	2908	6/8/2019	42.44042	-70.59833
Boston Harbor Improvement	MBDS	3801	2906	6/8/2019	42.44082	-70.59661
Boston Harbor Improvement	MBDS	2238	1711	6/8/2019	42.44130	-70.59490
Boston Harbor Improvement	MBDS	4472	3419	6/8/2019	42.44090	-70.59660
Boston Harbor Improvement	MBDS	4333	3312	6/8/2019	42.44129	-70.59593
Boston Harbor Improvement	MBDS	4064	3107	6/8/2019	42.44064	-70.59650
Boston Harbor Improvement	MBDS	3778	2889	6/8/2019	42.44124	-70.59566
Boston Harbor Improvement	MBDS	4608	3523	6/9/2019	42.44116	-70.59596
Boston Harbor Improvement	MBDS	4195	3207	6/9/2019	42.44120	-70.59520
Boston Harbor Improvement	MBDS	3336	2551	6/9/2019	42.44140	-70.59470
Boston Harbor Improvement	MBDS	4299	3287	6/9/2019	42.44125	-70.59548
Boston Harbor Improvement	MBDS	3672	2808	6/9/2019	42.44154	-70.59501
Boston Harbor Improvement	MBDS	4429	3386	6/9/2019	42.44153	-70.59415
Boston Harbor Improvement	MBDS	1721	1316	6/9/2019	42.44160	-70.59420
Boston Harbor Improvement	MBDS	3525	2695	6/10/2019	42.44270	-70.59240
Boston Harbor Improvement	MBDS	4061	3105	6/10/2019	42.44141	-70.59470
Boston Harbor Improvement	MBDS	2339	1788	6/10/2019	42.44190	-70.59280
Boston Harbor Improvement	MBDS	4609	3524	6/10/2019	42.44210	-70.59230
Boston Harbor Improvement	MBDS	4495	3437	6/10/2019	42.44163	-70.59353
Boston Harbor Improvement	MBDS	3545	2710	6/10/2019	42.44230	-70.59160
Boston Harbor Improvement	MBDS	3892	2975	6/10/2019	42.44192	-70.59251
Boston Harbor Improvement	MBDS	3618	2766	6/10/2019	42.44239	-70.59133
Boston Harbor Improvement	MBDS	3999	3058	6/10/2019	42.44206	-70.59203
Boston Harbor Improvement	MBDS	4289	3279	6/11/2019	42.44262	-70.59093
Boston Harbor Improvement	MBDS	4292	3282	6/11/2019	42.44260	-70.59110
Boston Harbor Improvement	MBDS	2210	1689	6/11/2019	42.44270	-70.59070
Boston Harbor Improvement	MBDS	4051	3097	6/11/2019	42.44233	-70.59099
Boston Harbor Improvement	MBDS	3794	2900	6/11/2019	42.44225	-70.59133
Boston Harbor Improvement	MBDS	4304	3290	6/11/2019	42.44303	-70.58969
Boston Harbor Improvement	MBDS	3815	2916	6/11/2019	42.44215	-70.58926
Boston Harbor Improvement	MBDS	3443	2632	6/11/2019	42.44330	-70.58850
Boston Harbor Improvement	MBDS	4241	3243	6/11/2019	42.44300	-70.58910
Boston Harbor Improvement	MBDS	4038	3087	6/12/2019	42.44308	-70.58986
Boston Harbor Improvement	MBDS	4038	3087	6/12/2019	42.44308	-70.58986
Boston Harbor Improvement	MBDS	4537	3469	6/12/2019	42.44323	-70.58883
Boston Harbor Improvement	MBDS	2257	1726	6/12/2019	42.44336	-70.58851
Boston Harbor Improvement	MBDS	3352	2563	6/12/2019	42.44340	-70.58800
Boston Harbor Improvement	MBDS	3644	2786	6/12/2019	42.44349	-70.58772
Boston Harbor Improvement	MBDS	4314	3298	6/12/2019	42.44330	-70.58850
Boston Harbor Improvement	MBDS	4363	3336	6/12/2019	42.44335	-70.58799
Boston Harbor Improvement	MBDS	4363	3336	6/12/2019	42.44335	-70.58799
Boston Harbor Improvement	MBDS	4375	3345	6/12/2019	42.44344	-70.58796
Boston Harbor Improvement	MBDS	3824	2924	6/12/2019	42.44284	-70.59215
Boston Harbor Improvement	MBDS	3620	2768	6/12/2019	42.44337	-70.58666
Boston Harbor Improvement	MBDS	4413	3374	6/13/2019	42.44426	-70.58622
Boston Harbor Improvement	MBDS	3509	2683	6/13/2019	42.44307	-70.58769
Boston Harbor Improvement	MBDS	4347	3323	6/13/2019	42.44404	-70.58626
Boston Harbor Improvement	MBDS	2060	1575	6/13/2019	42.44380	-70.58644
Boston Harbor Improvement	MBDS	3801	2906	6/13/2019	42.44357	-70.58701
Boston Harbor Improvement	MBDS	3485	2664	6/13/2019	42.44383	-70.58648
Boston Harbor Improvement	MBDS	3924	3000	6/13/2019	42.44412	-70.58563
Boston Harbor Improvement	MBDS	4312	3296	6/13/2019	42.44440	-70.58541
Boston Harbor Improvement	MBDS	3924	3000	6/14/2019	42.44412	-70.58563
Boston Harbor Improvement	MBDS	3251	2486	6/14/2019	42.44392	-70.58515
Boston Harbor Improvement	MBDS	4103	3137	6/14/2019	42.44421	-70.58542
Boston Harbor Improvement	MBDS	3531	2700	6/14/2019	42.44389	-70.58637
Boston Harbor Improvement	MBDS	3962	3029	6/14/2019	42.44460	-70.58440
Boston Harbor Improvement	MBDS	4505	3444	6/14/2019	42.44434	-70.58533
Boston Harbor Improvement	MBDS	3962	3029	6/14/2019	42.44460	-70.58440
Boston Harbor Improvement	MBDS	3448	2636	6/14/2019	42.44470	-70.58406
Boston Harbor Improvement	MBDS	4037	3087	6/14/2019	42.44461	-70.58402
Boston Harbor Improvement	MBDS	3808	2912	6/14/2019	42.44483	-70.58365
Boston Harbor Improvement	MBDS	2134	1632	6/14/2019	42.44454	-70.58366
Boston Harbor Improvement	MBDS	3785	2893	6/15/2019	42.44492	-70.58339
Boston Harbor Improvement	MBDS	3994	3054	6/15/2019	42.44496	-70.58307
Boston Harbor Improvement	MBDS	3785	2893	6/15/2019	42.44492	-70.58339
Boston Harbor Improvement	MBDS	3510	2683	6/15/2019	42.44497	-70.58284
Boston Harbor Improvement	MBDS	4475	3421	6/15/2019	42.44497	-70.58276
Boston Harbor Improvement	MBDS	3535	2703	6/16/2019	42.44524	-70.58182
Boston Harbor Improvement	MBDS	3693	2824	6/16/2019	42.44476	-70.58316
Boston Harbor Improvement	MBDS	3396	2596	6/16/2019	42.44530	-70.58116
Boston Harbor Improvement	MBDS	4210	3219	6/16/2019	42.44559	-70.58133
Boston Harbor Improvement	MBDS	4337	3316	6/16/2019	42.44522	-70.58212
Boston Harbor Improvement	MBDS	4108	3141	6/16/2019	42.44614	-70.57954

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3677	2811	6/16/2019	42.44535	-70.58089
Boston Harbor Improvement	MBDS	4108	3141	6/16/2019	42.44614	-70.57954
Boston Harbor Improvement	MBDS	3822	2922	6/16/2019	42.44289	-70.57847
Boston Harbor Improvement	MBDS	1969	1505	6/17/2019	42.44638	-70.57957
Boston Harbor Improvement	MBDS	3501	2677	6/17/2019	42.44606	-70.57978
Boston Harbor Improvement	MBDS	4633	3543	6/17/2019	42.44564	-70.57953
Boston Harbor Improvement	MBDS	3680	2814	6/17/2019	42.44620	-70.57848
Boston Harbor Improvement	MBDS	3501	2677	6/17/2019	42.44606	-70.57978
Boston Harbor Improvement	MBDS	4337	3316	6/17/2019	42.44659	-70.57663
Boston Harbor Improvement	MBDS	3773	2884	6/17/2019	42.44615	-70.57752
Boston Harbor Improvement	MBDS	3768	2881	6/17/2019	42.44668	-70.57732
Boston Harbor Improvement	MBDS	3804	2908	6/18/2019	42.44663	-70.57749
Boston Harbor Improvement	MBDS	4025	3078	6/18/2019	42.44647	-70.57685
Boston Harbor Improvement	MBDS	3804	2908	6/18/2019	42.44663	-70.57749
Boston Harbor Improvement	MBDS	3983	3045	6/18/2019	42.43978	-70.60200
Boston Harbor Improvement	MBDS	3925	3001	6/18/2019	42.44654	-70.57717
Boston Harbor Improvement	MBDS	2061	1576	6/18/2019	42.44647	-70.57714
Boston Harbor Improvement	MBDS	3996	3056	6/18/2019	42.43977	-70.60251
Boston Harbor Improvement	MBDS	4540	3471	6/18/2019	42.43960	-70.60238
Boston Harbor Improvement	MBDS	3996	3056	6/18/2019	42.43977	-70.60251
Boston Harbor Improvement	MBDS	4600	3517	6/18/2019	42.43944	-70.60322
Boston Harbor Improvement	MBDS	3591	2745	6/18/2019	42.44031	-70.60021
Boston Harbor Improvement	MBDS	3772	2884	6/19/2019	42.43952	-70.60209
Boston Harbor Improvement	MBDS	4775	3651	6/19/2019	42.44005	-70.60051
Boston Harbor Improvement	MBDS	4412	3373	6/19/2019	42.44025	-70.60068
Boston Harbor Improvement	MBDS	3774	2885	6/19/2019	42.44023	-70.60095
Boston Harbor Improvement	MBDS	3788	2896	6/20/2019	42.44060	-70.59974
Boston Harbor Improvement	MBDS	3420	2615	6/20/2019	42.44018	-70.60070
Boston Harbor Improvement	MBDS	3788	2896	6/20/2019	42.44060	-70.59974
Boston Harbor Improvement	MBDS	3585	2741	6/20/2019	42.43993	-70.60015
Boston Harbor Improvement	MBDS	3117	2383	6/20/2019	42.44064	-70.59966
Boston Harbor Improvement	MBDS	4498	3439	6/20/2019	42.44051	-70.59925
Boston Harbor Improvement	MBDS	4382	3350	6/20/2019	42.44076	-70.59791
Boston Harbor Improvement	MBDS	3652	2792	6/20/2019	42.44063	-70.59965
Boston Harbor Improvement	MBDS	4219	3225	6/20/2019	42.44078	-70.59876
Boston Harbor Improvement	MBDS	1777	1359	6/20/2019	42.44117	-70.59838
Boston Harbor Improvement	MBDS	4219	3225	6/21/2019	42.44078	-70.59876
Boston Harbor Improvement	MBDS	4722	3610	6/21/2019	42.44101	-70.59740
Boston Harbor Improvement	MBDS	4191	3204	6/21/2019	42.44087	-70.59852
Boston Harbor Improvement	MBDS	3651	2791	6/21/2019	42.44102	-70.59617
Boston Harbor Improvement	MBDS	3391	2592	6/21/2019	42.44109	-70.59762
Boston Harbor Improvement	MBDS	4137	3163	6/21/2019	42.44110	-70.59777
Boston Harbor Improvement	MBDS	3569	2729	6/22/2019	42.42863	-70.57627
Boston Harbor Improvement	MBDS	4412	3373	6/22/2019	42.42849	-70.57616
Boston Harbor Improvement	MBDS	3044	2327	6/22/2019	42.42871	-70.57611
Boston Harbor Improvement	MBDS	3741	2860	6/22/2019	42.42838	-70.57600
Boston Harbor Improvement	MBDS	4622	3534	6/23/2019	42.42838	-70.57667
Boston Harbor Improvement	MBDS	2011	1537	6/23/2019	42.42898	-70.57685
Boston Harbor Improvement	MBDS	3584	2740	6/23/2019	42.42878	-70.57658
Boston Harbor Improvement	MBDS	4303	3290	6/23/2019	42.42921	-70.57712
Boston Harbor Improvement	MBDS	3720	2844	6/23/2019	42.42883	-70.57627
Boston Harbor Improvement	MBDS	4436	3391	6/24/2019	42.42838	-70.57605
Boston Harbor Improvement	MBDS	3283	2510	6/24/2019	42.42821	-70.58007
Boston Harbor Improvement	MBDS	3858	2949	6/24/2019	42.42906	-70.57650
Boston Harbor Improvement	MBDS	4126	3154	6/24/2019	42.42852	-70.57637
Boston Harbor Improvement	MBDS	4126	3154	6/24/2019	42.42852	-70.57637
Boston Harbor Improvement	MBDS	4502	3442	6/24/2019	42.42849	-70.57515
Boston Harbor Improvement	MBDS	4397	3362	6/24/2019	42.42810	-70.57618
Boston Harbor Improvement	MBDS	2022	1546	6/24/2019	42.42883	-70.57602
Boston Harbor Improvement	MBDS	3780	2890	6/24/2019	42.42884	-70.57585
Boston Harbor Improvement	MBDS	3790	2897	6/25/2019	42.42875	-70.57637
Boston Harbor Improvement	MBDS	3780	2890	6/25/2019	42.42884	-70.57585
Boston Harbor Improvement	MBDS	4432	3389	6/25/2019	42.42912	-70.57609
Boston Harbor Improvement	MBDS	4281	3273	6/25/2019	42.42900	-70.57646
Boston Harbor Improvement	MBDS	3938	3010	6/25/2019	42.42847	-70.57612
Boston Harbor Improvement	MBDS	3698	2827	6/25/2019	42.42849	-70.57646
Boston Harbor Improvement	MBDS	3280	2508	6/25/2019	42.42864	-70.57751
Boston Harbor Improvement	MBDS	3937	3010	6/25/2019	42.42847	-70.57612
Boston Harbor Improvement	MBDS	4380	3349	6/25/2019	42.42867	-70.57650
Boston Harbor Improvement	MBDS	4276	3270	6/25/2019	42.42876	-70.57672
Boston Harbor Improvement	MBDS	4299	3287	6/26/2019	42.42866	-70.57627
Boston Harbor Improvement	MBDS	4299	3287	6/26/2019	42.42866	-70.57627
Boston Harbor Improvement	MBDS	3702	2830	6/26/2019	42.42854	-70.57631
Boston Harbor Improvement	MBDS	2090	1598	6/26/2019	42.42871	-70.57604
Boston Harbor Improvement	MBDS	3831	2929	6/26/2019	42.42815	-70.57689
Boston Harbor Improvement	MBDS	4360	3334	6/26/2019	42.42857	-70.57640
Boston Harbor Improvement	MBDS	4109	3142	6/26/2019	42.42863	-70.57620
Boston Harbor Improvement	MBDS	3754	2870	6/26/2019	42.42914	-70.57700
Boston Harbor Improvement	MBDS	4109	3142	6/26/2019	42.42863	-70.57620
Boston Harbor Improvement	MBDS	3691	2822	6/26/2019	42.42862	-70.57585
Boston Harbor Improvement	MBDS	3708	2835	6/27/2019	42.42853	-70.57626
Boston Harbor Improvement	MBDS	3980	3043	6/27/2019	42.42868	-70.57584
Boston Harbor Improvement	MBDS	3140	2401	6/27/2019	42.42870	-70.57618

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3980	3043	6/27/2019	42.42868	-70.57584
Boston Harbor Improvement	MBDS	1895	1449	6/27/2019	42.42873	-70.57575
Boston Harbor Improvement	MBDS	3956	3024	6/27/2019	42.42831	-70.57626
Boston Harbor Improvement	MBDS	1909	1459	6/28/2019	42.42840	-70.57649
Boston Harbor Improvement	MBDS	4485	3429	6/28/2019	42.42860	-70.57577
Boston Harbor Improvement	MBDS	4035	3085	6/28/2019	42.42866	-70.57573
Boston Harbor Improvement	MBDS	4035	3085	6/28/2019	42.42866	-70.57573
Boston Harbor Improvement	MBDS	4528	3462	6/28/2019	42.42885	-70.57576
Boston Harbor Improvement	MBDS	3899	2981	6/28/2019	42.42874	-70.57619
Boston Harbor Improvement	MBDS	3100	2370	6/29/2019	42.42851	-70.57642
Boston Harbor Improvement	MBDS	3874	2962	6/29/2019	42.42879	-70.57728
Boston Harbor Improvement	MBDS	3948	3018	6/29/2019	42.42856	-70.57625
Boston Harbor Improvement	MBDS	3948	3018	6/29/2019	42.42856	-70.57625
Boston Harbor Improvement	MBDS	4441	3395	6/29/2019	42.42863	-70.57588
Boston Harbor Improvement	MBDS	2356	1801	6/29/2019	42.42914	-70.57599
Boston Harbor Improvement	MBDS	4381	3350	6/29/2019	42.42868	-70.57598
Boston Harbor Improvement	MBDS	4018	3072	6/29/2019	42.42845	-70.57632
Boston Harbor Improvement	MBDS	3913	2991	6/30/2019	42.42863	-70.57540
Boston Harbor Improvement	MBDS	4018	3072	6/30/2019	42.42845	-70.57632
Boston Harbor Improvement	MBDS	3830	2928	6/30/2019	42.42879	-70.57535
Boston Harbor Improvement	MBDS	4237	3239	6/30/2019	42.42883	-70.57600
Boston Harbor Improvement	MBDS	3661	2799	6/30/2019	42.42931	-70.57631
Boston Harbor Improvement	MBDS	3950	3020	6/30/2019	42.42853	-70.57580
Boston Harbor Improvement	MBDS	3950	3020	6/30/2019	42.42853	-70.57580
Boston Harbor Improvement	MBDS	4395	3361	7/1/2019	42.42893	-70.57616
Boston Harbor Improvement	MBDS	4441	3395	7/1/2019	42.42824	-70.57606
Boston Harbor Improvement	MBDS	3718	2843	7/1/2019	42.42852	-70.57586
Boston Harbor Improvement	MBDS	3987	3048	7/1/2019	42.42874	-70.57635
Boston Harbor Improvement	MBDS	4326	3307	7/1/2019	42.42882	-70.57663
Boston Harbor Improvement	MBDS	3987	3048	7/1/2019	42.42874	-70.57635
Boston Harbor Improvement	MBDS	4384	3352	7/1/2019	42.42863	-70.57597
Boston Harbor Improvement	MBDS	3849	2943	7/1/2019	42.42885	-70.57680
Boston Harbor Improvement	MBDS	3701	2830	7/2/2019	42.42869	-70.57641
Boston Harbor Improvement	MBDS	4180	3196	7/2/2019	42.42852	-70.57570
Boston Harbor Improvement	MBDS	4180	3196	7/2/2019	42.42852	-70.57570
Boston Harbor Improvement	MBDS	4268	3263	7/2/2019	42.42879	-70.57656
Boston Harbor Improvement	MBDS	3449	2637	7/2/2019	42.42883	-70.57638
Boston Harbor Improvement	MBDS	3324	2541	7/2/2019	42.42881	-70.57614
Boston Harbor Improvement	MBDS	4154	3176	7/2/2019	42.44168	-70.59590
Boston Harbor Improvement	MBDS	4154	3176	7/2/2019	42.44168	-70.59590
Boston Harbor Improvement	MBDS	3252	2486	7/2/2019	42.44168	-70.59614
Boston Harbor Improvement	MBDS	4365	3337	7/3/2019	42.44152	-70.59569
Boston Harbor Improvement	MBDS	3641	2784	7/3/2019	42.44177	-70.59509
Boston Harbor Improvement	MBDS	3933	3007	7/3/2019	42.44191	-70.59502
Boston Harbor Improvement	MBDS	3274	2503	7/3/2019	42.44158	-70.59619
Boston Harbor Improvement	MBDS	3933	3007	7/3/2019	42.44191	-70.59502
Boston Harbor Improvement	MBDS	2165	1655	7/3/2019	42.44181	-70.59557
Boston Harbor Improvement	MBDS	4179	3195	7/3/2019	42.44213	-70.59483
Boston Harbor Improvement	MBDS	4545	3475	7/3/2019	42.44189	-70.59492
Boston Harbor Improvement	MBDS	4033	3083	7/3/2019	42.44229	-70.59405
Boston Harbor Improvement	MBDS	3320	2539	7/4/2019	42.44235	-70.59401
Boston Harbor Improvement	MBDS	3666	2803	7/4/2019	42.44273	-70.59375
Boston Harbor Improvement	MBDS	4033	3083	7/4/2019	42.44229	-70.59405
Boston Harbor Improvement	MBDS	4417	3377	7/4/2019	42.44217	-70.59175
Boston Harbor Improvement	MBDS	3993	3053	7/4/2019	42.44259	-70.59283
Boston Harbor Improvement	MBDS	3230	2469	7/4/2019	42.44214	-70.59361
Boston Harbor Improvement	MBDS	3857	2949	7/4/2019	42.44274	-70.59193
Boston Harbor Improvement	MBDS	3993	3053	7/4/2019	42.44259	-70.59283
Boston Harbor Improvement	MBDS	4191	3204	7/4/2019	42.44306	-70.59230
Boston Harbor Improvement	MBDS	3288	2514	7/4/2019	42.44256	-70.59299
Boston Harbor Improvement	MBDS	4009	3065	7/4/2019	42.44276	-70.59167
Boston Harbor Improvement	MBDS	3000	2293	7/5/2019	42.44224	-70.59365
Boston Harbor Improvement	MBDS	4009	3065	7/5/2019	42.44276	-70.59167
Boston Harbor Improvement	MBDS	4316	3299	7/5/2019	42.44242	-70.59256
Boston Harbor Improvement	MBDS	3833	2930	7/5/2019	42.44309	-70.59104
Boston Harbor Improvement	MBDS	2382	1821	7/5/2019	42.44282	-70.59137
Boston Harbor Improvement	MBDS	3829	2928	7/5/2019	42.44326	-70.59067
Boston Harbor Improvement	MBDS	2936	2245	7/5/2019	42.44296	-70.59149
Boston Harbor Improvement	MBDS	3829	2928	7/5/2019	42.44326	-70.59067
Boston Harbor Improvement	MBDS	4384	3351	7/5/2019	42.44292	-70.58995
Boston Harbor Improvement	MBDS	3254	2488	7/5/2019	42.44326	-70.59054
Boston Harbor Improvement	MBDS	5025	3842	7/6/2019	42.44301	-70.59059
Boston Harbor Improvement	MBDS	4155	3177	7/6/2019	42.44321	-70.59032
Boston Harbor Improvement	MBDS	4155	3177	7/6/2019	42.44321	-70.59032
Boston Harbor Improvement	MBDS	4499	3440	7/6/2019	42.44385	-70.58814
Boston Harbor Improvement	MBDS	3124	2389	7/6/2019	42.44326	-70.58987
Boston Harbor Improvement	MBDS	3720	2844	7/6/2019	42.44365	-70.58853
Boston Harbor Improvement	MBDS	3892	2976	7/6/2019	42.44346	-70.58894
Boston Harbor Improvement	MBDS	3892	2976	7/6/2019	42.44346	-70.58894
Boston Harbor Improvement	MBDS	2293	1753	7/6/2019	42.44342	-70.58941
Boston Harbor Improvement	MBDS	3174	2427	7/7/2019	42.44346	-70.58874
Boston Harbor Improvement	MBDS	4182	3197	7/7/2019	42.44403	-70.58788
Boston Harbor Improvement	MBDS	4066	3109	7/7/2019	42.44418	-70.58745

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3929	3004	7/7/2019	42.44384	-70.58819
Boston Harbor Improvement	MBDS	3929	3004	7/7/2019	42.44384	-70.58819
Boston Harbor Improvement	MBDS	4323	3305	7/7/2019	42.44430	-70.58758
Boston Harbor Improvement	MBDS	3096	2367	7/7/2019	42.44389	-70.58768
Boston Harbor Improvement	MBDS	3910	2989	7/7/2019	42.44463	-70.58561
Boston Harbor Improvement	MBDS	3902	2984	7/8/2019	42.44428	-70.58722
Boston Harbor Improvement	MBDS	3002	2295	7/8/2019	42.44417	-70.58701
Boston Harbor Improvement	MBDS	3902	2984	7/8/2019	42.44428	-70.58722
Boston Harbor Improvement	MBDS	3000	2293	7/8/2019	42.44450	-70.58711
Boston Harbor Improvement	MBDS	4354	3329	7/8/2019	42.44383	-70.58774
Boston Harbor Improvement	MBDS	3955	3024	7/8/2019	42.44429	-70.58589
Boston Harbor Improvement	MBDS	4449	3401	7/8/2019	42.44424	-70.58633
Boston Harbor Improvement	MBDS	3955	3024	7/9/2019	42.44429	-70.58589
Boston Harbor Improvement	MBDS	4237	3240	7/9/2019	42.44470	-70.58582
Boston Harbor Improvement	MBDS	3316	2535	7/9/2019	42.44450	-70.58611
Boston Harbor Improvement	MBDS	2325	1778	7/9/2019	42.44472	-70.58548
Boston Harbor Improvement	MBDS	2325	1778	7/9/2019	42.44472	-70.58548
Boston Harbor Improvement	MBDS	3923	2999	7/9/2019	42.44455	-70.58543
Boston Harbor Improvement	MBDS	4402	3366	7/9/2019	42.44446	-70.58606
Boston Harbor Improvement	MBDS	3910	2989	7/9/2019	42.44455	-70.58543
Boston Harbor Improvement	MBDS	4346	3323	7/9/2019	42.44496	-70.58461
Boston Harbor Improvement	MBDS	3025	2313	7/9/2019	42.44466	-70.58530
Boston Harbor Improvement	MBDS	3487	2666	7/9/2019	42.44474	-70.58504
Boston Harbor Improvement	MBDS	4002	3059	7/9/2019	42.44509	-70.58421
Boston Harbor Improvement	MBDS	4002	3059	7/9/2019	42.44509	-70.58421
Boston Harbor Improvement	MBDS	3094	2366	7/10/2019	42.44504	-70.58388
Boston Harbor Improvement	MBDS	4432	3389	7/10/2019	42.44504	-70.58335
Boston Harbor Improvement	MBDS	3258	2491	7/10/2019	42.44487	-70.58385
Boston Harbor Improvement	MBDS	3942	3014	7/10/2019	42.44512	-70.58333
Boston Harbor Improvement	MBDS	3942	3014	7/10/2019	42.44512	-70.58333
Boston Harbor Improvement	MBDS	3926	3001	7/10/2019	42.44559	-70.58239
Boston Harbor Improvement	MBDS	3047	2330	7/10/2019	42.44539	-70.58269
Boston Harbor Improvement	MBDS	4204	3214	7/10/2019	42.44544	-70.58279
Boston Harbor Improvement	MBDS	3928	3003	7/11/2019	42.44548	-70.58278
Boston Harbor Improvement	MBDS	3928	3003	7/11/2019	42.44548	-70.58278
Boston Harbor Improvement	MBDS	4386	3353	7/11/2019	42.44542	-70.58308
Boston Harbor Improvement	MBDS	2239	1712	7/11/2019	42.44584	-70.58179
Boston Harbor Improvement	MBDS	3917	2995	7/11/2019	42.44595	-70.58117
Boston Harbor Improvement	MBDS	3351	2562	7/11/2019	42.44603	-70.58145
Boston Harbor Improvement	MBDS	3936	3010	7/11/2019	42.44644	-70.58213
Boston Harbor Improvement	MBDS	3936	3010	7/11/2019	42.44644	-70.58213
Boston Harbor Improvement	MBDS	4156	3178	7/11/2019	42.44596	-70.58195
Boston Harbor Improvement	MBDS	4241	3242	7/11/2019	42.44584	-70.58150
Boston Harbor Improvement	MBDS	3121	2386	7/11/2019	42.44619	-70.58003
Boston Harbor Improvement	MBDS	4102	3136	7/12/2019	42.44650	-70.58039
Boston Harbor Improvement	MBDS	4102	3136	7/12/2019	42.44650	-70.58039
Boston Harbor Improvement	MBDS	4077	3117	7/12/2019	42.44616	-70.58054
Boston Harbor Improvement	MBDS	4311	3296	7/12/2019	42.44638	-70.58018
Boston Harbor Improvement	MBDS	3227	2467	7/12/2019	42.44649	-70.57964
Boston Harbor Improvement	MBDS	3291	2516	7/12/2019	42.44611	-70.58077
Boston Harbor Improvement	MBDS	4134	3161	7/12/2019	42.44664	-70.57830
Boston Harbor Improvement	MBDS	4134	3161	7/12/2019	42.44664	-70.57830
Boston Harbor Improvement	MBDS	4267	3263	7/13/2019	42.44635	-70.57921
Boston Harbor Improvement	MBDS	3764	2878	7/13/2019	42.44664	-70.57889
Boston Harbor Improvement	MBDS	3764	2878	7/13/2019	42.44664	-70.57889
Boston Harbor Improvement	MBDS	4197	3209	7/13/2019	42.44665	-70.57887
Boston Harbor Improvement	MBDS	2351	1798	7/13/2019	42.44685	-70.57830
Boston Harbor Improvement	MBDS	4268	3263	7/13/2019	42.44677	-70.57833
Boston Harbor Improvement	MBDS	3033	2319	7/13/2019	42.44667	-70.57783
Boston Harbor Improvement	MBDS	3966	3032	7/13/2019	42.44733	-70.57874
Boston Harbor Improvement	MBDS	3966	3032	7/13/2019	42.44733	-70.57874
Boston Harbor Improvement	MBDS	4309	3294	7/14/2019	42.44685	-70.57829
Boston Harbor Improvement	MBDS	4146	3170	7/14/2019	42.44697	-70.57703
Boston Harbor Improvement	MBDS	2980	2278	7/14/2019	42.44687	-70.57774
Boston Harbor Improvement	MBDS	4119	3149	7/14/2019	42.44703	-70.57797
Boston Harbor Improvement	MBDS	4119	3149	7/14/2019	42.44703	-70.57797
Boston Harbor Improvement	MBDS	3628	2774	7/14/2019	42.44690	-70.57753
Boston Harbor Improvement	MBDS	4595	3513	7/14/2019	42.44696	-70.57779
Boston Harbor Improvement	MBDS	4053	3098	7/15/2019	42.44036	-70.60090
Boston Harbor Improvement	MBDS	2820	2156	7/15/2019	42.44053	-70.60174
Boston Harbor Improvement	MBDS	3049	2331	7/15/2019	42.44055	-70.60053
Boston Harbor Improvement	MBDS	3913	2992	7/15/2019	42.44011	-70.60160
Boston Harbor Improvement	MBDS	3913	2992	7/15/2019	42.44011	-70.60160
Boston Harbor Improvement	MBDS	4164	3184	7/15/2019	42.44058	-70.60116
Boston Harbor Improvement	MBDS	4376	3346	7/15/2019	42.44060	-70.60032
Boston Harbor Improvement	MBDS	3791	2898	7/15/2019	42.44085	-70.59976
Boston Harbor Improvement	MBDS	2400	1835	7/15/2019	42.44103	-70.60035
Boston Harbor Improvement	MBDS	4253	3251	7/16/2019	42.44063	-70.60053
Boston Harbor Improvement	MBDS	4448	3401	7/16/2019	42.44108	-70.60041
Boston Harbor Improvement	MBDS	2354	1799	7/16/2019	42.44212	-70.59597
Boston Harbor Improvement	MBDS	4088	3126	7/16/2019	42.44138	-70.59882
Boston Harbor Improvement	MBDS	4108	3140	7/16/2019	42.44138	-70.59882
Boston Harbor Improvement	MBDS	2258	1727	7/16/2019	42.44107	-70.59885

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4268	3263	7/16/2019	42.44105	-70.59888
Boston Harbor Improvement	MBDS	4522	3457	7/16/2019	42.44167	-70.59744
Boston Harbor Improvement	MBDS	3689	2821	7/16/2019	42.44101	-70.59913
Boston Harbor Improvement	MBDS	4187	3201	7/17/2019	42.44137	-70.59756
Boston Harbor Improvement	MBDS	2279	1742	7/17/2019	42.44153	-70.59794
Boston Harbor Improvement	MBDS	4187	3201	7/17/2019	42.44137	-70.59756
Boston Harbor Improvement	MBDS	3280	2508	7/17/2019	42.44136	-70.59802
Boston Harbor Improvement	MBDS	4353	3328	7/17/2019	42.44155	-70.59836
Boston Harbor Improvement	MBDS	4135	3162	7/17/2019	42.43382	-70.58121
Boston Harbor Improvement	MBDS	2243	1715	7/17/2019	42.44176	-70.59639
Boston Harbor Improvement	MBDS	2423	1853	7/18/2019	42.44179	-70.59666
Boston Harbor Improvement	MBDS	4063	3107	7/18/2019	42.44141	-70.59755
Boston Harbor Improvement	MBDS	4283	3275	7/18/2019	42.44177	-70.59684
Boston Harbor Improvement	MBDS	4063	3107	7/18/2019	42.44141	-70.59755
Boston Harbor Improvement	MBDS	4341	3319	7/18/2019	42.44216	-70.59548
Boston Harbor Improvement	MBDS	2216	1694	7/18/2019	42.44202	-70.59595
Boston Harbor Improvement	MBDS	3197	2445	7/18/2019	42.44205	-70.59605
Boston Harbor Improvement	MBDS	3689	2820	7/19/2019	42.44230	-70.59569
Boston Harbor Improvement	MBDS	4146	3170	7/19/2019	42.44233	-70.59623
Boston Harbor Improvement	MBDS	4331	3312	7/19/2019	42.44259	-70.59463
Boston Harbor Improvement	MBDS	2743	2097	7/19/2019	42.44250	-70.59409
Boston Harbor Improvement	MBDS	3718	2842	7/19/2019	42.44215	-70.59553
Boston Harbor Improvement	MBDS	4331	3312	7/19/2019	42.44259	-70.59463
Boston Harbor Improvement	MBDS	3838	2934	7/19/2019	42.44264	-70.59390
Boston Harbor Improvement	MBDS	2531	1935	7/19/2019	42.44225	-70.59462
Boston Harbor Improvement	MBDS	4403	3366	7/19/2019	42.44276	-70.59320
Boston Harbor Improvement	MBDS	4515	3452	7/19/2019	42.44278	-70.59292
Boston Harbor Improvement	MBDS	3437	2627	7/20/2019	42.44290	-70.59322
Boston Harbor Improvement	MBDS	4515	3452	7/20/2019	42.44278	-70.59292
Boston Harbor Improvement	MBDS	4438	3393	7/20/2019	42.44292	-70.59306
Boston Harbor Improvement	MBDS	3518	2690	7/20/2019	42.44291	-70.59287
Boston Harbor Improvement	MBDS	3344	2557	7/20/2019	42.44318	-70.59230
Boston Harbor Improvement	MBDS	3891	2975	7/20/2019	42.44312	-70.59180
Boston Harbor Improvement	MBDS	4043	3091	7/20/2019	42.44324	-70.59193
Boston Harbor Improvement	MBDS	3635	2779	7/20/2019	42.44339	-70.59179
Boston Harbor Improvement	MBDS	4043	3091	7/20/2019	42.44324	-70.59193
Boston Harbor Improvement	MBDS	2405	1839	7/20/2019	42.44306	-70.59223
Boston Harbor Improvement	MBDS	4404	3367	7/20/2019	42.44353	-70.59089
Boston Harbor Improvement	MBDS	4416	3376	7/21/2019	42.44343	-70.59113
Boston Harbor Improvement	MBDS	4266	3262	7/21/2019	42.44368	-70.59081
Boston Harbor Improvement	MBDS	4266	3262	7/21/2019	42.44368	-70.59081
Boston Harbor Improvement	MBDS	3675	2810	7/21/2019	42.44305	-70.59197
Boston Harbor Improvement	MBDS	4391	3357	7/21/2019	42.44366	-70.59090
Boston Harbor Improvement	MBDS	3469	2652	7/21/2019	42.44390	-70.59021
Boston Harbor Improvement	MBDS	3432	2624	7/21/2019	42.44403	-70.58917
Boston Harbor Improvement	MBDS	4237	3239	7/21/2019	42.44375	-70.58974
Boston Harbor Improvement	MBDS	4294	3283	7/22/2019	42.44396	-70.58950
Boston Harbor Improvement	MBDS	3660	2798	7/22/2019	42.44384	-70.58948
Boston Harbor Improvement	MBDS	4294	3283	7/22/2019	42.44396	-70.58950
Boston Harbor Improvement	MBDS	4197	3209	7/22/2019	42.44439	-70.58827
Boston Harbor Improvement	MBDS	2698	2063	7/22/2019	42.44417	-70.58837
Boston Harbor Improvement	MBDS	3846	2941	7/22/2019	42.44438	-70.58785
Boston Harbor Improvement	MBDS	4166	3185	7/22/2019	42.44416	-70.58873
Boston Harbor Improvement	MBDS	3737	2857	7/22/2019	42.44442	-70.58881
Boston Harbor Improvement	MBDS	4166	3185	7/22/2019	42.44416	-70.58873
Boston Harbor Improvement	MBDS	4331	3311	7/22/2019	42.44453	-70.58763
Boston Harbor Improvement	MBDS	3281	2508	7/23/2019	42.44483	-70.58784
Boston Harbor Improvement	MBDS	3873	2961	7/23/2019	42.44455	-70.58761
Boston Harbor Improvement	MBDS	4151	3173	7/23/2019	42.44481	-70.58821
Boston Harbor Improvement	MBDS	4264	3260	7/23/2019	42.44437	-70.58838
Boston Harbor Improvement	MBDS	4150	3173	7/23/2019	42.44481	-70.58821
Boston Harbor Improvement	MBDS	3190	2439	7/23/2019	42.44463	-70.58739
Boston Harbor Improvement	MBDS	3611	2761	7/24/2019	42.44503	-70.58606
Boston Harbor Improvement	MBDS	3316	2535	7/24/2019	42.44486	-70.58624
Boston Harbor Improvement	MBDS	3735	2855	7/24/2019	42.44484	-70.58673
Boston Harbor Improvement	MBDS	4305	3291	7/24/2019	42.44526	-70.58680
Boston Harbor Improvement	MBDS	4297	3285	7/24/2019	42.44513	-70.58585
Boston Harbor Improvement	MBDS	3263	2495	7/24/2019	42.44505	-70.58557
Boston Harbor Improvement	MBDS	4297	3285	7/24/2019	42.44513	-70.58585
Boston Harbor Improvement	MBDS	3728	2850	7/24/2019	42.44539	-70.58469
Boston Harbor Improvement	MBDS	3768	2881	7/25/2019	42.44530	-70.58533
Boston Harbor Improvement	MBDS	4436	3391	7/25/2019	42.44550	-70.58479
Boston Harbor Improvement	MBDS	4322	3304	7/25/2019	42.44545	-70.58416
Boston Harbor Improvement	MBDS	2379	1819	7/25/2019	42.44546	-70.58430
Boston Harbor Improvement	MBDS	3736	2856	7/25/2019	42.44105	-70.59555
Boston Harbor Improvement	MBDS	4322	3304	7/25/2019	42.44545	-70.58416
Boston Harbor Improvement	MBDS	4610	3524	7/25/2019	42.44555	-70.58419
Boston Harbor Improvement	MBDS	3655	2794	7/25/2019	42.44533	-70.58506
Boston Harbor Improvement	MBDS	3232	2471	7/26/2019	42.44629	-70.58120
Boston Harbor Improvement	MBDS	4141	3166	7/26/2019	42.44592	-70.58295
Boston Harbor Improvement	MBDS	3882	2968	7/26/2019	42.44597	-70.58278
Boston Harbor Improvement	MBDS	4401	3365	7/26/2019	42.44593	-70.58287
Boston Harbor Improvement	MBDS	4141	3166	7/26/2019	42.44592	-70.58295

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	2477	1894	7/26/2019	42.44590	-70.58292
Boston Harbor Improvement	MBDS	3763	2877	7/26/2019	42.44609	-70.58217
Boston Harbor Improvement	MBDS	4265	3260	7/26/2019	42.44644	-70.58162
Boston Harbor Improvement	MBDS	3632	2777	7/26/2019	42.44647	-70.58176
Boston Harbor Improvement	MBDS	4265	3260	7/26/2019	42.44644	-70.58162
Boston Harbor Improvement	MBDS	3716	2841	7/27/2019	42.44566	-70.58332
Boston Harbor Improvement	MBDS	4381	3350	7/27/2019	42.44656	-70.58135
Boston Harbor Improvement	MBDS	3647	2789	7/27/2019	42.44648	-70.58060
Boston Harbor Improvement	MBDS	4174	3191	7/27/2019	42.44638	-70.58098
Boston Harbor Improvement	MBDS	2494	1907	7/27/2019	42.44649	-70.58106
Boston Harbor Improvement	MBDS	3680	2814	7/27/2019	42.44646	-70.58057
Boston Harbor Improvement	MBDS	4174	3191	7/27/2019	42.44638	-70.58098
Boston Harbor Improvement	MBDS	4440	3395	7/27/2019	42.44662	-70.58027
Boston Harbor Improvement	MBDS	4339	3317	7/27/2019	42.44705	-70.58018
Boston Harbor Improvement	MBDS	3759	2874	7/27/2019	42.44694	-70.58001
Boston Harbor Improvement	MBDS	4339	3317	7/27/2019	42.44705	-70.58018
Boston Harbor Improvement	MBDS	4298	3286	7/28/2019	42.44714	-70.57968
Boston Harbor Improvement	MBDS	3685	2817	7/28/2019	42.44667	-70.57994
Boston Harbor Improvement	MBDS	4184	3199	7/28/2019	42.44697	-70.57870
Boston Harbor Improvement	MBDS	4028	3079	7/28/2019	42.44674	-70.57917
Boston Harbor Improvement	MBDS	2666	2038	7/28/2019	42.44695	-70.57869
Boston Harbor Improvement	MBDS	4184	3199	7/28/2019	42.44697	-70.57870
Boston Harbor Improvement	MBDS	4453	3405	7/28/2019	42.44750	-70.57885
Boston Harbor Improvement	MBDS	3826	2925	7/28/2019	42.44761	-70.57721
Boston Harbor Improvement	MBDS	2928	2239	7/28/2019	42.44801	-70.57745
Boston Harbor Improvement	MBDS	3666	2803	7/28/2019	42.44744	-70.57766
Boston Harbor Improvement	MBDS	4347	3324	7/29/2019	42.44754	-70.57691
Boston Harbor Improvement	MBDS	3736	2856	7/29/2019	42.44767	-70.57735
Boston Harbor Improvement	MBDS	4378	3347	7/29/2019	42.44110	-70.60085
Boston Harbor Improvement	MBDS	2605	1992	7/29/2019	42.44742	-70.57786
Boston Harbor Improvement	MBDS	4606	3522	7/29/2019	42.44212	-70.59758
Boston Harbor Improvement	MBDS	4378	3347	7/29/2019	42.44110	-70.60085
Boston Harbor Improvement	MBDS	3518	2690	7/29/2019	42.44134	-70.60085
Boston Harbor Improvement	MBDS	3588	2744	7/29/2019	42.44080	-70.60146
Boston Harbor Improvement	MBDS	4374	3344	7/30/2019	42.44101	-70.60074
Boston Harbor Improvement	MBDS	4870	3723	7/30/2019	42.44136	-70.59934
Boston Harbor Improvement	MBDS	4219	3226	7/30/2019	42.44173	-70.59902
Boston Harbor Improvement	MBDS	3820	2921	7/30/2019	42.44545	-70.58896
Boston Harbor Improvement	MBDS	3191	2440	7/30/2019	42.44127	-70.59988
Boston Harbor Improvement	MBDS	4058	3102	7/30/2019	42.44167	-70.59869
Boston Harbor Improvement	MBDS	4440	3395	7/30/2019	42.44180	-70.59918
Boston Harbor Improvement	MBDS	3902	2983	7/31/2019	42.44168	-70.59784
Boston Harbor Improvement	MBDS	4290	3280	7/31/2019	42.44195	-70.59810
Boston Harbor Improvement	MBDS	2501	1912	7/31/2019	42.44184	-70.59799
Boston Harbor Improvement	MBDS	3778	2889	7/31/2019	42.44150	-70.59913
Boston Harbor Improvement	MBDS	4531	3464	7/31/2019	42.44232	-70.59701
Boston Harbor Improvement	MBDS	3900	2982	7/31/2019	42.44199	-70.59722
Boston Harbor Improvement	MBDS	4391	3357	8/1/2019	42.44217	-70.59684
Boston Harbor Improvement	MBDS	4040	3089	8/1/2019	42.44238	-70.59761
Boston Harbor Improvement	MBDS	4421	3380	8/1/2019	42.44216	-70.59729
Boston Harbor Improvement	MBDS	4082	3121	8/1/2019	42.44232	-70.59632
Boston Harbor Improvement	MBDS	3689	2820	8/1/2019	42.44218	-70.59674
Boston Harbor Improvement	MBDS	4313	3298	8/1/2019	42.44229	-70.59611
Boston Harbor Improvement	MBDS	4525	3460	8/2/2019	42.44239	-70.59662
Boston Harbor Improvement	MBDS	4486	3430	8/2/2019	42.44266	-70.59587
Boston Harbor Improvement	MBDS	4026	3078	8/2/2019	42.44301	-70.59569
Boston Harbor Improvement	MBDS	4051	3097	8/2/2019	42.44266	-70.59570
Boston Harbor Improvement	MBDS	4223	3229	8/2/2019	42.44262	-70.59534
Boston Harbor Improvement	MBDS	3400	2599	8/2/2019	42.44279	-70.59505
Boston Harbor Improvement	MBDS	4323	3305	8/3/2019	42.44325	-70.59403
Boston Harbor Improvement	MBDS	4628	3539	8/3/2019	42.44311	-70.59452
Boston Harbor Improvement	MBDS	3748	2865	8/3/2019	42.44292	-70.59421
Boston Harbor Improvement	MBDS	4016	3070	8/3/2019	42.44320	-70.59439
Boston Harbor Improvement	MBDS	3631	2776	8/3/2019	42.44331	-70.59369
Boston Harbor Improvement	MBDS	4022	3075	8/3/2019	42.44294	-70.59431
Boston Harbor Improvement	MBDS	4525	3460	8/3/2019	42.44350	-70.59278
Boston Harbor Improvement	MBDS	3795	2901	8/4/2019	42.44349	-70.59309
Boston Harbor Improvement	MBDS	3985	3047	8/4/2019	42.44366	-70.59298
Boston Harbor Improvement	MBDS	4530	3463	8/4/2019	42.44345	-70.59278
Boston Harbor Improvement	MBDS	4043	3091	8/4/2019	42.44360	-70.59297
Boston Harbor Improvement	MBDS	3524	2694	8/4/2019	42.44368	-70.59192
Boston Harbor Improvement	MBDS	2425	1854	8/5/2019	42.44397	-70.59049
Boston Harbor Improvement	MBDS	4460	3410	8/5/2019	42.44384	-70.59162
Boston Harbor Improvement	MBDS	4398	3362	8/5/2019	42.44361	-70.59165
Boston Harbor Improvement	MBDS	4234	3237	8/5/2019	42.44408	-70.59171
Boston Harbor Improvement	MBDS	3533	2701	8/5/2019	42.44425	-70.59070
Boston Harbor Improvement	MBDS	3813	2915	8/5/2019	42.44405	-70.59077
Boston Harbor Improvement	MBDS	3639	2782	8/5/2019	42.44493	-70.59075
Boston Harbor Improvement	MBDS	3624	2771	8/6/2019	42.44398	-70.59030
Boston Harbor Improvement	MBDS	2514	1922	8/6/2019	42.44427	-70.59065
Boston Harbor Improvement	MBDS	4078	3118	8/6/2019	42.44467	-70.58937
Boston Harbor Improvement	MBDS	4478	3424	8/6/2019	42.44456	-70.58867
Boston Harbor Improvement	MBDS	4545	3475	8/6/2019	42.44463	-70.58888

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3475	2657	8/6/2019	42.44462	-70.58892
Boston Harbor Improvement	MBDS	3903	2984	8/6/2019	42.44456	-70.58949
Boston Harbor Improvement	MBDS	4255	3253	8/6/2019	42.44487	-70.58823
Boston Harbor Improvement	MBDS	3411	2608	8/7/2019	42.44502	-70.58836
Boston Harbor Improvement	MBDS	4276	3269	8/7/2019	42.44510	-70.58793
Boston Harbor Improvement	MBDS	4540	3471	8/7/2019	42.44515	-70.58763
Boston Harbor Improvement	MBDS	3601	2754	8/7/2019	42.44475	-70.58927
Boston Harbor Improvement	MBDS	4199	3210	8/7/2019	42.44517	-70.58707
Boston Harbor Improvement	MBDS	3903	2984	8/7/2019	42.44540	-70.58678
Boston Harbor Improvement	MBDS	2278	1742	8/7/2019	42.44506	-70.58739
Boston Harbor Improvement	MBDS	3544	2710	8/7/2019	42.44515	-70.58710
Boston Harbor Improvement	MBDS	3622	2769	8/7/2019	42.44470	-70.58819
Boston Harbor Improvement	MBDS	4296	3284	8/8/2019	42.44560	-70.58568
Boston Harbor Improvement	MBDS	4232	3236	8/8/2019	42.44546	-70.58662
Boston Harbor Improvement	MBDS	3604	2756	8/8/2019	42.44570	-70.58553
Boston Harbor Improvement	MBDS	3593	2747	8/8/2019	42.44540	-70.58607
Boston Harbor Improvement	MBDS	3459	2645	8/8/2019	42.44569	-70.58609
Boston Harbor Improvement	MBDS	2388	1826	8/8/2019	42.44594	-70.58520
Boston Harbor Improvement	MBDS	4210	3219	8/8/2019	42.44572	-70.58488
Boston Harbor Improvement	MBDS	3798	2904	8/9/2019	42.44603	-70.58422
Boston Harbor Improvement	MBDS	4397	3362	8/9/2019	42.44581	-70.58497
Boston Harbor Improvement	MBDS	4227	3232	8/9/2019	42.44579	-70.58514
Boston Harbor Improvement	MBDS	3996	3055	8/9/2019	42.44619	-70.58340
Boston Harbor Improvement	MBDS	3426	2620	8/9/2019	42.44625	-70.58296
Boston Harbor Improvement	MBDS	3498	2674	8/9/2019	42.44625	-70.58345
Boston Harbor Improvement	MBDS	4607	3522	8/10/2019	42.44590	-70.58426
Boston Harbor Improvement	MBDS	4331	3312	8/10/2019	42.44603	-70.58388
Boston Harbor Improvement	MBDS	4368	3340	8/10/2019	42.44646	-70.58255
Boston Harbor Improvement	MBDS	3744	2863	8/10/2019	42.44680	-70.58311
Boston Harbor Improvement	MBDS	3725	2848	8/10/2019	42.44644	-70.58344
Boston Harbor Improvement	MBDS	3327	2543	8/10/2019	42.44659	-70.58212
Boston Harbor Improvement	MBDS	4162	3182	8/10/2019	42.44661	-70.58239
Boston Harbor Improvement	MBDS	4285	3276	8/10/2019	42.44694	-70.58190
Boston Harbor Improvement	MBDS	3633	2778	8/11/2019	42.44644	-70.58058
Boston Harbor Improvement	MBDS	4315	3299	8/11/2019	42.44690	-70.58179
Boston Harbor Improvement	MBDS	1765	1349	8/11/2019	42.44665	-70.58161
Boston Harbor Improvement	MBDS	3992	3052	8/11/2019	42.44690	-70.58057
Boston Harbor Improvement	MBDS	4544	3474	8/11/2019	42.44690	-70.58111
Boston Harbor Improvement	MBDS	4722	3610	8/11/2019	42.44730	-70.58038
Boston Harbor Improvement	MBDS	3686	2818	8/11/2019	42.44716	-70.58058
Boston Harbor Improvement	MBDS	3428	2621	8/12/2019	42.44698	-70.58030
Boston Harbor Improvement	MBDS	4338	3317	8/12/2019	42.44790	-70.57900
Boston Harbor Improvement	MBDS	4353	3328	8/12/2019	42.44741	-70.57946
Boston Harbor Improvement	MBDS	3857	2949	8/12/2019	42.44770	-70.57925
Boston Harbor Improvement	MBDS	4506	3445	8/12/2019	42.44778	-70.57877
Boston Harbor Improvement	MBDS	4539	3470	8/12/2019	42.44768	-70.57765
Boston Harbor Improvement	MBDS	4451	3403	8/12/2019	42.44771	-70.57914
Boston Harbor Improvement	MBDS	3617	2765	8/13/2019	42.44763	-70.57889
Boston Harbor Improvement	MBDS	4477	3423	8/13/2019	42.44785	-70.57841
Boston Harbor Improvement	MBDS	3651	2791	8/13/2019	42.44796	-70.57845
Boston Harbor Improvement	MBDS	4386	3353	8/13/2019	42.44775	-70.57807
Boston Harbor Improvement	MBDS	3821	2921	8/13/2019	42.44188	-70.60027
Boston Harbor Improvement	MBDS	4074	3115	8/13/2019	42.44190	-70.60018
Boston Harbor Improvement	MBDS	2561	1958	8/13/2019	42.44206	-70.59959
Boston Harbor Improvement	MBDS	3658	2797	8/14/2019	42.44251	-70.59779
Boston Harbor Improvement	MBDS	4210	3219	8/14/2019	42.44175	-70.60018
Boston Harbor Improvement	MBDS	3350	2561	8/14/2019	42.44231	-70.59901
Boston Harbor Improvement	MBDS	3515	2688	8/14/2019	42.44211	-70.59864
Boston Harbor Improvement	MBDS	4140	3165	8/15/2019	42.44241	-70.59876
Boston Harbor Improvement	MBDS	2421	1851	8/15/2019	42.44216	-70.59886
Boston Harbor Improvement	MBDS	3663	2801	8/15/2019	42.44253	-70.59864
Boston Harbor Improvement	MBDS	4164	3184	8/15/2019	42.44228	-70.59825
Boston Harbor Improvement	MBDS	4582	3503	8/15/2019	42.44263	-70.59791
Boston Harbor Improvement	MBDS	4489	3432	8/15/2019	42.44268	-70.59767
Boston Harbor Improvement	MBDS	3625	2771	8/16/2019	42.44261	-70.59814
Boston Harbor Improvement	MBDS	3422	2616	8/16/2019	42.44273	-70.59770
Boston Harbor Improvement	MBDS	4415	3376	8/16/2019	42.44285	-70.59694
Boston Harbor Improvement	MBDS	4501	3441	8/16/2019	42.44291	-70.59651
Boston Harbor Improvement	MBDS	3296	2520	8/16/2019	42.44290	-70.59595
Boston Harbor Improvement	MBDS	3737	2857	8/16/2019	42.44311	-70.59714
Boston Harbor Improvement	MBDS	2629	2010	8/16/2019	42.44315	-70.59626
Boston Harbor Improvement	MBDS	4356	3330	8/16/2019	42.44331	-70.59590
Boston Harbor Improvement	MBDS	4608	3523	8/16/2019	42.44307	-70.59613
Boston Harbor Improvement	MBDS	3938	3011	8/17/2019	42.44303	-70.59767
Boston Harbor Improvement	MBDS	3681	2814	8/17/2019	42.44295	-70.59574
Boston Harbor Improvement	MBDS	4398	3363	8/17/2019	42.44277	-70.59656
Boston Harbor Improvement	MBDS	3220	2462	8/17/2019	42.44363	-70.59459
Boston Harbor Improvement	MBDS	4420	3380	8/17/2019	42.44335	-70.59438
Boston Harbor Improvement	MBDS	4133	3160	8/17/2019	42.43386	-70.58094
Boston Harbor Improvement	MBDS	3398	2598	8/18/2019	42.43384	-70.58100
Boston Harbor Improvement	MBDS	3722	2846	8/18/2019	42.43429	-70.58125
Boston Harbor Improvement	MBDS	4312	3297	8/18/2019	42.44311	-70.59425
Boston Harbor Improvement	MBDS	4589	3509	8/18/2019	42.43379	-70.58143

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3796	2902	8/18/2019	42.44351	-70.59410
Boston Harbor Improvement	MBDS	2539	1941	8/19/2019	42.44468	-70.59058
Boston Harbor Improvement	MBDS	3710	2837	8/19/2019	42.43418	-70.58101
Boston Harbor Improvement	MBDS	4238	3240	8/19/2019	42.44422	-70.59095
Boston Harbor Improvement	MBDS	4008	3064	8/19/2019	42.44502	-70.59025
Boston Harbor Improvement	MBDS	4175	3192	8/19/2019	42.43380	-70.58136
Boston Harbor Improvement	MBDS	4188	3202	8/19/2019	42.44424	-70.59137
Boston Harbor Improvement	MBDS	3427	2620	8/19/2019	42.44507	-70.59023
Boston Harbor Improvement	MBDS	4528	3462	8/20/2019	42.44508	-70.58929
Boston Harbor Improvement	MBDS	3534	2702	8/20/2019	42.44494	-70.58984
Boston Harbor Improvement	MBDS	3722	2846	8/20/2019	42.44445	-70.59024
Boston Harbor Improvement	MBDS	2540	1942	8/20/2019	42.44463	-70.59004
Boston Harbor Improvement	MBDS	3790	2897	8/20/2019	42.44506	-70.58921
Boston Harbor Improvement	MBDS	4397	3361	8/20/2019	42.44499	-70.58981
Boston Harbor Improvement	MBDS	4544	3474	8/20/2019	42.44546	-70.58811
Boston Harbor Improvement	MBDS	3860	2951	8/20/2019	42.44524	-70.58829
Boston Harbor Improvement	MBDS	3774	2885	8/20/2019	42.44548	-70.58826
Boston Harbor Improvement	MBDS	4291	3281	8/20/2019	42.44516	-70.58878
Boston Harbor Improvement	MBDS	3854	2947	8/21/2019	42.44570	-70.58733
Boston Harbor Improvement	MBDS	4405	3368	8/21/2019	42.44555	-70.58748
Boston Harbor Improvement	MBDS	3790	2897	8/21/2019	42.44576	-70.58675
Boston Harbor Improvement	MBDS	3653	2793	8/21/2019	42.44553	-70.58710
Boston Harbor Improvement	MBDS	4231	3235	8/21/2019	42.44557	-70.58756
Boston Harbor Improvement	MBDS	4447	3400	8/21/2019	42.44590	-70.58590
Boston Harbor Improvement	MBDS	3491	2669	8/21/2019	42.44560	-70.58737
Boston Harbor Improvement	MBDS	4356	3330	8/21/2019	42.44576	-70.58647
Boston Harbor Improvement	MBDS	3807	2910	8/22/2019	42.44607	-70.58550
Boston Harbor Improvement	MBDS	3679	2813	8/22/2019	42.44562	-70.58699
Boston Harbor Improvement	MBDS	4307	3293	8/22/2019	42.44645	-70.58439
Boston Harbor Improvement	MBDS	4348	3324	8/22/2019	42.44609	-70.58555
Boston Harbor Improvement	MBDS	4323	3305	8/22/2019	42.44582	-70.58569
Boston Harbor Improvement	MBDS	3735	2856	8/22/2019	42.44652	-70.58468
Boston Harbor Improvement	MBDS	4425	3383	8/22/2019	42.44588	-70.58573
Boston Harbor Improvement	MBDS	4112	3144	8/22/2019	42.44652	-70.58417
Boston Harbor Improvement	MBDS	4104	3138	8/22/2019	42.44676	-70.58362
Boston Harbor Improvement	MBDS	2474	1892	8/22/2019	42.44654	-70.58353
Boston Harbor Improvement	MBDS	3732	2853	8/23/2019	42.44615	-70.58477
Boston Harbor Improvement	MBDS	3545	2710	8/23/2019	42.44621	-70.58569
Boston Harbor Improvement	MBDS	4436	3392	8/23/2019	42.44672	-70.58334
Boston Harbor Improvement	MBDS	4464	3413	8/23/2019	42.44695	-70.58302
Boston Harbor Improvement	MBDS	4059	3104	8/23/2019	42.44671	-70.58345
Boston Harbor Improvement	MBDS	3783	2892	8/23/2019	42.44693	-70.58275
Boston Harbor Improvement	MBDS	3604	2755	8/23/2019	42.44705	-70.58222
Boston Harbor Improvement	MBDS	3827	2926	8/23/2019	42.44709	-70.58217
Boston Harbor Improvement	MBDS	4750	3631	8/24/2019	42.43381	-70.58081
Boston Harbor Improvement	MBDS	4051	3098	8/24/2019	42.44712	-70.58255
Boston Harbor Improvement	MBDS	2395	1831	8/24/2019	42.44724	-70.58203
Boston Harbor Improvement	MBDS	4221	3228	8/24/2019	42.44727	-70.58155
Boston Harbor Improvement	MBDS	3762	2876	8/24/2019	42.44713	-70.58216
Boston Harbor Improvement	MBDS	3453	2640	8/24/2019	42.44743	-70.58023
Boston Harbor Improvement	MBDS	4546	3476	8/24/2019	42.44763	-70.58100
Boston Harbor Improvement	MBDS	4123	3152	8/24/2019	42.44786	-70.58182
Boston Harbor Improvement	MBDS	3464	2648	8/24/2019	42.44730	-70.58192
Boston Harbor Improvement	MBDS	3781	2891	8/25/2019	42.44554	-70.58913
Boston Harbor Improvement	MBDS	3632	2777	8/25/2019	42.44769	-70.58003
Boston Harbor Improvement	MBDS	3486	2665	8/25/2019	42.44687	-70.58260
Boston Harbor Improvement	MBDS	3664	2802	8/25/2019	42.44763	-70.58071
Boston Harbor Improvement	MBDS	4627	3537	8/25/2019	42.44773	-70.58034
Boston Harbor Improvement	MBDS	3872	2961	8/25/2019	42.44504	-70.59110
Boston Harbor Improvement	MBDS	4312	3297	8/26/2019	42.44531	-70.59007
Boston Harbor Improvement	MBDS	3639	2783	8/26/2019	42.44535	-70.58987
Boston Harbor Improvement	MBDS	3563	2724	8/26/2019	42.44551	-70.59040
Boston Harbor Improvement	MBDS	3781	2891	8/26/2019	42.44517	-70.58943
Boston Harbor Improvement	MBDS	4595	3513	8/26/2019	42.44530	-70.58959
Boston Harbor Improvement	MBDS	4275	3268	8/26/2019	42.44550	-70.58930
Boston Harbor Improvement	MBDS	4224	3229	8/26/2019	42.44548	-70.59028
Boston Harbor Improvement	MBDS	3120	2385	8/26/2019	42.44540	-70.58950
Boston Harbor Improvement	MBDS	3738	2858	8/27/2019	42.44569	-70.58789
Boston Harbor Improvement	MBDS	3500	2676	8/27/2019	42.44580	-70.58790
Boston Harbor Improvement	MBDS	4141	3166	8/27/2019	42.44580	-70.58860
Boston Harbor Improvement	MBDS	4425	3383	8/27/2019	42.44558	-70.58993
Boston Harbor Improvement	MBDS	3473	2656	8/27/2019	42.44560	-70.58860
Boston Harbor Improvement	MBDS	3912	2991	8/27/2019	42.44617	-70.58707
Boston Harbor Improvement	MBDS	3387	2589	8/27/2019	42.44590	-70.58770
Boston Harbor Improvement	MBDS	4277	3270	8/27/2019	42.44610	-70.58710
Boston Harbor Improvement	MBDS	4494	3436	8/27/2019	42.44638	-70.58740
Boston Harbor Improvement	MBDS	3572	2731	8/28/2019	42.44630	-70.58630
Boston Harbor Improvement	MBDS	4347	3323	8/28/2019	42.44642	-70.58634
Boston Harbor Improvement	MBDS	3885	2970	8/28/2019	42.44640	-70.58590
Boston Harbor Improvement	MBDS	3615	2763	8/28/2019	42.44670	-70.58590
Boston Harbor Improvement	MBDS	4497	3438	8/28/2019	42.44644	-70.58626
Boston Harbor Improvement	MBDS	3566	2726	8/28/2019	42.44630	-70.58650
Boston Harbor Improvement	MBDS	4225	3230	8/28/2019	42.44694	-70.58477

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4001	3059	8/29/2019	42.44710	-70.58400
Boston Harbor Improvement	MBDS	4658	3562	8/29/2019	42.44668	-70.58515
Boston Harbor Improvement	MBDS	3706	2833	8/29/2019	42.44690	-70.58540
Boston Harbor Improvement	MBDS	3663	2800	8/29/2019	42.44690	-70.58430
Boston Harbor Improvement	MBDS	4065	3108	8/29/2019	42.44690	-70.58403
Boston Harbor Improvement	MBDS	4246	3246	8/29/2019	42.44720	-70.58330
Boston Harbor Improvement	MBDS	4614	3528	8/29/2019	42.44728	-70.58378
Boston Harbor Improvement	MBDS	3500	2676	8/29/2019	42.44680	-70.58480
Boston Harbor Improvement	MBDS	4322	3304	8/30/2019	42.44767	-70.58238
Boston Harbor Improvement	MBDS	4852	3710	8/30/2019	42.44782	-70.58244
Boston Harbor Improvement	MBDS	4411	3372	8/30/2019	42.44770	-70.58240
Boston Harbor Improvement	MBDS	3828	2927	8/30/2019	42.44710	-70.58330
Boston Harbor Improvement	MBDS	3475	2657	8/30/2019	42.44250	-70.58780
Boston Harbor Improvement	MBDS	4225	3230	8/30/2019	42.44769	-70.58179
Boston Harbor Improvement	MBDS	4391	3357	8/30/2019	42.44790	-70.58110
Boston Harbor Improvement	MBDS	4373	3344	8/31/2019	42.44762	-70.58133
Boston Harbor Improvement	MBDS	3858	2950	8/31/2019	42.44788	-70.58197
Boston Harbor Improvement	MBDS	4352	3327	8/31/2019	42.44753	-70.58134
Boston Harbor Improvement	MBDS	4543	3473	8/31/2019	42.44740	-70.57810
Boston Harbor Improvement	MBDS	4533	3466	8/31/2019	42.44774	-70.58003
Boston Harbor Improvement	MBDS	4399	3363	8/31/2019	42.44718	-70.58034
Boston Harbor Improvement	MBDS	3875	2962	8/31/2019	42.44788	-70.57906
Boston Harbor Improvement	MBDS	3718	2842	9/1/2019	42.44800	-70.57970
Boston Harbor Improvement	MBDS	4735	3620	9/1/2019	42.44549	-70.58972
Boston Harbor Improvement	MBDS	4099	3134	9/1/2019	42.44560	-70.59020
Boston Harbor Improvement	MBDS	4294	3283	9/1/2019	42.44563	-70.59037
Boston Harbor Improvement	MBDS	3773	2884	9/1/2019	42.44630	-70.58890
Boston Harbor Improvement	MBDS	3903	2984	9/1/2019	42.44605	-70.58965
Boston Harbor Improvement	MBDS	4795	3666	9/1/2019	42.44654	-70.58881
Boston Harbor Improvement	MBDS	4457	3407	9/2/2019	42.44600	-70.58950
Boston Harbor Improvement	MBDS	4215	3223	9/2/2019	42.44618	-70.58901
Boston Harbor Improvement	MBDS	4461	3411	9/2/2019	42.44600	-70.58850
Boston Harbor Improvement	MBDS	3814	2916	9/3/2019	42.44671	-70.58708
Boston Harbor Improvement	MBDS	2513	1921	9/3/2019	42.43420	-70.58020
Boston Harbor Improvement	MBDS	4123	3152	9/3/2019	42.44620	-70.58810
Boston Harbor Improvement	MBDS	3884	2970	9/3/2019	42.44634	-70.58786
Boston Harbor Improvement	MBDS	4435	3391	9/4/2019	42.44630	-70.58810
Boston Harbor Improvement	MBDS	4035	3085	9/4/2019	42.44632	-70.58786
Boston Harbor Improvement	MBDS	642	490	9/4/2019	42.43560	-70.60310
Boston Harbor Improvement	MBDS	4502	3442	9/4/2019	42.44680	-70.58660
Boston Harbor Improvement	MBDS	3788	2896	9/5/2019	42.44682	-70.58637
Boston Harbor Improvement	MBDS	2576	1969	9/5/2019	42.44710	-70.58690
Boston Harbor Improvement	MBDS	4489	3432	9/5/2019	42.44690	-70.58660
Boston Harbor Improvement	MBDS	3558	2720	9/5/2019	42.44763	-70.58504
Boston Harbor Improvement	MBDS	4321	3304	9/6/2019	42.44700	-70.58580
Boston Harbor Improvement	MBDS	3178	2430	9/6/2019	42.44690	-70.58670
Boston Harbor Improvement	MBDS	2048	1566	9/9/2019	42.44690	-70.58570
Boston Harbor Improvement	MBDS	3862	2953	9/9/2019	42.44680	-70.58590
Boston Harbor Improvement	MBDS	3746	2864	9/9/2019	42.44780	-70.58364
Boston Harbor Improvement	MBDS	4330	3311	9/10/2019	42.44710	-70.58510
Boston Harbor Improvement	MBDS	3385	2588	9/10/2019	42.43380	-70.58120
Boston Harbor Improvement	MBDS	3757	2873	9/10/2019	42.44739	-70.58471
Boston Harbor Improvement	MBDS	2518	1925	9/10/2019	42.44750	-70.58470
Boston Harbor Improvement	MBDS	3868	2958	9/11/2019	42.44750	-70.58420
Boston Harbor Improvement	MBDS	3805	2909	9/11/2019	42.44741	-70.58382
Boston Harbor Improvement	MBDS	4388	3355	9/11/2019	42.44770	-70.58380
Boston Harbor Improvement	MBDS	3738	2858	9/12/2019	42.44810	-70.58240
Boston Harbor Improvement	MBDS	3436	2627	9/12/2019	42.44750	-70.58310
Boston Harbor Improvement	MBDS	4221	3227	9/12/2019	42.44780	-70.58290
Boston Harbor Improvement	MBDS	3338	2552	9/13/2019	42.44810	-70.58170
Boston Harbor Improvement	MBDS	3976	3040	9/13/2019	42.44790	-70.58390
Boston Harbor Improvement	MBDS	4709	3600	9/13/2019	42.44801	-70.58254
Boston Harbor Improvement	MBDS	2280	1743	9/13/2019	42.44790	-70.58240
Boston Harbor Improvement	MBDS	4355	3329	9/14/2019	42.44799	-70.58186
Boston Harbor Improvement	MBDS	3492	2670	9/14/2019	42.44850	-70.58030
Boston Harbor Improvement	MBDS	3958	3026	9/14/2019	42.44826	-70.58173
Boston Harbor Improvement	MBDS	4722	3611	9/14/2019	42.44844	-70.58188
Boston Harbor Improvement	MBDS	4311	3296	9/14/2019	42.44796	-70.58222
Boston Harbor Improvement	MBDS	3873	2961	9/14/2019	42.44654	-70.58819
Boston Harbor Improvement	MBDS	3816	2917	9/14/2019	42.44615	-70.59064
Boston Harbor Improvement	MBDS	4607	3522	9/15/2019	42.44632	-70.59046
Boston Harbor Improvement	MBDS	4412	3373	9/15/2019	42.44555	-70.59056
Boston Harbor Improvement	MBDS	3330	2546	9/15/2019	42.44600	-70.59050
Boston Harbor Improvement	MBDS	3531	2700	9/15/2019	42.44640	-70.58970
Boston Harbor Improvement	MBDS	3968	3033	9/15/2019	42.44632	-70.58946
Boston Harbor Improvement	MBDS	4814	3681	9/15/2019	42.44610	-70.58961
Boston Harbor Improvement	MBDS	3868	2957	9/16/2019	42.44600	-70.58990
Boston Harbor Improvement	MBDS	4262	3258	9/16/2019	42.44600	-70.59056
Boston Harbor Improvement	MBDS	3956	3024	9/16/2019	42.44700	-70.58849
Boston Harbor Improvement	MBDS	2176	1664	9/16/2019	42.44650	-70.58940
Boston Harbor Improvement	MBDS	4643	3550	9/16/2019	42.44660	-70.58903
Boston Harbor Improvement	MBDS	3769	2881	9/16/2019	42.44670	-70.58860
Boston Harbor Improvement	MBDS	3773	2884	9/16/2019	42.44644	-70.58873

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3990	3051	9/17/2019	42.44675	-70.58798
Boston Harbor Improvement	MBDS	4157	3178	9/17/2019	42.44680	-70.58800
Boston Harbor Improvement	MBDS	4692	3587	9/17/2019	42.44716	-70.58709
Boston Harbor Improvement	MBDS	3522	2693	9/17/2019	42.44690	-70.58800
Boston Harbor Improvement	MBDS	3165	2419	9/17/2019	42.44660	-70.58750
Boston Harbor Improvement	MBDS	3955	3024	9/17/2019	42.44720	-70.58721
Boston Harbor Improvement	MBDS	3811	2914	9/18/2019	42.44743	-70.58709
Boston Harbor Improvement	MBDS	4133	3160	9/18/2019	42.44680	-70.58740
Boston Harbor Improvement	MBDS	4404	3367	9/18/2019	42.44754	-70.58693
Boston Harbor Improvement	MBDS	4702	3595	9/18/2019	42.44721	-70.58712
Boston Harbor Improvement	MBDS	3554	2717	9/18/2019	42.44738	-70.58586
Boston Harbor Improvement	MBDS	3644	2786	9/18/2019	42.44710	-70.58630
Boston Harbor Improvement	MBDS	4202	3212	9/19/2019	42.44772	-70.58540
Boston Harbor Improvement	MBDS	4122	3152	9/19/2019	42.44740	-70.58590
Boston Harbor Improvement	MBDS	4038	3087	9/19/2019	42.44755	-70.58599
Boston Harbor Improvement	MBDS	3641	2784	9/19/2019	42.44780	-70.58480
Boston Harbor Improvement	MBDS	3356	2566	9/19/2019	42.44790	-70.58476
Boston Harbor Improvement	MBDS	4446	3399	9/19/2019	42.44790	-70.58460
Boston Harbor Improvement	MBDS	3634	2778	9/20/2019	42.44790	-70.58460
Boston Harbor Improvement	MBDS	4358	3332	9/20/2019	42.44805	-70.58358
Boston Harbor Improvement	MBDS	4216	3223	9/20/2019	42.44819	-70.58294
Boston Harbor Improvement	MBDS	4321	3304	9/20/2019	42.44810	-70.58380
Boston Harbor Improvement	MBDS	3684	2817	9/20/2019	42.44813	-70.58335
Boston Harbor Improvement	MBDS	3603	2754	9/20/2019	42.44830	-70.58310
Boston Harbor Improvement	MBDS	2143	1638	9/20/2019	42.44880	-70.58300
Boston Harbor Improvement	MBDS	4368	3340	9/21/2019	42.44870	-70.58160
Boston Harbor Improvement	MBDS	4219	3226	9/21/2019	42.44866	-70.58234
Boston Harbor Improvement	MBDS	3669	2805	9/21/2019	42.44870	-70.58170
Boston Harbor Improvement	MBDS	3735	2855	9/21/2019	42.44840	-70.58410
Boston Harbor Improvement	MBDS	3792	2899	9/21/2019	42.44640	-70.59070
Boston Harbor Improvement	MBDS	4197	3209	9/21/2019	42.44650	-70.59060
Boston Harbor Improvement	MBDS	4357	3331	9/21/2019	42.44670	-70.59055
Boston Harbor Improvement	MBDS	4319	3302	9/21/2019	42.44604	-70.59159
Boston Harbor Improvement	MBDS	2209	1689	9/21/2019	42.44670	-70.59100
Boston Harbor Improvement	MBDS	3826	2925	9/22/2019	42.44740	-70.58922
Boston Harbor Improvement	MBDS	3496	2673	9/22/2019	42.44660	-70.59030
Boston Harbor Improvement	MBDS	4557	3484	9/22/2019	42.44680	-70.59003
Boston Harbor Improvement	MBDS	4187	3201	9/22/2019	42.44683	-70.59021
Boston Harbor Improvement	MBDS	4429	3387	9/22/2019	42.44770	-70.58750
Boston Harbor Improvement	MBDS	4001	3059	9/22/2019	42.44761	-70.58683
Boston Harbor Improvement	MBDS	3570	2730	9/22/2019	42.44690	-70.58920
Boston Harbor Improvement	MBDS	4556	3483	9/23/2019	42.44696	-70.58844
Boston Harbor Improvement	MBDS	3973	3038	9/23/2019	42.44690	-70.58920
Boston Harbor Improvement	MBDS	4306	3292	9/23/2019	42.44692	-70.58930
Boston Harbor Improvement	MBDS	2084	1593	9/23/2019	42.43390	-70.58080
Boston Harbor Improvement	MBDS	5148	3936	9/23/2019	42.44699	-70.58876
Boston Harbor Improvement	MBDS	4264	3260	9/23/2019	42.44740	-70.58830
Boston Harbor Improvement	MBDS	3752	2869	9/23/2019	42.44736	-70.58768
Boston Harbor Improvement	MBDS	4063	3106	9/24/2019	42.44777	-70.58728
Boston Harbor Improvement	MBDS	3617	2765	9/24/2019	42.44710	-70.58800
Boston Harbor Improvement	MBDS	4743	3627	9/24/2019	42.44780	-70.58703
Boston Harbor Improvement	MBDS	3424	2618	9/24/2019	42.43400	-70.58080
Boston Harbor Improvement	MBDS	3900	2982	9/24/2019	42.44757	-70.58712
Boston Harbor Improvement	MBDS	4067	3109	9/24/2019	42.44750	-70.58700
Boston Harbor Improvement	MBDS	4018	3072	9/25/2019	42.44746	-70.58751
Boston Harbor Improvement	MBDS	1917	1466	9/25/2019	42.44840	-70.58750
Boston Harbor Improvement	MBDS	3369	2576	9/25/2019	42.44770	-70.58700
Boston Harbor Improvement	MBDS	4307	3293	9/25/2019	42.44794	-70.58644
Boston Harbor Improvement	MBDS	4006	3062	9/25/2019	42.44798	-70.58599
Boston Harbor Improvement	MBDS	4327	3308	9/26/2019	42.44810	-70.58550
Boston Harbor Improvement	MBDS	3890	2974	9/26/2019	42.43385	-70.58049
Boston Harbor Improvement	MBDS	4126	3155	9/26/2019	42.44817	-70.58522
Boston Harbor Improvement	MBDS	3355	2565	9/26/2019	42.44840	-70.58460
Boston Harbor Improvement	MBDS	3989	3050	9/26/2019	42.44829	-70.58493
Boston Harbor Improvement	MBDS	2255	1724	9/26/2019	42.44830	-70.58480
Boston Harbor Improvement	MBDS	3557	2720	9/26/2019	42.44832	-70.58476
Boston Harbor Improvement	MBDS	4651	3556	9/27/2019	42.44851	-70.58343
Boston Harbor Improvement	MBDS	3615	2764	9/27/2019	42.44860	-70.58330
Boston Harbor Improvement	MBDS	3374	2580	9/27/2019	42.43420	-70.58070
Boston Harbor Improvement	MBDS	3773	2884	9/27/2019	42.44853	-70.58418
Boston Harbor Improvement	MBDS	4024	3076	9/27/2019	42.44858	-70.58377
Boston Harbor Improvement	MBDS	3585	2741	9/27/2019	42.44860	-70.58430
Boston Harbor Improvement	MBDS	4580	3502	9/27/2019	42.44689	-70.59110
Boston Harbor Improvement	MBDS	3775	2886	9/28/2019	42.44689	-70.59080
Boston Harbor Improvement	MBDS	2447	1871	9/28/2019	42.43390	-70.58110
Boston Harbor Improvement	MBDS	4244	3245	9/28/2019	42.44694	-70.59060
Boston Harbor Improvement	MBDS	4251	3250	9/28/2019	42.44734	-70.58916
Boston Harbor Improvement	MBDS	4442	3396	9/28/2019	42.44704	-70.59090
Boston Harbor Improvement	MBDS	3343	2556	9/29/2019	42.44680	-70.59060
Boston Harbor Improvement	MBDS	4359	3333	9/29/2019	42.44709	-70.59019
Boston Harbor Improvement	MBDS	4372	3343	9/29/2019	42.44713	-70.59051
Boston Harbor Improvement	MBDS	3229	2469	9/29/2019	42.44700	-70.59060
Boston Harbor Improvement	MBDS	4027	3079	9/29/2019	42.44717	-70.59050

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4794	3665	9/29/2019	42.44730	-70.58970
Boston Harbor Improvement	MBDS	4404	3367	9/29/2019	42.43423	-70.58105
Boston Harbor Improvement	MBDS	4057	3102	9/30/2019	42.44725	-70.59001
Boston Harbor Improvement	MBDS	4474	3421	9/30/2019	42.44736	-70.58989
Boston Harbor Improvement	MBDS	2185	1671	9/30/2019	42.44740	-70.58930
Boston Harbor Improvement	MBDS	3447	2636	9/30/2019	42.44730	-70.58920
Boston Harbor Improvement	MBDS	4083	3121	9/30/2019	42.44813	-70.58712
Boston Harbor Improvement	MBDS	3762	2877	10/1/2019	42.44772	-70.58840
Boston Harbor Improvement	MBDS	3866	2956	10/1/2019	42.44800	-70.58810
Boston Harbor Improvement	MBDS	4321	3304	10/1/2019	42.44825	-70.58828
Boston Harbor Improvement	MBDS	4316	3300	10/1/2019	42.44773	-70.58831
Boston Harbor Improvement	MBDS	3279	2507	10/1/2019	42.44784	-70.58698
Boston Harbor Improvement	MBDS	3770	2883	10/1/2019	42.44794	-70.58719
Boston Harbor Improvement	MBDS	4581	3502	10/2/2019	42.44812	-70.58726
Boston Harbor Improvement	MBDS	4115	3146	10/2/2019	42.44821	-70.58706
Boston Harbor Improvement	MBDS	4269	3264	10/2/2019	42.44800	-70.58850
Boston Harbor Improvement	MBDS	3824	2924	10/2/2019	42.44846	-70.58635
Boston Harbor Improvement	MBDS	4527	3461	10/2/2019	42.44876	-70.58565
Boston Harbor Improvement	MBDS	3437	2628	10/2/2019	42.44860	-70.58620
Boston Harbor Improvement	MBDS	4283	3275	10/3/2019	42.44765	-70.58838
Boston Harbor Improvement	MBDS	3944	3016	10/3/2019	42.44858	-70.58548
Boston Harbor Improvement	MBDS	4796	3667	10/3/2019	42.44851	-70.58594
Boston Harbor Improvement	MBDS	3357	2567	10/3/2019	42.44804	-70.58734
Boston Harbor Improvement	MBDS	4026	3078	10/3/2019	42.44820	-70.58560
Boston Harbor Improvement	MBDS	4338	3317	10/3/2019	42.44848	-70.58565
Boston Harbor Improvement	MBDS	3775	2886	10/4/2019	42.44864	-70.58542
Boston Harbor Improvement	MBDS	3510	2684	10/4/2019	42.44724	-70.59174
Boston Harbor Improvement	MBDS	4098	3133	10/4/2019	42.44758	-70.59194
Boston Harbor Improvement	MBDS	4317	3301	10/4/2019	42.44745	-70.59119
Boston Harbor Improvement	MBDS	4420	3379	10/4/2019	42.44741	-70.58853
Boston Harbor Improvement	MBDS	3841	2936	10/4/2019	42.44767	-70.59082
Boston Harbor Improvement	MBDS	3429	2622	10/4/2019	42.44710	-70.59277
Boston Harbor Improvement	MBDS	3440	2630	10/4/2019	42.44749	-70.59090
Boston Harbor Improvement	MBDS	4018	3072	10/5/2019	42.44745	-70.59101
Boston Harbor Improvement	MBDS	3874	2962	10/5/2019	42.44700	-70.59110
Boston Harbor Improvement	MBDS	4302	3289	10/5/2019	42.44789	-70.58967
Boston Harbor Improvement	MBDS	3994	3054	10/5/2019	42.44775	-70.59007
Boston Harbor Improvement	MBDS	3628	2774	10/5/2019	42.44763	-70.59073
Boston Harbor Improvement	MBDS	4343	3320	10/5/2019	42.44785	-70.59016
Boston Harbor Improvement	MBDS	4565	3490	10/5/2019	42.44776	-70.58936
Boston Harbor Improvement	MBDS	4391	3357	10/5/2019	42.44780	-70.58960
Boston Harbor Improvement	MBDS	3975	3039	10/6/2019	42.44791	-70.58921
Boston Harbor Improvement	MBDS	3463	2647	10/6/2019	42.44810	-70.58930
Boston Harbor Improvement	MBDS	3884	2970	10/6/2019	42.44817	-70.58897
Boston Harbor Improvement	MBDS	3733	2854	10/6/2019	42.44797	-70.59174
Boston Harbor Improvement	MBDS	3753	2870	10/6/2019	42.44847	-70.58730
Boston Harbor Improvement	MBDS	4192	3205	10/6/2019	42.44846	-70.58778
Boston Harbor Improvement	MBDS	4261	3258	10/7/2019	42.44849	-70.58762
Boston Harbor Improvement	MBDS	3913	2992	10/7/2019	42.44848	-70.58622
Boston Harbor Improvement	MBDS	3582	2739	10/7/2019	42.44870	-70.58630
Boston Harbor Improvement	MBDS	3903	2984	10/7/2019	42.44761	-70.59166
Boston Harbor Improvement	MBDS	4095	3131	10/7/2019	42.44982	-70.58492
Boston Harbor Improvement	MBDS	4219	3225	10/8/2019	42.44871	-70.58714
Boston Harbor Improvement	MBDS	3601	2753	10/8/2019	42.44871	-70.58804
Boston Harbor Improvement	MBDS	3785	2894	10/8/2019	42.44741	-70.59216
Boston Harbor Improvement	MBDS	3530	2699	10/8/2019	42.44740	-70.59200
Boston Harbor Improvement	MBDS	3753	2870	10/8/2019	42.44883	-70.58670
Boston Harbor Improvement	MBDS	4213	3221	10/8/2019	42.44770	-70.59193
Boston Harbor Improvement	MBDS	3875	2963	10/9/2019	42.43571	-70.57709
Boston Harbor Improvement	MBDS	2870	2194	10/14/2019	42.44757	-70.59218
Boston Harbor Improvement	MBDS	4374	3344	10/14/2019	42.44782	-70.59119
Boston Harbor Improvement	MBDS	4178	3194	10/14/2019	42.44847	-70.58838
Boston Harbor Improvement	MBDS	3637	2780	10/14/2019	42.44780	-70.59040
Boston Harbor Improvement	MBDS	4308	3293	10/14/2019	42.44846	-70.58849
Boston Harbor Improvement	MBDS	4029	3080	10/14/2019	42.43360	-70.58160
Boston Harbor Improvement	MBDS	3987	3048	10/15/2019	42.44810	-70.59074
Boston Harbor Improvement	MBDS	4283	3275	10/15/2019	42.44813	-70.59019
Boston Harbor Improvement	MBDS	3687	2819	10/15/2019	42.44800	-70.59030
Boston Harbor Improvement	MBDS	4188	3202	10/15/2019	42.44836	-70.58987
Boston Harbor Improvement	MBDS	3452	2639	10/15/2019	42.44852	-70.58906
Boston Harbor Improvement	MBDS	3749	2866	10/15/2019	42.44881	-70.59041
Boston Harbor Improvement	MBDS	4219	3226	10/15/2019	42.44848	-70.58996
Boston Harbor Improvement	MBDS	4130	3158	10/16/2019	42.44823	-70.58816
Boston Harbor Improvement	MBDS	4256	3254	10/16/2019	42.44803	-70.58836
Boston Harbor Improvement	MBDS	3824	2924	10/16/2019	42.44830	-70.58810
Boston Harbor Improvement	MBDS	3928	3003	10/16/2019	42.44798	-70.59085
Boston Harbor Improvement	MBDS	3448	2636	10/16/2019	42.44776	-70.59120
Boston Harbor Improvement	MBDS	3411	2608	10/16/2019	42.44860	-70.58810
Boston Harbor Improvement	MBDS	4361	3334	10/18/2019	42.44855	-70.58802
Boston Harbor Improvement	MBDS	4092	3128	10/18/2019	42.44904	-70.58703
Boston Harbor Improvement	MBDS	4003	3060	10/18/2019	42.44860	-70.58850
Boston Harbor Improvement	MBDS	3570	2730	10/18/2019	42.44830	-70.58940
Boston Harbor Improvement	MBDS	3636	2780	10/18/2019	42.44784	-70.59246

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4131	3159	10/18/2019	42.44776	-70.59318
Boston Harbor Improvement	MBDS	3741	2860	10/19/2019	42.44794	-70.59255
Boston Harbor Improvement	MBDS	4068	3110	10/19/2019	42.44801	-70.59219
Boston Harbor Improvement	MBDS	4551	3480	10/19/2019	42.43370	-70.58090
Boston Harbor Improvement	MBDS	3540	2707	10/19/2019	42.44819	-70.59174
Boston Harbor Improvement	MBDS	4010	3066	10/19/2019	42.44839	-70.59100
Boston Harbor Improvement	MBDS	4087	3125	10/20/2019	42.44812	-70.59143
Boston Harbor Improvement	MBDS	4085	3123	10/20/2019	42.44832	-70.59126
Boston Harbor Improvement	MBDS	3767	2880	10/20/2019	42.43398	-70.58119
Boston Harbor Improvement	MBDS	4183	3198	10/20/2019	42.44827	-70.59150
Boston Harbor Improvement	MBDS	4098	3133	10/21/2019	42.44855	-70.59011
Boston Harbor Improvement	MBDS	4112	3144	10/21/2019	42.44810	-70.59110
Boston Harbor Improvement	MBDS	3350	2561	10/21/2019	42.44860	-70.59010
Boston Harbor Improvement	MBDS	4054	3100	10/21/2019	42.44865	-70.59041
Boston Harbor Improvement	MBDS	3601	2753	10/22/2019	42.44848	-70.59041
Boston Harbor Improvement	MBDS	3450	2638	10/22/2019	42.44800	-70.59020
Boston Harbor Improvement	MBDS	4281	3273	10/22/2019	42.44863	-70.58941
Boston Harbor Improvement	MBDS	4060	3104	10/22/2019	42.44871	-70.59010
Boston Harbor Improvement	MBDS	4149	3172	10/22/2019	42.44917	-70.58897
Boston Harbor Improvement	MBDS	3374	2579	10/22/2019	42.44871	-70.58942
Boston Harbor Improvement	MBDS	3326	2543	10/23/2019	42.44844	-70.59288
Boston Harbor Improvement	MBDS	4032	3083	10/23/2019	42.44817	-70.59305
Boston Harbor Improvement	MBDS	5020	3838	10/23/2019	42.44803	-70.59321
Boston Harbor Improvement	MBDS	3594	2747	10/23/2019	42.44846	-70.59292
Boston Harbor Improvement	MBDS	3148	2407	10/23/2019	42.44836	-70.59281
Boston Harbor Improvement	MBDS	4028	3080	10/23/2019	42.44780	-70.59237
Boston Harbor Improvement	MBDS	4106	3139	10/23/2019	42.44846	-70.59220
Boston Harbor Improvement	MBDS	4142	3167	10/24/2019	42.44900	-70.59152
Boston Harbor Improvement	MBDS	3784	2893	10/24/2019	42.44876	-70.59142
Boston Harbor Improvement	MBDS	4270	3265	10/24/2019	42.44815	-70.59099
Boston Harbor Improvement	MBDS	3380	2584	10/24/2019	42.43439	-70.58005
Boston Harbor Improvement	MBDS	4040	3089	10/25/2019	42.43449	-70.58792
Boston Harbor Improvement	MBDS	4345	3322	10/25/2019	42.43399	-70.58781
Boston Harbor Improvement	MBDS	3477	2658	10/25/2019	42.43421	-70.58780
Boston Harbor Improvement	MBDS	4801	3671	10/25/2019	42.43420	-70.58788
Boston Harbor Improvement	MBDS	4145	3169	10/25/2019	42.43455	-70.58761
Boston Harbor Improvement	MBDS	3741	2860	10/26/2019	42.43227	-70.59723
Boston Harbor Improvement	MBDS	4282	3274	10/26/2019	42.43199	-70.59737
Boston Harbor Improvement	MBDS	3946	3017	10/26/2019	42.43209	-70.59722
Boston Harbor Improvement	MBDS	3975	3039	10/27/2019	42.43218	-70.59681
Boston Harbor Improvement	MBDS	4350	3326	10/27/2019	42.43229	-70.59632
Boston Harbor Improvement	MBDS	5030	3846	10/27/2019	42.43230	-70.59494
Boston Harbor Improvement	MBDS	3615	2764	10/27/2019	42.43283	-70.59598
Boston Harbor Improvement	MBDS	4000	3059	10/27/2019	42.43324	-70.59577
Boston Harbor Improvement	MBDS	4321	3304	10/29/2019	42.43241	-70.59657
Boston Harbor Improvement	MBDS	3928	3003	10/29/2019	42.43267	-70.59567
Boston Harbor Improvement	MBDS	3645	2787	10/29/2019	42.43461	-70.58779
Boston Harbor Improvement	MBDS	4175	3192	10/29/2019	42.43460	-70.58918
Boston Harbor Improvement	MBDS	4948	3783	10/29/2019	42.43516	-70.58678
Boston Harbor Improvement	MBDS	3463	2648	10/29/2019	42.43504	-70.58778
Boston Harbor Improvement	MBDS	4225	3230	10/30/2019	42.43502	-70.58810
Boston Harbor Improvement	MBDS	4370	3341	10/30/2019	42.43620	-70.58571
Boston Harbor Improvement	MBDS	4438	3393	10/30/2019	42.43299	-70.59734
Boston Harbor Improvement	MBDS	3581	2738	10/30/2019	42.43281	-70.59696
Boston Harbor Improvement	MBDS	3227	2467	10/30/2019	42.43290	-70.59698
Boston Harbor Improvement	MBDS	3402	2601	10/30/2019	42.43294	-70.59599
Boston Harbor Improvement	MBDS	3666	2803	10/31/2019	42.43307	-70.59574
Boston Harbor Improvement	MBDS	1610	1231	10/31/2019	42.43329	-70.59540
Boston Harbor Improvement	MBDS	3989	3050	10/31/2019	42.43272	-70.59594
Boston Harbor Improvement	MBDS	4267	3263	11/1/2019	42.43326	-70.59588
Boston Harbor Improvement	MBDS	3384	2587	11/2/2019	42.43524	-70.58840
Boston Harbor Improvement	MBDS	4058	3103	11/2/2019	42.43543	-70.58770
Boston Harbor Improvement	MBDS	4890	3739	11/2/2019	42.43348	-70.59429
Boston Harbor Improvement	MBDS	4258	3256	11/2/2019	42.43509	-70.58904
Boston Harbor Improvement	MBDS	3688	2819	11/2/2019	42.43546	-70.58800
Boston Harbor Improvement	MBDS	5203	3978	11/3/2019	42.43489	-70.58963
Boston Harbor Improvement	MBDS	4263	3259	11/3/2019	42.43561	-70.58658
Boston Harbor Improvement	MBDS	3417	2613	11/4/2019	42.43549	-70.58740
Boston Harbor Improvement	MBDS	4842	3702	11/4/2019	42.43626	-70.58494
Boston Harbor Improvement	MBDS	3810	2913	11/4/2019	42.43533	-70.58757
Boston Harbor Improvement	MBDS	4895	3743	11/5/2019	42.43555	-70.58840
Boston Harbor Improvement	MBDS	3764	2878	11/5/2019	42.43595	-70.58779
Boston Harbor Improvement	MBDS	3735	2856	11/5/2019	42.43591	-70.58765
Boston Harbor Improvement	MBDS	3409	2606	11/6/2019	42.43364	-70.59789
Boston Harbor Improvement	MBDS	5015	3834	11/6/2019	42.43599	-70.58605
Boston Harbor Improvement	MBDS	3990	3051	11/6/2019	42.43555	-70.58878
Boston Harbor Improvement	MBDS	4372	3342	11/7/2019	42.43259	-70.60096
Boston Harbor Improvement	MBDS	5019	3837	11/7/2019	42.43209	-70.59728
Boston Harbor Improvement	MBDS	4008	3064	11/7/2019	42.43322	-70.59914
Boston Harbor Improvement	MBDS	3498	2675	11/8/2019	42.43368	-70.59731
Boston Harbor Improvement	MBDS	4341	3319	11/8/2019	42.43364	-70.59920
Boston Harbor Improvement	MBDS	3406	2604	11/8/2019	42.43369	-70.59966
Boston Harbor Improvement	MBDS	3884	2970	11/8/2019	42.43317	-70.60189

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3479	2660	11/8/2019	42.43328	-70.60001
Boston Harbor Improvement	MBDS	5167	3950	11/8/2019	42.43359	-70.59886
Boston Harbor Improvement	MBDS	4293	3282	11/9/2019	42.43349	-70.60013
Boston Harbor Improvement	MBDS	1721	1316	11/9/2019	42.43377	-70.60011
Boston Harbor Improvement	MBDS	3970	3035	11/9/2019	42.43394	-70.59882
Boston Harbor Improvement	MBDS	3572	2731	11/9/2019	42.43379	-70.59901
Boston Harbor Improvement	MBDS	4269	3264	11/9/2019	42.43431	-70.59985
Boston Harbor Improvement	MBDS	5025	3842	11/9/2019	42.43399	-70.59861
Boston Harbor Improvement	MBDS	4075	3116	11/9/2019	42.43637	-70.59002
Boston Harbor Improvement	MBDS	3501	2677	11/10/2019	42.43662	-70.58921
Boston Harbor Improvement	MBDS	4246	3247	11/10/2019	42.43651	-70.59012
Boston Harbor Improvement	MBDS	1631	1247	11/10/2019	42.43614	-70.59078
Boston Harbor Improvement	MBDS	4011	3067	11/10/2019	42.43671	-70.59001
Boston Harbor Improvement	MBDS	3570	2729	11/10/2019	42.43653	-70.58890
Boston Harbor Improvement	MBDS	4446	3399	11/10/2019	42.43690	-70.58929
Boston Harbor Improvement	MBDS	4868	3722	11/10/2019	42.43742	-70.58719
Boston Harbor Improvement	MBDS	3925	3001	11/11/2019	42.43655	-70.58914
Boston Harbor Improvement	MBDS	3515	2687	11/11/2019	42.43688	-70.58926
Boston Harbor Improvement	MBDS	1496	1143	11/11/2019	42.43348	-70.60211
Boston Harbor Improvement	MBDS	4395	3360	11/11/2019	42.43362	-70.60161
Boston Harbor Improvement	MBDS	3976	3039	11/11/2019	42.43371	-70.60156
Boston Harbor Improvement	MBDS	3531	2699	11/11/2019	42.43418	-70.60077
Boston Harbor Improvement	MBDS	4956	3789	11/11/2019	42.43384	-70.59993
Boston Harbor Improvement	MBDS	3559	2721	11/12/2019	42.43375	-70.60005
Boston Harbor Improvement	MBDS	4068	3110	11/12/2019	42.43376	-70.60056
Boston Harbor Improvement	MBDS	3875	2962	11/12/2019	42.43392	-70.60009
Boston Harbor Improvement	MBDS	1379	1054	11/12/2019	42.43354	-70.60043
Boston Harbor Improvement	MBDS	4299	3287	11/12/2019	42.43411	-70.59987
Boston Harbor Improvement	MBDS	3355	2565	11/12/2019	42.43486	-70.59946
Boston Harbor Improvement	MBDS	3929	3004	11/13/2019	42.43438	-70.59891
Boston Harbor Improvement	MBDS	1127	862	11/13/2019	42.43402	-70.59947
Boston Harbor Improvement	MBDS	4158	3179	11/13/2019	42.43491	-70.59960
Boston Harbor Improvement	MBDS	3681	2814	11/13/2019	42.43487	-70.59730
Boston Harbor Improvement	MBDS	5281	4038	11/13/2019	42.43519	-70.59727
Boston Harbor Improvement	MBDS	3874	2962	11/14/2019	42.43515	-70.59777
Boston Harbor Improvement	MBDS	4158	3179	11/14/2019	42.43445	-70.59835
Boston Harbor Improvement	MBDS	3472	2655	11/14/2019	42.43476	-70.59785
Boston Harbor Improvement	MBDS	3451	2639	11/14/2019	42.43507	-70.59615
Boston Harbor Improvement	MBDS	4034	3084	11/14/2019	42.43509	-70.59636
Boston Harbor Improvement	MBDS	3508	2682	11/14/2019	42.43492	-70.59608
Boston Harbor Improvement	MBDS	3767	2880	11/14/2019	42.43476	-70.59701
Boston Harbor Improvement	MBDS	5141	3931	11/15/2019	42.43496	-70.59648
Boston Harbor Improvement	MBDS	3971	3036	11/15/2019	42.43577	-70.59279
Boston Harbor Improvement	MBDS	3516	2689	11/15/2019	42.43591	-70.59257
Boston Harbor Improvement	MBDS	3850	2944	11/15/2019	42.43581	-70.59362
Boston Harbor Improvement	MBDS	4367	3339	11/15/2019	42.43629	-70.59323
Boston Harbor Improvement	MBDS	4066	3108	11/15/2019	42.43601	-70.59258
Boston Harbor Improvement	MBDS	3515	2688	11/16/2019	42.43629	-70.59106
Boston Harbor Improvement	MBDS	4845	3704	11/16/2019	42.43615	-70.59157
Boston Harbor Improvement	MBDS	3684	2816	11/16/2019	42.43624	-70.59238
Boston Harbor Improvement	MBDS	4035	3085	11/16/2019	42.43653	-70.59079
Boston Harbor Improvement	MBDS	3920	2997	11/16/2019	42.43699	-70.59268
Boston Harbor Improvement	MBDS	4268	3263	11/16/2019	42.43685	-70.58942
Boston Harbor Improvement	MBDS	3617	2765	11/16/2019	42.43716	-70.58952
Boston Harbor Improvement	MBDS	4036	3086	11/17/2019	42.43738	-70.59023
Boston Harbor Improvement	MBDS	3949	3019	11/17/2019	42.43694	-70.59028
Boston Harbor Improvement	MBDS	4203	3213	11/17/2019	42.43720	-70.58965
Boston Harbor Improvement	MBDS	3502	2678	11/17/2019	42.43810	-70.58925
Boston Harbor Improvement	MBDS	3789	2897	11/17/2019	42.43827	-70.58515
Boston Harbor Improvement	MBDS	3585	2741	11/17/2019	42.43749	-70.58896
Boston Harbor Improvement	MBDS	4241	3242	11/20/2019	42.43729	-70.58871
Boston Harbor Improvement	MBDS	4185	3199	11/20/2019	42.43729	-70.58860
Boston Harbor Improvement	MBDS	3522	2693	11/20/2019	42.43987	-70.58203
Boston Harbor Improvement	MBDS	4984	3811	11/20/2019	42.43948	-70.58138
Boston Harbor Improvement	MBDS	4174	3191	11/20/2019	42.43962	-70.57980
Boston Harbor Improvement	MBDS	4276	3269	11/20/2019	42.43936	-70.58199
Boston Harbor Improvement	MBDS	3377	2582	11/20/2019	42.43937	-70.58205
Boston Harbor Improvement	MBDS	4134	3160	11/21/2019	42.43957	-70.58104
Boston Harbor Improvement	MBDS	4787	3660	11/21/2019	42.44004	-70.57901
Boston Harbor Improvement	MBDS	2859	2186	11/21/2019	42.43980	-70.58100
Boston Harbor Improvement	MBDS	4182	3197	11/21/2019	42.43412	-70.60128
Boston Harbor Improvement	MBDS	3657	2796	11/22/2019	42.43424	-70.60093
Boston Harbor Improvement	MBDS	4036	3086	11/22/2019	42.43417	-70.60108
Boston Harbor Improvement	MBDS	4980	3808	11/22/2019	42.43535	-70.59734
Boston Harbor Improvement	MBDS	3404	2603	11/22/2019	42.43410	-70.60010
Boston Harbor Improvement	MBDS	3727	2850	11/22/2019	42.43435	-70.60013
Boston Harbor Improvement	MBDS	4125	3154	11/22/2019	42.43427	-70.60054
Boston Harbor Improvement	MBDS	4472	3419	11/23/2019	42.43445	-70.60028
Boston Harbor Improvement	MBDS	3328	2545	11/23/2019	42.43498	-70.59979
Boston Harbor Improvement	MBDS	4166	3185	11/23/2019	42.43476	-70.60196
Boston Harbor Improvement	MBDS	4673	3573	11/23/2019	42.43543	-70.60043
Boston Harbor Improvement	MBDS	3691	2822	11/23/2019	42.43574	-70.60092
Boston Harbor Improvement	MBDS	3918	2996	11/23/2019	42.43838	-70.59341

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4082	3121	11/24/2019	42.43870	-70.59288
Boston Harbor Improvement	MBDS	3561	2723	11/24/2019	42.43853	-70.59302
Boston Harbor Improvement	MBDS	3733	2854	11/24/2019	42.43850	-70.59335
Boston Harbor Improvement	MBDS	4903	3749	11/24/2019	42.44098	-70.58525
Boston Harbor Improvement	MBDS	3307	2528	11/24/2019	42.44059	-70.58610
Boston Harbor Improvement	MBDS	2348	1795	11/24/2019	42.44170	-70.58512
Boston Harbor Improvement	MBDS	3823	2923	11/25/2019	42.44079	-70.58532
Boston Harbor Improvement	MBDS	3804	2909	11/25/2019	42.44058	-70.58626
Boston Harbor Improvement	MBDS	3727	2850	11/25/2019	42.44100	-70.58462
Boston Harbor Improvement	MBDS	4528	3462	11/25/2019	42.44080	-70.58508
Boston Harbor Improvement	MBDS	4107	3140	11/26/2019	42.44049	-70.58539
Boston Harbor Improvement	MBDS	3459	2644	11/26/2019	42.44092	-70.58446
Boston Harbor Improvement	MBDS	3638	2782	11/26/2019	42.44095	-70.58441
Boston Harbor Improvement	MBDS	3918	2996	11/26/2019	42.44136	-70.58336
Boston Harbor Improvement	MBDS	3943	3015	11/26/2019	42.44112	-70.58482
Boston Harbor Improvement	MBDS	2094	1601	11/26/2019	42.43755	-70.59740
Boston Harbor Improvement	MBDS	4680	3578	11/26/2019	42.43790	-70.59666
Boston Harbor Improvement	MBDS	3480	2660	11/26/2019	42.43713	-70.59762
Boston Harbor Improvement	MBDS	2097	1604	11/27/2019	42.43730	-70.59731
Boston Harbor Improvement	MBDS	3776	2887	11/27/2019	42.43767	-70.59658
Boston Harbor Improvement	MBDS	2301	1759	11/27/2019	42.43863	-70.59391
Boston Harbor Improvement	MBDS	4319	3302	11/27/2019	42.44133	-70.58961
Boston Harbor Improvement	MBDS	5021	3839	11/27/2019	42.43357	-70.58086
Boston Harbor Improvement	MBDS	2321	1774	11/27/2019	42.44094	-70.58584
Boston Harbor Improvement	MBDS	4271	3266	11/28/2019	42.43872	-70.59331
Boston Harbor Improvement	MBDS	1261	964	11/28/2019	42.44055	-70.58768
Boston Harbor Improvement	MBDS	3261	2493	11/28/2019	42.43912	-70.59259
Boston Harbor Improvement	MBDS	3762	2876	11/28/2019	42.43896	-70.59250
Boston Harbor Improvement	MBDS	3565	2726	11/30/2019	42.44104	-70.58677
Boston Harbor Improvement	MBDS	4257	3255	11/30/2019	42.44042	-70.58768
Boston Harbor Improvement	MBDS	4635	3544	11/30/2019	42.44074	-70.58698
Boston Harbor Improvement	MBDS	3603	2754	11/30/2019	42.44122	-70.58633
Boston Harbor Improvement	MBDS	1236	945	11/30/2019	42.44093	-70.58698
Boston Harbor Improvement	MBDS	4041	3090	12/1/2019	42.44097	-70.58661
Boston Harbor Improvement	MBDS	3866	2956	12/1/2019	42.44085	-70.58634
Boston Harbor Improvement	MBDS	4486	3429	12/1/2019	42.44149	-70.58531
Boston Harbor Improvement	MBDS	4034	3084	12/1/2019	42.44156	-70.58504
Boston Harbor Improvement	MBDS	3622	2770	12/1/2019	42.44149	-70.58482
Boston Harbor Improvement	MBDS	2589	1980	12/2/2019	42.44163	-70.58468
Boston Harbor Improvement	MBDS	4274	3268	12/4/2019	42.44142	-70.58470
Boston Harbor Improvement	MBDS	3616	2765	12/4/2019	42.44231	-70.58358
Boston Harbor Improvement	MBDS	3755	2871	12/4/2019	42.44186	-70.58462
Boston Harbor Improvement	MBDS	3591	2745	12/4/2019	42.44167	-70.58490
Boston Harbor Improvement	MBDS	4170	3188	12/5/2019	42.44132	-70.58497
Boston Harbor Improvement	MBDS	4922	3763	12/5/2019	42.43757	-70.59927
Boston Harbor Improvement	MBDS	3708	2835	12/5/2019	42.43768	-70.60014
Boston Harbor Improvement	MBDS	3963	3030	12/5/2019	42.43717	-70.60061
Boston Harbor Improvement	MBDS	4354	3329	12/5/2019	42.43750	-70.60126
Boston Harbor Improvement	MBDS	3572	2731	12/5/2019	42.43779	-70.59984
Boston Harbor Improvement	MBDS	4011	3067	12/5/2019	42.43820	-70.59763
Boston Harbor Improvement	MBDS	4255	3253	12/6/2019	42.43847	-70.59713
Boston Harbor Improvement	MBDS	5366	4103	12/6/2019	42.43813	-70.59822
Boston Harbor Improvement	MBDS	2001	1530	12/6/2019	42.43675	-70.59918
Boston Harbor Improvement	MBDS	4002	3060	12/6/2019	42.43856	-70.59753
Boston Harbor Improvement	MBDS	4259	3256	12/6/2019	42.43851	-70.59753
Boston Harbor Improvement	MBDS	2135	1632	12/6/2019	42.43837	-70.59739
Boston Harbor Improvement	MBDS	4258	3255	12/7/2019	42.43842	-70.59731
Boston Harbor Improvement	MBDS	3510	2684	12/7/2019	42.43886	-70.59669
Boston Harbor Improvement	MBDS	5277	4035	12/7/2019	42.43884	-70.59354
Boston Harbor Improvement	MBDS	4491	3433	12/7/2019	42.43965	-70.59288
Boston Harbor Improvement	MBDS	4264	3260	12/7/2019	42.43938	-70.59372
Boston Harbor Improvement	MBDS	4128	3156	12/8/2019	42.43947	-70.59319
Boston Harbor Improvement	MBDS	4733	3619	12/8/2019	42.43993	-70.59198
Boston Harbor Improvement	MBDS	4432	3389	12/8/2019	42.44007	-70.59165
Boston Harbor Improvement	MBDS	3581	2738	12/8/2019	42.43977	-70.59182
Boston Harbor Improvement	MBDS	3313	2533	12/8/2019	42.43996	-70.59182
Boston Harbor Improvement	MBDS	4175	3192	12/8/2019	42.43995	-70.59230
Boston Harbor Improvement	MBDS	4369	3340	12/8/2019	42.44086	-70.58785
Boston Harbor Improvement	MBDS	4237	3239	12/9/2019	42.44091	-70.58892
Boston Harbor Improvement	MBDS	5484	4193	12/9/2019	42.44134	-70.58743
Boston Harbor Improvement	MBDS	3360	2569	12/9/2019	42.44119	-70.58890
Boston Harbor Improvement	MBDS	4323	3305	12/9/2019	42.43969	-70.58943
Boston Harbor Improvement	MBDS	4052	3098	12/9/2019	42.44192	-70.58545
Boston Harbor Improvement	MBDS	3150	2408	12/9/2019	42.44148	-70.58631
Boston Harbor Improvement	MBDS	4302	3289	12/10/2019	42.44158	-70.58498
Boston Harbor Improvement	MBDS	5189	3967	12/10/2019	42.44183	-70.58601
Boston Harbor Improvement	MBDS	4116	3147	12/10/2019	42.44210	-70.58534
Boston Harbor Improvement	MBDS	3543	2709	12/10/2019	42.44206	-70.58507
Boston Harbor Improvement	MBDS	3738	2858	12/10/2019	42.44191	-70.58595
Boston Harbor Improvement	MBDS	4281	3273	12/10/2019	42.44156	-70.58483
Boston Harbor Improvement	MBDS	3365	2573	12/11/2019	42.44222	-70.58511
Boston Harbor Improvement	MBDS	4315	3299	12/11/2019	42.44254	-70.58288
Boston Harbor Improvement	MBDS	3432	2624	12/11/2019	42.44256	-70.58307

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	5138	3928	12/11/2019	42.44279	-70.58180
Boston Harbor Improvement	MBDS	3931	3005	12/12/2019	42.44340	-70.58106
Boston Harbor Improvement	MBDS	3937	3010	12/12/2019	42.44274	-70.58331
Boston Harbor Improvement	MBDS	2338	1787	12/12/2019	42.44272	-70.58190
Boston Harbor Improvement	MBDS	4368	3339	12/12/2019	42.43404	-70.58163
Boston Harbor Improvement	MBDS	3095	2367	12/12/2019	42.44300	-70.58162
Boston Harbor Improvement	MBDS	4454	3405	12/12/2019	42.44277	-70.58223
Boston Harbor Improvement	MBDS	4113	3144	12/12/2019	42.44299	-70.58200
Boston Harbor Improvement	MBDS	4925	3765	12/13/2019	42.43387	-70.58122
Boston Harbor Improvement	MBDS	4925	3765	12/13/2019	42.43387	-70.58122
Boston Harbor Improvement	MBDS	3195	2443	12/13/2019	42.44311	-70.58167
Boston Harbor Improvement	MBDS	4046	3094	12/13/2019	42.44333	-70.58031
Boston Harbor Improvement	MBDS	4404	3367	12/13/2019	42.44410	-70.57787
Boston Harbor Improvement	MBDS	4137	3163	12/13/2019	42.44386	-70.57962
Boston Harbor Improvement	MBDS	4501	3441	12/13/2019	42.44380	-70.57976
Boston Harbor Improvement	MBDS	5120	3915	12/14/2019	42.44054	-70.59155
Boston Harbor Improvement	MBDS	4112	3144	12/14/2019	42.44013	-70.59293
Boston Harbor Improvement	MBDS	3536	2703	12/14/2019	42.44018	-70.59391
Boston Harbor Improvement	MBDS	4098	3133	12/14/2019	42.44005	-70.59341
Boston Harbor Improvement	MBDS	4080	3119	12/15/2019	42.44050	-70.58523
Boston Harbor Improvement	MBDS	4126	3155	12/15/2019	42.43992	-70.59153
Boston Harbor Improvement	MBDS	3704	2832	12/15/2019	42.44262	-70.58502
Boston Harbor Improvement	MBDS	4349	3325	12/16/2019	42.44199	-70.58632
Boston Harbor Improvement	MBDS	4195	3207	12/16/2019	42.44229	-70.58641
Boston Harbor Improvement	MBDS	4576	3499	12/16/2019	42.44259	-70.58486
Boston Harbor Improvement	MBDS	3529	2698	12/16/2019	42.44233	-70.58501
Boston Harbor Improvement	MBDS	4331	3312	12/16/2019	42.44234	-70.58478
Boston Harbor Improvement	MBDS	3757	2872	12/16/2019	42.44253	-70.58581
Boston Harbor Improvement	MBDS	4104	3138	12/16/2019	42.44236	-70.58455
Boston Harbor Improvement	MBDS	4762	3641	12/17/2019	42.44302	-70.58328
Boston Harbor Improvement	MBDS	3414	2610	12/17/2019	42.44302	-70.58329
Boston Harbor Improvement	MBDS	4128	3156	12/17/2019	42.44273	-70.58365
Boston Harbor Improvement	MBDS	4505	3444	12/17/2019	42.44286	-70.58326
Boston Harbor Improvement	MBDS	4190	3204	12/18/2019	42.44340	-70.58257
Boston Harbor Improvement	MBDS	4104	3137	12/18/2019	42.44373	-70.58090
Boston Harbor Improvement	MBDS	4257	3255	12/18/2019	42.44337	-70.58253
Boston Harbor Improvement	MBDS	3467	2651	12/18/2019	42.44325	-70.58273
Boston Harbor Improvement	MBDS	3908	2988	12/18/2019	42.44323	-70.58219
Boston Harbor Improvement	MBDS	4325	3307	12/19/2019	42.44278	-70.58254
Boston Harbor Improvement	MBDS	3513	2686	12/19/2019	42.43918	-70.59926
Boston Harbor Improvement	MBDS	3981	3043	12/19/2019	42.43861	-70.59887
Boston Harbor Improvement	MBDS	4454	3405	12/19/2019	42.43870	-70.59974
Boston Harbor Improvement	MBDS	3587	2742	12/19/2019	42.43958	-70.59908
Boston Harbor Improvement	MBDS	4097	3132	12/20/2019	42.43823	-70.59939
Boston Harbor Improvement	MBDS	4244	3245	12/20/2019	42.43962	-70.59426
Boston Harbor Improvement	MBDS	3616	2765	12/20/2019	42.44018	-70.59458
Boston Harbor Improvement	MBDS	4255	3253	12/20/2019	42.44002	-70.59459
Boston Harbor Improvement	MBDS	4439	3394	12/21/2019	42.43961	-70.59453
Boston Harbor Improvement	MBDS	3581	2738	12/21/2019	42.44036	-70.59421
Boston Harbor Improvement	MBDS	4178	3194	12/21/2019	42.44035	-70.59404
Boston Harbor Improvement	MBDS	4357	3331	12/21/2019	42.44046	-70.59407
Boston Harbor Improvement	MBDS	3730	2852	12/21/2019	42.44041	-70.59395
Boston Harbor Improvement	MBDS	4197	3209	12/22/2019	42.44048	-70.59386
Boston Harbor Improvement	MBDS	4240	3242	12/22/2019	42.44030	-70.59436
Boston Harbor Improvement	MBDS	3751	2868	12/22/2019	42.44302	-70.58554
Boston Harbor Improvement	MBDS	4103	3137	12/22/2019	42.44284	-70.58575
Boston Harbor Improvement	MBDS	4211	3219	12/23/2019	42.44213	-70.58546
Boston Harbor Improvement	MBDS	4057	3102	12/23/2019	42.44285	-70.58571
Boston Harbor Improvement	MBDS	4374	3344	12/23/2019	42.44239	-70.58611
Boston Harbor Improvement	MBDS	3792	2900	12/23/2019	42.44286	-70.58539
Boston Harbor Improvement	MBDS	3792	2900	12/23/2019	42.44286	-70.58539
Boston Harbor Improvement	MBDS	4479	3425	12/27/2019	42.44263	-70.58559
Boston Harbor Improvement	MBDS	3765	2878	12/27/2019	42.44318	-70.58497
Boston Harbor Improvement	MBDS	3765	2878	12/27/2019	42.44318	-70.58497
Boston Harbor Improvement	MBDS	4096	3132	12/27/2019	42.44284	-70.58564
Boston Harbor Improvement	MBDS	4296	3285	12/28/2019	42.44280	-70.58536
Boston Harbor Improvement	MBDS	3940	3013	12/28/2019	42.44111	-70.59374
Boston Harbor Improvement	MBDS	3940	3013	12/28/2019	42.44111	-70.59374
Boston Harbor Improvement	MBDS	4173	3190	12/28/2019	42.44058	-70.59537
Boston Harbor Improvement	MBDS	4208	3218	12/28/2019	42.44067	-70.59485
Boston Harbor Improvement	MBDS	3648	2789	12/29/2019	42.44117	-70.59306
Boston Harbor Improvement	MBDS	3648	2789	12/29/2019	42.44117	-70.59306
Boston Harbor Improvement	MBDS	4172	3190	12/29/2019	42.43988	-70.59438
Boston Harbor Improvement	MBDS	4065	3108	12/29/2019	42.44008	-70.59826
Boston Harbor Improvement	MBDS	4065	3108	12/29/2019	42.44008	-70.59826
Boston Harbor Improvement	MBDS	4208	3217	12/29/2019	42.44029	-70.59790
Boston Harbor Improvement	MBDS	4189	3202	12/29/2019	42.44042	-70.59826
Boston Harbor Improvement	MBDS	3794	2901	12/30/2019	42.44015	-70.59795
Boston Harbor Improvement	MBDS	3794	2901	12/30/2019	42.44015	-70.59795
Boston Harbor Improvement	MBDS	4173	3191	12/30/2019	42.44007	-70.59888
Boston Harbor Improvement	MBDS	4075	3116	1/1/2020	42.44470	-70.58336
Boston Harbor Improvement	MBDS	43832	33512	1/1/2020	42.44464	-70.58295
Boston Harbor Improvement	MBDS	3697	2827	1/1/2020	42.44464	-70.58295

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3829	2928	1/1/2020	42.44467	-70.58301
Boston Harbor Improvement	MBDS	4158	3179	1/2/2020	42.44463	-70.58391
Boston Harbor Improvement	MBDS	4165	3184	1/2/2020	42.44437	-70.58340
Boston Harbor Improvement	MBDS	43833	33512	1/2/2020	42.44520	-70.58137
Boston Harbor Improvement	MBDS	3790	2898	1/2/2020	42.44520	-70.58137
Boston Harbor Improvement	MBDS	4342	3320	1/2/2020	42.44519	-70.58128
Boston Harbor Improvement	MBDS	4038	3087	1/2/2020	42.44521	-70.58154
Boston Harbor Improvement	MBDS	43833	33513	1/3/2020	42.44515	-70.58138
Boston Harbor Improvement	MBDS	3547	2712	1/3/2020	42.44515	-70.58138
Boston Harbor Improvement	MBDS	4213	3221	1/3/2020	42.44471	-70.58160
Boston Harbor Improvement	MBDS	3989	3050	1/3/2020	42.44004	-70.60024
Boston Harbor Improvement	MBDS	43834	33513	1/3/2020	42.44000	-70.60021
Boston Harbor Improvement	MBDS	3620	2768	1/3/2020	42.44000	-70.60021
Boston Harbor Improvement	MBDS	4362	3335	1/4/2020	42.44009	-70.59988
Boston Harbor Improvement	MBDS	4122	3152	1/4/2020	42.44038	-70.59989
Boston Harbor Improvement	MBDS	43834	33514	1/4/2020	42.44000	-70.59987
Boston Harbor Improvement	MBDS	3742	2861	1/4/2020	42.44000	-70.59987
Boston Harbor Improvement	MBDS	4120	3150	1/4/2020	42.44015	-70.59937
Boston Harbor Improvement	MBDS	3959	3027	1/4/2020	42.44051	-70.59882
Boston Harbor Improvement	MBDS	43835	33514	1/5/2020	42.44051	-70.59930
Boston Harbor Improvement	MBDS	3736	2856	1/5/2020	42.44051	-70.59930
Boston Harbor Improvement	MBDS	4271	3265	1/5/2020	42.44029	-70.59921
Boston Harbor Improvement	MBDS	4152	3174	1/5/2020	42.43999	-70.59910
Boston Harbor Improvement	MBDS	43836	33515	1/5/2020	42.44105	-70.59649
Boston Harbor Improvement	MBDS	3551	2715	1/5/2020	42.44105	-70.59649
Boston Harbor Improvement	MBDS	4267	3262	1/6/2020	42.44136	-70.59620
Boston Harbor Improvement	MBDS	4262	3258	1/6/2020	42.44118	-70.59709
Boston Harbor Improvement	MBDS	43837	33516	1/6/2020	42.44130	-70.59667
Boston Harbor Improvement	MBDS	3670	2806	1/6/2020	42.44130	-70.59667
Boston Harbor Improvement	MBDS	2489	1903	1/6/2020	42.44168	-70.59607
Boston Harbor Improvement	MBDS	43837	33516	1/7/2020	42.44163	-70.59419
Boston Harbor Improvement	MBDS	3699	2828	1/7/2020	42.44163	-70.59419
Boston Harbor Improvement	MBDS	4315	3299	1/7/2020	42.44183	-70.59488
Boston Harbor Improvement	MBDS	4132	3159	1/7/2020	42.44178	-70.59434
Boston Harbor Improvement	MBDS	4026	3078	1/8/2020	42.44189	-70.59493
Boston Harbor Improvement	MBDS	4173	3190	1/8/2020	42.44154	-70.59492
Boston Harbor Improvement	MBDS	43839	33517	1/8/2020	42.44387	-70.58765
Boston Harbor Improvement	MBDS	3719	2843	1/8/2020	42.44387	-70.58765
Boston Harbor Improvement	MBDS	3894	2977	1/8/2020	42.44366	-70.58786
Boston Harbor Improvement	MBDS	4062	3106	1/9/2020	42.44371	-70.58727
Boston Harbor Improvement	MBDS	43840	33518	1/9/2020	42.44380	-70.58747
Boston Harbor Improvement	MBDS	3271	2501	1/9/2020	42.44380	-70.58747
Boston Harbor Improvement	MBDS	3801	2906	1/10/2020	42.44390	-70.58781
Boston Harbor Improvement	MBDS	43840	33518	1/10/2020	42.44596	-70.58094
Boston Harbor Improvement	MBDS	3770	2882	1/10/2020	42.44596	-70.58094
Boston Harbor Improvement	MBDS	4094	3130	1/10/2020	42.44593	-70.58049
Boston Harbor Improvement	MBDS	4262	3259	1/10/2020	42.44567	-70.58085
Boston Harbor Improvement	MBDS	4114	3145	1/11/2020	42.44568	-70.58153
Boston Harbor Improvement	MBDS	4222	3228	1/11/2020	42.44559	-70.57991
Boston Harbor Improvement	MBDS	43842	33519	1/11/2020	42.44067	-70.59870
Boston Harbor Improvement	MBDS	3750	2867	1/11/2020	42.44067	-70.59870
Boston Harbor Improvement	MBDS	4259	3256	1/11/2020	42.44091	-70.59910
Boston Harbor Improvement	MBDS	4149	3172	1/12/2020	42.44102	-70.59820
Boston Harbor Improvement	MBDS	4021	3074	1/12/2020	42.44105	-70.59886
Boston Harbor Improvement	MBDS	43843	33520	1/12/2020	42.44118	-70.59857
Boston Harbor Improvement	MBDS	3500	2676	1/12/2020	42.44118	-70.59857
Boston Harbor Improvement	MBDS	4130	3158	1/12/2020	42.44132	-70.59751
Boston Harbor Improvement	MBDS	4039	3088	1/13/2020	42.44126	-70.59735
Boston Harbor Improvement	MBDS	43843	33521	1/13/2020	42.44159	-70.59762
Boston Harbor Improvement	MBDS	3761	2875	1/13/2020	42.44159	-70.59762
Boston Harbor Improvement	MBDS	4171	3189	1/13/2020	42.44138	-70.59771
Boston Harbor Improvement	MBDS	4190	3204	1/14/2020	42.44145	-70.59779
Boston Harbor Improvement	MBDS	43844	33521	1/14/2020	42.44144	-70.59692
Boston Harbor Improvement	MBDS	3873	2961	1/14/2020	42.44144	-70.59692
Boston Harbor Improvement	MBDS	4400	3364	1/14/2020	42.44145	-70.59702
Boston Harbor Improvement	MBDS	4100	3135	1/14/2020	42.44175	-70.59647
Boston Harbor Improvement	MBDS	4348	3324	1/15/2020	42.44164	-70.59706
Boston Harbor Improvement	MBDS	3794	2901	1/15/2020	42.44138	-70.59667
Boston Harbor Improvement	MBDS	3794	2901	1/15/2020	42.44138	-70.59667
Boston Harbor Improvement	MBDS	4174	3191	1/15/2020	42.44228	-70.59408
Boston Harbor Improvement	MBDS	4068	3110	1/15/2020	42.44220	-70.59437
Boston Harbor Improvement	MBDS	3647	2789	1/15/2020	42.44249	-70.59424
Boston Harbor Improvement	MBDS	3647	2789	1/15/2020	42.44249	-70.59424
Boston Harbor Improvement	MBDS	4003	3061	1/16/2020	42.44239	-70.59396
Boston Harbor Improvement	MBDS	3457	2643	1/16/2020	42.43370	-70.58110
Boston Harbor Improvement	MBDS	4372	3343	1/16/2020	42.44235	-70.59488
Boston Harbor Improvement	MBDS	4078	3117	1/16/2020	42.44326	-70.58907
Boston Harbor Improvement	MBDS	3637	2781	1/17/2020	42.44186	-70.60536
Boston Harbor Improvement	MBDS	3637	2781	1/17/2020	42.44186	-70.60536
Boston Harbor Improvement	MBDS	4153	3175	1/18/2020	42.44408	-70.58889
Boston Harbor Improvement	MBDS	1840	1407	1/19/2020	42.44469	-70.58989
Boston Harbor Improvement	MBDS	4015	3070	1/24/2020	42.44411	-70.58983
Boston Harbor Improvement	MBDS	3970	3035	1/24/2020	42.44575	-70.58352

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3951	3020	1/25/2020	42.44523	-70.58370
Boston Harbor Improvement	MBDS	3523	2693	1/25/2020	42.44531	-70.58366
Boston Harbor Improvement	MBDS	4062	3106	1/26/2020	42.44547	-70.58309
Boston Harbor Improvement	MBDS	3850	2944	1/27/2020	42.44573	-70.58272
Boston Harbor Improvement	MBDS	4113	3144	1/27/2020	42.44204	-70.59761
Boston Harbor Improvement	MBDS	3661	2799	1/27/2020	42.44241	-70.59749
Boston Harbor Improvement	MBDS	3932	3006	1/28/2020	42.44160	-70.59796
Boston Harbor Improvement	MBDS	3713	2839	1/28/2020	42.44209	-70.59735
Boston Harbor Improvement	MBDS	3960	3027	1/28/2020	42.44201	-70.59721
Boston Harbor Improvement	MBDS	4298	3286	1/29/2020	42.44238	-70.59438
Boston Harbor Improvement	MBDS	3738	2858	1/29/2020	42.44281	-70.59422
Boston Harbor Improvement	MBDS	3567	2727	1/29/2020	42.44278	-70.59456
Boston Harbor Improvement	MBDS	3567	2727	1/29/2020	42.44278	-70.59456
Boston Harbor Improvement	MBDS	3964	3031	1/29/2020	42.44268	-70.59466
Boston Harbor Improvement	MBDS	4049	3096	1/29/2020	42.44288	-70.59474
Boston Harbor Improvement	MBDS	4202	3213	1/30/2020	42.44431	-70.58939
Boston Harbor Improvement	MBDS	3736	2856	1/30/2020	42.44466	-70.58861
Boston Harbor Improvement	MBDS	3868	2958	1/30/2020	42.44441	-70.58894
Boston Harbor Improvement	MBDS	4215	3223	1/30/2020	42.44428	-70.58924
Boston Harbor Improvement	MBDS	3588	2743	1/30/2020	42.44449	-70.58886
Boston Harbor Improvement	MBDS	3588	2743	1/30/2020	42.44449	-70.58886
Boston Harbor Improvement	MBDS	4106	3140	1/31/2020	42.44608	-70.58370
Boston Harbor Improvement	MBDS	4605	3521	1/31/2020	42.44571	-70.58390
Boston Harbor Improvement	MBDS	3744	2862	1/31/2020	42.44624	-70.58379
Boston Harbor Improvement	MBDS	3924	3000	1/31/2020	42.44604	-70.58355
Boston Harbor Improvement	MBDS	3625	2771	2/1/2020	42.43927	-70.57911
Boston Harbor Improvement	MBDS	4245	3246	2/1/2020	42.43891	-70.58083
Boston Harbor Improvement	MBDS	4042	3090	2/2/2020	42.43907	-70.58080
Boston Harbor Improvement	MBDS	3671	2807	2/2/2020	42.43881	-70.57961
Boston Harbor Improvement	MBDS	4031	3082	2/2/2020	42.43914	-70.58014
Boston Harbor Improvement	MBDS	4072	3113	2/2/2020	42.43951	-70.58014
Boston Harbor Improvement	MBDS	3541	2708	2/2/2020	42.43968	-70.57956
Boston Harbor Improvement	MBDS	4407	3369	2/3/2020	42.44002	-70.57986
Boston Harbor Improvement	MBDS	3515	2688	2/3/2020	42.44007	-70.57965
Boston Harbor Improvement	MBDS	4207	3216	2/3/2020	42.43959	-70.57983
Boston Harbor Improvement	MBDS	4463	3412	2/3/2020	42.43970	-70.57988
Boston Harbor Improvement	MBDS	3194	2442	2/3/2020	42.44194	-70.57223
Boston Harbor Improvement	MBDS	4104	3138	2/4/2020	42.44108	-70.57877
Boston Harbor Improvement	MBDS	4409	3371	2/4/2020	42.44053	-70.57963
Boston Harbor Improvement	MBDS	3798	2904	2/4/2020	42.44136	-70.57916
Boston Harbor Improvement	MBDS	4187	3201	2/4/2020	42.44112	-70.57923
Boston Harbor Improvement	MBDS	4272	3267	2/4/2020	42.44132	-70.57855
Boston Harbor Improvement	MBDS	4110	3142	2/5/2020	42.44206	-70.57898
Boston Harbor Improvement	MBDS	3401	2600	2/5/2020	42.44166	-70.57890
Boston Harbor Improvement	MBDS	4207	3216	2/5/2020	42.44160	-70.57941
Boston Harbor Improvement	MBDS	4029	3080	2/5/2020	42.44116	-70.57889
Boston Harbor Improvement	MBDS	4451	3403	2/6/2020	42.44264	-70.57873
Boston Harbor Improvement	MBDS	4220	3226	2/6/2020	42.44217	-70.57832
Boston Harbor Improvement	MBDS	3356	2566	2/6/2020	42.44255	-70.57828
Boston Harbor Improvement	MBDS	4039	3088	2/6/2020	42.44228	-70.57953
Boston Harbor Improvement	MBDS	3829	2928	2/6/2020	42.44251	-70.57918
Boston Harbor Improvement	MBDS	3412	2609	2/7/2020	42.44325	-70.57882
Boston Harbor Improvement	MBDS	3023	2311	2/7/2020	42.44316	-70.57920
Boston Harbor Improvement	MBDS	3814	2916	2/7/2020	42.44342	-70.57811
Boston Harbor Improvement	MBDS	4035	3085	2/8/2020	42.44358	-70.57819
Boston Harbor Improvement	MBDS	3683	2816	2/8/2020	42.43952	-70.57904
Boston Harbor Improvement	MBDS	3053	2334	2/8/2020	42.44203	-70.57811
Boston Harbor Improvement	MBDS	3379	2584	2/8/2020	42.43904	-70.58020
Boston Harbor Improvement	MBDS	3780	2890	2/9/2020	42.43943	-70.57963
Boston Harbor Improvement	MBDS	3698	2827	2/9/2020	42.43905	-70.57871
Boston Harbor Improvement	MBDS	3528	2697	2/9/2020	42.44007	-70.57900
Boston Harbor Improvement	MBDS	3790	2898	2/10/2020	42.43990	-70.57861
Boston Harbor Improvement	MBDS	3471	2654	2/10/2020	42.43397	-70.58084
Boston Harbor Improvement	MBDS	3610	2760	2/10/2020	42.44007	-70.57883
Boston Harbor Improvement	MBDS	3790	2897	2/10/2020	42.43956	-70.57820
Boston Harbor Improvement	MBDS	3857	2949	2/11/2020	42.44065	-70.57911
Boston Harbor Improvement	MBDS	3542	2708	2/11/2020	42.44057	-70.57843
Boston Harbor Improvement	MBDS	3465	2649	2/12/2020	42.44110	-70.57833
Boston Harbor Improvement	MBDS	4129	3157	2/12/2020	42.44038	-70.57840
Boston Harbor Improvement	MBDS	3490	2668	2/12/2020	42.44083	-70.57883
Boston Harbor Improvement	MBDS	3683	2816	2/13/2020	42.44141	-70.57903
Boston Harbor Improvement	MBDS	3544	2710	2/13/2020	42.44114	-70.57858
Boston Harbor Improvement	MBDS	3728	2850	2/13/2020	42.44150	-70.57794
Boston Harbor Improvement	MBDS	3989	3050	2/13/2020	42.44165	-70.57780
Boston Harbor Improvement	MBDS	4062	3106	2/13/2020	42.44127	-70.57821
Boston Harbor Improvement	MBDS	3304	2526	2/14/2020	42.44244	-70.57752
Boston Harbor Improvement	MBDS	3465	2649	2/14/2020	42.44233	-70.57750
Boston Harbor Improvement	MBDS	4153	3175	2/14/2020	42.44259	-70.57783
Boston Harbor Improvement	MBDS	4054	3099	2/15/2020	42.43804	-70.57922
Boston Harbor Improvement	MBDS	3522	2692	2/15/2020	42.44342	-70.57743
Boston Harbor Improvement	MBDS	4009	3065	2/15/2020	42.44332	-70.57731
Boston Harbor Improvement	MBDS	3560	2722	2/15/2020	42.44328	-70.57733
Boston Harbor Improvement	MBDS	3962	3029	2/15/2020	42.44313	-70.57788

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3985	3046	2/16/2020	42.43750	-70.57919
Boston Harbor Improvement	MBDS	3765	2878	2/16/2020	42.43818	-70.57873
Boston Harbor Improvement	MBDS	3435	2626	2/16/2020	42.43779	-70.57949
Boston Harbor Improvement	MBDS	4026	3078	2/16/2020	42.43760	-70.57930
Boston Harbor Improvement	MBDS	4009	3065	2/17/2020	42.43948	-70.57857
Boston Harbor Improvement	MBDS	3333	2549	2/17/2020	42.43919	-70.57861
Boston Harbor Improvement	MBDS	3985	3046	2/17/2020	42.43864	-70.57865
Boston Harbor Improvement	MBDS	4017	3071	2/17/2020	42.43882	-70.57828
Boston Harbor Improvement	MBDS	4133	3160	2/18/2020	42.43905	-70.57906
Boston Harbor Improvement	MBDS	3359	2568	2/18/2020	42.43940	-70.57828
Boston Harbor Improvement	MBDS	3965	3031	2/18/2020	42.43999	-70.57820
Boston Harbor Improvement	MBDS	4178	3195	2/18/2020	42.43977	-70.57834
Boston Harbor Improvement	MBDS	3304	2526	2/19/2020	42.44010	-70.57865
Boston Harbor Improvement	MBDS	2769	2117	2/19/2020	42.44031	-70.57823
Boston Harbor Improvement	MBDS	2766	2115	2/19/2020	42.44054	-70.57787
Boston Harbor Improvement	MBDS	3507	2681	2/19/2020	42.44081	-70.57722
Boston Harbor Improvement	MBDS	3654	2794	2/19/2020	42.44057	-70.57837
Boston Harbor Improvement	MBDS	3903	2984	2/20/2020	42.44060	-70.57785
Boston Harbor Improvement	MBDS	3279	2507	2/20/2020	42.44258	-70.57715
Boston Harbor Improvement	MBDS	3698	2828	2/20/2020	42.44123	-70.57774
Boston Harbor Improvement	MBDS	3708	2835	2/20/2020	42.44114	-70.57760
Boston Harbor Improvement	MBDS	3924	3000	2/21/2020	42.44094	-70.57785
Boston Harbor Improvement	MBDS	3496	2673	2/21/2020	42.44165	-70.57763
Boston Harbor Improvement	MBDS	3963	3030	2/21/2020	42.44241	-70.57770
Boston Harbor Improvement	MBDS	4106	3139	2/21/2020	42.44233	-70.57731
Boston Harbor Improvement	MBDS	3400	2599	2/22/2020	42.44313	-70.57680
Boston Harbor Improvement	MBDS	4028	3079	2/22/2020	42.44366	-70.57712
Boston Harbor Improvement	MBDS	3921	2998	2/22/2020	42.44300	-70.57674
Boston Harbor Improvement	MBDS	3460	2646	2/22/2020	42.44304	-70.57684
Boston Harbor Improvement	MBDS	4270	3264	2/22/2020	42.44300	-70.57710
Boston Harbor Improvement	MBDS	3162	2418	2/22/2020	42.44302	-70.57678
Boston Harbor Improvement	MBDS	3508	2682	2/23/2020	42.43761	-70.57896
Boston Harbor Improvement	MBDS	3654	2793	2/23/2020	42.43742	-70.57869
Boston Harbor Improvement	MBDS	3644	2786	2/23/2020	42.43829	-70.57846
Boston Harbor Improvement	MBDS	4366	3338	2/23/2020	42.43789	-70.57858
Boston Harbor Improvement	MBDS	3465	2649	2/24/2020	42.43879	-70.57780
Boston Harbor Improvement	MBDS	3844	2939	2/24/2020	42.43872	-70.57801
Boston Harbor Improvement	MBDS	3704	2832	2/24/2020	42.43881	-70.57851
Boston Harbor Improvement	MBDS	3981	3044	2/24/2020	42.43868	-70.57813
Boston Harbor Improvement	MBDS	3863	2953	2/24/2020	42.43816	-70.57796
Boston Harbor Improvement	MBDS	4196	3208	2/25/2020	42.43863	-70.57741
Boston Harbor Improvement	MBDS	2777	2123	2/25/2020	42.43406	-70.58065
Boston Harbor Improvement	MBDS	3989	3050	2/25/2020	42.43948	-70.57745
Boston Harbor Improvement	MBDS	4269	3264	2/26/2020	42.43510	-70.58480
Boston Harbor Improvement	MBDS	3578	2735	2/26/2020	42.43582	-70.58374
Boston Harbor Improvement	MBDS	3994	3054	2/26/2020	42.43545	-70.58426
Boston Harbor Improvement	MBDS	3691	2822	2/26/2020	42.43544	-70.58438
Boston Harbor Improvement	MBDS	3273	2502	2/27/2020	42.43533	-70.58414
Boston Harbor Improvement	MBDS	3652	2792	2/27/2020	42.43587	-70.58289
Boston Harbor Improvement	MBDS	4014	3069	2/28/2020	42.43577	-70.58302
Boston Harbor Improvement	MBDS	3620	2768	2/28/2020	42.43588	-70.58296
Boston Harbor Improvement	MBDS	4171	3189	2/28/2020	42.43613	-70.58302
Boston Harbor Improvement	MBDS	3405	2603	2/29/2020	42.43578	-70.58308
Boston Harbor Improvement	MBDS	4181	3196	2/29/2020	42.43505	-70.58401
Boston Harbor Improvement	MBDS	3965	3031	2/29/2020	42.43464	-70.58464
Boston Harbor Improvement	MBDS	3600	2752	2/29/2020	42.43489	-70.58451
Boston Harbor Improvement	MBDS	4128	3156	2/29/2020	42.43512	-70.58419
Boston Harbor Improvement	MBDS	3767	2880	3/1/2020	42.43486	-70.58422
Boston Harbor Improvement	MBDS	3514	2687	3/1/2020	42.43537	-70.58254
Boston Harbor Improvement	MBDS	4250	3250	3/1/2020	42.43545	-70.58324
Boston Harbor Improvement	MBDS	3555	2718	3/1/2020	42.43542	-70.58303
Boston Harbor Improvement	MBDS	4130	3157	3/1/2020	42.43503	-70.58287
Boston Harbor Improvement	MBDS	4206	3216	3/2/2020	42.43169	-70.59296
Boston Harbor Improvement	MBDS	3680	2813	3/2/2020	42.43174	-70.59304
Boston Harbor Improvement	MBDS	4008	3064	3/2/2020	42.43151	-70.59212
Boston Harbor Improvement	MBDS	4029	3080	3/2/2020	42.43144	-70.59234
Boston Harbor Improvement	MBDS	3308	2529	3/3/2020	42.43247	-70.59137
Boston Harbor Improvement	MBDS	4010	3066	3/3/2020	42.43209	-70.59208
Boston Harbor Improvement	MBDS	4124	3153	3/3/2020	42.43209	-70.59241
Boston Harbor Improvement	MBDS	3471	2654	3/3/2020	42.43267	-70.59197
Boston Harbor Improvement	MBDS	3764	2878	3/4/2020	42.43256	-70.59066
Boston Harbor Improvement	MBDS	3488	2667	3/4/2020	42.43247	-70.59078
Boston Harbor Improvement	MBDS	4051	3097	3/4/2020	42.43225	-70.59083
Boston Harbor Improvement	MBDS	4052	3098	3/4/2020	42.43231	-70.59202
Boston Harbor Improvement	MBDS	3240	2477	3/5/2020	42.43231	-70.59140
Boston Harbor Improvement	MBDS	3660	2798	3/5/2020	42.43261	-70.59052
Boston Harbor Improvement	MBDS	3872	2960	3/5/2020	42.43272	-70.58961
Boston Harbor Improvement	MBDS	3792	2899	3/5/2020	42.43279	-70.59039
Boston Harbor Improvement	MBDS	3641	2784	3/5/2020	42.43293	-70.58891
Boston Harbor Improvement	MBDS	3353	2563	3/6/2020	42.43302	-70.58922
Boston Harbor Improvement	MBDS	3646	2788	3/6/2020	42.43298	-70.58903
Boston Harbor Improvement	MBDS	3982	3045	3/6/2020	42.43309	-70.58915
Boston Harbor Improvement	MBDS	2737	2093	3/6/2020	42.43336	-70.58822

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	2659	2033	3/8/2020	42.43188	-70.59234
Boston Harbor Improvement	MBDS	4034	3084	3/8/2020	42.43324	-70.58791
Boston Harbor Improvement	MBDS	3885	2970	3/8/2020	42.43322	-70.58845
Boston Harbor Improvement	MBDS	3272	2501	3/9/2020	42.43340	-70.58795
Boston Harbor Improvement	MBDS	4050	3097	3/9/2020	42.43357	-70.58702
Boston Harbor Improvement	MBDS	4128	3156	3/9/2020	42.43341	-70.58734
Boston Harbor Improvement	MBDS	3659	2797	3/9/2020	42.43352	-70.58778
Boston Harbor Improvement	MBDS	3837	2933	3/10/2020	42.43364	-70.58676
Boston Harbor Improvement	MBDS	3228	2468	3/10/2020	42.43355	-70.58740
Boston Harbor Improvement	MBDS	3909	2989	3/10/2020	42.43400	-70.58644
Boston Harbor Improvement	MBDS	3533	2701	3/10/2020	42.43362	-70.58541
Boston Harbor Improvement	MBDS	3525	2695	3/11/2020	42.43789	-70.58543
Boston Harbor Improvement	MBDS	4126	3154	3/11/2020	42.43806	-70.58530
Boston Harbor Improvement	MBDS	3946	3017	3/11/2020	42.43840	-70.58478
Boston Harbor Improvement	MBDS	3085	2359	3/12/2020	42.43544	-70.59576
Boston Harbor Improvement	MBDS	3034	2319	3/12/2020	42.43530	-70.59637
Boston Harbor Improvement	MBDS	3871	2960	3/12/2020	42.43596	-70.59575
Boston Harbor Improvement	MBDS	3962	3029	3/13/2020	42.43606	-70.59449
Boston Harbor Improvement	MBDS	3943	3014	3/13/2020	42.43681	-70.59475
Boston Harbor Improvement	MBDS	4050	3096	3/14/2020	42.43601	-70.59411
Boston Harbor Improvement	MBDS	3569	2729	3/14/2020	42.43777	-70.59322
Boston Harbor Improvement	MBDS	4006	3063	3/14/2020	42.43725	-70.59391
Boston Harbor Improvement	MBDS	4070	3112	3/14/2020	42.43679	-70.59473
Boston Harbor Improvement	MBDS	3899	2981	3/14/2020	42.43910	-70.58657
Boston Harbor Improvement	MBDS	3766	2879	3/15/2020	42.43934	-70.58734
Boston Harbor Improvement	MBDS	4082	3121	3/15/2020	42.43916	-70.58704
Boston Harbor Improvement	MBDS	3456	2642	3/15/2020	42.43666	-70.59665
Boston Harbor Improvement	MBDS	4224	3230	3/16/2020	42.43662	-70.59675
Boston Harbor Improvement	MBDS	3858	2949	3/16/2020	42.44006	-70.58614
Boston Harbor Improvement	MBDS	3490	2669	3/16/2020	42.44010	-70.58661
Boston Harbor Improvement	MBDS	4274	3268	3/17/2020	42.43965	-70.58701
Boston Harbor Improvement	MBDS	3649	2790	3/17/2020	42.44165	-70.58061
Boston Harbor Improvement	MBDS	3516	2689	3/17/2020	42.44167	-70.57966
Boston Harbor Improvement	MBDS	4096	3132	3/17/2020	42.44184	-70.58022
Boston Harbor Improvement	MBDS	4029	3080	3/18/2020	42.44220	-70.57945
Boston Harbor Improvement	MBDS	3564	2725	3/18/2020	42.44212	-70.57917
Boston Harbor Improvement	MBDS	3823	2923	3/18/2020	42.44232	-70.57869
Boston Harbor Improvement	MBDS	4228	3233	3/19/2020	42.43724	-70.59706
Boston Harbor Improvement	MBDS	3272	2501	3/19/2020	42.43686	-70.59760
Boston Harbor Improvement	MBDS	3695	2825	3/19/2020	42.43740	-70.59730
Boston Harbor Improvement	MBDS	4136	3162	3/20/2020	42.44202	-70.58213
Boston Harbor Improvement	MBDS	3503	2678	3/20/2020	42.44163	-70.58129
Boston Harbor Improvement	MBDS	3924	3000	3/20/2020	42.44175	-70.58200
Boston Harbor Improvement	MBDS	3490	2668	3/21/2020	42.43894	-70.59295
Boston Harbor Improvement	MBDS	3792	2899	3/21/2020	42.43847	-70.59374
Boston Harbor Improvement	MBDS	3105	2374	3/21/2020	42.43895	-70.59381
Boston Harbor Improvement	MBDS	3859	2950	3/22/2020	42.43786	-70.59613
Boston Harbor Improvement	MBDS	3896	2979	3/22/2020	42.43841	-70.59637
Boston Harbor Improvement	MBDS	3605	2756	3/23/2020	42.43829	-70.59730
Boston Harbor Improvement	MBDS	4236	3239	3/23/2020	42.44054	-70.58984
Boston Harbor Improvement	MBDS	4195	3207	3/23/2020	42.44043	-70.58956
Boston Harbor Improvement	MBDS	3441	2631	3/23/2020	42.44178	-70.59110
Boston Harbor Improvement	MBDS	3919	2996	3/25/2020	42.44349	-70.57953
Boston Harbor Improvement	MBDS	4000	3058	3/25/2020	42.44350	-70.57904
Boston Harbor Improvement	MBDS	3438	2628	3/25/2020	42.44282	-70.57856
Boston Harbor Improvement	MBDS	3906	2986	3/25/2020	42.44306	-70.57968
Boston Harbor Improvement	MBDS	3713	2839	3/26/2020	42.44342	-70.57986
Boston Harbor Improvement	MBDS	3186	2436	3/26/2020	42.44337	-70.57959
Boston Harbor Improvement	MBDS	4081	3120	3/26/2020	42.44361	-70.58103
Boston Harbor Improvement	MBDS	3831	2929	3/26/2020	42.44353	-70.58087
Boston Harbor Improvement	MBDS	3612	2762	3/27/2020	42.44342	-70.58035
Boston Harbor Improvement	MBDS	3946	3017	3/27/2020	42.43899	-70.59717
Boston Harbor Improvement	MBDS	4199	3211	3/27/2020	42.43910	-70.59730
Boston Harbor Improvement	MBDS	3682	2815	3/27/2020	42.43891	-70.59772
Boston Harbor Improvement	MBDS	3986	3047	3/27/2020	42.44178	-70.59080
Boston Harbor Improvement	MBDS	3763	2877	3/28/2020	42.44151	-70.59126
Boston Harbor Improvement	MBDS	3643	2785	3/28/2020	42.44136	-70.59075
Boston Harbor Improvement	MBDS	4120	3150	3/28/2020	42.44424	-70.58397
Boston Harbor Improvement	MBDS	3692	2822	3/28/2020	42.44443	-70.58333
Boston Harbor Improvement	MBDS	4302	3289	3/29/2020	42.44433	-70.58352
Boston Harbor Improvement	MBDS	4210	3219	3/29/2020	42.44369	-70.58730
Boston Harbor Improvement	MBDS	3685	2817	3/29/2020	42.44384	-70.58676
Boston Harbor Improvement	MBDS	3957	3026	3/31/2020	42.44371	-70.58709
Boston Harbor Improvement	MBDS	4211	3220	3/31/2020	42.44190	-70.59524
Boston Harbor Improvement	MBDS	3270	2500	4/1/2020	42.44225	-70.59398
Boston Harbor Improvement	MBDS	4132	3159	4/1/2020	42.44287	-70.59943
Boston Harbor Improvement	MBDS	4091	3128	4/1/2020	42.44289	-70.59185
Boston Harbor Improvement	MBDS	3369	2576	4/1/2020	42.44279	-70.59199
Boston Harbor Improvement	MBDS	3741	2860	4/5/2020	42.44419	-70.58953
Boston Harbor Improvement	MBDS	4135	3162	4/6/2020	42.44364	-70.58978
Boston Harbor Improvement	MBDS	3483	2663	4/6/2020	42.44393	-70.58907
Boston Harbor Improvement	MBDS	3817	2918	4/6/2020	42.44367	-70.58786
Boston Harbor Improvement	MBDS	3717	2842	4/6/2020	42.44454	-70.58692

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4380	3349	4/7/2020	42.44408	-70.58705
Boston Harbor Improvement	MBDS	3576	2734	4/7/2020	42.44458	-70.58901
Boston Harbor Improvement	MBDS	4210	3218	4/7/2020	42.44402	-70.58918
Boston Harbor Improvement	MBDS	4272	3266	4/7/2020	42.44447	-70.58878
Boston Harbor Improvement	MBDS	3571	2731	4/8/2020	42.44589	-70.58321
Boston Harbor Improvement	MBDS	4221	3227	4/8/2020	42.44552	-70.58436
Boston Harbor Improvement	MBDS	4266	3262	4/8/2020	42.44606	-70.58406
Boston Harbor Improvement	MBDS	3740	2859	4/8/2020	42.44727	-70.57931
Boston Harbor Improvement	MBDS	3936	3009	4/8/2020	42.44696	-70.57969
Boston Harbor Improvement	MBDS	4336	3315	4/9/2020	42.44748	-70.57934
Boston Harbor Improvement	MBDS	3757	2872	4/9/2020	42.44761	-70.58299
Boston Harbor Improvement	MBDS	4115	3146	4/9/2020	42.44780	-70.58328
Boston Harbor Improvement	MBDS	3169	2423	4/9/2020	42.44767	-70.58289
Boston Harbor Improvement	MBDS	3717	2841	4/10/2020	42.44588	-70.59012
Boston Harbor Improvement	MBDS	3544	2710	4/10/2020	42.44629	-70.58872
Boston Harbor Improvement	MBDS	4287	3278	4/11/2020	42.44737	-70.58714
Boston Harbor Improvement	MBDS	4123	3152	4/11/2020	42.44653	-70.58817
Boston Harbor Improvement	MBDS	3546	2711	4/11/2020	42.44707	-70.58638
Boston Harbor Improvement	MBDS	4199	3210	4/11/2020	42.44715	-70.58472
Boston Harbor Improvement	MBDS	3780	2890	4/12/2020	42.44737	-70.58561
Boston Harbor Improvement	MBDS	3833	2930	4/12/2020	42.44745	-70.58579
Boston Harbor Improvement	MBDS	3784	2893	4/12/2020	42.44875	-70.58579
Boston Harbor Improvement	MBDS	3718	2843	4/13/2020	42.44774	-70.58524
Boston Harbor Improvement	MBDS	4025	3077	4/13/2020	42.44808	-70.58510
Boston Harbor Improvement	MBDS	3594	2748	4/13/2020	42.44753	-70.58894
Boston Harbor Improvement	MBDS	4234	3237	4/14/2020	42.44729	-70.58869
Boston Harbor Improvement	MBDS	3675	2810	4/14/2020	42.44737	-70.58887
Boston Harbor Improvement	MBDS	3707	2834	4/14/2020	42.44737	-70.58887
Boston Harbor Improvement	MBDS	4077	3117	4/14/2020	42.44784	-70.58908
Boston Harbor Improvement	MBDS	3955	3024	4/14/2020	42.44791	-70.58888
Boston Harbor Improvement	MBDS	3792	2899	4/15/2020	42.44801	-70.58843
Boston Harbor Improvement	MBDS	3814	2916	4/15/2020	42.43934	-70.57801
Boston Harbor Improvement	MBDS	4382	3350	4/15/2020	42.43963	-70.57767
Boston Harbor Improvement	MBDS	3686	2818	4/15/2020	42.43964	-70.57811
Boston Harbor Improvement	MBDS	4081	3120	4/16/2020	42.43957	-70.57798
Boston Harbor Improvement	MBDS	3916	2994	4/16/2020	42.44051	-70.57687
Boston Harbor Improvement	MBDS	3826	2925	4/16/2020	42.44040	-70.57695
Boston Harbor Improvement	MBDS	4251	3250	4/16/2020	42.44029	-70.57715
Boston Harbor Improvement	MBDS	4242	3243	4/17/2020	42.44053	-70.57750
Boston Harbor Improvement	MBDS	3694	2824	4/17/2020	42.44053	-70.57735
Boston Harbor Improvement	MBDS	4304	3290	4/17/2020	42.43672	-70.57782
Boston Harbor Improvement	MBDS	4458	3408	4/17/2020	42.43683	-70.57820
Boston Harbor Improvement	MBDS	3746	2864	4/17/2020	42.43691	-70.57824
Boston Harbor Improvement	MBDS	3960	3028	4/18/2020	42.43702	-70.57879
Boston Harbor Improvement	MBDS	4113	3145	4/18/2020	42.43685	-70.57790
Boston Harbor Improvement	MBDS	3660	2798	4/18/2020	42.43775	-70.57799
Boston Harbor Improvement	MBDS	4332	3312	4/18/2020	42.43780	-70.57855
Boston Harbor Improvement	MBDS	3412	2608	4/19/2020	42.43778	-70.57789
Boston Harbor Improvement	MBDS	3520	2691	4/20/2020	42.43771	-70.57757
Boston Harbor Improvement	MBDS	3464	2648	4/20/2020	42.43756	-70.57752
Boston Harbor Improvement	MBDS	3941	3013	4/20/2020	42.43866	-70.57816
Boston Harbor Improvement	MBDS	3687	2819	4/20/2020	42.43871	-70.57814
Boston Harbor Improvement	MBDS	3743	2861	4/21/2020	42.43844	-70.57730
Boston Harbor Improvement	MBDS	4090	3127	4/21/2020	42.43835	-70.57756
Boston Harbor Improvement	MBDS	4068	3111	4/21/2020	42.43858	-70.57740
Boston Harbor Improvement	MBDS	3630	2775	4/21/2020	42.43947	-70.57579
Boston Harbor Improvement	MBDS	4233	3237	4/22/2020	42.43903	-70.57690
Boston Harbor Improvement	MBDS	3998	3057	4/22/2020	42.43927	-70.57690
Boston Harbor Improvement	MBDS	4216	3224	4/22/2020	42.43938	-70.57645
Boston Harbor Improvement	MBDS	3600	2752	4/23/2020	42.44020	-70.57340
Boston Harbor Improvement	MBDS	4126	3155	4/23/2020	42.44016	-70.57606
Boston Harbor Improvement	MBDS	4151	3174	4/23/2020	42.43984	-70.57703
Boston Harbor Improvement	MBDS	3737	2857	4/23/2020	42.44025	-70.57663
Boston Harbor Improvement	MBDS	3924	3000	4/24/2020	42.44022	-70.57670
Boston Harbor Improvement	MBDS	4133	3160	4/24/2020	42.43990	-70.57640
Boston Harbor Improvement	MBDS	3674	2809	4/24/2020	42.43662	-70.57821
Boston Harbor Improvement	MBDS	4200	3211	4/24/2020	42.43656	-70.57756
Boston Harbor Improvement	MBDS	4513	3450	4/24/2020	42.43619	-70.57831
Boston Harbor Improvement	MBDS	3805	2909	4/25/2020	42.43682	-70.57784
Boston Harbor Improvement	MBDS	3954	3023	4/25/2020	42.43684	-70.57758
Boston Harbor Improvement	MBDS	4022	3075	4/25/2020	42.43728	-70.57723
Boston Harbor Improvement	MBDS	3540	2706	4/25/2020	42.43736	-70.58018
Boston Harbor Improvement	MBDS	3858	2950	4/26/2020	42.43724	-70.57763
Boston Harbor Improvement	MBDS	4072	3113	4/26/2020	42.43745	-70.57761
Boston Harbor Improvement	MBDS	3705	2832	4/26/2020	42.43762	-70.57690
Boston Harbor Improvement	MBDS	3758	2874	5/13/2020	42.44059	-70.57551
Boston Harbor Improvement	MBDS	3676	2810	5/14/2020	42.44094	-70.57535
Boston Harbor Improvement	MBDS	3710	2836	5/14/2020	42.44190	-70.57496
Boston Harbor Improvement	MBDS	3749	2867	5/15/2020	42.44239	-70.57431
Boston Harbor Improvement	MBDS	3480	2661	5/16/2020	42.44223	-70.57446
Boston Harbor Improvement	MBDS	3582	2738	5/17/2020	42.44283	-70.57407
Boston Harbor Improvement	MBDS	3669	2805	5/17/2020	42.44169	-70.57585
Boston Harbor Improvement	MBDS	3774	2885	5/18/2020	42.44199	-70.57507

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3677	2811	5/19/2020	42.43378	-70.57737
Boston Harbor Improvement	MBDS	3605	2756	5/20/2020	42.43349	-70.57758
Boston Harbor Improvement	MBDS	4132	3159	4/29/2020	42.43888	-70.57695
Boston Harbor Improvement	MBDS	3736	2857	4/30/2020	42.44066	-70.57741
Boston Harbor Improvement	MBDS	4032	3083	5/1/2020	42.44002	-70.57713
Boston Harbor Improvement	MBDS	4103	3137	5/1/2020	42.43970	-70.57675
Boston Harbor Improvement	MBDS	3703	2831	5/2/2020	42.44005	-70.57649
Boston Harbor Improvement	MBDS	3895	2978	5/2/2020	42.44074	-70.57577
Boston Harbor Improvement	MBDS	4281	3273	5/3/2020	42.44047	-70.57583
Boston Harbor Improvement	MBDS	4372	3343	5/4/2020	42.44171	-70.57551
Boston Harbor Improvement	MBDS	4157	3178	5/5/2020	42.44283	-70.57476
Boston Harbor Improvement	MBDS	4300	3288	5/5/2020	42.44264	-70.57461
Boston Harbor Improvement	MBDS	4332	3312	5/6/2020	42.43562	-70.57782
Boston Harbor Improvement	MBDS	4047	3094	5/6/2020	42.43583	-70.57763
Boston Harbor Improvement	MBDS	4063	3107	5/7/2020	42.43640	-70.57706
Boston Harbor Improvement	MBDS	4306	3292	5/8/2020	42.43706	-70.57659
Boston Harbor Improvement	MBDS	4118	3149	5/9/2020	42.43802	-70.57659
Boston Harbor Improvement	MBDS	4054	3100	5/10/2020	42.43752	-70.57671
Boston Harbor Improvement	MBDS	4067	3110	5/11/2020	42.43860	-70.57613
Boston Harbor Improvement	MBDS	4114	3146	5/11/2020	42.43829	-70.57678
Boston Harbor Improvement	MBDS	4031	3082	5/12/2020	42.43901	-70.57589
Boston Harbor Improvement	MBDS	4123	3152	5/13/2020	42.43959	-70.57536
Boston Harbor Improvement	MBDS	4047	3094	5/13/2020	42.44107	-70.57486
Boston Harbor Improvement	MBDS	3864	2955	5/14/2020	42.44170	-70.57477
Boston Harbor Improvement	MBDS	4187	3202	5/15/2020	42.44077	-70.57451
Boston Harbor Improvement	MBDS	3967	3033	5/15/2020	42.44247	-70.57434
Boston Harbor Improvement	MBDS	3872	2961	5/16/2020	42.44233	-70.57411
Boston Harbor Improvement	MBDS	4200	3211	5/17/2020	42.44254	-70.57426
Boston Harbor Improvement	MBDS	3633	2777	5/18/2020	42.44329	-70.57402
Boston Harbor Improvement	MBDS	4113	3145	5/18/2020	42.43394	-70.57764
Boston Harbor Improvement	MBDS	3806	2910	5/19/2020	42.43734	-70.57835
Boston Harbor Improvement	MBDS	3876	2963	4/29/2020	42.43850	-70.57719
Boston Harbor Improvement	MBDS	3980	3043	4/29/2020	42.43908	-70.57683
Boston Harbor Improvement	MBDS	3872	2960	4/30/2020	42.44013	-70.58124
Boston Harbor Improvement	MBDS	4187	3202	5/1/2020	42.43895	-70.57626
Boston Harbor Improvement	MBDS	3770	2883	5/2/2020	42.44001	-70.57644
Boston Harbor Improvement	MBDS	4140	3166	5/2/2020	42.44078	-70.57663
Boston Harbor Improvement	MBDS	4121	3151	5/3/2020	42.44058	-70.57592
Boston Harbor Improvement	MBDS	4111	3143	5/4/2020	42.44080	-70.57565
Boston Harbor Improvement	MBDS	4264	3260	5/4/2020	42.44124	-70.57529
Boston Harbor Improvement	MBDS	4182	3197	5/5/2020	42.44247	-70.57574
Boston Harbor Improvement	MBDS	4082	3121	5/6/2020	42.43626	-70.57793
Boston Harbor Improvement	MBDS	4105	3138	5/6/2020	42.43537	-70.57811
Boston Harbor Improvement	MBDS	4261	3258	5/7/2020	42.43655	-70.57751
Boston Harbor Improvement	MBDS	3905	2986	5/7/2020	42.43653	-70.57724
Boston Harbor Improvement	MBDS	4088	3125	5/8/2020	42.43741	-70.57684
Boston Harbor Improvement	MBDS	4179	3195	5/9/2020	42.43814	-70.57644
Boston Harbor Improvement	MBDS	3965	3031	5/10/2020	42.43834	-70.57566
Boston Harbor Improvement	MBDS	4251	3250	5/11/2020	42.43902	-70.57590
Boston Harbor Improvement	MBDS	3402	2601	5/12/2020	42.44019	-70.57470
Boston Harbor Improvement	MBDS	4082	3121	5/12/2020	42.43982	-70.57555
Boston Harbor Improvement	MBDS	4011	3067	5/13/2020	42.44086	-70.57519
Boston Harbor Improvement	MBDS	4224	3229	5/14/2020	42.44057	-70.57524
Boston Harbor Improvement	MBDS	4013	3068	5/14/2020	42.44116	-70.57491
Boston Harbor Improvement	MBDS	4098	3133	5/15/2020	42.44145	-70.57497
Boston Harbor Improvement	MBDS	3620	2768	5/16/2020	42.44245	-70.57434
Boston Harbor Improvement	MBDS	4027	3079	5/16/2020	42.44247	-70.57494
Boston Harbor Improvement	MBDS	3892	2976	5/17/2020	42.44197	-70.57482
Boston Harbor Improvement	MBDS	4190	3203	5/18/2020	42.44188	-70.57407
Boston Harbor Improvement	MBDS	4093	3129	5/18/2020	42.44250	-70.57424
Boston Harbor Improvement	MBDS	3871	2959	5/19/2020	42.43137	-70.57811
Boston Harbor Improvement	MBDS	3864	2954	5/20/2020	42.43400	-70.57698
Boston Harbor Improvement	MBDS	3554	2717	4/29/2020	42.43862	-70.57686
Boston Harbor Improvement	MBDS	3410	2607	4/30/2020	42.43835	-70.57598
Boston Harbor Improvement	MBDS	3694	2824	5/1/2020	42.44294	-70.57967
Boston Harbor Improvement	MBDS	3215	2458	5/1/2020	42.44024	-70.57585
Boston Harbor Improvement	MBDS	3563	2724	5/2/2020	42.44015	-70.57625
Boston Harbor Improvement	MBDS	3579	2736	5/3/2020	42.44083	-70.57579
Boston Harbor Improvement	MBDS	3475	2657	5/3/2020	42.44170	-70.57521
Boston Harbor Improvement	MBDS	3840	2936	5/4/2020	42.44248	-70.57498
Boston Harbor Improvement	MBDS	3835	2932	5/5/2020	42.44250	-70.57460
Boston Harbor Improvement	MBDS	3757	2872	5/5/2020	42.44289	-70.57513
Boston Harbor Improvement	MBDS	3680	2814	5/6/2020	42.43547	-70.57762
Boston Harbor Improvement	MBDS	3862	2953	5/6/2020	42.43687	-70.57715
Boston Harbor Improvement	MBDS	3624	2771	5/7/2020	42.43640	-70.57782
Boston Harbor Improvement	MBDS	3590	2745	5/8/2020	42.43759	-70.57668
Boston Harbor Improvement	MBDS	3718	2842	5/8/2020	42.43747	-70.57658
Boston Harbor Improvement	MBDS	3438	2629	5/10/2020	42.43825	-70.57680
Boston Harbor Improvement	MBDS	3627	2773	5/10/2020	42.43866	-70.57629
Boston Harbor Improvement	MBDS	3554	2717	5/11/2020	42.43873	-70.57643
Boston Harbor Improvement	MBDS	3669	2805	5/12/2020	42.43918	-70.57581
Boston Harbor Improvement	MBDS	3676	2811	5/12/2020	42.44046	-70.57509
Boston Harbor Improvement	MBDS	4082	3121	5/12/2020	42.43982	-70.57555

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4031	3082	5/12/2020	42.43901	-70.57589
Boston Harbor Improvement	MBDS	3758	2874	5/13/2020	42.44059	-70.57551
Boston Harbor Improvement	MBDS	4011	3067	5/13/2020	42.44086	-70.57519
Boston Harbor Improvement	MBDS	4123	3152	5/13/2020	42.43959	-70.57536
Boston Harbor Improvement	MBDS	4047	3094	5/13/2020	42.44107	-70.57486
Boston Harbor Improvement	MBDS	3676	2810	5/14/2020	42.44094	-70.57535
Boston Harbor Improvement	MBDS	3710	2836	5/14/2020	42.44190	-70.57496
Boston Harbor Improvement	MBDS	4224	3229	5/14/2020	42.44057	-70.57524
Boston Harbor Improvement	MBDS	4013	3068	5/14/2020	42.44116	-70.57491
Boston Harbor Improvement	MBDS	3864	2955	5/14/2020	42.44170	-70.57477
Boston Harbor Improvement	MBDS	3749	2867	5/15/2020	42.44239	-70.57431
Boston Harbor Improvement	MBDS	4098	3133	5/15/2020	42.44145	-70.57497
Boston Harbor Improvement	MBDS	4187	3202	5/15/2020	42.44077	-70.57451
Boston Harbor Improvement	MBDS	3967	3033	5/15/2020	42.44247	-70.57434
Boston Harbor Improvement	MBDS	3480	2661	5/16/2020	42.44223	-70.57446
Boston Harbor Improvement	MBDS	3620	2768	5/16/2020	42.44245	-70.57434
Boston Harbor Improvement	MBDS	4027	3079	5/16/2020	42.44247	-70.57494
Boston Harbor Improvement	MBDS	3872	2961	5/16/2020	42.44233	-70.57411
Boston Harbor Improvement	MBDS	3582	2738	5/17/2020	42.44283	-70.57407
Boston Harbor Improvement	MBDS	3669	2805	5/17/2020	42.44169	-70.57585
Boston Harbor Improvement	MBDS	3892	2976	5/17/2020	42.44197	-70.57482
Boston Harbor Improvement	MBDS	4200	3211	5/17/2020	42.44254	-70.57426
Boston Harbor Improvement	MBDS	3774	2885	5/18/2020	42.44199	-70.57507
Boston Harbor Improvement	MBDS	4190	3203	5/18/2020	42.44188	-70.57407
Boston Harbor Improvement	MBDS	4093	3129	5/18/2020	42.44250	-70.57424
Boston Harbor Improvement	MBDS	3633	2777	5/18/2020	42.44329	-70.57402
Boston Harbor Improvement	MBDS	4113	3145	5/18/2020	42.43394	-70.57764
Boston Harbor Improvement	MBDS	3677	2811	5/19/2020	42.43378	-70.57737
Boston Harbor Improvement	MBDS	3871	2959	5/19/2020	42.43498	-70.57692
Boston Harbor Improvement	MBDS	3806	2910	5/19/2020	42.43734	-70.57835
Boston Harbor Improvement	MBDS	3605	2756	5/20/2020	42.43349	-70.57758
Boston Harbor Improvement	MBDS	3498	2674	5/20/2020	42.43475	-70.57757
Boston Harbor Improvement	MBDS	3864	2954	5/20/2020	42.43400	-70.57698
Boston Harbor Improvement	MBDS	4147	3171	5/20/2020	42.43476	-70.57780
Boston Harbor Improvement	MBDS	3736	2857	5/21/2020	42.43613	-70.57672
Boston Harbor Improvement	MBDS	4101	3136	5/21/2020	42.43471	-70.57756
Boston Harbor Improvement	MBDS	3668	2805	5/21/2020	42.43471	-70.57714
Boston Harbor Improvement	MBDS	3761	2875	5/22/2020	42.43589	-70.57631
Boston Harbor Improvement	MBDS	3721	2845	5/22/2020	42.43706	-70.57597
Boston Harbor Improvement	MBDS	4169	3187	5/22/2020	42.43569	-70.57685
Boston Harbor Improvement	MBDS	4199	3210	5/22/2020	42.43470	-70.57650
Boston Harbor Improvement	MBDS	4031	3082	5/22/2020	42.43480	-70.57752
Boston Harbor Improvement	MBDS	3860	2951	5/23/2020	42.43705	-70.57636
Boston Harbor Improvement	MBDS	4165	3185	5/23/2020	42.43657	-70.57650
Boston Harbor Improvement	MBDS	4086	3124	5/23/2020	42.43644	-70.57732
Boston Harbor Improvement	MBDS	4043	3091	5/23/2020	42.43671	-70.57610
Boston Harbor Improvement	MBDS	3846	2941	5/24/2020	42.43816	-70.57628
Boston Harbor Improvement	MBDS	4085	3124	5/24/2020	42.43754	-70.57561
Boston Harbor Improvement	MBDS	3835	2932	5/24/2020	42.43734	-70.57584
Boston Harbor Improvement	MBDS	3552	2716	5/25/2020	42.43742	-70.57599
Boston Harbor Improvement	MBDS	3630	2775	5/25/2020	42.43826	-70.57518
Boston Harbor Improvement	MBDS	4026	3078	5/25/2020	42.43749	-70.57587
Boston Harbor Improvement	MBDS	4025	3077	5/25/2020	42.43827	-70.57617
Boston Harbor Improvement	MBDS	4111	3143	5/25/2020	42.43823	-70.57580
Boston Harbor Improvement	MBDS	4086	3124	5/26/2020	42.43925	-70.57460
Boston Harbor Improvement	MBDS	4347	3324	5/26/2020	42.43805	-70.57543
Boston Harbor Improvement	MBDS	4106	3139	5/26/2020	42.43907	-70.57581
Boston Harbor Improvement	MBDS	4179	3195	5/26/2020	42.43895	-70.57512
Boston Harbor Improvement	MBDS	3844	2939	5/27/2020	42.43901	-70.57537
Boston Harbor Improvement	MBDS	3842	2937	5/27/2020	42.43737	-70.57583
Boston Harbor Improvement	MBDS	4225	3231	5/27/2020	42.43941	-70.57483
Boston Harbor Improvement	MBDS	4037	3086	5/27/2020	42.43893	-70.57563
Boston Harbor Improvement	MBDS	4070	3111	5/27/2020	42.43977	-70.57486
Boston Harbor Improvement	MBDS	3943	3015	5/28/2020	42.43976	-70.57466
Boston Harbor Improvement	MBDS	4129	3157	5/28/2020	42.43982	-70.57486
Boston Harbor Improvement	MBDS	4142	3167	5/28/2020	42.44159	-70.57403
Boston Harbor Improvement	MBDS	4011	3066	5/28/2020	42.43960	-70.57499
Boston Harbor Improvement	MBDS	3768	2881	5/29/2020	42.44097	-70.57452
Boston Harbor Improvement	MBDS	3679	2813	5/29/2020	42.44014	-70.57559
Boston Harbor Improvement	MBDS	4255	3253	5/29/2020	42.44074	-70.57416
Boston Harbor Improvement	MBDS	4119	3149	5/29/2020	42.44137	-70.57452
Boston Harbor Improvement	MBDS	3552	2716	5/30/2020	42.44101	-70.57402
Boston Harbor Improvement	MBDS	4154	3176	5/30/2020	42.44222	-70.57392
Boston Harbor Improvement	MBDS	4113	3144	5/30/2020	42.44093	-70.57432
Boston Harbor Improvement	MBDS	4132	3159	5/30/2020	42.44250	-70.57466
Boston Harbor Improvement	MBDS	3768	2881	5/31/2020	42.43434	-70.57697
Boston Harbor Improvement	MBDS	3947	3018	5/31/2020	42.43325	-70.57737
Boston Harbor Improvement	MBDS	3971	3036	5/31/2020	42.44125	-70.57418
Boston Harbor Improvement	MBDS	4226	3231	5/31/2020	42.43370	-70.57729
Boston Harbor Improvement	MBDS	3545	2710	6/1/2020	42.43425	-70.57691
Boston Harbor Improvement	MBDS	3516	2688	6/1/2020	42.43461	-70.57576
Boston Harbor Improvement	MBDS	4247	3247	6/1/2020	42.43370	-70.57762
Boston Harbor Improvement	MBDS	4232	3236	6/1/2020	42.43418	-70.57661

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	4027	3079	6/1/2020	42.43586	-70.57587
Boston Harbor Improvement	MBDS	3164	2419	6/2/2020	42.43423	-70.57660
Boston Harbor Improvement	MBDS	3863	2953	6/2/2020	42.43448	-70.57631
Boston Harbor Improvement	MBDS	4417	3377	6/2/2020	42.43676	-70.57499
Boston Harbor Improvement	MBDS	4020	3074	6/2/2020	42.43559	-70.57731
Boston Harbor Improvement	MBDS	3723	2847	6/3/2020	42.43592	-70.57604
Boston Harbor Improvement	MBDS	3643	2786	6/3/2020	42.43736	-70.57577
Boston Harbor Improvement	MBDS	4030	3081	6/3/2020	42.43559	-70.57653
Boston Harbor Improvement	MBDS	4018	3072	6/3/2020	42.43609	-70.57595
Boston Harbor Improvement	MBDS	4187	3202	6/3/2020	42.43569	-70.57627
Boston Harbor Improvement	MBDS	3639	2782	6/4/2020	42.43731	-70.57538
Boston Harbor Improvement	MBDS	3857	2949	6/4/2020	42.43783	-70.57507
Boston Harbor Improvement	MBDS	4181	3196	6/4/2020	42.43636	-70.57544
Boston Harbor Improvement	MBDS	4091	3128	6/4/2020	42.43546	-70.57666
Boston Harbor Improvement	MBDS	3804	2909	6/5/2020	42.43704	-70.57530
Boston Harbor Improvement	MBDS	3747	2865	6/5/2020	42.43840	-70.57486
Boston Harbor Improvement	MBDS	4075	3116	6/5/2020	42.43724	-70.57551
Boston Harbor Improvement	MBDS	4071	3113	6/5/2020	42.43700	-70.57558
Boston Harbor Improvement	MBDS	4079	3119	6/5/2020	42.43789	-70.57461
Boston Harbor Improvement	MBDS	3896	2979	6/5/2020	42.43955	-70.57359
Boston Harbor Improvement	MBDS	3820	2920	6/6/2020	42.43868	-70.57529
Boston Harbor Improvement	MBDS	4116	3147	6/6/2020	42.43786	-70.57546
Boston Harbor Improvement	MBDS	4114	3145	6/6/2020	42.43835	-70.57469
Boston Harbor Improvement	MBDS	4181	3197	6/6/2020	42.43838	-70.57473
Boston Harbor Improvement	MBDS	4224	3229	6/6/2020	42.43918	-70.57511
Boston Harbor Improvement	MBDS	3527	2697	6/7/2020	42.43832	-70.57633
Boston Harbor Improvement	MBDS	3715	2840	6/7/2020	42.43903	-70.57525
Boston Harbor Improvement	MBDS	4250	3249	6/7/2020	42.43909	-70.57521
Boston Harbor Improvement	MBDS	4284	3276	6/7/2020	42.43906	-70.57497
Boston Harbor Improvement	MBDS	4168	3186	6/7/2020	42.43906	-70.57469
Boston Harbor Improvement	MBDS	3706	2833	6/8/2020	42.43937	-70.57529
Boston Harbor Improvement	MBDS	3733	2854	6/8/2020	42.44060	-70.57390
Boston Harbor Improvement	MBDS	4088	3125	6/8/2020	42.44096	-70.57473
Boston Harbor Improvement	MBDS	4153	3176	6/8/2020	42.43991	-70.57435
Boston Harbor Improvement	MBDS	4163	3183	6/8/2020	42.43918	-70.57563
Boston Harbor Improvement	MBDS	3880	2966	6/9/2020	42.44046	-70.57410
Boston Harbor Improvement	MBDS	4113	3145	6/9/2020	42.44124	-70.57412
Boston Harbor Improvement	MBDS	3988	3049	6/9/2020	42.44387	-70.60168
Boston Harbor Improvement	MBDS	4352	3328	6/9/2020	42.43959	-70.57456
Boston Harbor Improvement	MBDS	4320	3303	6/10/2020	42.43415	-70.57638
Boston Harbor Improvement	MBDS	4091	3128	6/10/2020	42.43311	-70.57615
Boston Harbor Improvement	MBDS	4095	3131	6/11/2020	42.43374	-70.57683
Boston Harbor Improvement	MBDS	3676	2810	6/12/2020	42.43459	-70.57584
Boston Harbor Improvement	MBDS	4079	3119	6/12/2020	42.43336	-70.57636
Boston Harbor Improvement	MBDS	4121	3151	6/13/2020	42.43434	-70.57652
Boston Harbor Improvement	MBDS	3919	2996	6/13/2020	42.43477	-70.57603
Boston Harbor Improvement	MBDS	4043	3091	6/14/2020	42.43420	-70.57651
Boston Harbor Improvement	MBDS	3577	2735	6/14/2020	42.43427	-70.57660
Boston Harbor Improvement	MBDS	4105	3139	6/15/2020	42.43521	-70.57558
Boston Harbor Improvement	MBDS	4008	3064	6/15/2020	42.43564	-70.57795
Boston Harbor Improvement	MBDS	625	478	6/16/2020	42.43675	-70.57569
Boston Harbor Improvement	MBDS	4187	3201	6/16/2020	42.43610	-70.57550
Boston Harbor Improvement	MBDS	4092	3128	6/16/2020	42.43617	-70.57553
Boston Harbor Improvement	MBDS	3797	2903	6/17/2020	42.43580	-70.57560
Boston Harbor Improvement	MBDS	3823	2923	6/17/2020	42.43630	-70.57450
Boston Harbor Improvement	MBDS	3689	2820	6/18/2020	42.43650	-70.57510
Boston Harbor Improvement	MBDS	3934	3008	6/18/2020	42.43710	-70.57500
Boston Harbor Improvement	MBDS	3782	2892	6/19/2020	42.43340	-70.57640
Boston Harbor Improvement	MBDS	3936	3009	6/19/2020	42.43340	-70.57620
Boston Harbor Improvement	MBDS	3932	3006	6/19/2020	42.43370	-70.57590
Boston Harbor Improvement	MBDS	3733	2854	6/20/2020	42.43430	-70.57550
Boston Harbor Improvement	MBDS	3834	2931	6/20/2020	42.43310	-70.57610
Boston Harbor Improvement	MBDS	3812	2914	6/21/2020	42.43300	-70.57600
Boston Harbor Improvement	MBDS	3728	2850	6/21/2020	42.43430	-70.57540
Boston Harbor Improvement	MBDS	4230	3234	6/21/2020	42.43440	-70.57550
Boston Harbor Improvement	MBDS	3766	2879	6/22/2020	42.43380	-70.57560
Boston Harbor Improvement	MBDS	3948	3018	6/22/2020	42.43440	-70.57540
Boston Harbor Improvement	MBDS	3820	2921	6/22/2020	42.43530	-70.57490
Boston Harbor Improvement	MBDS	3475	2657	6/23/2020	42.43500	-70.57480
Boston Harbor Improvement	MBDS	3662	2800	6/23/2020	42.43502	-70.57524
Boston Harbor Improvement	MBDS	3899	2981	6/24/2020	42.43518	-70.57511
Boston Harbor Improvement	MBDS	4059	3104	6/24/2020	42.43494	-70.57519
Boston Harbor Improvement	MBDS	4036	3086	6/24/2020	42.43666	-70.57465
Boston Harbor Improvement	MBDS	3743	2862	6/25/2020	42.43592	-70.57482
Boston Harbor Improvement	MBDS	4045	3092	6/25/2020	42.43597	-70.57499
Boston Harbor Improvement	MBDS	4102	3136	6/26/2020	42.43581	-70.57479
Boston Harbor Improvement	MBDS	4110	3142	6/26/2020	42.43684	-70.60306
Boston Harbor Improvement	MBDS	4069	3111	6/26/2020	42.43565	-70.57486
Boston Harbor Improvement	MBDS	3834	2931	6/27/2020	42.43659	-70.60312
Boston Harbor Improvement	MBDS	4002	3060	6/27/2020	42.43648	-70.60289
Boston Harbor Improvement	MBDS	3663	2800	6/27/2020	42.43656	-70.60293
Boston Harbor Improvement	MBDS	3981	3044	6/28/2020	42.43634	-70.60338
Boston Harbor Improvement	MBDS	3999	3058	6/28/2020	42.43744	-70.60263

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3683	2816	6/29/2020	42.43732	-70.60259
Boston Harbor Improvement	MBDS	3608	2759	6/29/2020	42.43706	-70.60304
Boston Harbor Improvement	MBDS	3717	2842	6/29/2020	42.43704	-70.60339
Boston Harbor Improvement	MBDS	4070	3112	6/30/2020	42.43801	-70.60235
Boston Harbor Improvement	MBDS	4047	3094	6/30/2020	42.43726	-70.60411
Boston Harbor Improvement	MBDS	4086	3124	7/1/2020	42.43832	-70.60251
Boston Harbor Improvement	MBDS	3999	3058	7/1/2020	42.43792	-70.60238
Boston Harbor Improvement	MBDS	3762	2876	7/2/2020	42.43903	-70.60178
Boston Harbor Improvement	MBDS	4184	3199	7/2/2020	42.43921	-70.60155
Boston Harbor Improvement	MBDS	3994	3054	7/2/2020	42.43842	-70.60195
Boston Harbor Improvement	MBDS	3998	3056	7/2/2020	42.43895	-70.60239
Boston Harbor Improvement	MBDS	4064	3107	7/3/2020	42.43901	-70.60177
Boston Harbor Improvement	MBDS	3599	2752	7/3/2020	42.43804	-70.60239
Boston Harbor Improvement	MBDS	4010	3066	7/4/2020	42.43945	-70.60100
Boston Harbor Improvement	MBDS	3683	2816	7/4/2020	42.43950	-70.60140
Boston Harbor Improvement	MBDS	3716	2841	7/4/2020	42.43901	-70.60138
Boston Harbor Improvement	MBDS	3942	3014	7/4/2020	42.43970	-70.60129
Boston Harbor Improvement	MBDS	4075	3115	7/5/2020	42.43965	-70.60164
Boston Harbor Improvement	MBDS	4054	3099	7/5/2020	42.44349	-70.59854
Boston Harbor Improvement	MBDS	3925	3001	7/5/2020	42.44059	-70.60083
Boston Harbor Improvement	MBDS	3751	2868	7/6/2020	42.44048	-70.60048
Boston Harbor Improvement	MBDS	4040	3089	7/6/2020	42.44063	-70.60063
Boston Harbor Improvement	MBDS	3964	3031	7/6/2020	42.44063	-70.60045
Boston Harbor Improvement	MBDS	3257	2490	7/7/2020	42.44120	-70.59977
Boston Harbor Improvement	MBDS	3933	3007	7/7/2020	42.44053	-70.60040
Boston Harbor Improvement	MBDS	4057	3102	7/7/2020	42.44147	-70.60076
Boston Harbor Improvement	MBDS	4084	3122	7/8/2020	42.44150	-70.59976
Boston Harbor Improvement	MBDS	3665	2802	7/8/2020	42.44127	-70.59930
Boston Harbor Improvement	MBDS	3673	2808	7/8/2020	42.44086	-70.60127
Boston Harbor Improvement	MBDS	3993	3053	7/9/2020	42.44239	-70.59955
Boston Harbor Improvement	MBDS	3811	2913	7/9/2020	42.44190	-70.59958
Boston Harbor Improvement	MBDS	4204	3214	7/9/2020	42.44197	-70.59980
Boston Harbor Improvement	MBDS	3842	2937	7/10/2020	42.44214	-70.59959
Boston Harbor Improvement	MBDS	3863	2954	7/10/2020	42.44350	-70.59881
Boston Harbor Improvement	MBDS	3704	2832	7/10/2020	42.44176	-70.59964
Boston Harbor Improvement	MBDS	3812	2915	7/10/2020	42.44313	-70.59864
Boston Harbor Improvement	MBDS	3923	2999	7/11/2020	42.44310	-70.60005
Boston Harbor Improvement	MBDS	4076	3117	7/11/2020	42.44289	-70.59879
Boston Harbor Improvement	MBDS	3989	3050	7/12/2020	42.44308	-70.59845
Boston Harbor Improvement	MBDS	3882	2968	7/12/2020	42.43702	-70.60444
Boston Harbor Improvement	MBDS	3924	3000	7/12/2020	42.43738	-70.60363
Boston Harbor Improvement	MBDS	3618	2766	7/13/2020	42.43724	-70.60288
Boston Harbor Improvement	MBDS	3768	2881	7/13/2020	42.43680	-70.60344
Boston Harbor Improvement	MBDS	3995	3055	7/14/2020	42.43758	-70.60282
Boston Harbor Improvement	MBDS	4172	3190	7/14/2020	42.43586	-70.60363
Boston Harbor Improvement	MBDS	3823	2923	7/14/2020	42.43767	-70.60321
Boston Harbor Improvement	MBDS	3866	2956	7/15/2020	42.43747	-70.60333
Boston Harbor Improvement	MBDS	3628	2774	7/15/2020	42.43856	-70.60336
Boston Harbor Improvement	MBDS	3770	2882	7/15/2020	42.43734	-70.60290
Boston Harbor Improvement	MBDS	3903	2984	7/16/2020	42.43868	-70.60286
Boston Harbor Improvement	MBDS	3934	3008	7/16/2020	42.43852	-70.60310
Boston Harbor Improvement	MBDS	4023	3076	7/16/2020	42.43816	-70.60308
Boston Harbor Improvement	MBDS	4125	3154	7/16/2020	42.43806	-70.60296
Boston Harbor Improvement	MBDS	3893	2976	7/17/2020	42.43926	-70.60222
Boston Harbor Improvement	MBDS	3940	3012	7/17/2020	42.43914	-70.60263
Boston Harbor Improvement	MBDS	4212	3221	7/17/2020	42.43786	-70.60272
Boston Harbor Improvement	MBDS	4202	3213	7/17/2020	42.43976	-70.60243
Boston Harbor Improvement	MBDS	3634	2779	7/18/2020	42.43927	-70.60285
Boston Harbor Improvement	MBDS	3512	2685	7/18/2020	42.43938	-70.60215
Boston Harbor Improvement	MBDS	3992	3052	7/18/2020	42.44016	-70.60182
Boston Harbor Improvement	MBDS	3953	3023	7/19/2020	42.44045	-70.60189
Boston Harbor Improvement	MBDS	3987	3048	7/19/2020	42.44052	-70.60179
Boston Harbor Improvement	MBDS	3930	3005	7/20/2020	42.44026	-70.60112
Boston Harbor Improvement	MBDS	3879	2966	7/20/2020	42.44102	-70.60123
Boston Harbor Improvement	MBDS	4020	3074	7/20/2020	42.43975	-70.60182
Boston Harbor Improvement	MBDS	3870	2959	7/20/2020	42.44067	-70.60149
Boston Harbor Improvement	MBDS	4337	3316	7/21/2020	42.44118	-70.60098
Boston Harbor Improvement	MBDS	3967	3033	7/21/2020	42.44049	-70.60195
Boston Harbor Improvement	MBDS	4131	3158	7/22/2020	42.44132	-70.60129
Boston Harbor Improvement	MBDS	4264	3260	7/22/2020	42.44157	-70.60051
Boston Harbor Improvement	MBDS	4422	3381	7/22/2020	42.44206	-70.60040
Boston Harbor Improvement	MBDS	3718	2843	7/22/2020	42.44167	-70.59972
Boston Harbor Improvement	MBDS	3805	2909	7/23/2020	42.44160	-70.60097
Boston Harbor Improvement	MBDS	4035	3085	7/23/2020	42.44162	-70.60091
Boston Harbor Improvement	MBDS	4075	3116	7/24/2020	42.44223	-70.60051
Boston Harbor Improvement	MBDS	4177	3194	7/24/2020	42.44242	-70.60016
Boston Harbor Improvement	MBDS	3799	2905	7/24/2020	42.44258	-70.60026
Boston Harbor Improvement	MBDS	4175	3192	7/25/2020	42.44235	-70.60004
Boston Harbor Improvement	MBDS	4096	3131	7/25/2020	42.44256	-70.60004
Boston Harbor Improvement	MBDS	3952	3021	7/25/2020	42.44327	-70.59930
Boston Harbor Improvement	MBDS	4028	3080	7/26/2020	42.44358	-70.59986
Boston Harbor Improvement	MBDS	4032	3083	7/26/2020	42.44343	-70.59930
Boston Harbor Improvement	MBDS	3982	3045	7/27/2020	42.44306	-70.60032

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3705	2833	7/27/2020	42.43785	-70.60429
Boston Harbor Improvement	MBDS	4279	3271	7/27/2020	42.44338	-70.59916
Boston Harbor Improvement	MBDS	3990	3050	7/28/2020	42.43720	-70.60415
Boston Harbor Improvement	MBDS	4042	3091	7/28/2020	42.43709	-70.60456
Boston Harbor Improvement	MBDS	3918	2995	7/28/2020	42.43679	-70.60528
Boston Harbor Improvement	MBDS	4252	3251	7/29/2020	42.43720	-70.60444
Boston Harbor Improvement	MBDS	3808	2911	7/29/2020	42.43774	-70.60302
Boston Harbor Improvement	MBDS	4362	3335	7/30/2020	42.43781	-70.60420
Boston Harbor Improvement	MBDS	4063	3106	7/30/2020	42.43836	-70.60387
Boston Harbor Improvement	MBDS	4223	3229	7/31/2020	42.43771	-70.60425
Boston Harbor Improvement	MBDS	3904	2984	7/31/2020	42.43910	-70.60251
Boston Harbor Improvement	MBDS	4043	3091	7/31/2020	42.43931	-70.60322
Boston Harbor Improvement	MBDS	3891	2975	8/1/2020	42.43865	-70.60339
Boston Harbor Improvement	MBDS	3953	3022	8/1/2020	42.43859	-70.60340
Boston Harbor Improvement	MBDS	3984	3046	8/1/2020	42.43825	-70.60337
Boston Harbor Improvement	MBDS	3928	3003	8/2/2020	42.43888	-70.60314
Boston Harbor Improvement	MBDS	4002	3060	8/2/2020	42.43964	-70.60288
Boston Harbor Improvement	MBDS	3762	2876	8/2/2020	42.43993	-70.60270
Boston Harbor Improvement	MBDS	3904	2985	8/3/2020	42.43930	-70.60302
Boston Harbor Improvement	MBDS	3863	2953	8/3/2020	42.43909	-70.60330
Boston Harbor Improvement	MBDS	3722	2846	8/3/2020	42.43941	-70.60304
Boston Harbor Improvement	MBDS	3885	2970	8/4/2020	42.44042	-70.60189
Boston Harbor Improvement	MBDS	2692	2058	8/4/2020	42.44050	-70.60215
Boston Harbor Improvement	MBDS	3993	3053	8/6/2020	42.44032	-70.60273
Boston Harbor Improvement	MBDS	3676	2810	8/6/2020	42.43979	-70.60274
Boston Harbor Improvement	MBDS	3904	2985	8/7/2020	42.44038	-70.60207
Boston Harbor Improvement	MBDS	4141	3166	8/7/2020	42.44103	-70.60185
Boston Harbor Improvement	MBDS	4023	3076	8/7/2020	42.44095	-70.60195
Boston Harbor Improvement	MBDS	3894	2977	8/8/2020	42.44121	-70.60175
Boston Harbor Improvement	MBDS	3944	3015	8/8/2020	42.44105	-70.60192
Boston Harbor Improvement	MBDS	3713	2838	8/8/2020	42.44158	-70.60182
Boston Harbor Improvement	MBDS	4009	3065	8/9/2020	42.44232	-70.60030
Boston Harbor Improvement	MBDS	4030	3081	8/9/2020	42.43391	-70.58078
Boston Harbor Improvement	MBDS	4066	3109	8/9/2020	42.44242	-70.60082
Boston Harbor Improvement	MBDS	4039	3088	8/10/2020	42.43392	-70.58103
Boston Harbor Improvement	MBDS	3918	2995	8/10/2020	42.43377	-70.58163
Boston Harbor Improvement	MBDS	4023	3076	8/11/2020	42.43372	-70.58111
Boston Harbor Improvement	MBDS	3908	2988	8/11/2020	42.44229	-70.60114
Boston Harbor Improvement	MBDS	4095	3131	8/12/2020	42.44139	-70.60286
Boston Harbor Improvement	MBDS	4067	3109	8/13/2020	42.44267	-70.60106
Boston Harbor Improvement	MBDS	4037	3086	8/13/2020	42.44299	-70.59972
Boston Harbor Improvement	MBDS	3866	2956	8/14/2020	42.44291	-70.60030
Boston Harbor Improvement	MBDS	3826	2925	8/14/2020	42.44226	-70.60139
Boston Harbor Improvement	MBDS	3872	2960	8/15/2020	42.44298	-70.59956
Boston Harbor Improvement	MBDS	4113	3144	8/15/2020	42.44362	-70.60018
Boston Harbor Improvement	MBDS	4072	3113	8/15/2020	42.44438	-70.59996
Boston Harbor Improvement	MBDS	3970	3036	8/16/2020	42.44353	-70.60075
Boston Harbor Improvement	MBDS	4056	3101	8/16/2020	42.44337	-70.60070
Boston Harbor Improvement	MBDS	3767	2880	8/16/2020	42.44334	-70.60110
Boston Harbor Improvement	MBDS	4029	3080	8/17/2020	42.43802	-70.60491
Boston Harbor Improvement	MBDS	4276	3269	8/18/2020	42.43819	-70.60465
Boston Harbor Improvement	MBDS	4130	3157	8/18/2020	42.43815	-70.60477
Boston Harbor Improvement	MBDS	3640	2783	8/19/2020	42.43807	-70.60478
Boston Harbor Improvement	MBDS	3319	2538	8/19/2020	42.43814	-70.60374
Boston Harbor Improvement	MBDS	4039	3088	8/20/2020	42.43931	-70.60361
Boston Harbor Improvement	MBDS	3778	2889	8/20/2020	42.43972	-70.60156
Boston Harbor Improvement	MBDS	3674	2809	8/20/2020	42.43890	-70.60456
Boston Harbor Improvement	MBDS	3944	3015	8/21/2020	42.43874	-70.60404
Boston Harbor Improvement	MBDS	3679	2813	8/21/2020	42.43860	-70.60475
Boston Harbor Improvement	MBDS	3897	2979	8/22/2020	42.43980	-70.60309
Boston Harbor Improvement	MBDS	3840	2936	8/22/2020	42.44012	-70.60286
Boston Harbor Improvement	MBDS	3788	2896	8/23/2020	42.43973	-70.60371
Boston Harbor Improvement	MBDS	3993	3053	8/23/2020	42.43969	-70.60299
Boston Harbor Improvement	MBDS	3525	2695	8/23/2020	42.43999	-70.60370
Boston Harbor Improvement	MBDS	3948	3019	8/24/2020	42.44035	-70.60251
Boston Harbor Improvement	MBDS	3552	2716	8/24/2020	42.44014	-70.60325
Boston Harbor Improvement	MBDS	3835	2932	8/25/2020	42.44003	-70.60321
Boston Harbor Improvement	MBDS	3414	2610	8/25/2020	42.44067	-70.60255
Boston Harbor Improvement	MBDS	3628	2774	8/25/2020	42.44011	-70.60278
Boston Harbor Improvement	MBDS	4032	3083	8/26/2020	42.44136	-70.60267
Boston Harbor Improvement	MBDS	3941	3013	8/26/2020	42.44129	-70.60254
Boston Harbor Improvement	MBDS	3373	2579	8/26/2020	42.44160	-70.60153
Boston Harbor Improvement	MBDS	3831	2929	8/27/2020	42.44102	-70.60207
Boston Harbor Improvement	MBDS	4249	3249	8/28/2020	42.44235	-70.60209
Boston Harbor Improvement	MBDS	3663	2801	8/28/2020	42.44152	-70.60269
Boston Harbor Improvement	MBDS	4187	3201	8/29/2020	42.44220	-70.60244
Boston Harbor Improvement	MBDS	3600	2753	8/29/2020	42.44140	-70.60225
Boston Harbor Improvement	MBDS	4073	3114	8/30/2020	42.44227	-70.60208
Boston Harbor Improvement	MBDS	3344	2556	8/30/2020	42.44193	-70.60089
Boston Harbor Improvement	MBDS	4006	3063	8/31/2020	42.44293	-70.60184
Boston Harbor Improvement	MBDS	3365	2573	8/31/2020	42.44309	-70.60049
Boston Harbor Improvement	MBDS	3936	3009	9/1/2020	42.44289	-70.60140
Boston Harbor Improvement	MBDS	3572	2731	9/1/2020	42.44297	-70.59965

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3504	2679	9/1/2020	42.44317	-70.60127
Boston Harbor Improvement	MBDS	3419	2614	9/2/2020	42.44407	-70.60127
Boston Harbor Improvement	MBDS	3351	2562	9/2/2020	42.44404	-70.60027
Boston Harbor Improvement	MBDS	3847	2942	9/3/2020	42.44382	-70.60082
Boston Harbor Improvement	MBDS	3612	2761	9/3/2020	42.44411	-70.60113
Boston Harbor Improvement	MBDS	3428	2621	9/3/2020	42.44391	-70.60001
Boston Harbor Improvement	MBDS	3240	2477	9/4/2020	42.43918	-70.60398
Boston Harbor Improvement	MBDS	4158	3179	9/5/2020	42.43902	-70.60448
Boston Harbor Improvement	MBDS	3980	3043	9/5/2020	42.43944	-70.60357
Boston Harbor Improvement	MBDS	3441	2631	9/5/2020	42.43910	-70.60368
Boston Harbor Improvement	MBDS	3839	2935	9/6/2020	42.43977	-70.60395
Boston Harbor Improvement	MBDS	3634	2778	9/7/2020	42.44022	-70.60415
Boston Harbor Improvement	MBDS	3565	2725	9/7/2020	42.43407	-70.58043
Boston Harbor Improvement	MBDS	3756	2872	9/8/2020	42.44067	-70.60311
Boston Harbor Improvement	MBDS	3604	2756	9/8/2020	42.44004	-70.60341
Boston Harbor Improvement	MBDS	2236	1709	9/9/2020	42.44273	-70.60237
Boston Harbor Improvement	MBDS	4151	3174	9/9/2020	42.44165	-70.60244
Boston Harbor Improvement	MBDS	3394	2595	9/9/2020	42.44073	-70.60350
Boston Harbor Improvement	MBDS	2562	1959	9/10/2020	42.44101	-70.60327
Boston Harbor Improvement	MBDS	3262	2494	9/10/2020	42.44165	-70.60282
Boston Harbor Improvement	MBDS	3100	2370	9/11/2020	42.43405	-70.58097
Boston Harbor Improvement	MBDS	3303	2526	9/11/2020	42.44143	-70.60281
Boston Harbor Improvement	MBDS	3498	2674	9/11/2020	42.44151	-70.60304
Boston Harbor Improvement	MBDS	3542	2708	9/11/2020	42.44239	-70.60247
Boston Harbor Improvement	MBDS	2511	1920	9/12/2020	42.44251	-70.60245
Boston Harbor Improvement	MBDS	3511	2685	9/12/2020	42.44202	-70.60202
Boston Harbor Improvement	MBDS	4030	3081	9/12/2020	42.44203	-70.60270
Boston Harbor Improvement	MBDS	3226	2467	9/12/2020	42.44349	-70.60134
Boston Harbor Improvement	MBDS	2546	1946	9/13/2020	42.44387	-70.60168
Boston Harbor Improvement	MBDS	2098	1604	9/13/2020	42.44486	-70.60074
Boston Harbor Improvement	MBDS	2918	2231	9/13/2020	42.44378	-70.60147
Boston Harbor Improvement	MBDS	3480	2660	9/13/2020	42.44362	-70.60205
Boston Harbor Improvement	MBDS	3801	2906	9/13/2020	42.44393	-70.60148
Boston Harbor Improvement	MBDS	3490	2668	9/13/2020	42.44309	-70.60230
Boston Harbor Improvement	MBDS	2541	1943	9/14/2020	42.44387	-70.60078
Boston Harbor Improvement	MBDS	3509	2683	9/14/2020	42.44382	-70.60181
Boston Harbor Improvement	MBDS	3852	2945	9/14/2020	42.44296	-70.60276
Boston Harbor Improvement	MBDS	2748	2101	9/14/2020	42.44215	-70.60249
Boston Harbor Improvement	MBDS	2698	2063	9/15/2020	42.43396	-70.58575
Boston Harbor Improvement	MBDS	3775	2886	9/15/2020	42.43374	-70.58638
Boston Harbor Improvement	MBDS	4219	3226	9/15/2020	42.43349	-70.58665
Boston Harbor Improvement	MBDS	4166	3185	9/15/2020	42.43477	-70.58487
Boston Harbor Improvement	MBDS	3709	2835	9/15/2020	42.43420	-70.58537
Boston Harbor Improvement	MBDS	2706	2069	9/16/2020	42.43406	-70.58446
Boston Harbor Improvement	MBDS	2648	2024	9/16/2020	42.43467	-70.58345
Boston Harbor Improvement	MBDS	3599	2752	9/16/2020	42.43438	-70.58456
Boston Harbor Improvement	MBDS	4244	3245	9/16/2020	42.43442	-70.58460
Boston Harbor Improvement	MBDS	3605	2756	9/16/2020	42.43400	-70.58535
Boston Harbor Improvement	MBDS	2538	1940	9/17/2020	42.43488	-70.58313
Boston Harbor Improvement	MBDS	3699	2828	9/17/2020	42.43464	-70.58313
Boston Harbor Improvement	MBDS	3866	2956	9/17/2020	42.43456	-70.58412
Boston Harbor Improvement	MBDS	3992	3052	9/17/2020	42.43507	-70.58256
Boston Harbor Improvement	MBDS	3559	2721	9/17/2020	42.43458	-70.58364
Boston Harbor Improvement	MBDS	2030	1552	9/18/2020	42.43664	-70.57921
Boston Harbor Improvement	MBDS	3802	2907	9/18/2020	42.43462	-70.58315
Boston Harbor Improvement	MBDS	3729	2851	9/18/2020	42.43485	-70.58228
Boston Harbor Improvement	MBDS	3704	2832	9/18/2020	42.43477	-70.58271
Boston Harbor Improvement	MBDS	2185	1671	9/19/2020	42.43513	-70.58095
Boston Harbor Improvement	MBDS	3623	2770	9/19/2020	42.43525	-70.58150
Boston Harbor Improvement	MBDS	3522	2693	9/19/2020	42.43156	-70.59220
Boston Harbor Improvement	MBDS	3976	3040	9/19/2020	42.43489	-70.58152
Boston Harbor Improvement	MBDS	3293	2518	9/19/2020	42.43519	-70.58215
Boston Harbor Improvement	MBDS	3357	2567	9/19/2020	42.43146	-70.59235
Boston Harbor Improvement	MBDS	2483	1898	9/20/2020	42.43116	-70.59293
Boston Harbor Improvement	MBDS	3166	2421	9/20/2020	42.43174	-70.59161
Boston Harbor Improvement	MBDS	3990	3051	9/20/2020	42.43132	-70.59277
Boston Harbor Improvement	MBDS	3385	2588	9/20/2020	42.43173	-70.59225
Boston Harbor Improvement	MBDS	2021	1545	9/21/2020	42.43170	-70.59145
Boston Harbor Improvement	MBDS	3436	2627	9/21/2020	42.43193	-70.59149
Boston Harbor Improvement	MBDS	3945	3016	9/21/2020	42.43187	-70.59232
Boston Harbor Improvement	MBDS	3754	2870	9/21/2020	42.43203	-70.59128
Boston Harbor Improvement	MBDS	3337	2551	9/21/2020	42.43174	-70.59151
Boston Harbor Improvement	MBDS	3296	2520	9/23/2020	42.43206	-70.59088
Boston Harbor Improvement	MBDS	2488	1902	9/24/2020	42.44380	-70.57866
Boston Harbor Improvement	MBDS	2636	2015	9/24/2020	42.43251	-70.58856
Boston Harbor Improvement	MBDS	3675	2809	9/24/2020	42.43306	-70.58346
Boston Harbor Improvement	MBDS	4199	3210	9/24/2020	42.43178	-70.59006
Boston Harbor Improvement	MBDS	4000	3058	9/24/2020	42.43242	-70.58898
Boston Harbor Improvement	MBDS	3546	2711	9/24/2020	42.43247	-70.58899
Boston Harbor Improvement	MBDS	2784	2128	9/25/2020	42.43312	-70.58670
Boston Harbor Improvement	MBDS	3585	2741	9/25/2020	42.43236	-70.58903
Boston Harbor Improvement	MBDS	3827	2926	9/25/2020	42.43241	-70.58956
Boston Harbor Improvement	MBDS	2651	2027	9/26/2020	42.43281	-70.58732

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3828	2926	9/26/2020	42.43280	-70.58801
Boston Harbor Improvement	MBDS	3641	2784	9/26/2020	42.43343	-70.58496
Boston Harbor Improvement	MBDS	3768	2880	9/26/2020	42.43251	-70.58831
Boston Harbor Improvement	MBDS	2534	1937	9/27/2020	42.43317	-70.58647
Boston Harbor Improvement	MBDS	3658	2797	9/27/2020	42.43391	-70.58083
Boston Harbor Improvement	MBDS	3651	2791	9/27/2020	42.43280	-70.58699
Boston Harbor Improvement	MBDS	3412	2608	9/27/2020	42.43289	-70.58720
Boston Harbor Improvement	MBDS	3635	2779	9/27/2020	42.43299	-70.58683
Boston Harbor Improvement	MBDS	3838	2934	9/28/2020	42.43442	-70.58580
Boston Harbor Improvement	MBDS	3904	2985	9/28/2020	42.43314	-70.58555
Boston Harbor Improvement	MBDS	4187	3201	9/28/2020	42.43299	-70.58716
Boston Harbor Improvement	MBDS	2383	1822	9/29/2020	42.43388	-70.58169
Boston Harbor Improvement	MBDS	2988	2285	9/29/2020	42.43344	-70.58536
Boston Harbor Improvement	MBDS	3980	3043	9/29/2020	42.43330	-70.58620
Boston Harbor Improvement	MBDS	3925	3001	9/30/2020	42.43391	-70.58404
Boston Harbor Improvement	MBDS	3457	2643	9/30/2020	42.43377	-70.58421
Boston Harbor Improvement	MBDS	3766	2879	10/1/2020	42.43457	-70.58462
Boston Harbor Improvement	MBDS	3408	2605	10/1/2020	42.43394	-70.58481
Boston Harbor Improvement	MBDS	4027	3079	10/1/2020	42.43338	-70.58527
Boston Harbor Improvement	MBDS	3840	2936	10/2/2020	42.43415	-70.58409
Boston Harbor Improvement	MBDS	1807	1382	10/2/2020	42.43464	-70.58256
Boston Harbor Improvement	MBDS	3770	2882	10/3/2020	42.43415	-70.58400
Boston Harbor Improvement	MBDS	3817	2918	10/4/2020	42.43427	-70.58253
Boston Harbor Improvement	MBDS	3802	2907	10/4/2020	42.43454	-70.58194
Boston Harbor Improvement	MBDS	3838	2934	10/4/2020	42.43465	-70.58277
Boston Harbor Improvement	MBDS	3981	3044	10/4/2020	42.43428	-70.58326
Boston Harbor Improvement	MBDS	3281	2508	10/5/2020	42.43388	-70.58042
Boston Harbor Improvement	MBDS	1755	1342	10/5/2020	42.43472	-70.58146
Boston Harbor Improvement	MBDS	3943	3014	10/6/2020	42.43448	-70.58195
Boston Harbor Improvement	MBDS	3776	2887	10/7/2020	42.43441	-70.58107
Boston Harbor Improvement	MBDS	3668	2805	10/7/2020	42.43497	-70.58160
Boston Harbor Improvement	MBDS	4089	3126	10/8/2020	42.43473	-70.58041
Boston Harbor Improvement	MBDS	4124	3153	10/8/2020	42.43155	-70.59112
Boston Harbor Improvement	MBDS	3397	2597	10/8/2020	42.43448	-70.58110
Boston Harbor Improvement	MBDS	3882	2968	10/8/2020	42.43480	-70.58163
Boston Harbor Improvement	MBDS	4033	3083	10/8/2020	42.43130	-70.59119
Boston Harbor Improvement	MBDS	3585	2741	10/9/2020	42.43124	-70.59227
Boston Harbor Improvement	MBDS	3880	2966	10/10/2020	42.43130	-70.58982
Boston Harbor Improvement	MBDS	3668	2805	10/10/2020	42.43132	-70.59208
Boston Harbor Improvement	MBDS	3950	3020	10/11/2020	42.43187	-70.59007
Boston Harbor Improvement	MBDS	3282	2509	10/11/2020	42.43175	-70.59017
Boston Harbor Improvement	MBDS	3814	2916	10/11/2020	42.43414	-70.58071
Boston Harbor Improvement	MBDS	3983	3046	10/12/2020	42.43190	-70.59013
Boston Harbor Improvement	MBDS	3685	2817	10/12/2020	42.43186	-70.59077
Boston Harbor Improvement	MBDS	3614	2763	10/12/2020	42.43141	-70.58967
Boston Harbor Improvement	MBDS	3289	2515	10/13/2020	42.43139	-70.58959
Boston Harbor Improvement	MBDS	3525	2695	10/14/2020	42.43220	-70.58900
Boston Harbor Improvement	MBDS	3143	2403	10/14/2020	42.43190	-70.58900
Boston Harbor Improvement	MBDS	3614	2763	10/15/2020	42.43200	-70.58950
Boston Harbor Improvement	MBDS	3288	2513	10/15/2020	42.43210	-70.58990
Boston Harbor Improvement	MBDS	3574	2733	10/15/2020	42.43260	-70.58680
Boston Harbor Improvement	MBDS	3696	2826	10/16/2020	42.43250	-70.58760
Boston Harbor Improvement	MBDS	3297	2521	10/16/2020	42.43240	-70.58800
Boston Harbor Improvement	MBDS	2991	2286	10/16/2020	42.43290	-70.58740
Boston Harbor Improvement	MBDS	3901	2982	10/17/2020	42.43300	-70.58750
Boston Harbor Improvement	MBDS	3455	2641	10/17/2020	42.43260	-70.58590
Boston Harbor Improvement	MBDS	3686	2818	10/18/2020	42.43240	-70.58730
Boston Harbor Improvement	MBDS	4214	3222	10/18/2020	42.43290	-70.58610
Boston Harbor Improvement	MBDS	3923	2999	10/19/2020	42.43260	-70.58590
Boston Harbor Improvement	MBDS	3339	2553	10/19/2020	42.43270	-70.58670
Boston Harbor Improvement	MBDS	3719	2843	10/19/2020	42.43280	-70.58650
Boston Harbor Improvement	MBDS	3074	2350	10/20/2020	42.43280	-70.58490
Boston Harbor Improvement	MBDS	3924	3000	10/21/2020	42.43310	-70.58560
Boston Harbor Improvement	MBDS	3512	2685	10/21/2020	42.43300	-70.58560
Boston Harbor Improvement	MBDS	3829	2928	10/22/2020	42.43310	-70.58540
Boston Harbor Improvement	MBDS	1709	1306	10/23/2020	42.43360	-70.58410
Boston Harbor Improvement	MBDS	4295	3284	10/27/2020	42.43310	-70.58520
Boston Harbor Improvement	MBDS	4226	3231	10/28/2020	42.43350	-70.58520
Boston Harbor Improvement	MBDS	3916	2994	10/29/2020	42.43350	-70.58470
Boston Harbor Improvement	MBDS	3696	2825	10/29/2020	42.43350	-70.58470
Boston Harbor Improvement	MBDS	3835	2932	11/1/2020	42.43420	-70.58370
Boston Harbor Improvement	MBDS	3940	3012	11/4/2020	42.43370	-70.58320
Boston Harbor Improvement	MBDS	3551	2715	11/4/2020	42.43380	-70.58360
Boston Harbor Improvement	MBDS	3737	2857	11/5/2020	42.43400	-70.58330
Boston Harbor Improvement	MBDS	4055	3100	11/5/2020	42.43370	-70.58400
Boston Harbor Improvement	MBDS	3844	2939	11/6/2020	42.43410	-70.58180
Boston Harbor Improvement	MBDS	3859	2950	11/6/2020	42.43440	-70.58190
Boston Harbor Improvement	MBDS	3978	3041	11/7/2020	42.43380	-70.58250
Boston Harbor Improvement	MBDS	3729	2851	11/7/2020	42.43390	-70.58240
Boston Harbor Improvement	MBDS	2879	2201	11/9/2020	42.43400	-70.58060
Boston Harbor Improvement	MBDS	3941	3013	11/10/2020	42.43410	-70.58220
Boston Harbor Improvement	MBDS	4182	3197	11/10/2020	42.43220	-70.58660
Boston Harbor Improvement	MBDS	4055	3101	11/11/2020	42.43225	-70.58607

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Improvement	MBDS	3869	2958	11/11/2020	42.43165	-70.58650
Boston Harbor Improvement	MBDS	3997	3056	11/11/2020	42.43229	-70.58693
Boston Harbor Improvement	MBDS	4145	3169	11/12/2020	42.43245	-70.58481
Boston Harbor Improvement	MBDS	3885	2970	11/12/2020	42.43204	-70.58583
Boston Harbor Improvement	MBDS	3887	2972	11/12/2020	42.43251	-70.58540
Boston Harbor Improvement	MBDS	4012	3067	11/13/2020	42.43237	-70.58584
Boston Harbor Improvement	MBDS	3930	3005	11/15/2020	42.43185	-70.58577
Boston Harbor Improvement	MBDS	3987	3048	11/15/2020	42.43277	-70.58470
Boston Harbor Improvement	MBDS	4155	3177	11/16/2020	42.43324	-70.58310
Boston Harbor Improvement	MBDS	3933	3007	11/17/2020	42.43291	-70.58371
Boston Harbor Improvement	MBDS	4010	3066	11/18/2020	42.43314	-70.58533
Boston Harbor Improvement	MBDS	4001	3059	11/18/2020	42.43250	-70.58465
Boston Harbor Improvement	MBDS	3001	2294	11/18/2020	42.43335	-70.58259
Boston Harbor Improvement	MBDS	4094	3130	11/19/2020	42.43313	-70.58349
Boston Harbor Improvement	MBDS	3935	3009	11/19/2020	42.43312	-70.58373
Boston Harbor Improvement	MBDS	4108	3141	11/20/2020	42.43329	-70.58310
Boston Harbor Improvement	MBDS	4246	3246	11/20/2020	42.43291	-70.58335
Boston Harbor Improvement	MBDS	4188	3202	11/20/2020	42.43179	-70.58655
Boston Harbor Improvement	MBDS	3756	2871	11/21/2020	42.43191	-70.58688
Boston Harbor Improvement	MBDS	3992	3052	11/21/2020	42.43165	-70.58625
Boston Harbor Improvement	MBDS	3807	2911	11/22/2020	42.43205	-70.58586
Boston Harbor Improvement	MBDS	4009	3065	11/25/2020	42.43186	-70.58665
Boston Harbor Improvement	MBDS	3239	2476	11/26/2020	42.43412	-70.58178
Plymouth Harbor	MBDS	1850	1414	1/3/2019	-70.57840	42.41995
Plymouth Harbor	MBDS	1927	1473	1/5/2019	-70.57750	42.41962
Plymouth Harbor	MBDS	1789	1367	1/7/2019	42.41965	-70.57745
Plymouth Harbor	MBDS	1875	1434	1/9/2019	42.42015	-70.57847
Plymouth Harbor	MBDS	1767	1351	1/10/2019	42.41663	-70.57767
Plymouth Harbor	MBDS	1843	1409	1/13/2019	42.41947	-70.57748
Plymouth Harbor	MBDS	1783	1364	1/14/2019	42.41948	-70.57773
Plymouth Harbor	MBDS	1681	1285	1/15/2019	42.41952	-70.57793
Plymouth Harbor	MBDS	1750	1338	1/16/2019	42.41945	-70.57798
Plymouth Harbor	MBDS	1739	1329	1/17/2019	42.41965	-70.57733
Plymouth Harbor	MBDS	1767	1351	1/18/2019	42.42010	-70.57807
Plymouth Harbor	MBDS	1797	1374	1/18/2019	42.41977	-70.57778
Plymouth Harbor	MBDS	1461	1117	1/19/2019	42.41973	-70.57777
Plymouth Harbor	MBDS	1475	1128	1/22/2019	42.41992	-70.57783
Plymouth Harbor	MBDS	1688	1291	1/23/2019	42.42017	-70.57778
Plymouth Harbor	MBDS	1673	1279	1/25/2019	42.41997	-70.57755
Plymouth Harbor	MBDS	1784	1364	1/26/2019	42.42008	-70.57730
Plymouth Harbor	MBDS	1763	1348	1/27/2019	42.42022	-70.57777
Plymouth Harbor	MBDS	1863	1424	1/28/2019	42.41987	-70.57698
Plymouth Harbor	MBDS	1788	1367	1/29/2019	42.41968	-70.57810
Plymouth Harbor	MBDS	1711	1309	1/31/2019	42.42067	-70.57707
Plymouth Harbor	MBDS	1229	940	1/5/2019	42.42020	-70.57750
Plymouth Harbor	MBDS	1237	946	1/4/2020	42.41900	-70.57123
Plymouth Harbor	MBDS	1230	940	1/7/2020	42.41972	-70.57043
Plymouth Harbor	MBDS	1228	939	1/8/2020	42.41917	-70.57108
Plymouth Harbor	MBDS	1138	870	1/10/2020	42.41903	-70.57098
Plymouth Harbor	MBDS	1196	914	1/11/2020	42.41923	-70.57083
Plymouth Harbor	MBDS	943	721	1/14/2020	42.41933	-70.57130
Boston Harbor Maintenance Dredging 2019	MBDS	5702	4360	9/30/2019	42.43427	-70.58165
Boston Harbor Maintenance Dredging 2019	MBDS	4862	3718	10/2/2019	42.43467	-70.58088
Boston Harbor Maintenance Dredging 2019	MBDS	1816	1388	10/3/2019	42.43378	-70.58186
Boston Harbor Maintenance Dredging 2019	MBDS	5939	4540	10/6/2019	42.43485	-70.58179
Boston Harbor Maintenance Dredging 2019	MBDS	5465	4178	10/7/2019	42.43456	-70.58283
Boston Harbor Maintenance Dredging 2019	MBDS	5806	4439	10/8/2019	42.43380	-70.58377
Boston Harbor Maintenance Dredging 2019	MBDS	5839	4464	10/8/2019	42.43435	-70.58266
Boston Harbor Maintenance Dredging 2019	MBDS	5913	4521	10/16/2019	42.43409	-70.58245
Boston Harbor Maintenance Dredging 2019	MBDS	5763	4406	10/16/2019	42.43412	-70.58335
Boston Harbor Maintenance Dredging 2019	MBDS	6004	4591	10/20/2019	42.43426	-70.58235
Boston Harbor Maintenance Dredging 2019	MBDS	5737	4386	10/20/2019	42.43452	-70.58158
Boston Harbor Maintenance Dredging 2019	MBDS	5785	4423	10/21/2019	42.43409	-70.58288
Boston Harbor Maintenance Dredging 2019	MBDS	6037	4616	10/21/2019	42.43454	-70.58186
Boston Harbor Maintenance Dredging 2019	MBDS	5871	4489	10/26/2019	42.43405	-70.58327
Boston Harbor Maintenance Dredging 2019	MBDS	5761	4405	10/26/2019	42.43436	-70.58288
Boston Harbor Maintenance Dredging 2019	MBDS	5824	4453	10/27/2019	42.43412	-70.58215
Boston Harbor Maintenance Dredging 2019	MBDS	5751	4397	11/3/2019	42.43426	-70.58330
Boston Harbor Maintenance Dredging 2019	MBDS	5866	4485	11/4/2019	42.43463	-70.58211
Boston Harbor Maintenance Dredging 2019	MBDS	5719	4373	11/4/2019	42.43416	-70.58284
Boston Harbor Maintenance Dredging 2019	MBDS	5642	4314	11/5/2019	42.43403	-70.58312
Boston Harbor Maintenance Dredging 2019	MBDS	5582	4268	11/6/2019	42.43453	-70.58296
Boston Harbor Maintenance Dredging 2019	MBDS	5787	4424	11/7/2019	42.43413	-70.58390
Boston Harbor Maintenance Dredging 2019	MBDS	5613	4291	11/11/2019	42.43359	-70.58302
Boston Harbor Maintenance Dredging 2019	MBDS	2451	1874	11/12/2019	42.43445	-70.58204
Boston Harbor Maintenance Dredging 2019	MBDS	4963	3794	10/1/2019	42.43442	-70.58290
Boston Harbor Maintenance Dredging 2019	MBDS	5675	4339	10/2/2019	42.43429	-70.58240
Boston Harbor Maintenance Dredging 2019	MBDS	6269	4793	10/6/2019	42.43467	-70.58154
Boston Harbor Maintenance Dredging 2019	MBDS	6026	4607	10/7/2019	42.43536	-70.58144
Boston Harbor Maintenance Dredging 2019	MBDS	6054	4628	10/7/2019	42.43498	-70.58231
Boston Harbor Maintenance Dredging 2019	MBDS	6261	4787	10/8/2019	42.43432	-70.58243
Boston Harbor Maintenance Dredging 2019	MBDS	4822	3686	10/9/2019	42.43382	-70.58372
Boston Harbor Maintenance Dredging 2019	MBDS	5723	4375	10/16/2019	42.43395	-70.58258

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Maintenance Dredging 2019	MBDS	6063	4635	10/21/2019	42.43486	-70.58112
Boston Harbor Maintenance Dredging 2019	MBDS	6058	4632	10/22/2019	42.43396	-70.58236
Boston Harbor Maintenance Dredging 2019	MBDS	6254	4781	10/25/2019	42.43458	-70.58272
Boston Harbor Maintenance Dredging 2019	MBDS	6193	4735	10/26/2019	42.43410	-70.58345
Boston Harbor Maintenance Dredging 2019	MBDS	6345	4851	10/26/2019	42.43444	-70.58121
Boston Harbor Maintenance Dredging 2019	MBDS	5498	4204	10/27/2019	42.43411	-70.58411
Boston Harbor Maintenance Dredging 2019	MBDS	6243	4773	11/3/2019	42.43394	-70.58286
Boston Harbor Maintenance Dredging 2019	MBDS	6140	4695	11/3/2019	42.43433	-70.58208
Boston Harbor Maintenance Dredging 2019	MBDS	6139	4694	11/4/2019	42.43468	-70.58185
Boston Harbor Maintenance Dredging 2019	MBDS	6042	4620	11/5/2019	42.43430	-70.58111
Boston Harbor Maintenance Dredging 2019	MBDS	6046	4623	11/6/2019	42.43384	-70.58388
Boston Harbor Maintenance Dredging 2019	MBDS	6178	4723	11/6/2019	42.43459	-70.58004
Boston Harbor Maintenance Dredging 2019	MBDS	5335	4079	11/7/2019	42.43458	-70.58298
Boston Harbor Maintenance Dredging 2019	MBDS	6062	4634	11/10/2019	42.43366	-70.58473
Boston Harbor Maintenance Dredging 2019	MBDS	5305	4056	11/11/2019	42.43394	-70.58385
Boston Harbor Maintenance Dredging 2017	MBDS	5426	4149	7/30/2017	42.42508	-70.60159
Boston Harbor Maintenance Dredging 2017	MBDS	5224	3994	7/31/2017	42.42537	-70.60078
Boston Harbor Maintenance Dredging 2017	MBDS	4974	3803	8/1/2017	42.42527	-70.59859
Boston Harbor Maintenance Dredging 2017	MBDS	5173	3955	8/2/2017	42.42521	-70.59818
Boston Harbor Maintenance Dredging 2017	MBDS	4936	3774	8/3/2017	42.42506	-70.59689
Boston Harbor Maintenance Dredging 2017	MBDS	4981	3809	8/4/2017	42.42507	-70.59580
Boston Harbor Maintenance Dredging 2017	MBDS	4786	3659	8/4/2017	42.42504	-70.59439
Boston Harbor Maintenance Dredging 2017	MBDS	4971	3801	8/5/2017	42.42502	-70.59248
Boston Harbor Maintenance Dredging 2017	MBDS	4676	3575	8/6/2017	42.42510	-70.59190
Boston Harbor Maintenance Dredging 2017	MBDS	4971	3800	8/7/2017	42.42520	-70.59095
Boston Harbor Maintenance Dredging 2017	MBDS	4965	3796	8/7/2017	42.42610	-70.60162
Boston Harbor Maintenance Dredging 2017	MBDS	4802	3671	8/8/2017	42.42573	-70.60010
Boston Harbor Maintenance Dredging 2017	MBDS	4748	3630	8/9/2017	42.42605	-70.59920
Boston Harbor Maintenance Dredging 2017	MBDS	5636	4309	8/10/2017	42.42600	-70.59801
Boston Harbor Maintenance Dredging 2017	MBDS	5096	3897	8/10/2017	42.42628	-70.59627
Boston Harbor Maintenance Dredging 2017	MBDS	5225	3995	8/12/2017	42.42605	-70.59539
Boston Harbor Maintenance Dredging 2017	MBDS	5390	4121	8/12/2017	42.42591	-70.59357
Boston Harbor Maintenance Dredging 2017	MBDS	5261	4022	8/14/2017	42.42616	-70.59276
Boston Harbor Maintenance Dredging 2017	MBDS	4776	3652	8/15/2017	42.42581	-70.59125
Boston Harbor Maintenance Dredging 2017	MBDS	5607	4287	8/16/2017	42.42583	-70.59060
Boston Harbor Maintenance Dredging 2017	MBDS	5493	4199	8/17/2017	42.42701	-70.60040
Boston Harbor Maintenance Dredging 2017	MBDS	4977	3805	8/17/2017	42.42717	-70.59879
Boston Harbor Maintenance Dredging 2017	MBDS	5634	4307	8/18/2017	42.42708	-70.59933
Boston Harbor Maintenance Dredging 2017	MBDS	5412	4138	8/19/2017	42.42710	-70.59766
Boston Harbor Maintenance Dredging 2017	MBDS	4968	3798	8/20/2017	42.42686	-70.59606
Boston Harbor Maintenance Dredging 2017	MBDS	5574	4262	8/20/2017	42.42687	-70.59504
Boston Harbor Maintenance Dredging 2017	MBDS	5730	4381	8/21/2017	42.42713	-70.59486
Boston Harbor Maintenance Dredging 2017	MBDS	5541	4236	8/22/2017	42.42692	-70.59379
Boston Harbor Maintenance Dredging 2017	MBDS	5548	4242	8/22/2017	42.42692	-70.59249
Boston Harbor Maintenance Dredging 2017	MBDS	5496	4202	8/23/2017	42.42711	-70.59149
Boston Harbor Maintenance Dredging 2017	MBDS	5605	4285	8/24/2017	42.42677	-70.59116
Boston Harbor Maintenance Dredging 2017	MBDS	3833	2931	8/24/2017	42.42785	-70.59741
Boston Harbor Maintenance Dredging 2017	MBDS	5451	4168	8/25/2017	42.42757	-70.59642
Boston Harbor Maintenance Dredging 2017	MBDS	5699	4357	8/26/2017	42.42768	-70.59271
Boston Harbor Maintenance Dredging 2017	MBDS	5765	4408	8/26/2017	42.42780	-70.59399
Boston Harbor Maintenance Dredging 2017	MBDS	5297	4050	8/27/2017	42.42809	-70.59297
Boston Harbor Maintenance Dredging 2017	MBDS	5516	4217	8/28/2017	42.42788	-70.59157
Boston Harbor Maintenance Dredging 2017	MBDS	5532	4229	8/28/2017	42.42784	-70.59041
Boston Harbor Maintenance Dredging 2017	MBDS	5765	4408	8/29/2017	42.42917	-70.59784
Boston Harbor Maintenance Dredging 2017	MBDS	5591	4275	8/30/2017	42.42889	-70.59717
Boston Harbor Maintenance Dredging 2017	MBDS	5432	4153	8/30/2017	42.42870	-70.59600
Boston Harbor Maintenance Dredging 2017	MBDS	5399	4128	8/31/2017	42.42876	-70.59441
Boston Harbor Maintenance Dredging 2017	MBDS	5724	4376	9/1/2017	42.42882	-70.59299
Boston Harbor Maintenance Dredging 2017	MBDS	5277	4034	9/2/2017	42.42863	-70.59261
Boston Harbor Maintenance Dredging 2017	MBDS	5270	4029	9/2/2017	42.42888	-70.59135
Boston Harbor Maintenance Dredging 2017	MBDS	5553	4246	9/3/2017	42.42544	-70.60146
Boston Harbor Maintenance Dredging 2017	MBDS	5444	4162	9/4/2017	42.42986	-70.59814
Boston Harbor Maintenance Dredging 2017	MBDS	5646	4317	9/5/2017	42.42996	-70.59637
Boston Harbor Maintenance Dredging 2017	MBDS	5573	4261	9/6/2017	42.42991	-70.59580
Boston Harbor Maintenance Dredging 2017	MBDS	5518	4219	9/7/2017	42.43014	-70.59428
Boston Harbor Maintenance Dredging 2017	MBDS	5217	3989	9/8/2017	42.42973	-70.59322
Boston Harbor Maintenance Dredging 2017	MBDS	5286	4042	9/8/2017	42.42970	-70.59167
Boston Harbor Maintenance Dredging 2017	MBDS	5429	4150	9/9/2017	42.43066	-70.59696
Boston Harbor Maintenance Dredging 2017	MBDS	5801	4435	9/10/2017	42.43057	-70.59406
Boston Harbor Maintenance Dredging 2017	MBDS	5604	4284	9/10/2017	42.43093	-70.59192
Boston Harbor Maintenance Dredging 2017	MBDS	5600	4281	9/11/2017	42.43162	-70.59393
Boston Harbor Maintenance Dredging 2017	MBDS	4973	3802	9/12/2017	42.43071	-70.59563
Boston Harbor Maintenance Dredging 2017	MBDS	5176	3957	9/13/2017	42.43066	-70.59309
Boston Harbor Maintenance Dredging 2017	MBDS	5561	4252	9/14/2017	42.43233	-70.58900
Boston Harbor Maintenance Dredging 2017	MBDS	5457	4172	9/15/2017	42.43136	-70.59211
Boston Harbor Maintenance Dredging 2017	MBDS	5543	4238	9/16/2017	42.43244	-70.59278
Boston Harbor Maintenance Dredging 2017	MBDS	4413	3374	9/17/2017	42.43227	-70.59005
Boston Harbor Maintenance Dredging 2017	MBDS	4666	3567	9/18/2017	42.43232	-70.58756
Boston Harbor Maintenance Dredging 2017	MBDS	4981	3808	9/19/2017	42.43195	-70.58552
Boston Harbor Maintenance Dredging 2017	MBDS	5210	3984	9/23/2017	42.43219	-70.58057
Boston Harbor Maintenance Dredging 2017	MBDS	5352	4092	9/24/2017	42.43216	-70.58061
Boston Harbor Maintenance Dredging 2017	MBDS	3654	2794	9/25/2017	42.43340	-70.59182
Boston Harbor Maintenance Dredging 2017	MBDS	5152	3939	9/26/2017	42.43066	-70.59770

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Maintenance Dredging 2017	MBDS	5730	4381	9/26/2017	42.43152	-70.59594
Boston Harbor Maintenance Dredging 2017	MBDS	5669	4334	9/27/2017	42.43230	-70.59284
Boston Harbor Maintenance Dredging 2017	MBDS	5312	4061	9/28/2017	42.43268	-70.59136
Boston Harbor Maintenance Dredging 2017	MBDS	5183	3962	9/29/2017	42.43303	-70.58892
Boston Harbor Maintenance Dredging 2017	MBDS	5484	4193	9/29/2017	42.43406	-70.58668
Boston Harbor Maintenance Dredging 2017	MBDS	5665	4331	9/30/2017	42.43469	-70.58411
Boston Harbor Maintenance Dredging 2017	MBDS	5504	4208	10/1/2017	42.43163	-70.59593
Boston Harbor Maintenance Dredging 2017	MBDS	5473	4185	10/2/2017	42.43206	-70.59446
Boston Harbor Maintenance Dredging 2017	MBDS	5321	4068	10/2/2017	42.43304	-70.59175
Boston Harbor Maintenance Dredging 2017	MBDS	5305	4056	10/3/2017	42.43348	-70.58941
Boston Harbor Maintenance Dredging 2017	MBDS	5414	4139	10/4/2017	42.43396	-70.58735
Boston Harbor Maintenance Dredging 2017	MBDS	5360	4098	10/5/2017	42.43455	-70.58536
Boston Harbor Maintenance Dredging 2017	MBDS	5683	4345	10/6/2017	42.43277	-70.59301
Boston Harbor Maintenance Dredging 2017	MBDS	5515	4217	10/7/2017	42.43347	-70.59058
Boston Harbor Maintenance Dredging 2017	MBDS	5764	4407	10/7/2017	42.43447	-70.58791
Boston Harbor Maintenance Dredging 2017	MBDS	5569	4258	10/8/2017	42.43040	-70.59722
Boston Harbor Maintenance Dredging 2017	MBDS	5524	4224	10/9/2017	42.43213	-70.59319
Boston Harbor Maintenance Dredging 2017	MBDS	5091	3892	10/10/2017	42.43286	-70.59032
Boston Harbor Maintenance Dredging 2017	MBDS	5697	4356	10/10/2017	42.43438	-70.58561
Boston Harbor Maintenance Dredging 2017	MBDS	5503	4208	10/11/2017	42.43202	-70.59542
Boston Harbor Maintenance Dredging 2017	MBDS	5541	4236	10/12/2017	42.43304	-70.59115
Boston Harbor Maintenance Dredging 2017	MBDS	5684	4346	10/12/2017	42.43461	-70.58459
Boston Harbor Maintenance Dredging 2017	MBDS	5334	4078	10/13/2017	42.43218	-70.59424
Boston Harbor Maintenance Dredging 2017	MBDS	6045	4622	7/31/2017	42.42503	-70.60219
Boston Harbor Maintenance Dredging 2017	MBDS	5679	4342	8/1/2017	42.42505	-70.60021
Boston Harbor Maintenance Dredging 2017	MBDS	5783	4422	8/1/2017	42.42508	-70.59934
Boston Harbor Maintenance Dredging 2017	MBDS	5908	4517	8/2/2017	42.42509	-70.59813
Boston Harbor Maintenance Dredging 2017	MBDS	5111	3908	8/3/2017	42.42495	-70.59705
Boston Harbor Maintenance Dredging 2017	MBDS	5630	4304	8/4/2017	42.42507	-70.59574
Boston Harbor Maintenance Dredging 2017	MBDS	5898	4510	8/5/2017	42.42511	-70.59378
Boston Harbor Maintenance Dredging 2017	MBDS	5984	4575	8/6/2017	42.42508	-70.59319
Boston Harbor Maintenance Dredging 2017	MBDS	5524	4223	8/6/2017	42.42513	-70.59229
Boston Harbor Maintenance Dredging 2017	MBDS	5763	4406	8/7/2017	42.42514	-70.59079
Boston Harbor Maintenance Dredging 2017	MBDS	5419	4143	8/8/2017	42.42601	-70.60185
Boston Harbor Maintenance Dredging 2017	MBDS	5438	4158	8/9/2017	42.42642	-70.60032
Boston Harbor Maintenance Dredging 2017	MBDS	5732	4382	8/9/2017	42.42608	-70.59951
Boston Harbor Maintenance Dredging 2017	MBDS	5713	4368	8/10/2017	42.42606	-70.59794
Boston Harbor Maintenance Dredging 2017	MBDS	5151	3938	8/11/2017	42.42604	-70.59441
Boston Harbor Maintenance Dredging 2017	MBDS	5730	4381	8/12/2017	42.42629	-70.59445
Boston Harbor Maintenance Dredging 2017	MBDS	5114	3910	8/14/2017	42.42597	-70.59435
Boston Harbor Maintenance Dredging 2017	MBDS	5390	4121	8/14/2017	42.42599	-70.59298
Boston Harbor Maintenance Dredging 2017	MBDS	5816	4446	8/15/2017	42.42593	-70.59167
Boston Harbor Maintenance Dredging 2017	MBDS	5236	4003	8/16/2017	42.42594	-70.59072
Boston Harbor Maintenance Dredging 2017	MBDS	4957	3790	8/17/2017	42.42693	-70.60029
Boston Harbor Maintenance Dredging 2017	MBDS	5522	4222	8/18/2017	42.42692	-70.59927
Boston Harbor Maintenance Dredging 2017	MBDS	5972	4566	8/18/2017	42.42718	-70.59782
Boston Harbor Maintenance Dredging 2017	MBDS	5724	4376	8/19/2017	42.42704	-70.59674
Boston Harbor Maintenance Dredging 2017	MBDS	2131	1629	8/20/2017	42.42689	-70.59481
Boston Harbor Maintenance Dredging 2017	MBDS	5309	4059	8/21/2017	42.42710	-70.59461
Boston Harbor Maintenance Dredging 2017	MBDS	5821	4450	8/21/2017	42.42706	-70.59302
Boston Harbor Maintenance Dredging 2017	MBDS	5350	4091	8/22/2017	42.42697	-70.59158
Boston Harbor Maintenance Dredging 2017	MBDS	5934	4536	8/23/2017	42.42677	-70.58983
Boston Harbor Maintenance Dredging 2017	MBDS	5158	3944	8/23/2017	42.42794	-70.59869
Boston Harbor Maintenance Dredging 2017	MBDS	5652	4321	8/24/2017	42.42815	-70.59881
Boston Harbor Maintenance Dredging 2017	MBDS	5283	4039	8/25/2017	42.42770	-70.59776
Boston Harbor Maintenance Dredging 2017	MBDS	5944	4544	8/25/2017	42.42751	-70.59683
Boston Harbor Maintenance Dredging 2017	MBDS	5718	4372	8/26/2017	42.42762	-70.59514
Boston Harbor Maintenance Dredging 2017	MBDS	5300	4052	8/27/2017	42.42774	-70.59397
Boston Harbor Maintenance Dredging 2017	MBDS	5815	4446	8/27/2017	42.42757	-70.59252
Boston Harbor Maintenance Dredging 2017	MBDS	5294	4047	8/28/2017	42.42773	-70.59152
Boston Harbor Maintenance Dredging 2017	MBDS	5295	4048	8/29/2017	42.42818	-70.59012
Boston Harbor Maintenance Dredging 2017	MBDS	5771	4412	8/29/2017	42.42877	-70.59803
Boston Harbor Maintenance Dredging 2017	MBDS	5606	4286	8/30/2017	42.42876	-70.59743
Boston Harbor Maintenance Dredging 2017	MBDS	5578	4265	8/31/2017	42.42875	-70.59598
Boston Harbor Maintenance Dredging 2017	MBDS	5489	4197	8/31/2017	42.42872	-70.59488
Boston Harbor Maintenance Dredging 2017	MBDS	5963	4559	9/1/2017	42.42867	-70.59390
Boston Harbor Maintenance Dredging 2017	MBDS	5474	4185	9/2/2017	42.42863	-70.59287
Boston Harbor Maintenance Dredging 2017	MBDS	5773	4414	9/3/2017	42.42896	-70.59135
Boston Harbor Maintenance Dredging 2017	MBDS	5794	4430	9/4/2017	42.42521	-70.59980
Boston Harbor Maintenance Dredging 2017	MBDS	5988	4578	9/5/2017	42.42952	-70.59841
Boston Harbor Maintenance Dredging 2017	MBDS	5260	4022	9/6/2017	42.42948	-70.59660
Boston Harbor Maintenance Dredging 2017	MBDS	5767	4409	9/6/2017	42.42952	-70.59583
Boston Harbor Maintenance Dredging 2017	MBDS	5315	4063	9/7/2017	42.42982	-70.59453
Boston Harbor Maintenance Dredging 2017	MBDS	5029	3845	9/9/2017	42.42944	-70.59117
Boston Harbor Maintenance Dredging 2017	MBDS	5745	4393	9/9/2017	42.43079	-70.59565
Boston Harbor Maintenance Dredging 2017	MBDS	5922	4528	9/10/2017	42.43055	-70.59316
Boston Harbor Maintenance Dredging 2017	MBDS	6073	4643	9/11/2017	42.43164	-70.59529
Boston Harbor Maintenance Dredging 2017	MBDS	5413	4138	9/11/2017	42.42955	-70.59033
Boston Harbor Maintenance Dredging 2017	MBDS	5287	4042	9/12/2017	42.43140	-70.59217
Boston Harbor Maintenance Dredging 2017	MBDS	5788	4425	9/13/2017	42.43057	-70.59456
Boston Harbor Maintenance Dredging 2017	MBDS	5310	4060	9/13/2017	42.43265	-70.59169
Boston Harbor Maintenance Dredging 2017	MBDS	5875	4492	9/14/2017	42.43159	-70.59552
Boston Harbor Maintenance Dredging 2017	MBDS	5572	4260	9/15/2017	42.43137	-70.59292

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Maintenance Dredging 2017	MBDS	5403	4131	9/16/2017	42.43219	-70.58417
Boston Harbor Maintenance Dredging 2017	MBDS	5855	4477	9/17/2017	42.43238	-70.58132
Boston Harbor Maintenance Dredging 2017	MBDS	6042	4619	9/18/2017	42.43204	-70.57681
Boston Harbor Maintenance Dredging 2017	MBDS	5692	4352	9/19/2017	42.43211	-70.58419
Boston Harbor Maintenance Dredging 2017	MBDS	5839	4464	9/24/2017	42.43223	-70.58180
Boston Harbor Maintenance Dredging 2017	MBDS	5831	4458	9/25/2017	42.43235	-70.57937
Boston Harbor Maintenance Dredging 2017	MBDS	5245	4010	9/25/2017	42.43346	-70.59048
Boston Harbor Maintenance Dredging 2017	MBDS	0	0	9/26/2017	42.43109	-70.59690
Boston Harbor Maintenance Dredging 2017	MBDS	5575	4262	9/27/2017	42.43169	-70.59470
Boston Harbor Maintenance Dredging 2017	MBDS	5241	4007	9/27/2017	42.43232	-70.59282
Boston Harbor Maintenance Dredging 2017	MBDS	5229	3998	9/28/2017	42.43302	-70.59037
Boston Harbor Maintenance Dredging 2017	MBDS	5240	4006	9/29/2017	42.43355	-70.58957
Boston Harbor Maintenance Dredging 2017	MBDS	5450	4167	9/30/2017	42.43403	-70.58715
Boston Harbor Maintenance Dredging 2017	MBDS	5620	4297	10/1/2017	42.43464	-70.58461
Boston Harbor Maintenance Dredging 2017	MBDS	5451	4168	10/2/2017	42.43165	-70.59681
Boston Harbor Maintenance Dredging 2017	MBDS	5802	4436	10/2/2017	42.43207	-70.59482
Boston Harbor Maintenance Dredging 2017	MBDS	5989	4579	10/3/2017	42.43321	-70.59221
Boston Harbor Maintenance Dredging 2017	MBDS	5927	4531	10/4/2017	42.43351	-70.59021
Boston Harbor Maintenance Dredging 2017	MBDS	5433	4154	10/5/2017	42.43242	-70.59411
Boston Harbor Maintenance Dredging 2017	MBDS	5690	4350	10/6/2017	42.43273	-70.59376
Boston Harbor Maintenance Dredging 2017	MBDS	5380	4113	10/7/2017	42.43375	-70.59133
Boston Harbor Maintenance Dredging 2017	MBDS	5742	4390	10/8/2017	42.43415	-70.58884
Boston Harbor Maintenance Dredging 2017	MBDS	6064	4636	10/9/2017	42.43068	-70.59708
Boston Harbor Maintenance Dredging 2017	MBDS	5748	4395	10/9/2017	42.43256	-70.59109
Boston Harbor Maintenance Dredging 2017	MBDS	5548	4242	10/12/2017	42.43378	-70.58912
Boston Harbor Maintenance Dredging 2017	MBDS	5530	4228	10/13/2017	42.43249	-70.59485
Boston Harbor Maintenance Dredging 2017	MBDS	4482	3427	9/8/2017	42.43000	-70.59369
Boston Harbor Maintenance Dredging 2017	MBDS	4483	3428	9/11/2017	42.42987	-70.59251
Boston Harbor Maintenance Dredging 2017	MBDS	4795	3666	9/12/2017	42.43082	-70.59709
Boston Harbor Maintenance Dredging 2017	MBDS	4429	3386	9/12/2017	42.43247	-70.59428
Boston Harbor Maintenance Dredging 2017	MBDS	4057	3102	9/14/2017	42.43075	-70.59207
Boston Harbor Maintenance Dredging 2017	MBDS	4575	3498	9/14/2017	42.43150	-70.59463
Boston Harbor Maintenance Dredging 2017	MBDS	4923	3764	9/15/2017	42.43220	-70.58675
Boston Harbor Maintenance Dredging 2017	MBDS	4479	3425	9/16/2017	42.43267	-70.59370
Boston Harbor Maintenance Dredging 2017	MBDS	4542	3473	9/17/2017	42.43223	-70.59183
Boston Harbor Maintenance Dredging 2017	MBDS	4140	3165	9/17/2017	42.43238	-70.58961
Boston Harbor Maintenance Dredging 2017	MBDS	4277	3270	9/18/2017	42.43227	-70.58714
Boston Harbor Maintenance Dredging 2017	MBDS	2415	1846	9/19/2017	42.43312	-70.59093
Boston Harbor Maintenance Dredging 2017	MBDS	5033	3848	9/24/2017	42.43317	-70.58825
Boston Harbor Maintenance Dredging 2017	MBDS	4813	3680	9/25/2017	42.43312	-70.58608
Boston Harbor Maintenance Dredging 2017	MBDS	4884	3734	9/25/2017	42.43321	-70.58342
Boston Harbor Maintenance Dredging 2017	MBDS	4930	3769	9/26/2017	42.43078	-70.59756
Boston Harbor Maintenance Dredging 2017	MBDS	4357	3332	9/27/2017	42.43175	-70.59519
Boston Harbor Maintenance Dredging 2017	MBDS	4277	3270	9/28/2017	42.43229	-70.59298
Boston Harbor Maintenance Dredging 2017	MBDS	4470	3418	9/29/2017	42.43275	-70.59055
Boston Harbor Maintenance Dredging 2017	MBDS	4028	3080	9/30/2017	42.43359	-70.58850
Boston Harbor Maintenance Dredging 2017	MBDS	4165	3184	9/30/2017	42.43391	-70.58644
Boston Harbor Maintenance Dredging 2017	MBDS	4560	3486	10/1/2017	42.43180	-70.59532
Boston Harbor Maintenance Dredging 2017	MBDS	4016	3070	10/2/2017	42.43226	-70.59361
Boston Harbor Maintenance Dredging 2017	MBDS	4880	3731	10/3/2017	42.43292	-70.59133
Boston Harbor Maintenance Dredging 2017	MBDS	4271	3265	10/3/2017	42.43384	-70.58913
Boston Harbor Maintenance Dredging 2017	MBDS	4594	3512	10/4/2017	42.43465	-70.58626
Boston Harbor Maintenance Dredging 2017	MBDS	4630	3540	10/5/2017	42.43453	-70.58805
Boston Harbor Maintenance Dredging 2017	MBDS	4574	3497	10/6/2017	42.43451	-70.58575
Boston Harbor Maintenance Dredging 2017	MBDS	4517	3453	10/6/2017	42.43315	-70.59234
Boston Harbor Maintenance Dredging 2017	MBDS	4774	3650	10/7/2017	42.43409	-70.58945
Boston Harbor Maintenance Dredging 2017	MBDS	4759	3639	10/8/2017	42.43447	-70.58716
Boston Harbor Maintenance Dredging 2017	MBDS	4179	3195	10/8/2017	42.43115	-70.59622
Boston Harbor Maintenance Dredging 2017	MBDS	4426	3384	10/9/2017	42.43254	-70.59287
Boston Harbor Maintenance Dredging 2017	MBDS	4769	3646	10/10/2017	42.43373	-70.58818
Boston Harbor Maintenance Dredging 2017	MBDS	1847	1412	10/11/2017	42.43241	-70.59248
Boston Harbor Maintenance Dredging 2017	MBDS	4529	3463	10/12/2017	42.43380	-70.58691
Boston Harbor Maintenance Dredging 2017	MBDS	4591	3510	10/13/2017	42.43161	-70.59688
Boston Harbor Maintenance Dredging 2017	MBDS	4139	3164	9/11/2017	42.43157	-70.59266
Boston Harbor Maintenance Dredging 2017	MBDS	3810	2913	9/13/2017	42.43226	-70.59281
Boston Harbor Maintenance Dredging 2017	MBDS	4525	3460	9/14/2017	42.43241	-70.59049
Boston Harbor Maintenance Dredging 2017	MBDS	4423	3382	9/15/2017	42.43250	-70.58812
Boston Harbor Maintenance Dredging 2017	MBDS	5155	3941	9/15/2017	42.43229	-70.58546
Boston Harbor Maintenance Dredging 2017	MBDS	4918	3760	9/17/2017	42.43204	-70.58330
Boston Harbor Maintenance Dredging 2017	MBDS	5072	3878	9/18/2017	42.43211	-70.58041
Boston Harbor Maintenance Dredging 2017	MBDS	4939	3776	9/18/2017	42.43324	-70.59228
Boston Harbor Maintenance Dredging 2017	MBDS	4844	3704	9/24/2017	42.43351	-70.58945
Boston Harbor Maintenance Dredging 2017	MBDS	5066	3873	9/24/2017	42.43340	-70.58730
Boston Harbor Maintenance Dredging 2017	MBDS	4897	3744	9/25/2017	42.43326	-70.58481
Boston Harbor Maintenance Dredging 2017	MBDS	4778	3653	9/26/2017	42.43050	-70.59829
Boston Harbor Maintenance Dredging 2017	MBDS	5015	3834	9/27/2017	42.43139	-70.59631
Boston Harbor Maintenance Dredging 2017	MBDS	4736	3621	9/27/2017	42.43215	-70.59402
Boston Harbor Maintenance Dredging 2017	MBDS	4828	3691	9/28/2017	42.43240	-70.59181
Boston Harbor Maintenance Dredging 2017	MBDS	4727	3614	9/29/2017	42.43348	-70.58811
Boston Harbor Maintenance Dredging 2017	MBDS	5038	3852	9/30/2017	42.43458	-70.58602
Boston Harbor Maintenance Dredging 2017	MBDS	4896	3744	9/30/2017	42.43471	-70.58389
Boston Harbor Maintenance Dredging 2017	MBDS	4835	3696	10/1/2017	42.43524	-70.58354
Boston Harbor Maintenance Dredging 2017	MBDS	4756	3637	10/2/2017	42.43189	-70.59606

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
Boston Harbor Maintenance Dredging 2017	MBDS	4953	3787	10/3/2017	42.43259	-70.59361
Boston Harbor Maintenance Dredging 2017	MBDS	4990	3815	10/4/2017	42.43352	-70.59127
Boston Harbor Maintenance Dredging 2017	MBDS	5239	4005	10/4/2017	42.43389	-70.58932
Boston Harbor Maintenance Dredging 2017	MBDS	4822	3687	10/5/2017	42.43480	-70.58681
Boston Harbor Maintenance Dredging 2017	MBDS	4896	3744	10/6/2017	42.43241	-70.59494
Boston Harbor Maintenance Dredging 2017	MBDS	4555	3483	10/7/2017	42.43336	-70.59270
Boston Harbor Maintenance Dredging 2017	MBDS	4644	3550	10/8/2017	42.43411	-70.59038
Boston Harbor Maintenance Dredging 2017	MBDS	5157	3943	10/8/2017	42.43478	-70.58781
Boston Harbor Maintenance Dredging 2017	MBDS	5091	3893	10/9/2017	42.43162	-70.59487
Boston Harbor Maintenance Dredging 2017	MBDS	5173	3955	10/11/2017	42.43480	-70.58389
Boston Harbor Maintenance Dredging 2017	MBDS	4844	3703	10/12/2017	42.43308	-70.58929
Boston Harbor Maintenance Dredging 2017	MBDS	4727	3614	10/12/2017	42.43447	-70.58705
Boston Harbor Maintenance Dredging 2017	MBDS	5066	3874	10/13/2017	42.43290	-70.59287
Plymouth Yacht Club	MBDS	1179	901	1/18/2020	42.41920	-70.57087
Plymouth Yacht Club	MBDS	1008	770	1/21/2020	42.41912	-70.57033
Plymouth Yacht Club	MBDS	1073	820	1/22/2020	42.41933	-70.57118
Plymouth Yacht Club	MBDS	1025	784	1/23/2020	42.41908	-70.57122
Plymouth Yacht Club	MBDS	914	698	1/24/2020	42.41927	-70.57127
Plymouth Yacht Club	MBDS	971	742	1/27/2020	42.41943	-70.57065
Brewer Hawthorne Cove Marina	MBDS	307	235	10/3/2019	42.41944	-70.57688
Brewer Hawthorne Cove Marina	MBDS	192	147	10/6/2019	42.41950	-70.57704
Brewer Hawthorne Cove Marina	MBDS	529	405	10/8/2019	42.42254	-70.58261
Brewer Hawthorne Cove Marina	MBDS	188	144	10/15/2019	42.41883	-70.57552
Brewer Hawthorne Cove Marina	MBDS	706	540	10/16/2019	42.41886	-70.57775
Brewer Hawthorne Cove Marina	MBDS	362	277	10/19/2019	42.41924	-70.57814
Brewer Hawthorne Cove Marina	MBDS	501	383	10/21/2019	42.42287	-70.58152
Brewer Hawthorne Cove Marina	MBDS	682	521	10/23/2019	42.41886	-70.57729
Brewer Hawthorne Cove Marina	MBDS	582	445	10/24/2019	42.42495	-70.58186
Brewer Hawthorne Cove Marina	MBDS	594	455	10/25/2019	42.41960	-70.57850
Brewer Hawthorne Cove Marina	MBDS	655	501	10/29/2019	42.42041	-70.57805
Brewer Hawthorne Cove Marina	MBDS	408	312	10/30/2019	42.41998	-70.57747
Brewer Hawthorne Cove Marina	MBDS	183	140	11/2/2019	42.41965	-70.57757
Brewer Hawthorne Cove Marina	MBDS	334	255	11/4/2019	42.41999	-70.57805
Brewer Hawthorne Cove Marina	MBDS	250	191	11/6/2019	42.41986	-70.57814
Brewer Hawthorne Cove Marina	MBDS	290	222	11/9/2019	42.42469	-70.58263
Brewer Hawthorne Cove Marina	MBDS	462	353	11/11/2019	42.42242	-70.58070
Brewer Hawthorne Cove Marina	MBDS	375	286	11/12/2019	42.41945	-70.57710
Brewer Hawthorne Cove Marina	MBDS	361	276	11/13/2019	42.42004	-70.57870
Brewer Hawthorne Cove Marina	MBDS	328	251	11/14/2019	42.41448	-70.57340
Brewer Hawthorne Cove Marina	MBDS	297	227	1/3/2020	42.42197	-70.57327
Brewer Hawthorne Cove Marina	MBDS	399	305	1/4/2020	42.41865	-70.57256
Brewer Hawthorne Cove Marina	MBDS	470	359	1/6/2020	42.41707	-70.57410
Brewer Hawthorne Cove Marina	MBDS	287	219	1/7/2020	42.41913	-70.57598
Brewer Hawthorne Cove Marina	MBDS	212	162	1/11/2020	42.41860	-70.57430
Brewer Hawthorne Cove Marina	MBDS	365	279	1/13/2020	42.41894	-70.57511
Brewer Hawthorne Cove Marina	MBDS	450	344	1/20/2020	42.41850	-70.57518
Brewer Hawthorne Cove Marina	MBDS	161	123	1/23/2020	42.42000	-70.57852
Brewer Hawthorne Cove Marina	MBDS	397	304	1/23/2020	42.41970	-70.57781
Brewer Hawthorne Cove Marina	MBDS	295	226	1/24/2020	42.41947	-70.57676
Brewer Hawthorne Cove Marina	MBDS	275	210	1/28/2020	42.42033	-70.57815
Brewer Hawthorne Cove Marina	MBDS	478	365	1/26/2021	42.42148	-70.58885
Brewer Hawthorne Cove Marina	MBDS	540	413	1/26/2021	42.41814	-70.57783
Brewer Hawthorne Cove Marina	MBDS	606	464	1/27/2021	42.41922	-70.57802
Brewer Hawthorne Cove Marina	MBDS	604	462	1/28/2021	42.41928	-70.57788
Brewer Hawthorne Cove Marina	MBDS	410	313	1/31/2021	42.42009	-70.57855
Brewer Hawthorne Cove Marina	MBDS	226	173	2/5/2021	42.41882	-70.57655
Brewer Hawthorne Cove Marina	MBDS	287	220	2/5/2021	42.42064	-70.57797
Brewer Hawthorne Cove Marina	MBDS	307	235	2/6/2021	42.41924	-70.57720
Brewer Hawthorne Cove Marina	MBDS	155	119	2/6/2021	42.41947	-70.57550
Brewer Hawthorne Cove Marina	MBDS	118	90	2/7/2021	42.41924	-70.57628
Brewer Hawthorne Cove Marina	MBDS	273	209	2/7/2021	42.41871	-70.57354
Brewer Hawthorne Cove Marina	MBDS	281	215	2/9/2021	42.42010	-70.57853
South River	MBDS	540	413	8/1/2019	42.41980	-70.57642
South River	MBDS	579	443	8/5/2019	42.41970	-70.57790
South River	MBDS	535	409	8/12/2019	42.41960	-70.57782
South River	MBDS	541	414	8/13/2019	42.41992	-70.57792
South River	MBDS	554	424	8/15/2019	42.42022	-70.57782
South River	MBDS	534	408	8/16/2019	42.41997	-70.57777
South River	MBDS	558	426	8/20/2019	42.41968	-70.57713
South River	MBDS	519	397	8/22/2019	42.41970	-70.57778
South River	MBDS	509	389	8/22/2019	42.42010	-70.57825
South River	MBDS	524	401	8/28/2019	42.41970	-70.57747
South River	MBDS	473	362	9/16/2019	42.41953	-70.57772
South River	MBDS	537	410	9/23/2019	42.42032	-70.57627
South River	MBDS	583	446	7/17/2019	42.42072	-70.57810
South River	MBDS	583	445	7/18/2019	42.42022	-70.57757
South River	MBDS	590	451	7/19/2019	42.41958	-70.57773
South River	MBDS	596	456	7/22/2019	42.41990	-70.57783
South River	MBDS	569	435	7/24/2019	42.42028	-70.57712
South River	MBDS	510	390	7/25/2019	42.42008	-70.57778
South River	MBDS	559	427	7/26/2019	42.42040	-70.57803
South River	MBDS	541	413	7/29/2019	42.42007	-70.57782
South River	MBDS	513	393	7/30/2019	42.41975	-70.57780

**Appendix B  
Disposal Barge Logs**

Project Name	Target Site	Load Volume (yd <sup>3</sup> )	Load Volume (m <sup>3</sup> )	Disposal Date	Latitude	Longitude
South River	MBDS	579	442	8/1/2019	42.42018	-70.57662
South River	MBDS	534	408	8/1/2019	42.41972	-70.57767
South River	MBDS	551	421	8/2/2019	42.41937	-70.57748
South River	MBDS	551	421	8/6/2019	42.42013	-70.57750
South River	MBDS	574	439	8/7/2019	42.42033	-70.57763
South River	MBDS	530	405	8/9/2019	42.42042	-70.57752
South River	MBDS	573	438	8/9/2019	42.42003	-70.57705
South River	MBDS	530	405	8/13/2019	42.41968	-70.57758
South River	MBDS	537	410	8/14/2019	42.41983	-70.57753
South River	MBDS	550	420	8/15/2019	42.41972	-70.57790
South River	MBDS	540	413	8/17/2019	42.41980	-70.57770
South River	MBDS	517	395	8/19/2019	42.41960	-70.57738
South River	MBDS	548	419	8/21/2019	42.42032	-70.57800
South River	MBDS	530	405	8/21/2019	42.42022	-70.57765
South River	MBDS	514	393	8/23/2019	42.41978	-70.57652
South River	MBDS	534	408	8/23/2019	42.41975	-70.57727
South River	MBDS	150	115	8/29/2019	42.41978	-70.57787
South River	MBDS	170	130	9/3/2019	42.41957	-70.57815
South River	MBDS	141	108	9/4/2019	42.41945	-70.57722
South River	MBDS	104	80	9/6/2019	42.41975	-70.57692
South River	MBDS	26	20	9/12/2019	42.41990	-70.57818
South River	MBDS	413	316	9/16/2019	42.42070	-70.57802
South River	MBDS	471	360	9/17/2019	42.41947	-70.57780
South River	MBDS	429	328	9/24/2019	42.41930	-70.57838
South River	MBDS	472	361	9/26/2019	42.42035	-70.57695
South River	MBDS	475	363	10/2/2019	42.42123	-70.57665
Hingham Harbor	MBDS	1713	1309	10/5/2019	42.41937	-70.57036
Hingham Harbor	MBDS	1547	1182	10/6/2019	42.41886	-70.57121
Hingham Harbor	MBDS	1933	1478	10/7/2019	42.41904	-70.57004
Hingham Harbor	MBDS	1787	1367	10/8/2019	42.41923	-70.57088
Hingham Harbor	MBDS	1491	1140	10/9/2019	42.41980	-70.57052
Hingham Harbor	MBDS	1911	1461	10/13/2019	42.41864	-70.57057
Hingham Harbor	MBDS	2197	1680	10/14/2019	42.41889	-70.57059
Hingham Harbor	MBDS	2221	1698	10/15/2019	42.41889	-70.57081
Hingham Harbor	MBDS	2006	1533	10/16/2019	42.41904	-70.57025
Hingham Harbor	MBDS	1886	1442	10/17/2019	42.41928	-70.57205
Hingham Harbor	MBDS	2065	1579	10/18/2019	42.41862	-70.57171
Hingham Harbor	MBDS	2195	1679	10/20/2019	42.41913	-70.57171
Hingham Harbor	MBDS	2208	1688	10/21/2019	42.41918	-70.57081
Hingham Harbor	MBDS	2070	1582	10/22/2019	42.41899	-70.57096
Hingham Harbor	MBDS	1879	1436	10/23/2019	42.41922	-70.57066
Hingham Harbor	MBDS	1917	1466	10/24/2019	42.41917	-70.57080
Hingham Harbor	MBDS	2143	1639	10/25/2019	42.41884	-70.57073
Hingham Harbor	MBDS	2055	1571	10/26/2019	42.41904	-70.57111
Hingham Harbor	MBDS	2241	1714	10/27/2019	42.41915	-70.57081
Hingham Harbor	MBDS	2093	1600	10/30/2019	42.41891	-70.57085
Hingham Harbor	MBDS	2108	1612	10/30/2019	42.41933	-70.57155
Hingham Harbor	MBDS	1824	1395	10/31/2019	42.41942	-70.57046
Hingham Harbor	MBDS	2195	1678	11/2/2019	42.41933	-70.57187
Hingham Harbor	MBDS	2177	1664	11/3/2019	42.41975	-70.57155
Hingham Harbor	MBDS	2236	1709	11/4/2019	42.41899	-70.57185
Hingham Harbor	MBDS	2202	1684	11/5/2019	42.41907	-70.57151
Hingham Harbor	MBDS	2135	1632	11/6/2019	42.41940	-70.57160
Hingham Harbor	MBDS	1470	1124	11/7/2019	42.41921	-70.57160
Eversource HEEC Cable	MBDS	3078	2353	11/8/2019	42.42324	-70.57145
Eversource HEEC Cable	MBDS	3549	2714	11/20/2019	42.42306	-70.57217
Eversource HEEC Cable	MBDS	3609	2759	11/23/2019	42.42350	-70.57253
Eversource HEEC Cable	MBDS	3127	2390	12/20/2019	42.42303	-70.57164
Eversource HEEC Cable	MBDS	2467	1886	12/21/2019	42.42466	-70.56678
Eversource HEEC Cable	MBDS	1873	1432	12/23/2019	42.42325	-70.57116
Eversource HEEC Cable	MBDS	3442	2632	1/5/2020	42.42285	-70.57179
Eversource HEEC Cable	MBDS	3423	2617	1/7/2020	42.42381	-70.57231

## **Appendix C**

### **AUV Contact Report, 2019**

## Appendix - C

## Massachusetts Bay Disposal Site – IWS Side Scan Sonar Contacts

July 1, 2019

<b>Location ID</b>	<b>Date/Time</b>	<b>Latitude</b>	<b>Longitude</b>
IWS19-2	7/1/2019 16:20	42.432740	-70.593980
IWS19-3	7/1/2019 16:30	42.436108	-70.582892
IWS19-4	7/1/2019 16:30	42.436271	-70.582799
IWS19-5	7/1/2019 16:31	42.436303	-70.582596
IWS19-6	7/1/2019 16:34	42.437136	-70.579071
IWS19-7	7/1/2019 16:34	42.436549	-70.578732
IWS19-8	7/1/2019 16:34	42.437189	-70.578914
IWS19-9	7/1/2019 16:34	42.437247	-70.578702
IWS19-10	7/1/2019 16:34	42.436403	-70.578495
IWS19-11	7/1/2019 16:35	42.437354	-70.578330
IWS19-12	7/1/2019 16:35	42.437419	-70.578532
IWS19-13	7/1/2019 16:36	42.437781	-70.577557
IWS19-14	7/1/2019 16:36	42.437627	-70.577167
IWS19-15	7/1/2019 16:36	42.437594	-70.577193
IWS19-16	7/1/2019 16:36	42.437559	-70.577158
IWS19-17	7/1/2019 16:36	42.437440	-70.577165
IWS19-18	7/1/2019 16:37	42.437797	-70.576193
IWS19-19	7/1/2019 16:37	42.438031	-70.575736
IWS19-20	7/1/2019 16:38	42.438374	-70.574936
IWS19-21	7/1/2019 16:14	42.430399	-70.599913
IWS19-22	7/1/2019 16:14	42.430402	-70.599846
IWS19-23	7/1/2019 16:16	42.430918	-70.597631
IWS19-24	7/1/2019 16:28	42.435341	-70.584777
IWS19-25	7/1/2019 16:29	42.435436	-70.584670
IWS19-26	7/1/2019 16:29	42.435529	-70.584292
IWS19-27	7/1/2019 16:29	42.435618	-70.583979
IWS19-28	7/1/2019 16:30	42.435753	-70.583572
IWS19-29	7/1/2019 16:32	42.435388	-70.580905
IWS19-30	7/1/2019 16:37	42.437023	-70.575840
IWS19-31	7/1/2019 16:46	42.436332	-70.581354
IWS19-32	7/1/2019 16:50	42.435221	-70.585175
IWS19-33	7/1/2019 16:50	42.435063	-70.585491
IWS19-34	7/1/2019 16:50	42.434905	-70.585724
IWS19-35	7/1/2019 17:00	42.432567	-70.595056
IWS19-36	7/1/2019 17:05	42.431119	-70.600073
IWS19-37	7/1/2019 17:05	42.431478	-70.600724

Appendix C – IWS Contact Report

<b>Location ID</b>	<b>Date/Time</b>	<b>Latitude</b>	<b>Longitude</b>
IWS19-38	7/1/2019 16:40	42.438853	-70.575158
IWS19-39	7/1/2019 16:40	42.438979	-70.575106
IWS19-40	7/1/2019 16:40	42.439055	-70.575311
IWS19-41	7/1/2019 16:40	42.438833	-70.576079
IWS19-42	7/1/2019 16:41	42.438888	-70.576258
IWS19-43	7/1/2019 16:42	42.438324	-70.577492
IWS19-44	7/1/2019 16:42	42.438478	-70.577466
IWS19-45	7/1/2019 16:42	42.438192	-70.577813
IWS19-46	7/1/2019 16:43	42.437961	-70.578474
IWS19-47	7/1/2019 16:43	42.437945	-70.578773
IWS19-48	7/1/2019 16:43	42.438028	-70.578288
IWS19-49	7/1/2019 16:43	42.438122	-70.578482
IWS19-50	7/1/2019 16:47	42.436660	-70.582929
IWS19-51	7/1/2019 16:54	42.434533	-70.589860
IWS19-52	7/1/2019 16:54	42.434651	-70.590109
IWS19-53	7/1/2019 17:01	42.432877	-70.597254
IWS19-54	7/1/2019 17:02	42.432740	-70.597480
IWS19-55	7/1/2019 17:06	42.431646	-70.601483
IWS19-56	7/1/2019 17:06	42.431438	-70.601591
IWS19-57	7/1/2019 17:13	42.433823	-70.598672
IWS19-58	7/1/2019 17:13	42.433953	-70.598403
IWS19-59	7/1/2019 17:13	42.434149	-70.598066
IWS19-60	7/1/2019 17:28	42.438554	-70.582302
IWS19-61	7/1/2019 17:28	42.438047	-70.581999
IWS19-62	7/1/2019 17:30	42.439023	-70.580439
IWS19-63	7/1/2019 17:30	42.438305	-70.580514
IWS19-64	7/1/2019 17:30	42.438183	-70.580491
IWS19-65	7/1/2019 17:34	42.439203	-70.576144
IWS19-66	7/1/2019 17:37	42.439832	-70.576819
IWS19-67	7/1/2019 17:37	42.439831	-70.577029
IWS19-68	7/1/2019 17:40	42.438806	-70.579944
IWS19-69	7/1/2019 17:42	42.438513	-70.582504
IWS19-70	7/1/2019 17:51	42.435726	-70.591599
IWS19-71	7/1/2019 17:40	42.438825	-70.580358
IWS19-72	7/1/2019 17:40	42.438955	-70.580424
IWS19-73	7/1/2019 17:38	42.440452	-70.578226
IWS19-74	7/1/2019 17:40	42.439622	-70.580721
IWS19-75	7/1/2019 17:45	42.438254	-70.585580
IWS19-76	7/1/2019 17:45	42.438368	-70.585727
IWS19-77	7/1/2019 17:45	42.438343	-70.585926

Appendix C – IWS Contact Report

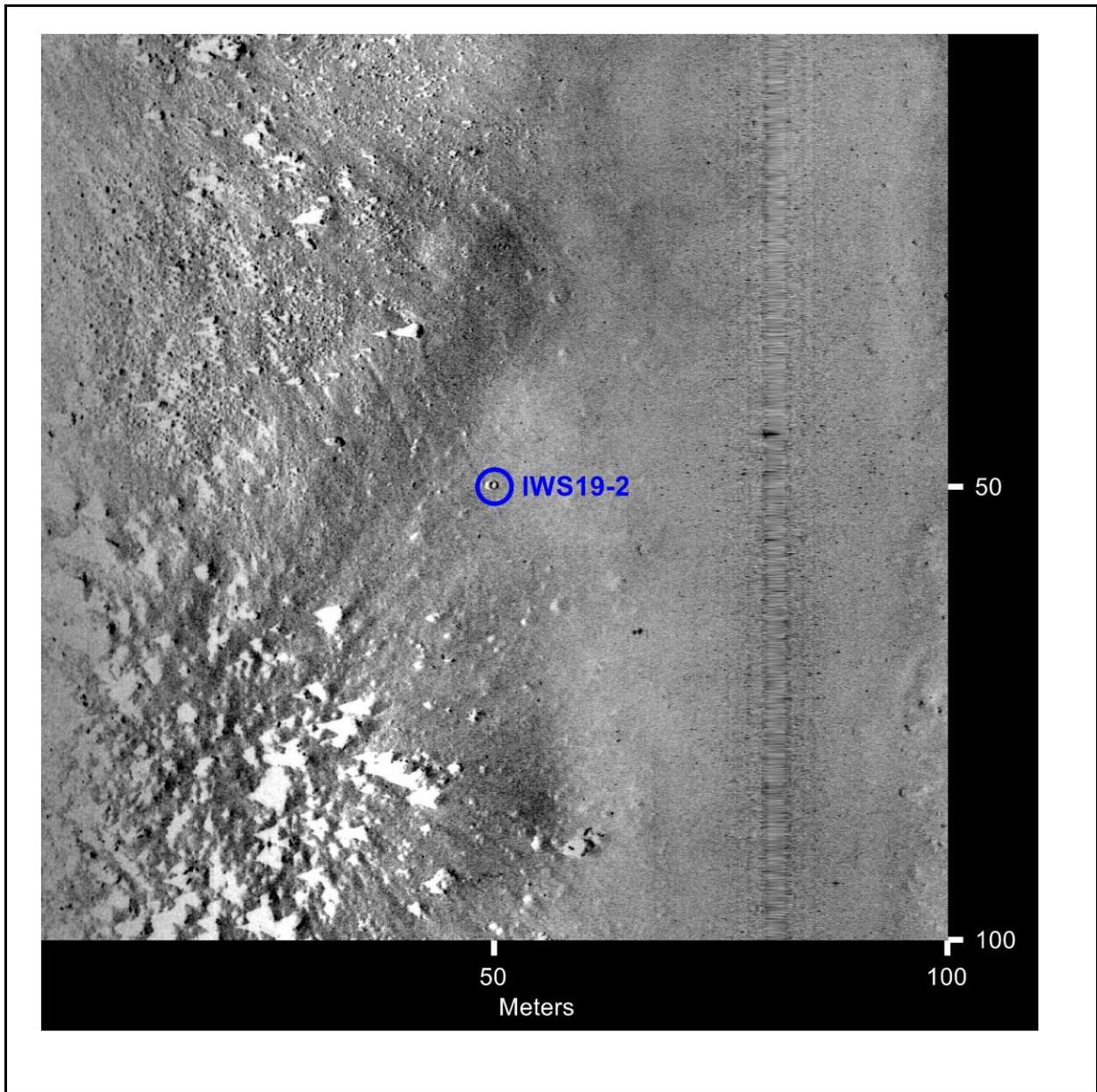
<b>Location ID</b>	<b>Date/Time</b>	<b>Latitude</b>	<b>Longitude</b>
IWS19-78	7/1/2019 18:00	42.434259	-70.600117
IWS19-79	7/1/2019 18:10	42.435382	-70.598761
IWS19-80	7/1/2019 18:17	42.438335	-70.591285
IWS19-81	7/1/2019 18:19	42.438862	-70.588975
IWS19-82	7/1/2019 18:19	42.438957	-70.589133
IWS19-83	7/1/2019 18:19	42.439164	-70.588778
IWS19-84	7/1/2019 18:20	42.439137	-70.588408
IWS19-85	7/1/2019 18:20	42.439088	-70.588330
IWS19-86	7/1/2019 18:20	42.438979	-70.588302
IWS19-87	7/1/2019 18:23	42.440244	-70.584985
IWS19-88	7/1/2019 18:23	42.440171	-70.584828
IWS19-89	7/1/2019 18:23	42.440324	-70.585083
IWS19-90	7/1/2019 18:24	42.440680	-70.583806
IWS19-91	7/1/2019 18:24	42.440603	-70.583754
IWS19-92	7/1/2019 18:25	42.440852	-70.582717
IWS19-93	7/1/2019 18:12	42.436111	-70.595960
IWS19-94	7/1/2019 18:14	42.436553	-70.594404
IWS19-95	7/1/2019 18:17	42.437802	-70.590451
IWS19-96	7/1/2019 18:22	42.439097	-70.586024
IWS19-97	7/1/2019 18:25	42.439841	-70.582605
IWS19-98	7/1/2019 18:36	42.440769	-70.581118
IWS19-99	7/1/2019 18:38	42.440485	-70.583440
IWS19-100	7/1/2019 18:40	42.440077	-70.584464
IWS19-101	7/1/2019 18:41	42.439566	-70.585959
IWS19-102	7/1/2019 18:50	42.437060	-70.595481
IWS19-103	7/1/2019 18:59	42.435329	-70.604102
IWS19-104	7/1/2019 18:59	42.435385	-70.603830
IWS19-105	7/1/2019 18:35	42.442100	-70.580306
IWS19-106	7/1/2019 18:35	42.442174	-70.580457
IWS19-108	7/1/2019 18:40	42.440551	-70.585249
IWS19-109	7/1/2019 18:58	42.435466	-70.603520
IWS19-110	7/1/2019 18:58	42.435549	-70.603216
IWS19-111	7/1/2019 19:10	42.435052	-70.604227
IWS19-112	7/1/2019 19:10	42.435291	-70.604400
IWS19-113	7/1/2019 19:10	42.435336	-70.604107
IWS19-114	7/1/2019 19:10	42.435770	-70.604688
IWS19-115	7/1/2019 19:10	42.435764	-70.604448
IWS19-116	7/1/2019 19:11	42.435393	-70.603828
IWS19-117	7/1/2019 19:10	42.435100	-70.603778
IWS19-118	7/1/2019 19:11	42.436278	-70.603898

Appendix C – IWS Contact Report

<b>Location ID</b>	<b>Date/Time</b>	<b>Latitude</b>	<b>Longitude</b>
IWS19-119	7/1/2019 19:15	42.437710	-70.599019
IWS19-120	7/1/2019 19:16	42.437674	-70.598806
IWS19-121	7/1/2019 19:25	42.440675	-70.588361
IWS19-122	7/1/2019 19:27	42.441074	-70.586691
IWS19-123	7/1/2019 19:27	42.441119	-70.586523
IWS19-124	7/1/2019 19:27	42.441161	-70.586257
IWS19-125	7/1/2019 19:27	42.441130	-70.586297
IWS19-126	7/1/2019 19:28	42.440476	-70.585525
IWS19-127	7/1/2019 19:28	42.440496	-70.585427
IWS19-128	7/1/2019 19:33	42.442915	-70.581072
IWS19-129	7/1/2019 19:34	42.443033	-70.580142
IWS19-130	7/1/2019 19:11	42.435477	-70.603523
IWS19-131	7/1/2019 19:11	42.435561	-70.603216
IWS19-132	7/1/2019 19:18	42.437587	-70.595378
IWS19-133	7/1/2019 19:18	42.437587	-70.595536
IWS19-134	7/1/2019 19:22	42.439035	-70.591094
IWS19-135	7/1/2019 19:23	42.439026	-70.590721
IWS19-136	7/1/2019 19:29	42.440786	-70.584181
IWS19-137	7/1/2019 19:29	42.441071	-70.584267
IWS19-138	7/1/2019 19:35	42.442869	-70.578526
IWS19-139	7/1/2019 19:37	42.444080	-70.576244
IWS19-140	7/1/2019 19:38	42.444300	-70.576072
IWS19-141	7/1/2019 19:38	42.444058	-70.575695
IWS19-142	7/1/2019 19:37	42.444070	-70.576092
IWS19-143	7/1/2019 19:39	42.444137	-70.575489
IWS19-144	7/1/2019 19:40	42.443951	-70.575573
IWS19-145	7/1/2019 19:40	42.444035	-70.575711
IWS19-146	7/1/2019 19:40	42.443727	-70.575791
IWS19-147	7/1/2019 19:40	42.444127	-70.576098
IWS19-148	7/1/2019 19:40	42.444158	-70.576145
IWS19-149	7/1/2019 19:40	42.444041	-70.576095
IWS19-150	7/1/2019 19:40	42.444056	-70.576245
IWS19-151	7/1/2019 19:40	42.443975	-70.576195
IWS19-152	7/1/2019 19:40	42.443681	-70.576332
IWS19-153	7/1/2019 19:40	42.443670	-70.576390
IWS19-154	7/1/2019 19:40	42.444655	-70.576502
IWS19-155	7/1/2019 19:42	42.443607	-70.577942
IWS19-156	7/1/2019 19:43	42.443079	-70.579946
IWS19-157	7/1/2019 19:44	42.443043	-70.580064
IWS19-158	7/1/2019 19:44	42.442814	-70.580829

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<b>Location ID</b>	<b>Date/Time</b>	<b>Latitude</b>	<b>Longitude</b>
IWS19-159	7/1/2019 19:44	42.442860	-70.580853
IWS19-160	7/1/2019 19:44	42.442846	-70.580902
IWS19-162	7/1/2019 19:45	42.442698	-70.581367
IWS19-163	7/1/2019 19:52	42.440137	-70.588876
IWS19-164	7/1/2019 19:53	42.439872	-70.590400
IWS19-165	7/1/2019 19:55	42.439324	-70.591673
IWS19-166	7/1/2019 20:00	42.438009	-70.597492
IWS19-167	7/1/2019 20:02	42.437653	-70.599257
IWS19-168	7/1/2019 20:02	42.437310	-70.599175
IWS19-169	7/1/2019 20:02	42.437249	-70.599098
IWS19-170	7/1/2019 20:02	42.437261	-70.599186
IWS19-171	7/1/2019 20:02	42.437291	-70.599294
IWS19-172	7/1/2019 20:02	42.436991	-70.599396
IWS19-173	7/1/2019 20:03	42.437182	-70.599560
IWS19-174	7/1/2019 20:07	42.435903	-70.603650
IWS19-175	7/1/2019 20:07	42.436654	-70.604232
IWS19-176	7/1/2019 20:07	42.435833	-70.603827
IWS19-177	7/1/2019 20:07	42.435930	-70.603937
IWS19-178	7/1/2019 20:07	42.435885	-70.603937
IWS19-179	7/1/2019 20:07	42.435712	-70.604229
IWS19-180	7/1/2019 20:01	42.438479	-70.598665
IWS19-181	7/1/2019 20:02	42.437938	-70.599584
IWS19-183	7/1/2019 20:10	42.438152	-70.605745
IWS19-184	7/1/2019 20:10	42.438247	-70.605550
IWS19-185	7/1/2019 20:10	42.437886	-70.605588
IWS19-186	7/1/2019 20:10	42.437887	-70.605555
IWS19-187	7/1/2019 20:11	42.438218	-70.604221
IWS19-188	7/1/2019 20:11	42.437464	-70.603649
IWS19-189	7/1/2019 20:36	42.444851	-70.578715
IWS19-190	7/1/2019 21:05	42.438159	-70.603617
IWS19-191	7/1/2019 21:05	42.439347	-70.603945
IWS19-192	7/1/2019 21:06	42.437943	-70.604723
IWS19-193	7/1/2019 20:58	42.441400	-70.596384
IWS19-194	7/1/2019 21:05	42.439275	-70.603399
IWS19-195	7/1/2019 21:05	42.439423	-70.603459
IWS19-196	7/1/2019 21:05	42.439387	-70.603579
IWS19-197	7/1/2019 21:05	42.439471	-70.603690

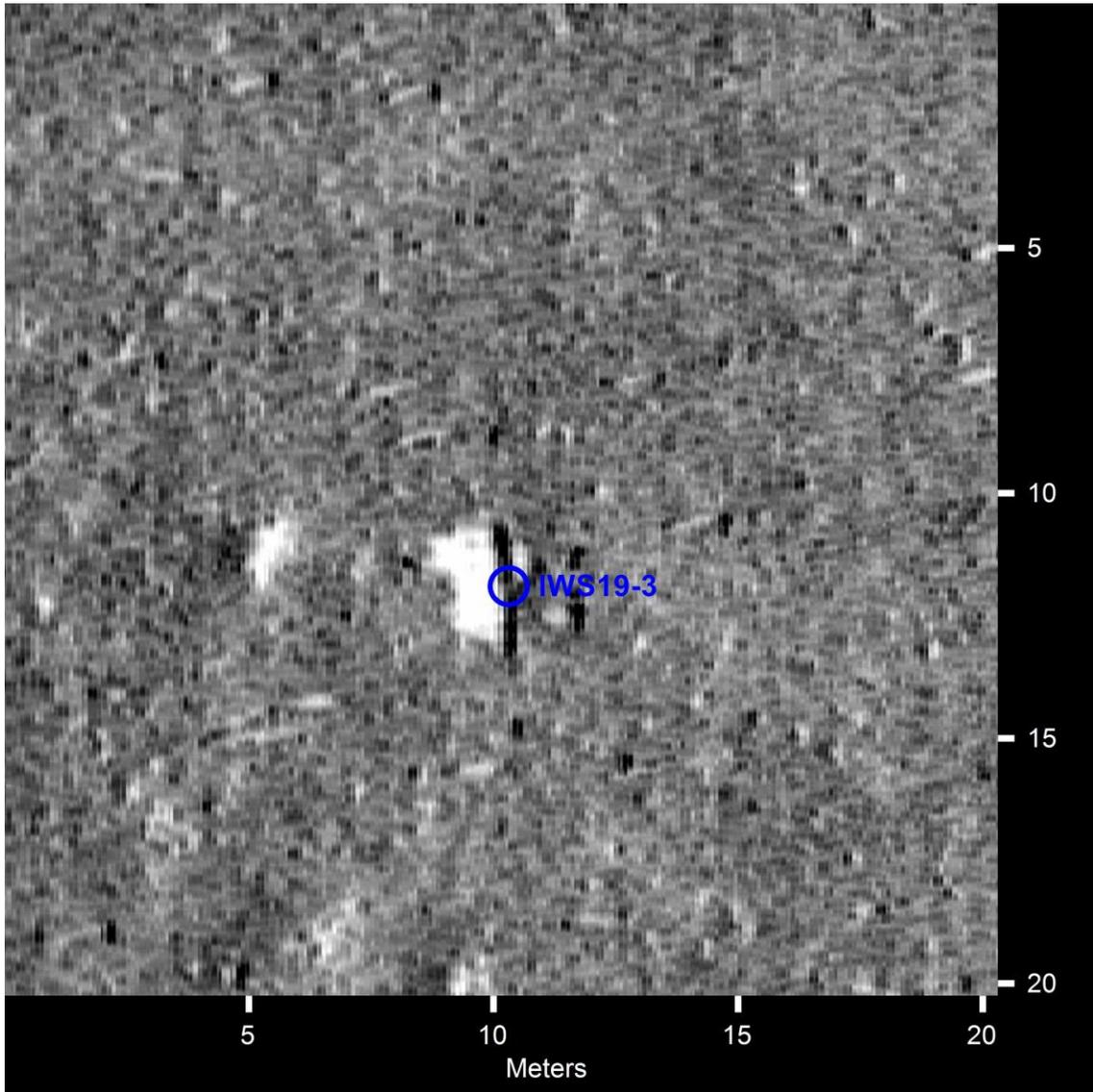


**IWS19-2**

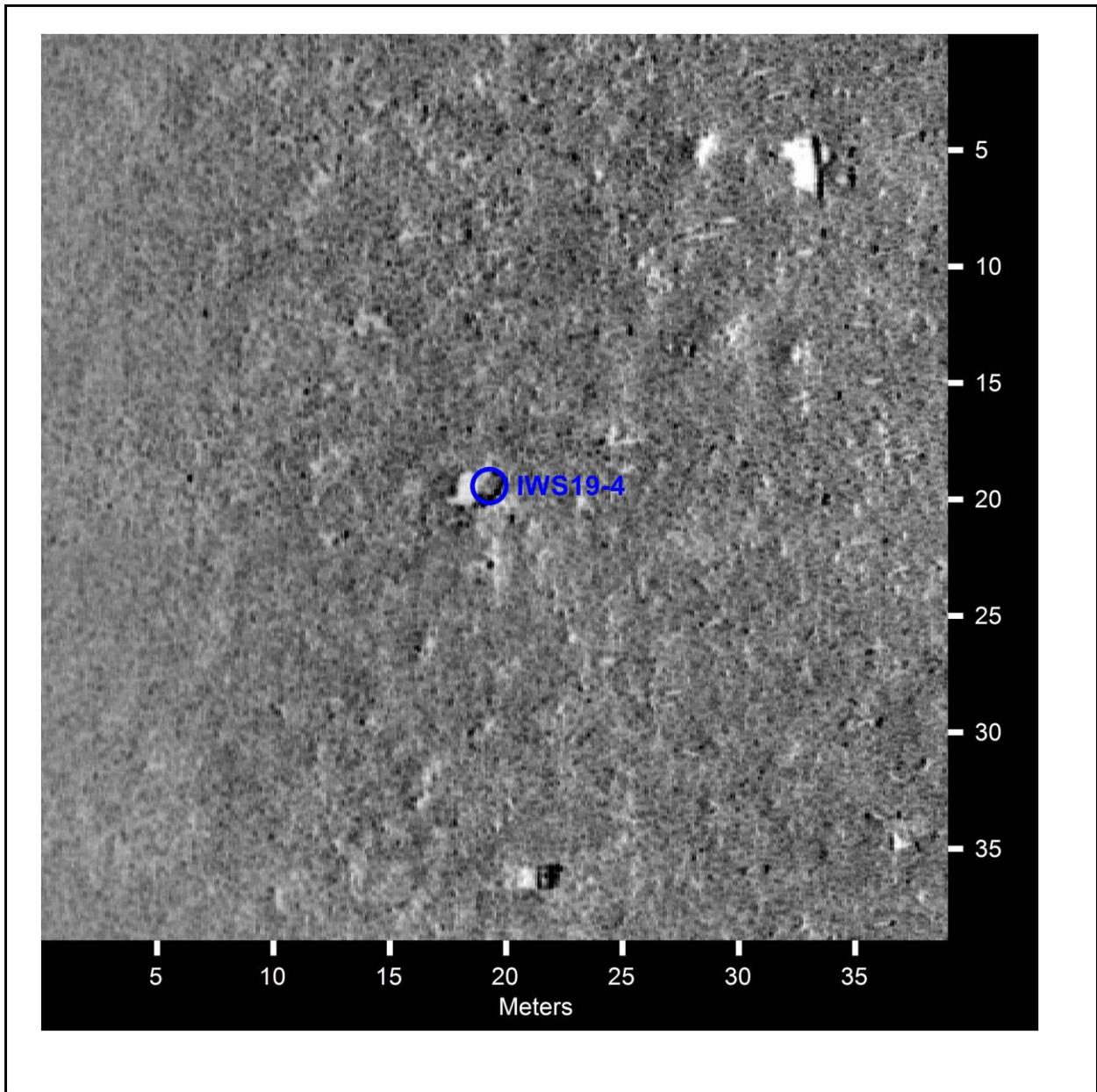
- Sonar Time at Target: 7/1/2019 4:20:21 PM
- Position  
42.4327403671 -70.5939797816 (WGS84)  
(X) 274550.30 (Y) 909531.35 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 23531
- Range to target: 30.98 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

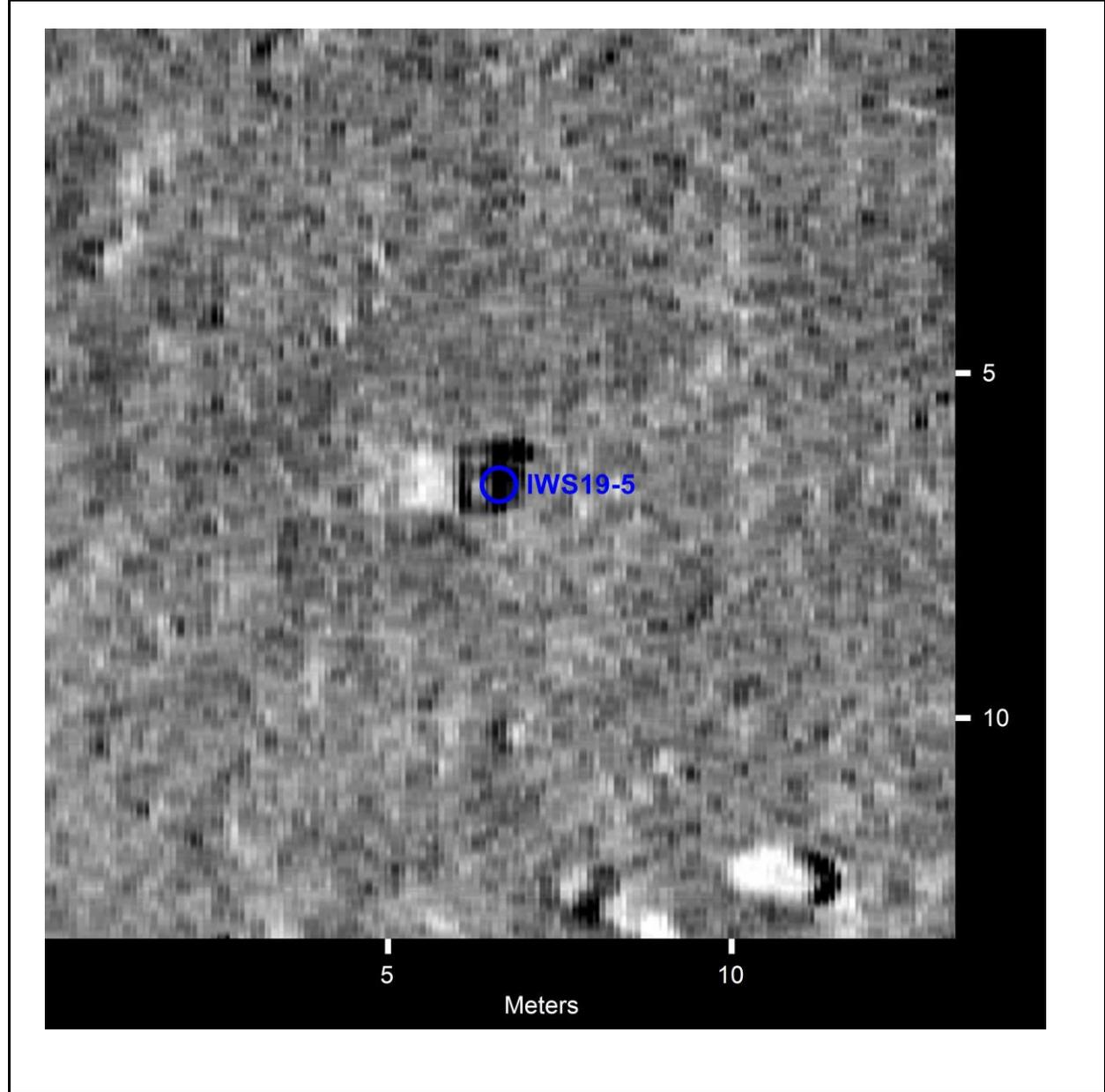
- Target Width: 0.92 Meters
- Target Height: 0.04 Meters
- Target Length: 1.12 Meters
- Target Shadow: 0.63 Meters
- Classification1: tires
- Description:



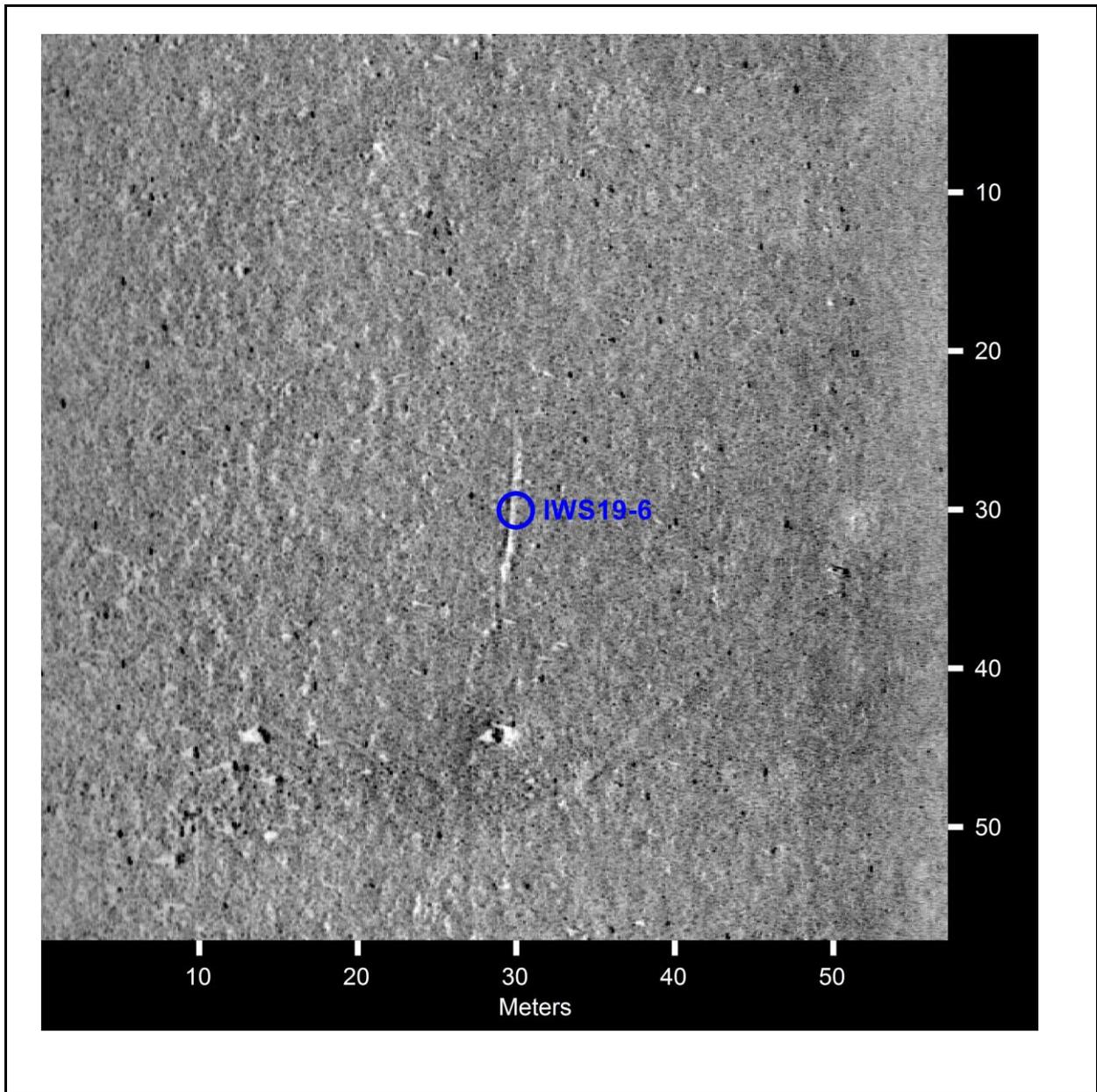
<p><b>IWS19-3</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:30:50 PM</li><li>• Position 42.4361081575 -70.5828922188 (WGS84) (X) 275458.56 (Y) 909915.17 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 56355</li><li>• Range to target: 51.55 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.21 Meters</li><li>• Target Height: 0.03 Meters</li><li>• Target Length: 3.09 Meters</li><li>• Target Shadow: 0.95 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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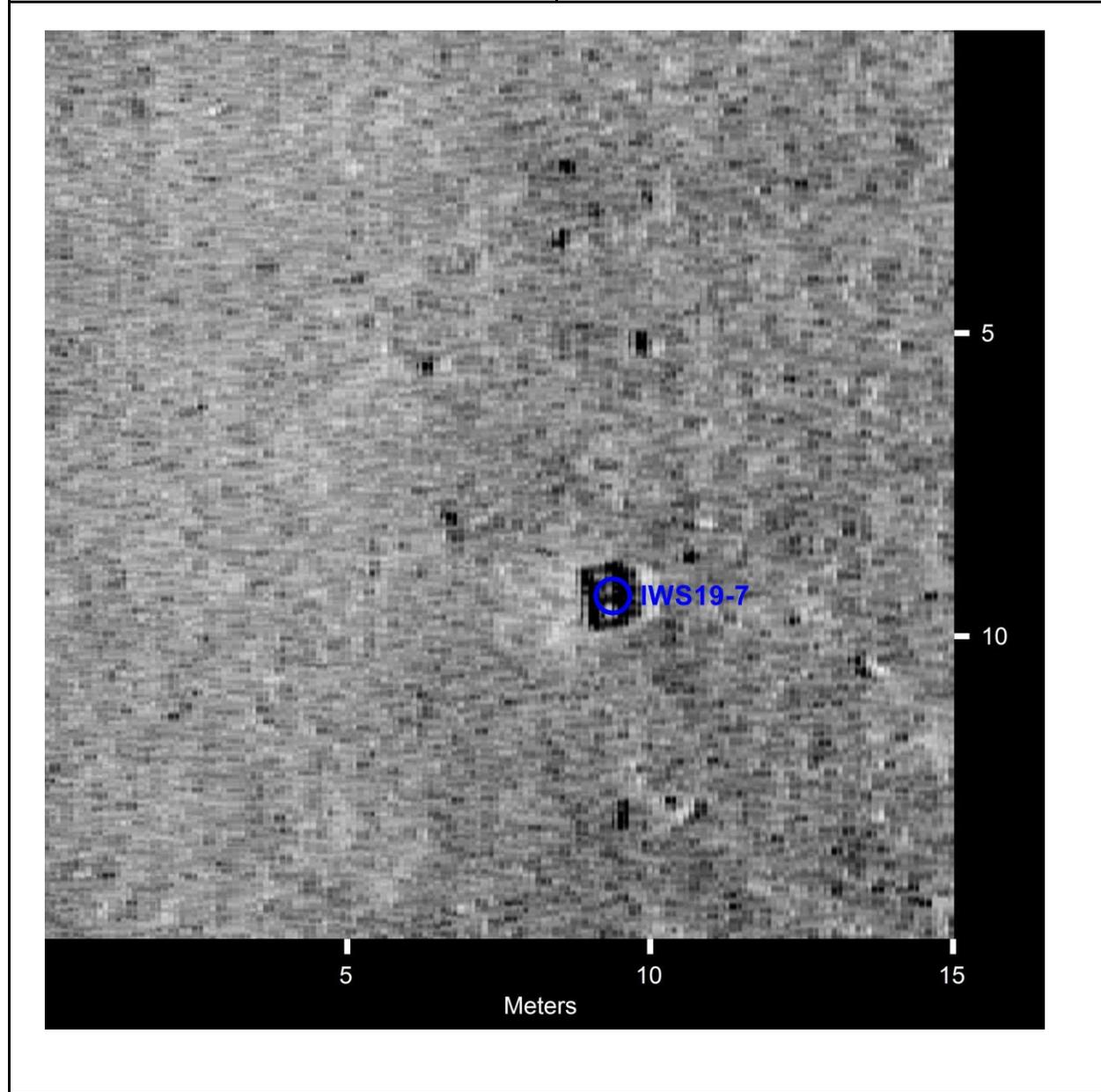
<p><b>IWS19-4</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:30:59 PM</li><li>• Position 42.4362710335 -70.5827991033 (WGS84) (X) 275466.03 (Y) 909933.34 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 56813</li><li>• Range to target: 65.73 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.97 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 1.36 Meters</li><li>• Target Shadow: 0.32 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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<p><b>IWS19-5</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:31:10 PM</li><li>• Position 42.4363030856 -70.5825962271 (WGS84) (X) 275482.68 (Y) 909937.08 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 57375</li><li>• Range to target: 63.10 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.64 Meters</li><li>• Target Height: 0.02 Meters</li><li>• Target Length: 0.97 Meters</li><li>• Target Shadow: 0.67 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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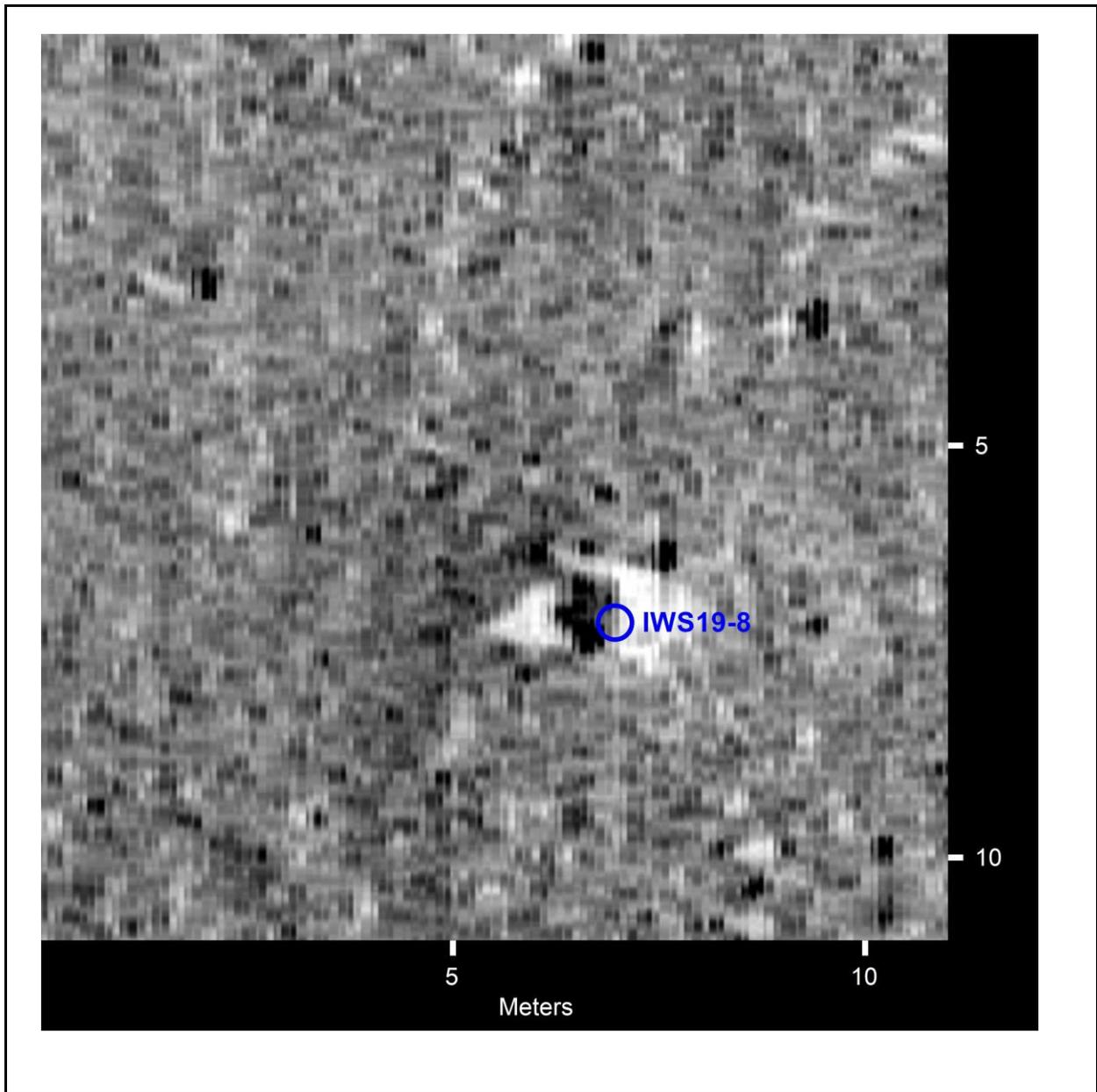


<p><b>IWS19-6</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:34:30 PM</li><li>• Position 42.4371365957 -70.5790709780 (WGS84) (X) 275771.72 (Y) 910032.79 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 67471</li><li>• Range to target: 45.15 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.35 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 7.90 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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Appendix C – IWS Contact Report

<p><b>IWS19-7</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:34:32 PM</li><li>• Position 42.4365496833 -70.5787315250 (WGS84) (X) 275800.36 (Y) 909967.90 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 67562</li><li>• Range to target: 25.72 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.71 Meters</li><li>• Target Height: 0.02 Meters</li><li>• Target Length: 0.95 Meters</li><li>• Target Shadow: 0.21 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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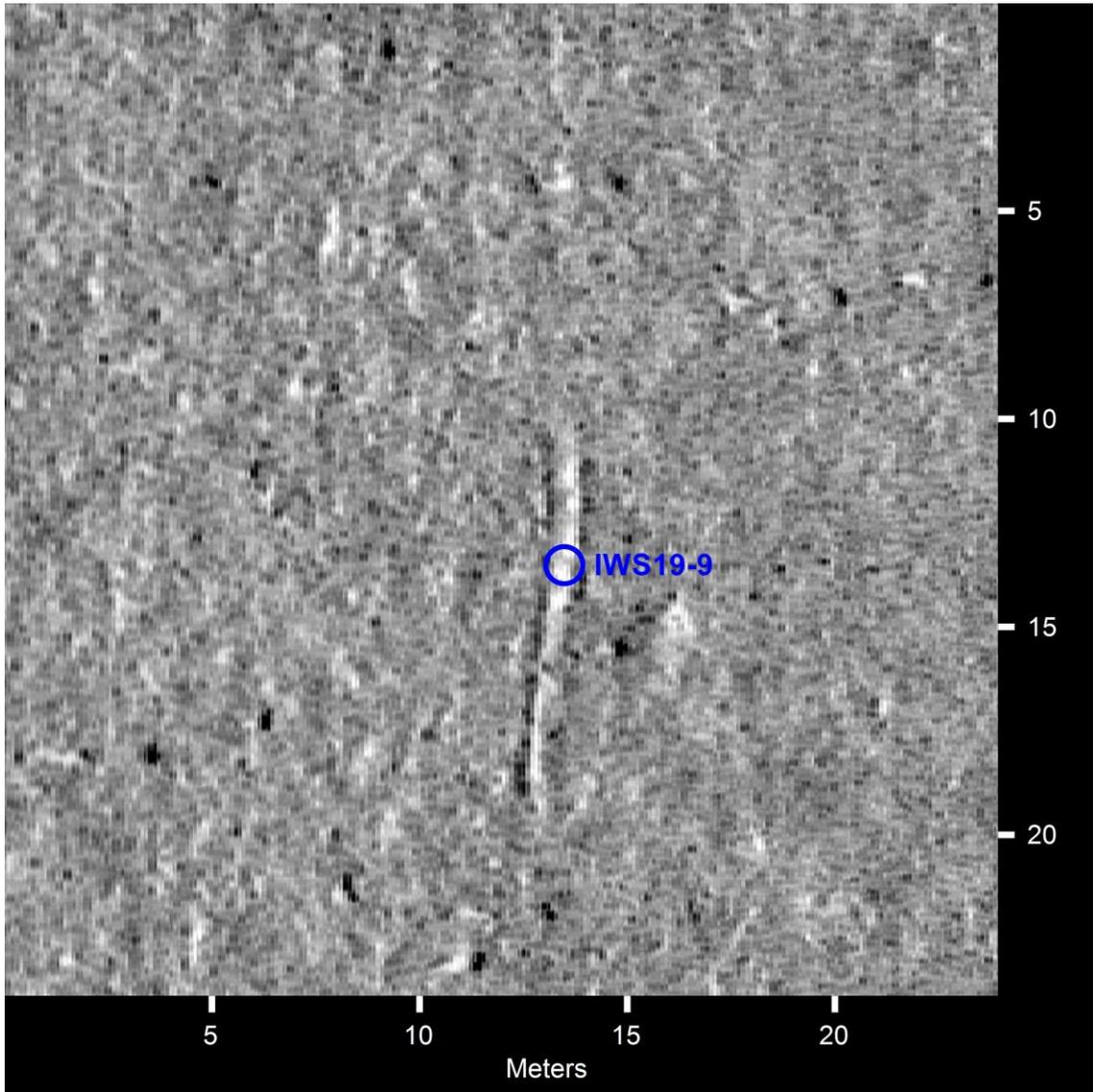


**IWS19-8**

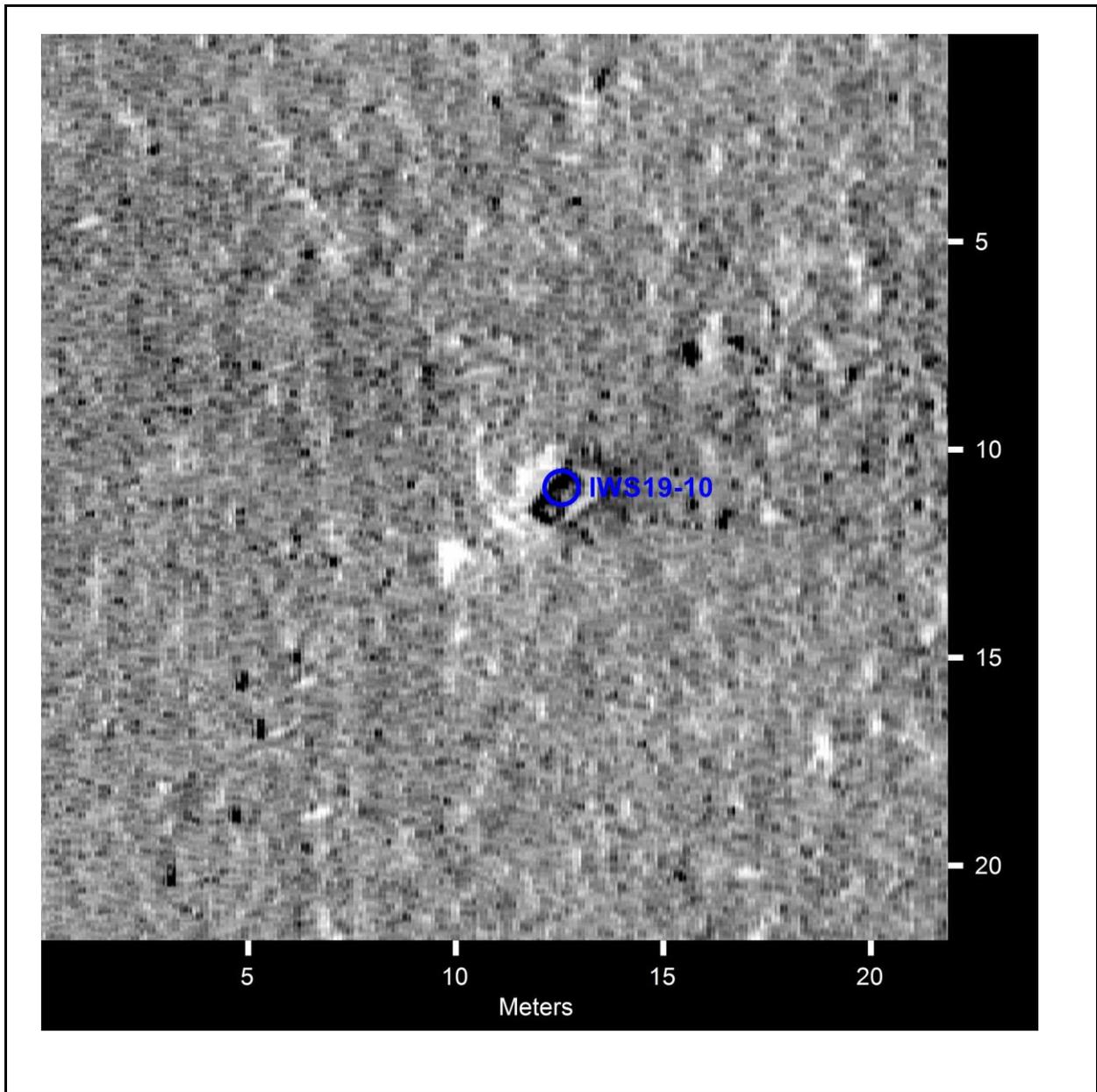
- Sonar Time at Target: 7/1/2019 4:34:40 PM
- Position  
42.4371890185 -70.5789141056 (WGS84)  
(X) 275784.57 (Y) 910038.75 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 67943
- Range to target: 45.95 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.54 Meters
- Target Height: 0.03 Meters
- Target Length: 0.92 Meters
- Target Shadow: 0.80 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-9</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:34:52 PM</li><li>• Position 42.4372475585 -70.5787021588 (WGS84) (X) 275801.94 (Y) 910045.44 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 68561</li><li>• Range to target: 45.72 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.48 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 9.04 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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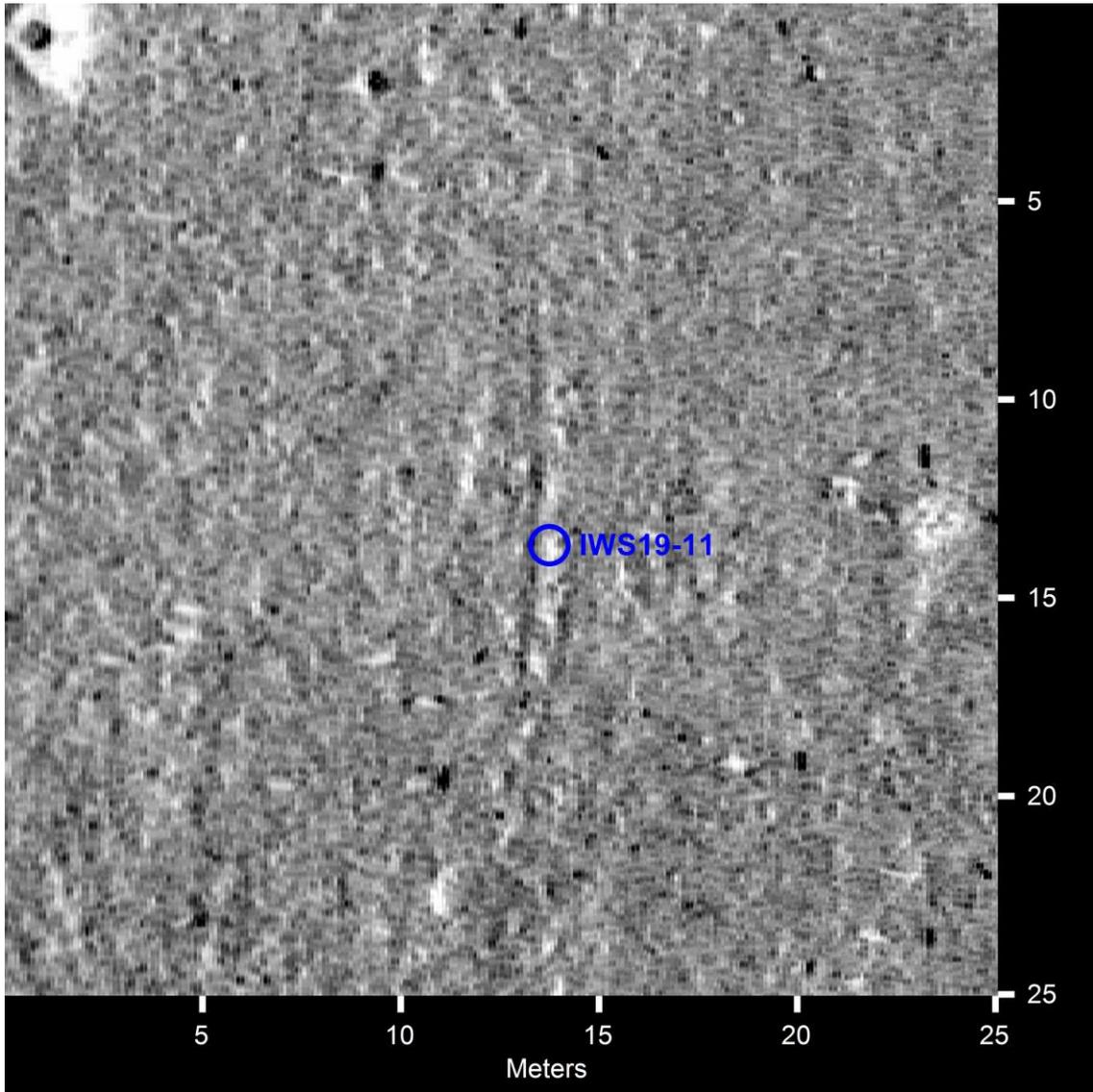


**IWS19-10**

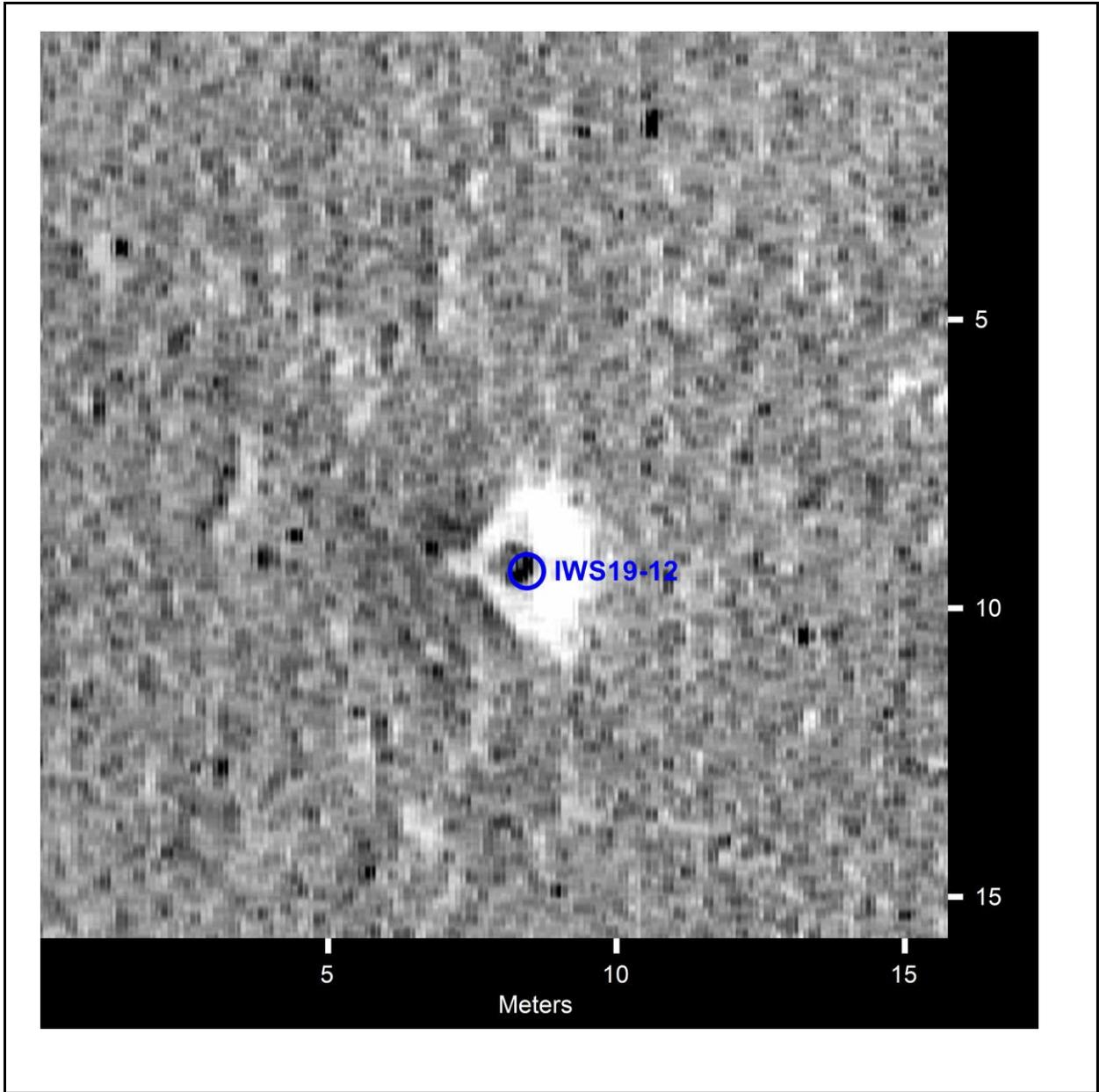
- Sonar Time at Target: 7/1/2019 4:34:40 PM
- Position  
42.4364032293 -70.5784949841 (WGS84)  
(X) 275819.99 (Y) 909951.84 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 67966
- Range to target: 47.90 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.66 Meters
- Target Height: 0.03 Meters
- Target Length: 1.29 Meters
- Target Shadow: 0.97 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-11</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:35:14 PM</li><li>• Position 42.4373546160 -70.5783299982 (WGS84) (X) 275832.43 (Y) 910057.66 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 69653</li><li>• Range to target: 45.72 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.41 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 9.62 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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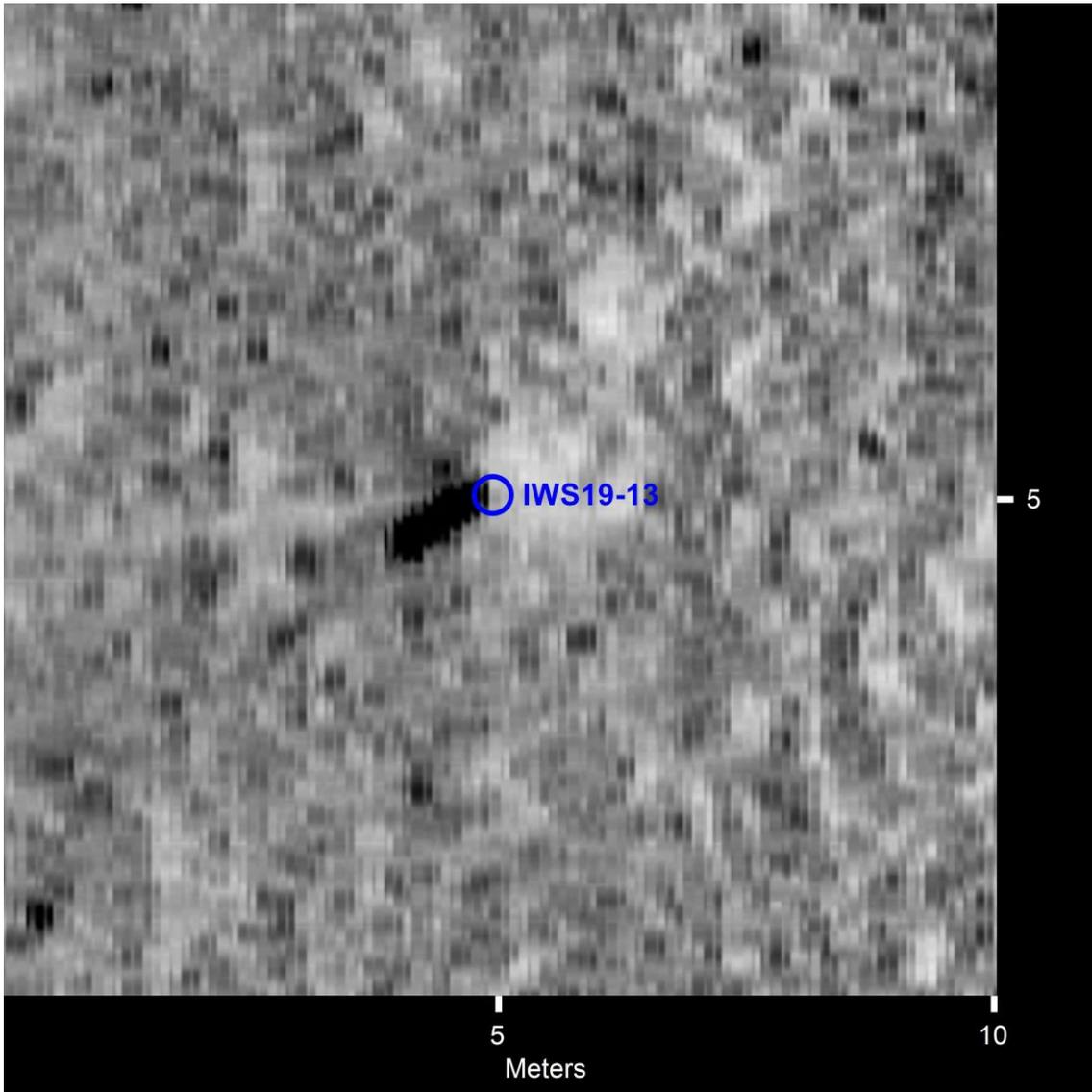


**IWS19-12**

- Sonar Time at Target: 7/1/2019 4:35:06 PM
- Position  
42.4374191846 -70.5785317332 (WGS84)  
(X) 275815.75 (Y) 910064.65 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 69229
- Range to target: 58.41 Meters
- Fish Height: 1.95 Meters

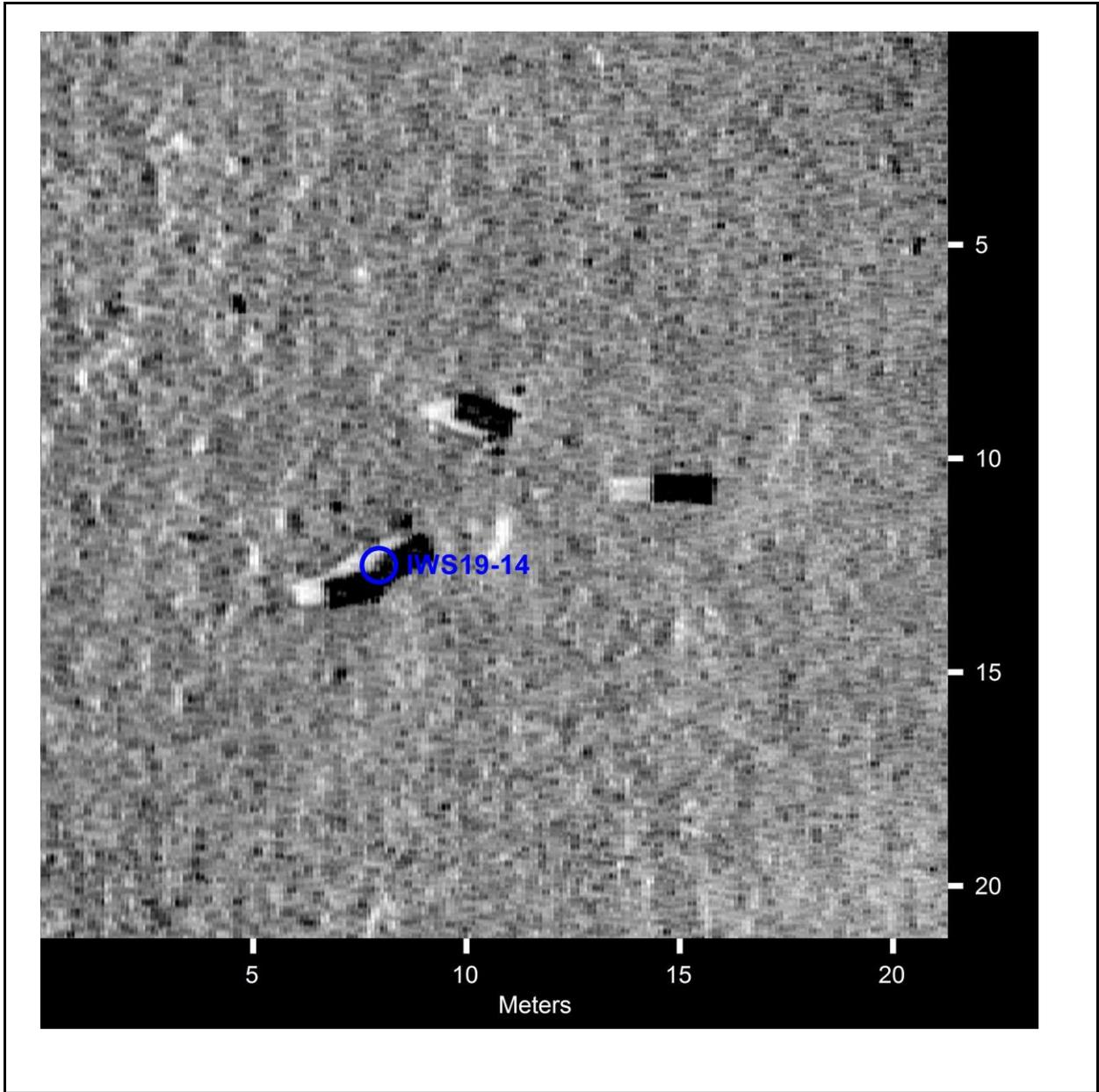
**Dimensions and attributes**

- Target Width: 1.73 Meters
- Target Height: 0.03 Meters
- Target Length: 2.79 Meters
- Target Shadow: 1.18 Meters
- Classification1: debris
- Description:



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<p><b>IWS19-13</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:36:05 PM</li><li>• Position 42.4377810242 -70.5775567150 (WGS84) (X) 275895.53 (Y) 910105.71 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 72190</li><li>• Range to target: 66.98 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.45 Meters</li><li>• Target Height: 0.11 Meters</li><li>• Target Length: 1.17 Meters</li><li>• Target Shadow: 3.74 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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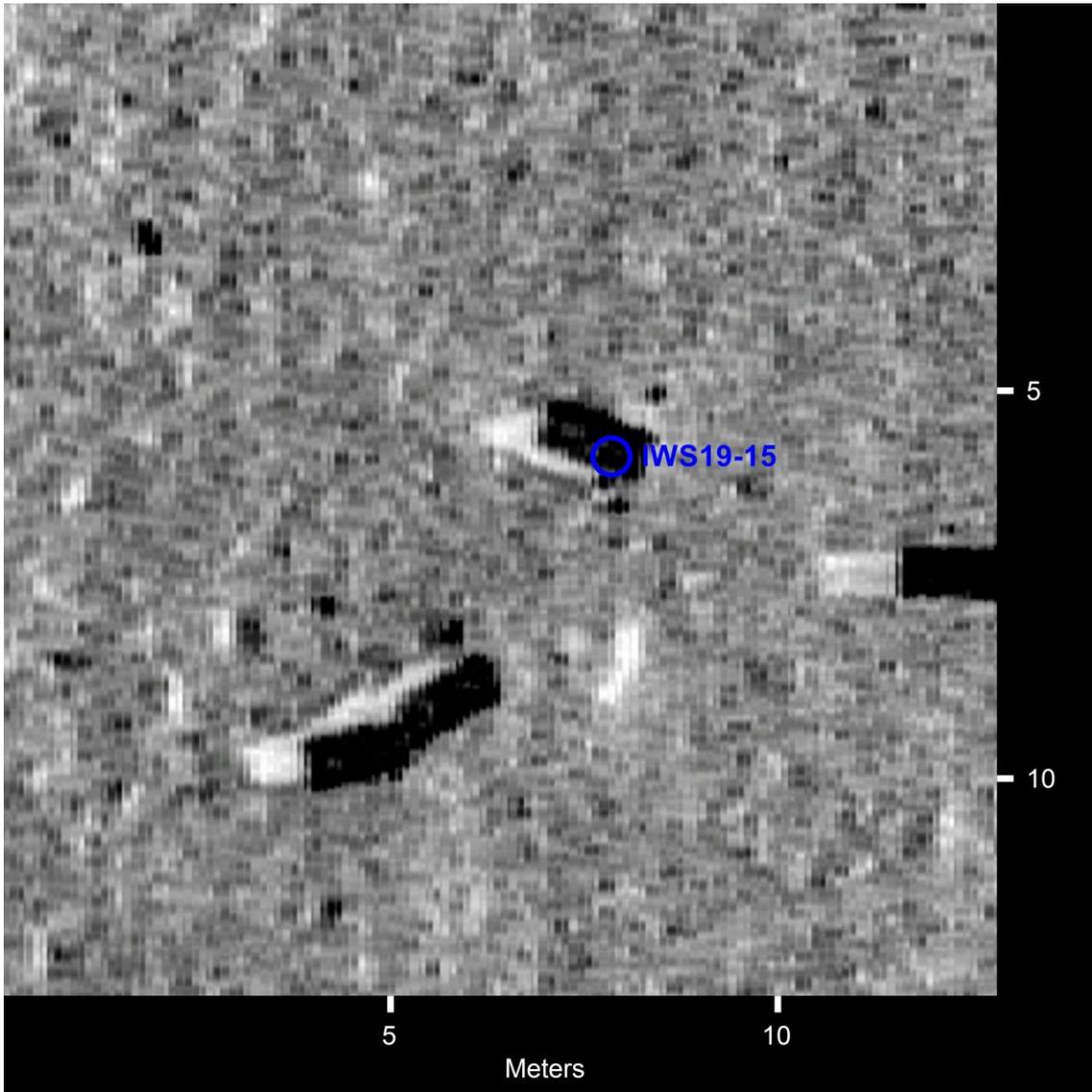


**IWS19-14**

- Sonar Time at Target: 7/1/2019 4:36:21 PM
- Position  
42.4376277324 -70.5771673239 (WGS84)  
(X) 275927.76 (Y) 910089.03 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 72984
- Range to target: 39.67 Meters
- Fish Height: 1.95 Meters

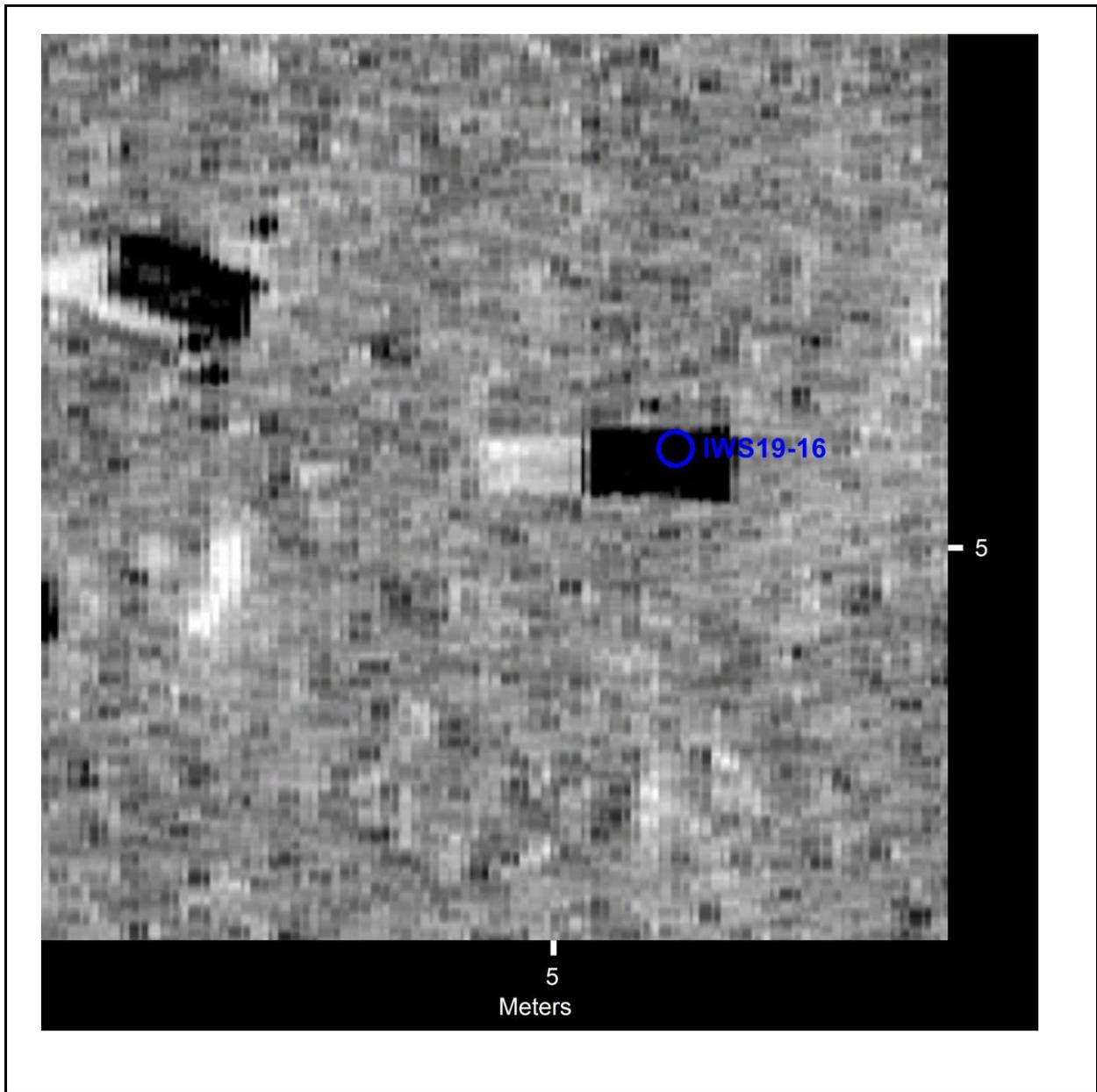
**Dimensions and attributes**

- Target Width: 0.67 Meters
- Target Height: 0.03 Meters
- Target Length: 2.60 Meters
- Target Shadow: 0.69 Meters
- Classification1: Trap
- Description: Adjacent traps



Appendix C – IWS Contact Report

<p><b>IWS19-15</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:36:19 PM</li><li>• Position 42.4375940172 -70.5771929699 (WGS84) (X) 275925.69 (Y) 910085.26 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 72874</li><li>• Range to target: 36.92 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.64 Meters</li><li>• Target Height: 0.02 Meters</li><li>• Target Length: 1.40 Meters</li><li>• Target Shadow: 0.55 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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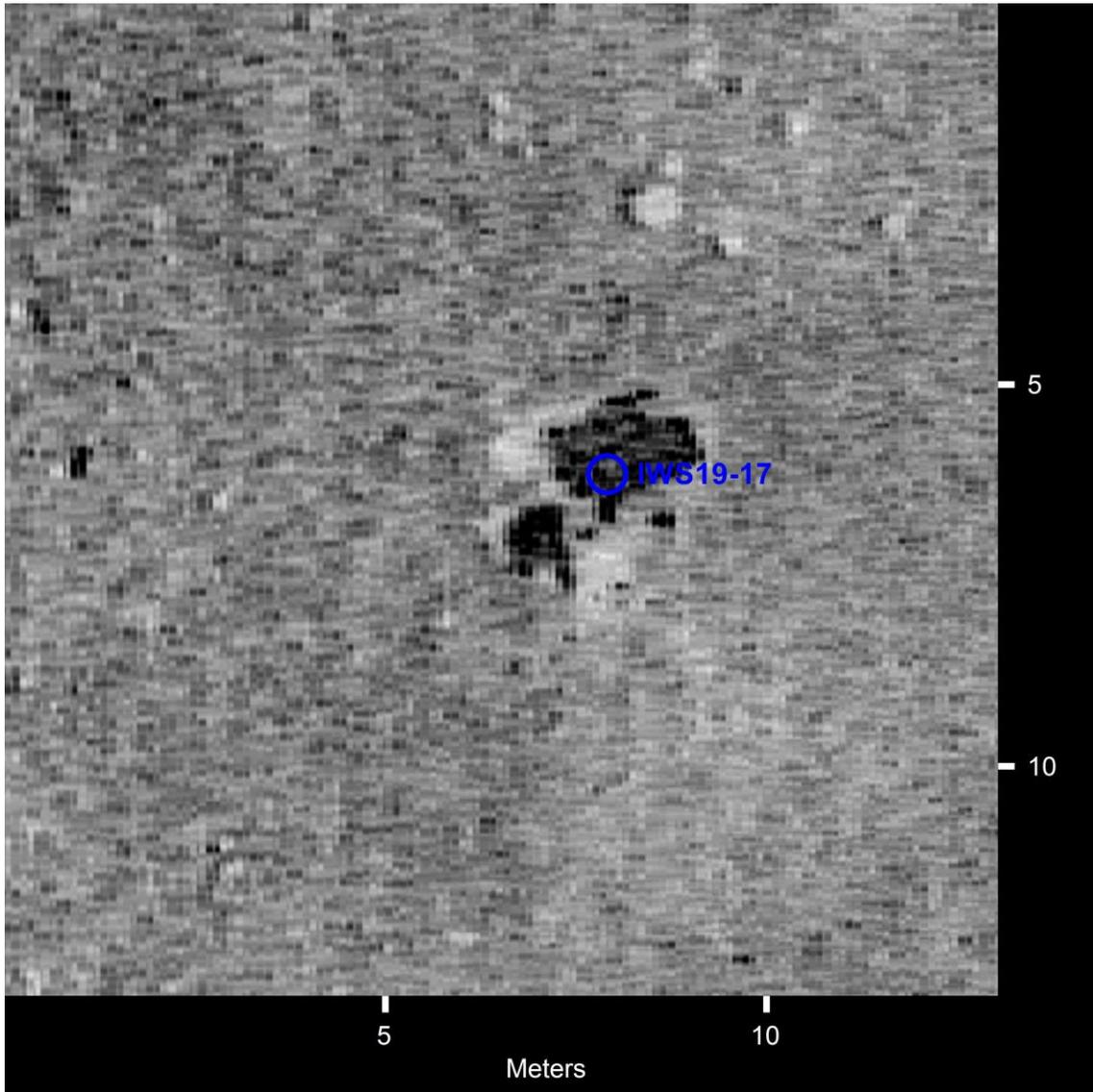


**IWS19-16**

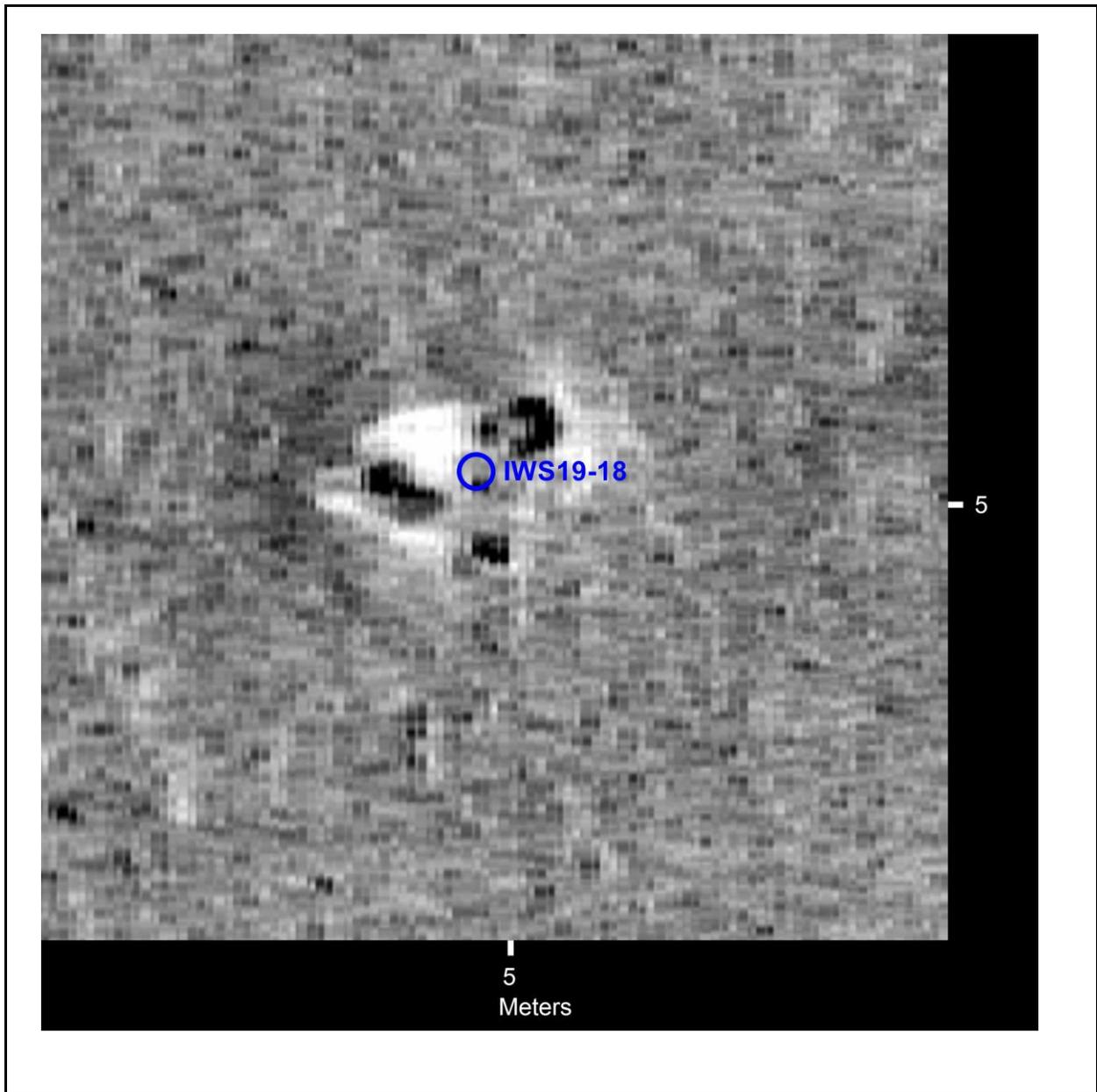
- Sonar Time at Target: 7/1/2019 4:36:20 PM
- Position  
42.4375599316 -70.5771577304 (WGS84)  
(X) 275928.63 (Y) 910081.51 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 72919
- Range to target: 32.35 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.63 Meters
- Target Height: 0.04 Meters
- Target Length: 1.31 Meters
- Target Shadow: 0.83 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-17</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:36:16 PM</li><li>• Position 42.4374398611 -70.5771654334 (WGS84) (X) 275928.14 (Y) 910068.17 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 72741</li><li>• Range to target: 20.12 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.12 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.62 Meters</li><li>• Target Shadow: 0.61 Meters</li><li>• Classification1: Trap</li><li>• Description: !3 Traps</li></ul>
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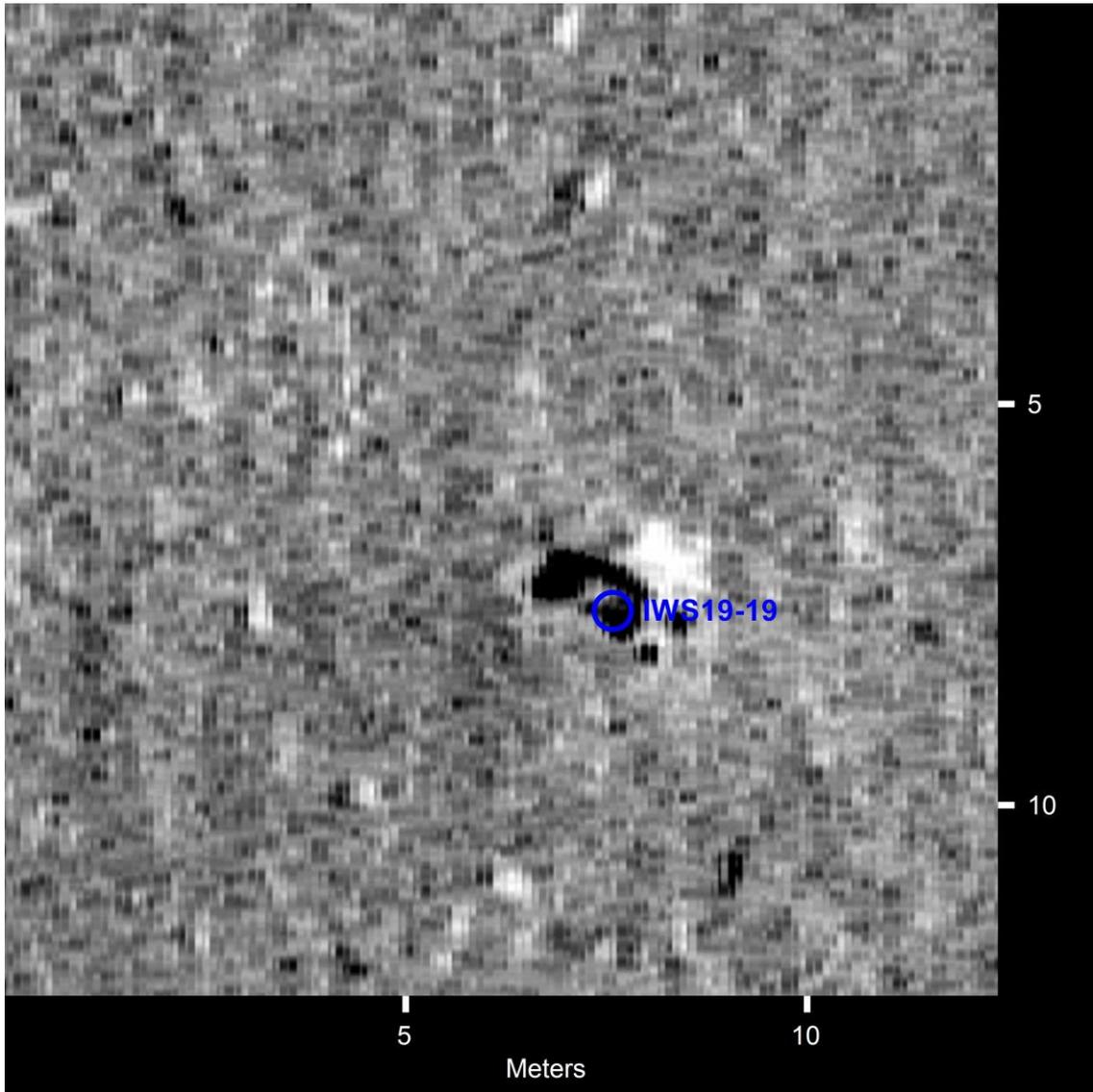


**IWS19-18**

- Sonar Time at Target: 7/1/2019 4:37:15 PM
- Position  
42.4377971692 -70.5761934002 (WGS84)  
(X) 276007.68 (Y) 910108.72 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 75677
- Range to target: 28.35 Meters
- Fish Height: 1.95 Meters

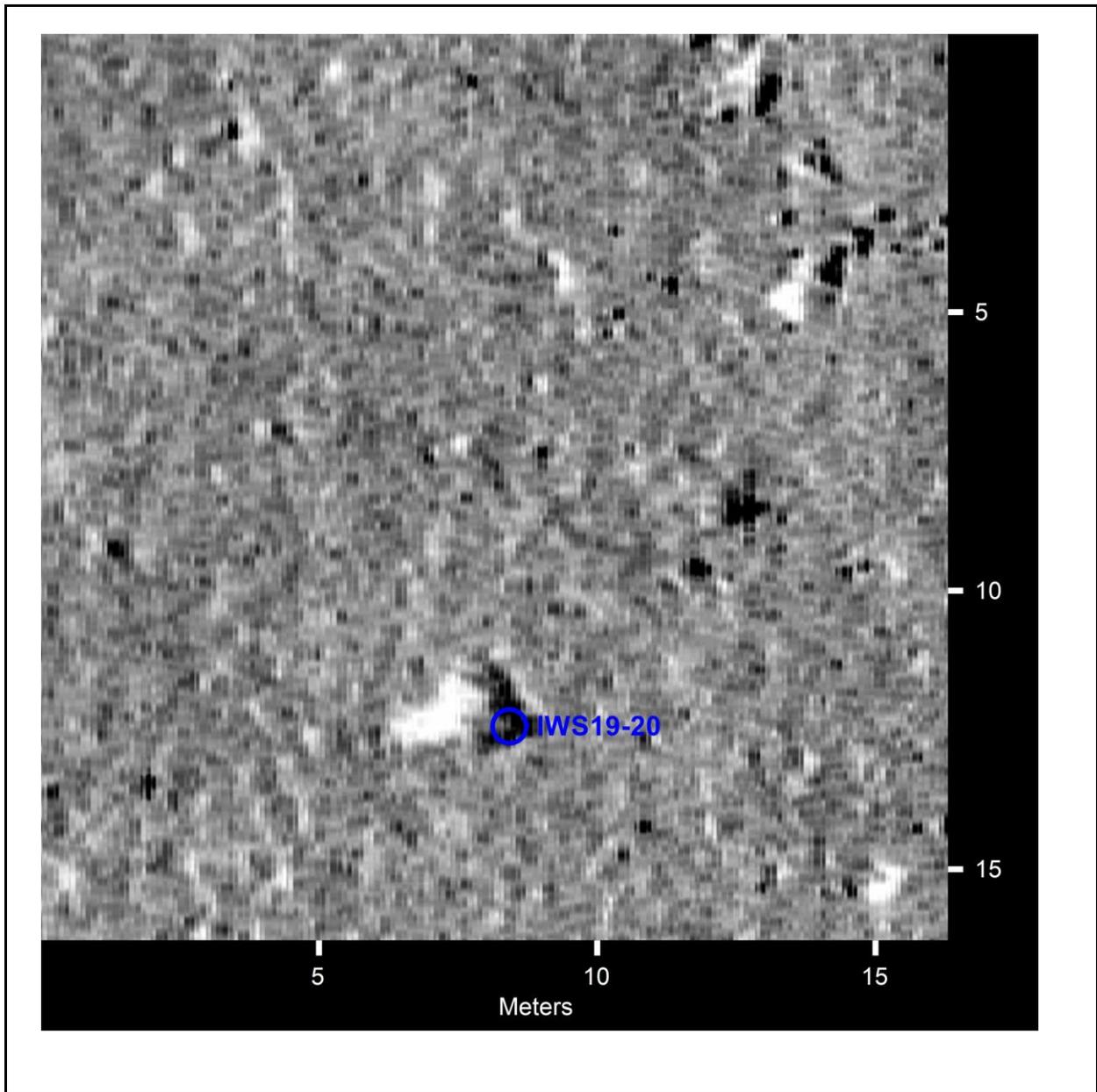
**Dimensions and attributes**

- Target Width: 1.97 Meters
- Target Height: 0.07 Meters
- Target Length: 2.55 Meters
- Target Shadow: 1.09 Meters
- Classification1: Trap
- Description: Cluster of traps



Appendix C – IWS Contact Report

<p><b>IWS19-19</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:37:44 PM</li><li>• Position 42.4380314688 -70.5757362091 (WGS84) (X) 276045.01 (Y) 910135.15 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 77148</li><li>• Range to target: 39.21 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.78 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 1.44 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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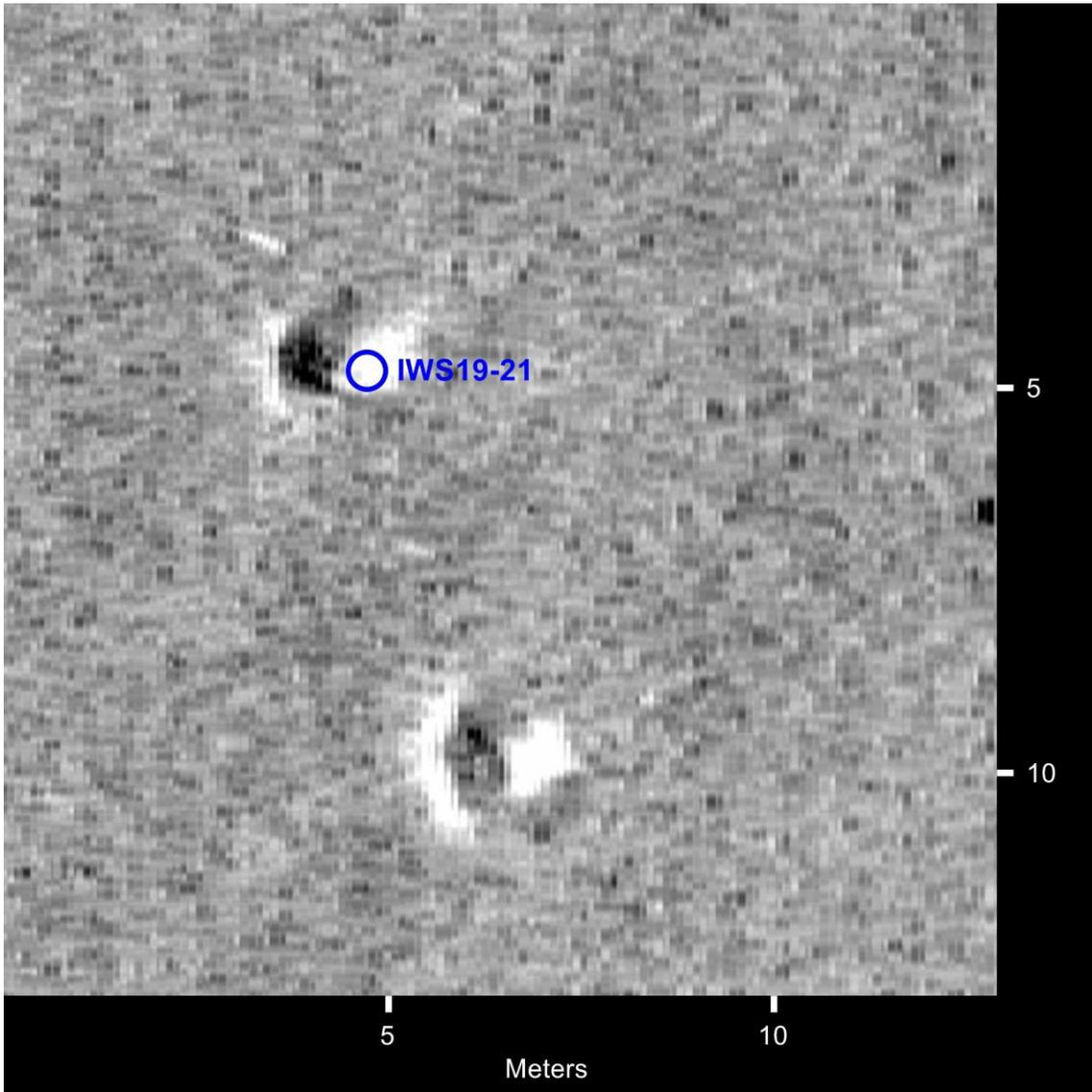


**IWS19-20**

- Sonar Time at Target: 7/1/2019 4:38:34 PM
- Position  
42.4383737845 -70.5749360853 (WGS84)  
(X) 276110.43 (Y) 910173.89 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 79645
- Range to target: 50.98 Meters
- Fish Height: 1.95 Meters

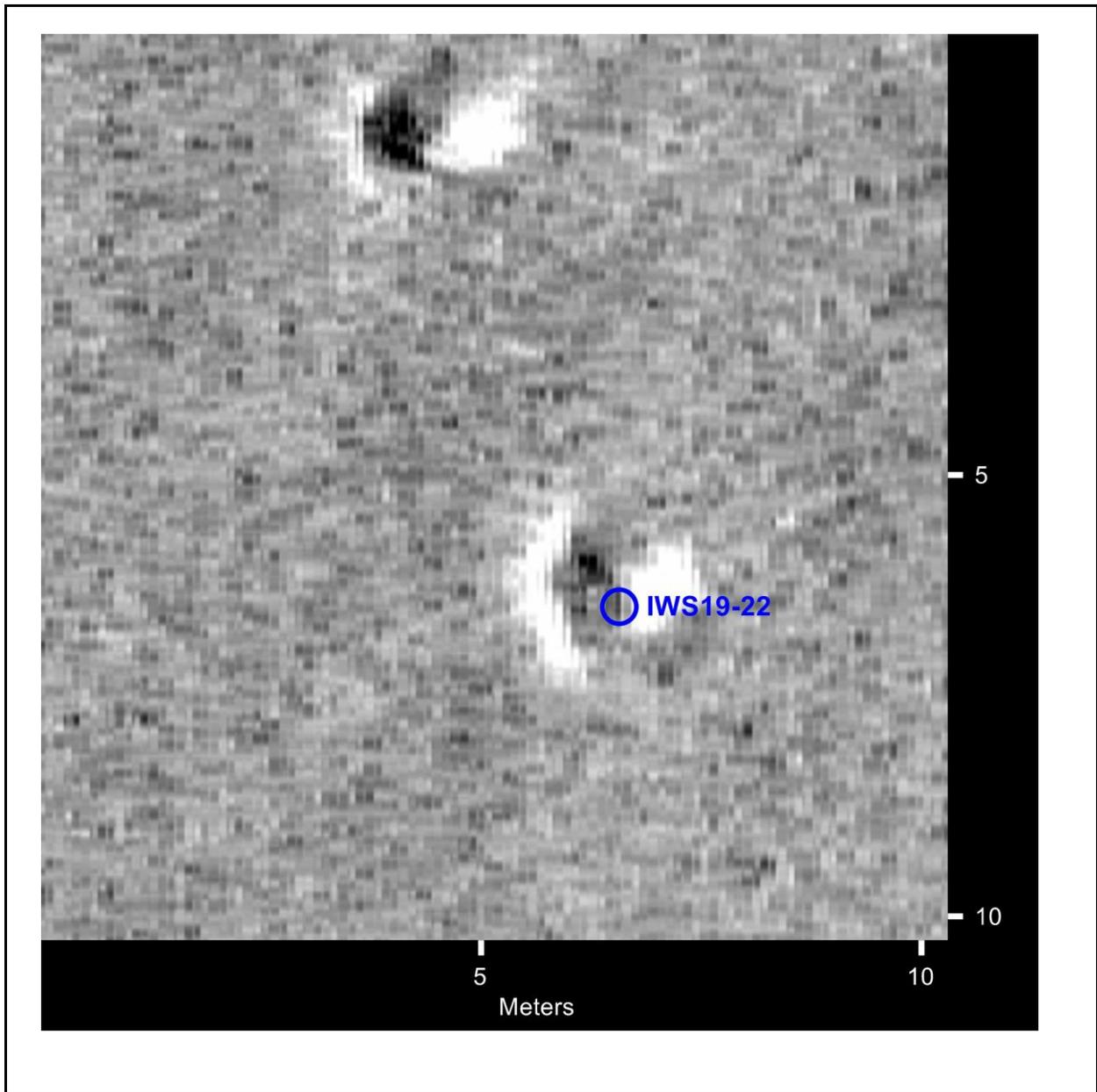
**Dimensions and attributes**

- Target Width: 0.81 Meters
- Target Height: 0.04 Meters
- Target Length: 1.77 Meters
- Target Shadow: 1.32 Meters
- Classification1: Trap
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-21</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:14:41 PM</li><li>• Position 42.4303992274 -70.5999127345 (WGS84) (X) 274064.88 (Y) 909266.15 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 5276</li><li>• Range to target: 35.78 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.23 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.01 Meters</li><li>• Target Shadow: 1.02 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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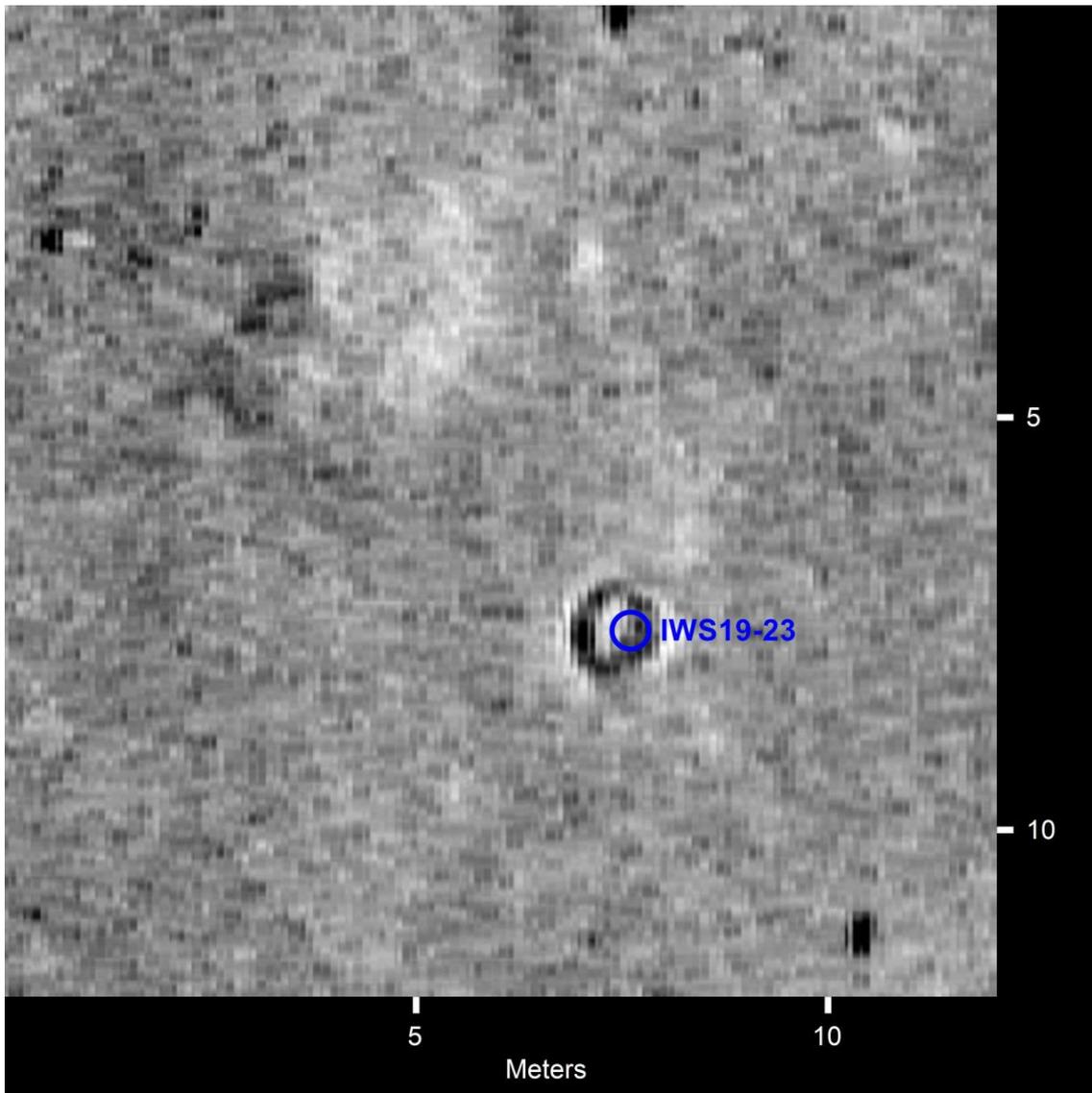
Appendix C – IWS Contact Report

**IWS19-22**

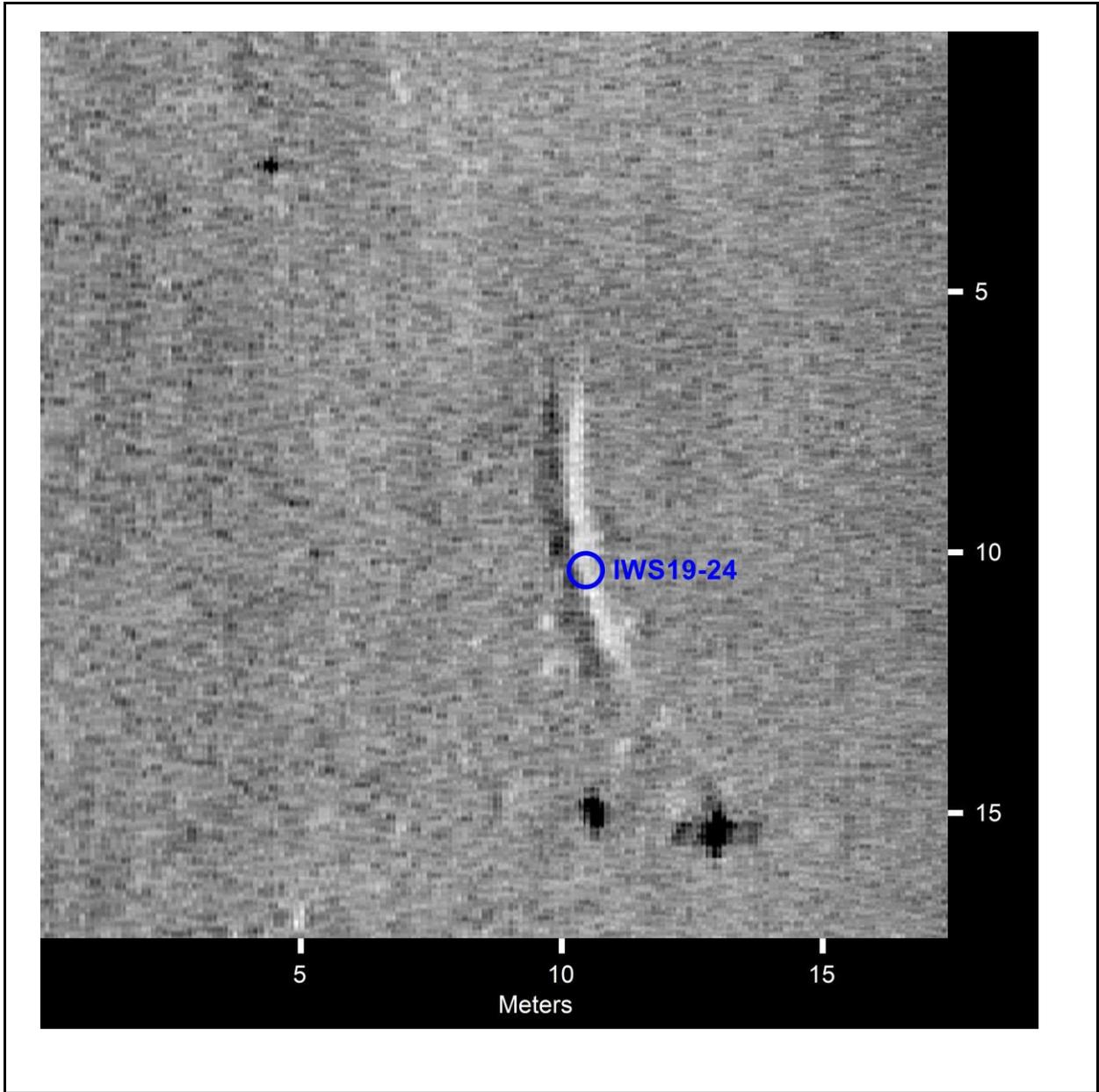
- Sonar Time at Target: 7/1/2019 4:14:44 PM
- Position  
42.4304017817 -70.5998457360 (WGS84)  
(X) 274070.39 (Y) 909266.49 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 5452
- Range to target: 37.49 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.50 Meters
- Target Height: 0.05 Meters
- Target Length: 1.05 Meters
- Target Shadow: 0.90 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-23</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:16:41 PM</li><li>• Position 42.4309175800 -70.5976305507 (WGS84) (X) 274252.05 (Y) 909325.70 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 11818</li><li>• Range to target: 49.50 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.14 Meters</li><li>• Target Height: 0.01 Meters</li><li>• Target Length: 1.01 Meters</li><li>• Target Shadow: 0.29 Meters</li><li>• Classification1: tires</li><li>• Description:</li></ul>
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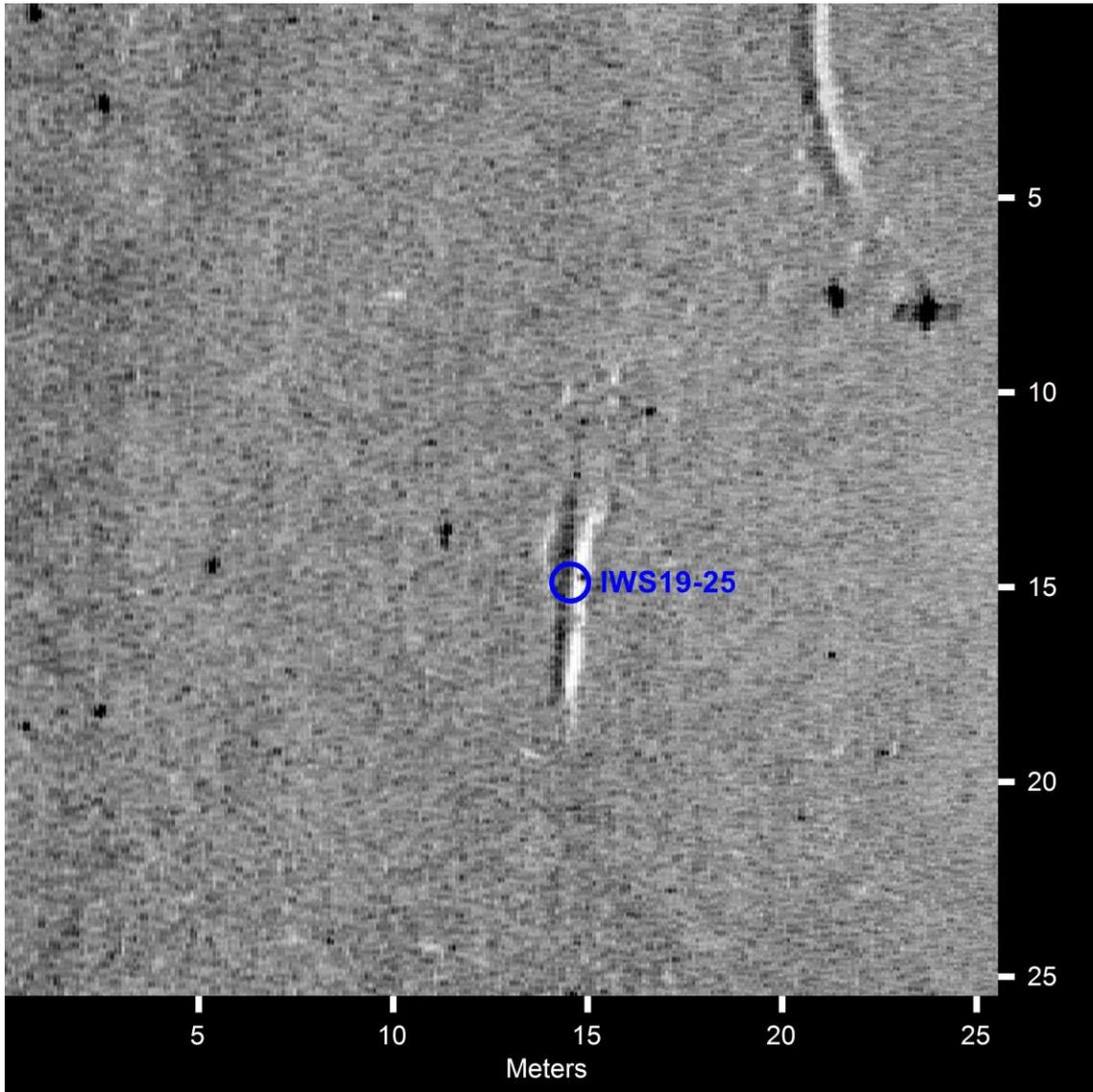


**IWS19-24**

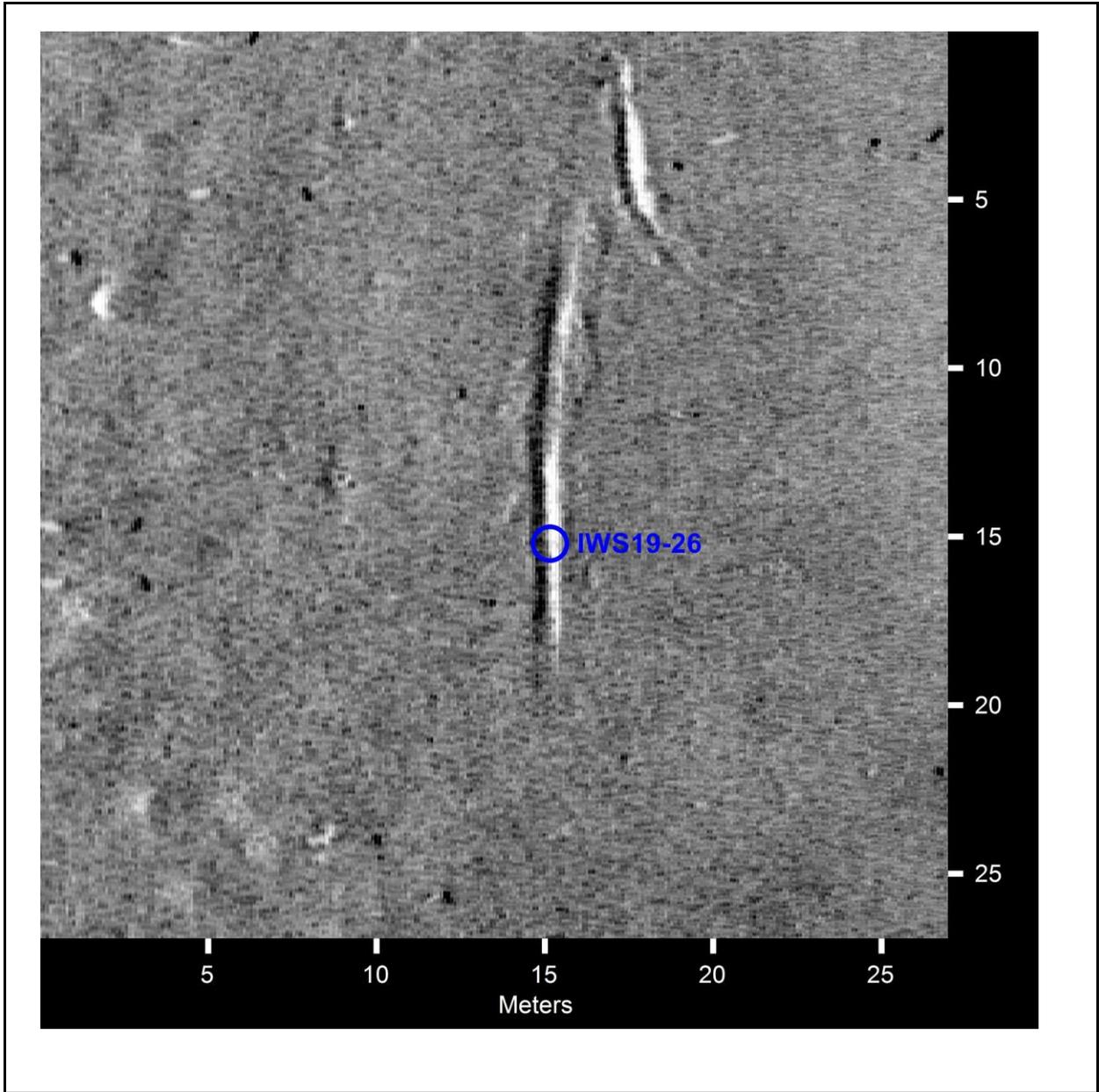
- Sonar Time at Target: 7/1/2019 4:28:56 PM
- Position  
42.4353408742 -70.5847766153 (WGS84)  
(X) 275304.44 (Y) 909828.28 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 50537
- Range to target: 27.89 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.36 Meters
- Target Height: 0.00 Meters
- Target Length: 5.57 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



<p><b>IWS19-25</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:29:04 PM</li><li>• Position 42.4354356020 -70.5846695578 (WGS84) (X) 275313.13 (Y) 909838.90 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 50937</li><li>• Range to target: 34.52 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.44 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 5.32 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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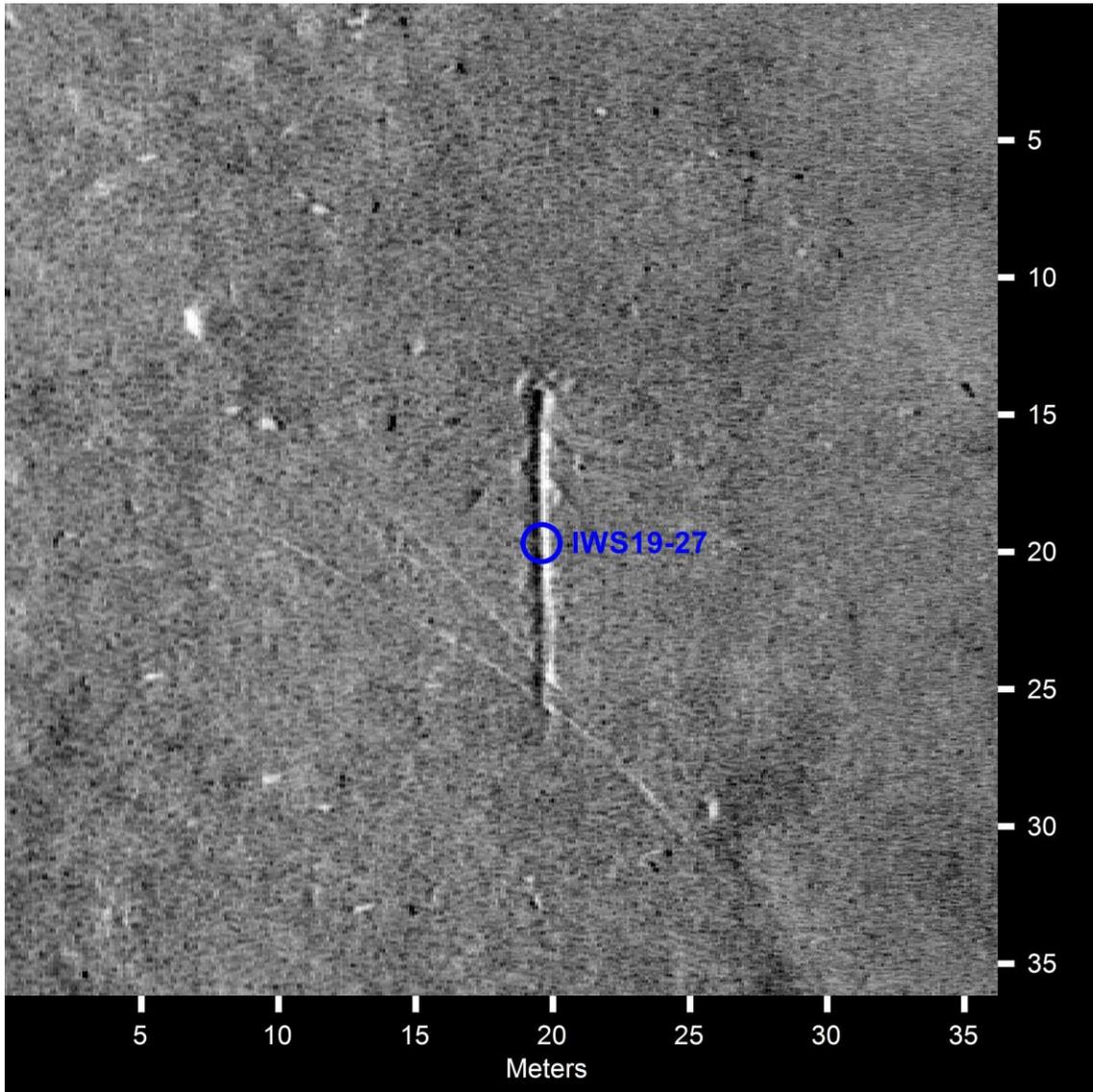


**IWS19-26**

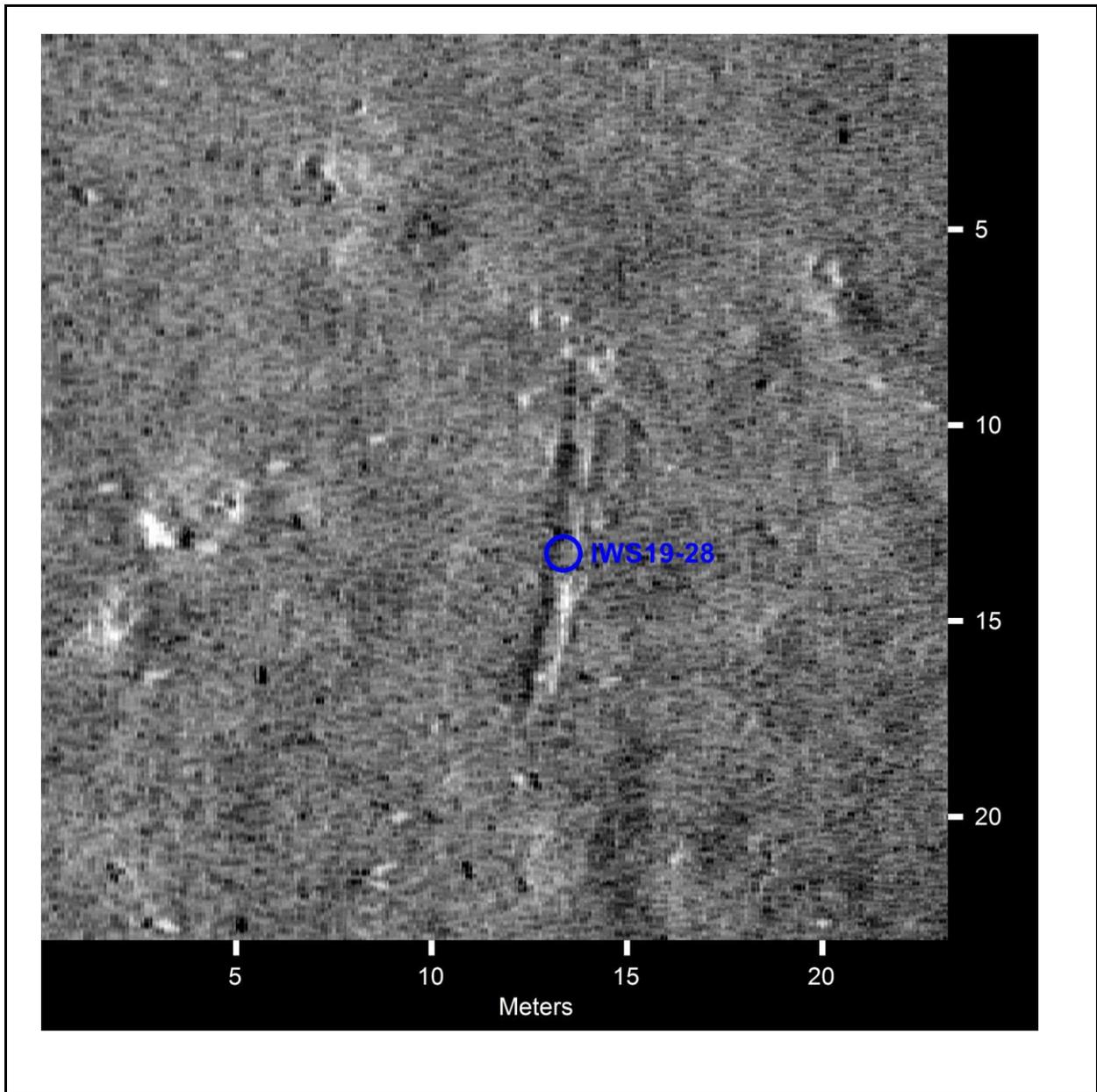
- Sonar Time at Target: 7/1/2019 4:29:25 PM
- Position  
42.4355288202 -70.5842921594 (WGS84)  
(X) 275344.07 (Y) 909849.58 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 52015
- Range to target: 33.04 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.45 Meters
- Target Height: 0.00 Meters
- Target Length: 11.46 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



<p><b>IWS19-27</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:29:43 PM</li><li>• Position 42.4356182785 -70.5839786413 (WGS84) (X) 275369.76 (Y) 909859.80 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 52938</li><li>• Range to target: 33.15 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.26 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 11.98 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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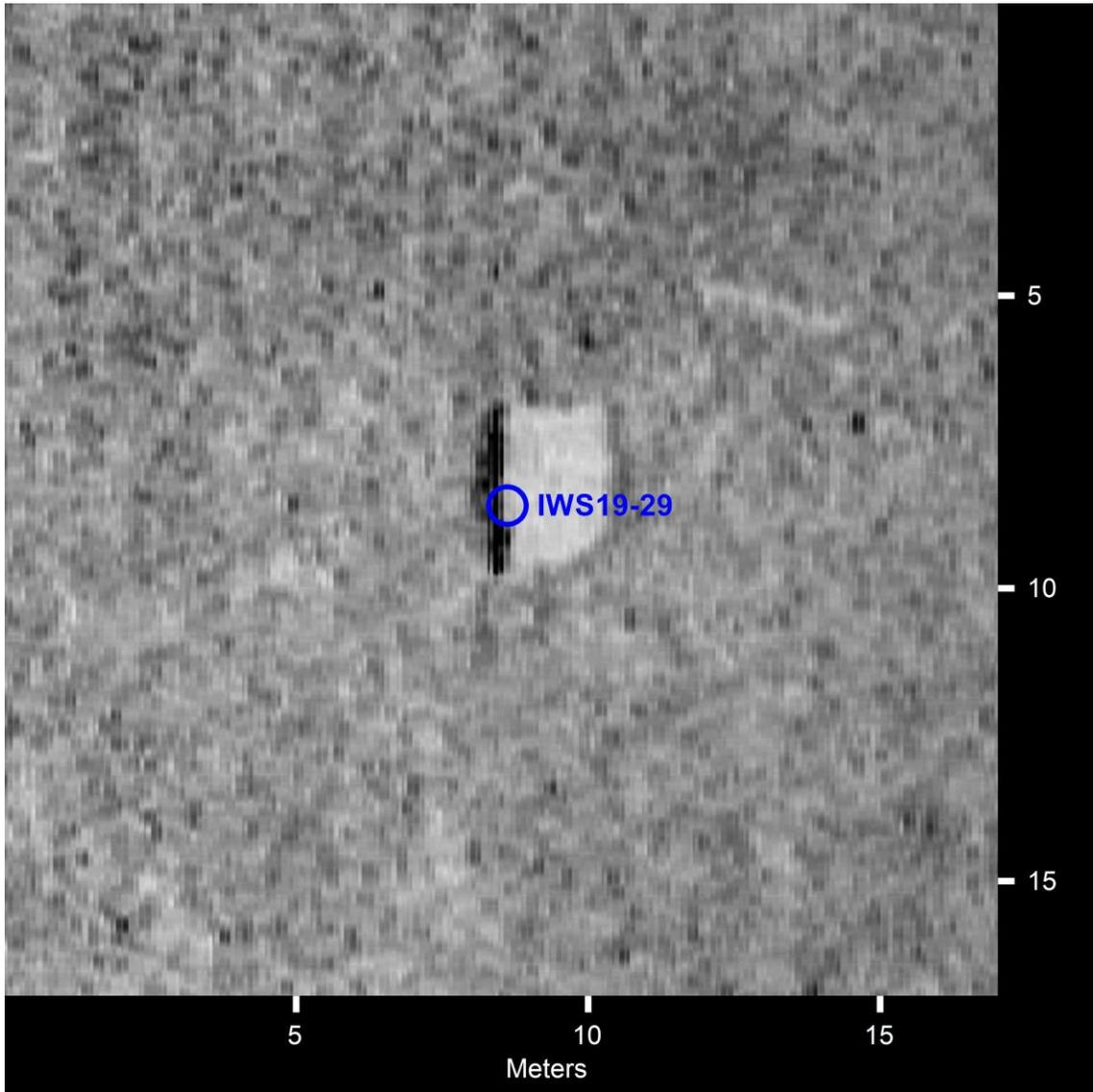


**IWS19-28**

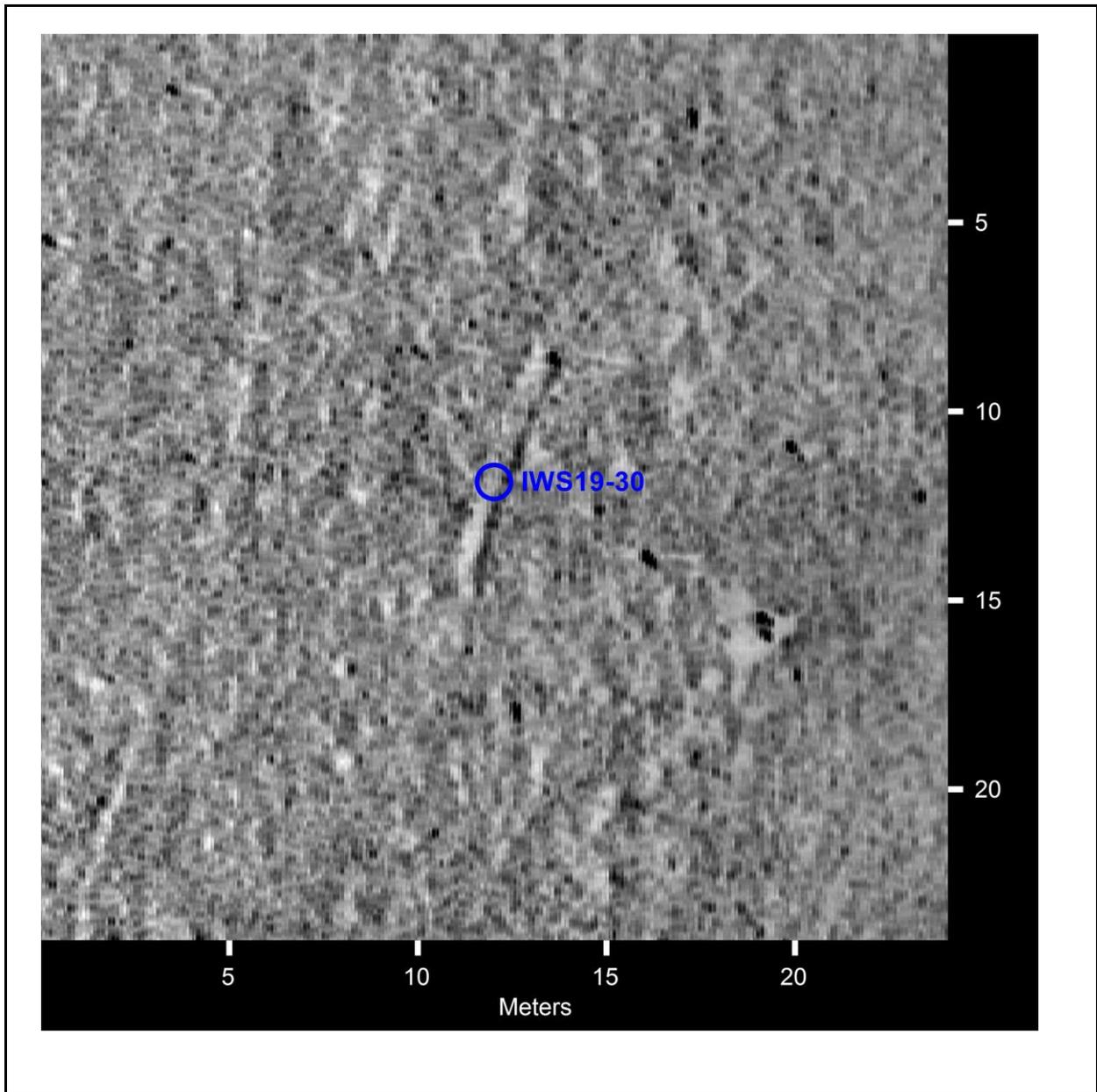
- Sonar Time at Target: 7/1/2019 4:30:07 PM
- Position  
42.4357533223 -70.5835720175 (WGS84)  
(X) 275403.05 (Y) 909875.15 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 54160
- Range to target: 34.98 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.82 Meters
- Target Height: 0.00 Meters
- Target Length: 9.33 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



<p><b>IWS19-29</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:32:11 PM</li><li>• Position 42.4353881594 -70.5809047399 (WGS84) (X) 275622.95 (Y) 909836.96 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_161253_10304.20190701_222314.xtf</li><li>• Ping Number: 60489</li><li>• Range to target: 81.73 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.59 Meters</li><li>• Target Height: 0.04 Meters</li><li>• Target Length: 2.90 Meters</li><li>• Target Shadow: 1.76 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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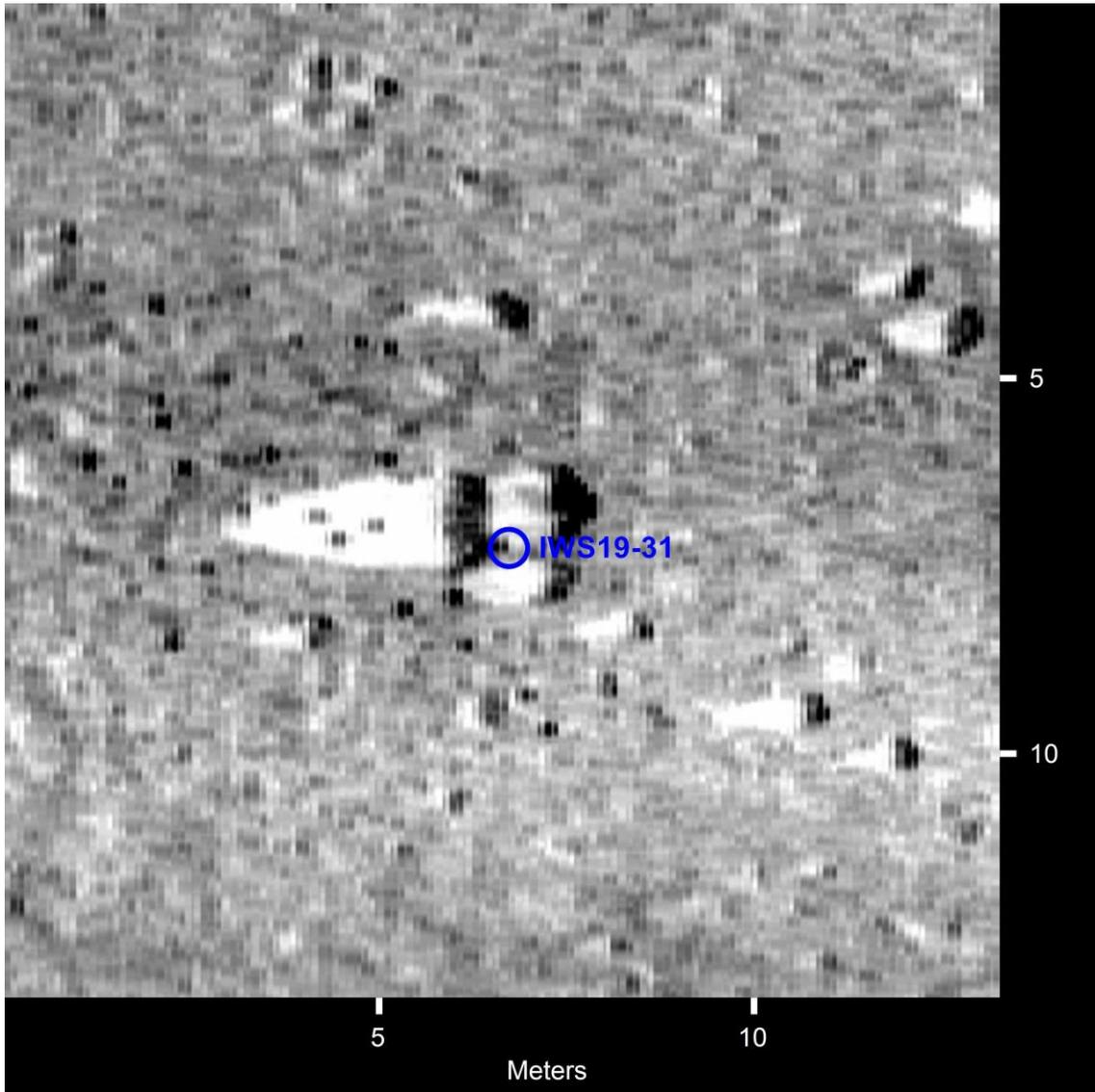


**IWS19-30**

- Sonar Time at Target: 7/1/2019 4:37:13 PM
- Position  
42.4370234390 -70.5758404253 (WGS84)  
(X) 276037.65 (Y) 910023.09 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_161253\_10304.20190701\_222314.xtf
- Ping Number: 75557
- Range to target: 62.30 Meters
- Fish Height: 1.95 Meters

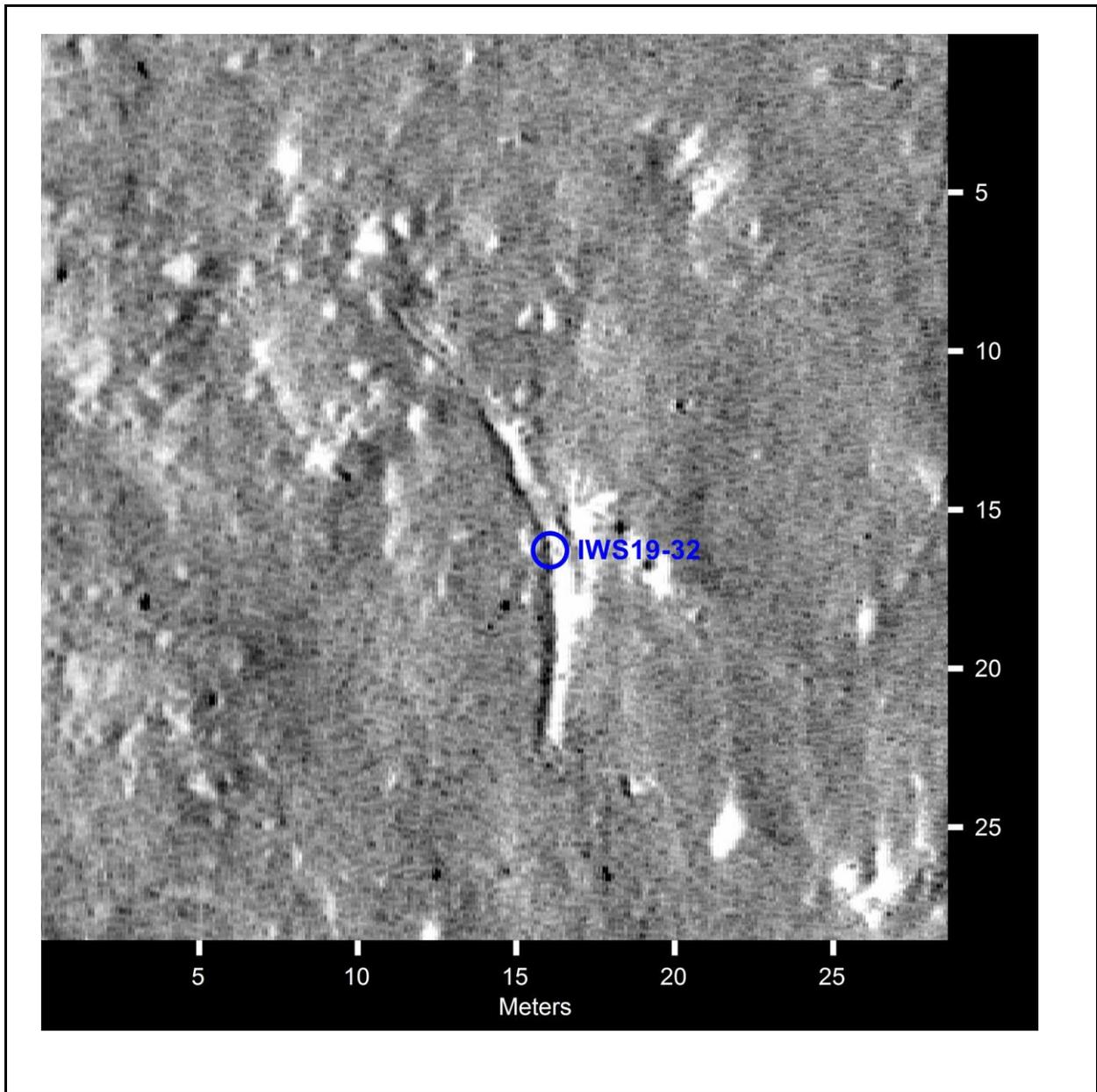
**Dimensions and attributes**

- Target Width: 0.81 Meters
- Target Height: 0.00 Meters
- Target Length: 7.07 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-31</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:46:31 PM</li><li>• Position 42.4363323857 -70.5813537149 (WGS84) (X) 275584.88 (Y) 909941.44 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 21434</li><li>• Range to target: 43.32 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.91 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 1.16 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Trap</li><li>• Description: Possible cluster of traps. Low confidence.</li></ul>
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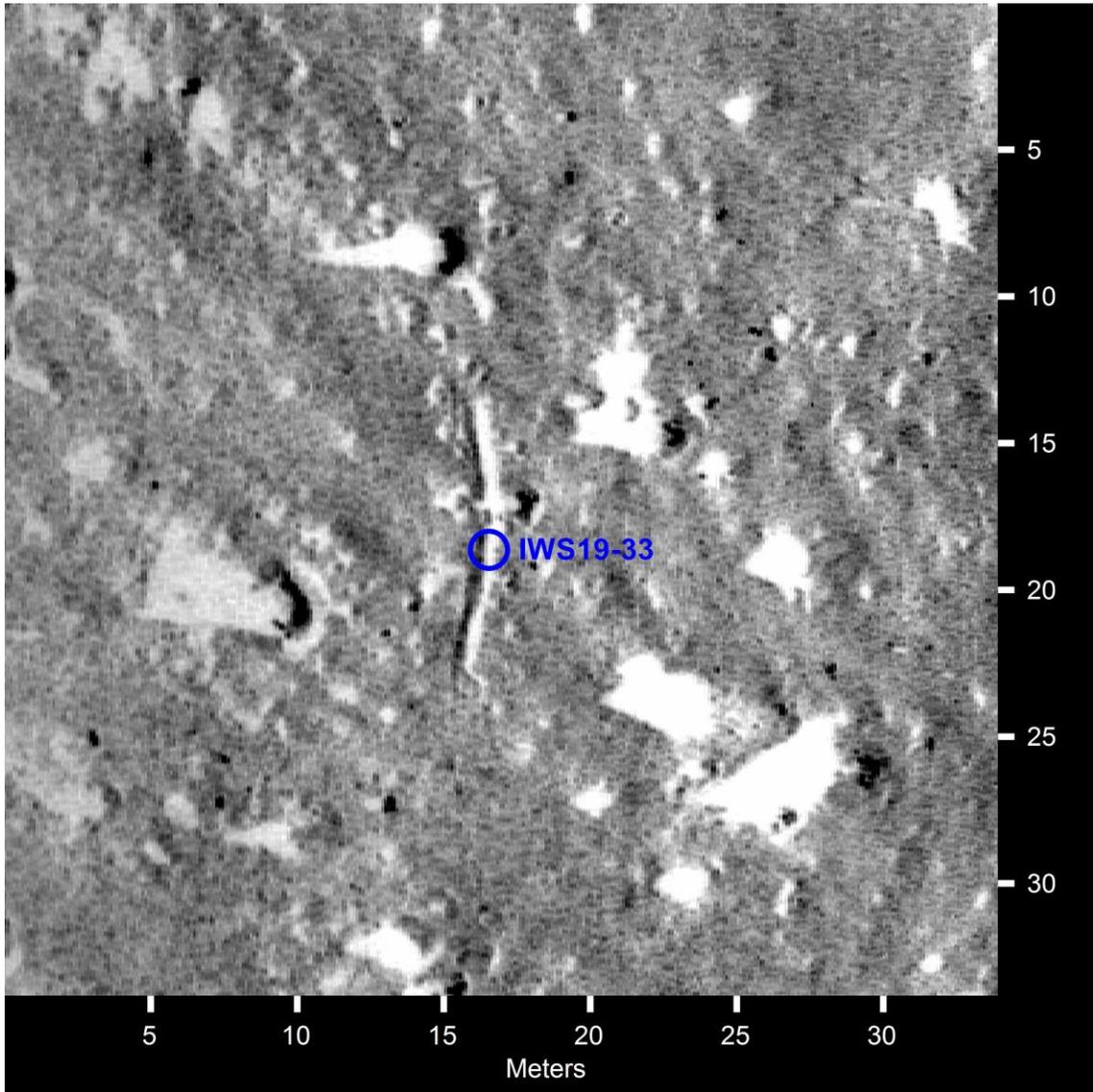


**IWS19-32**

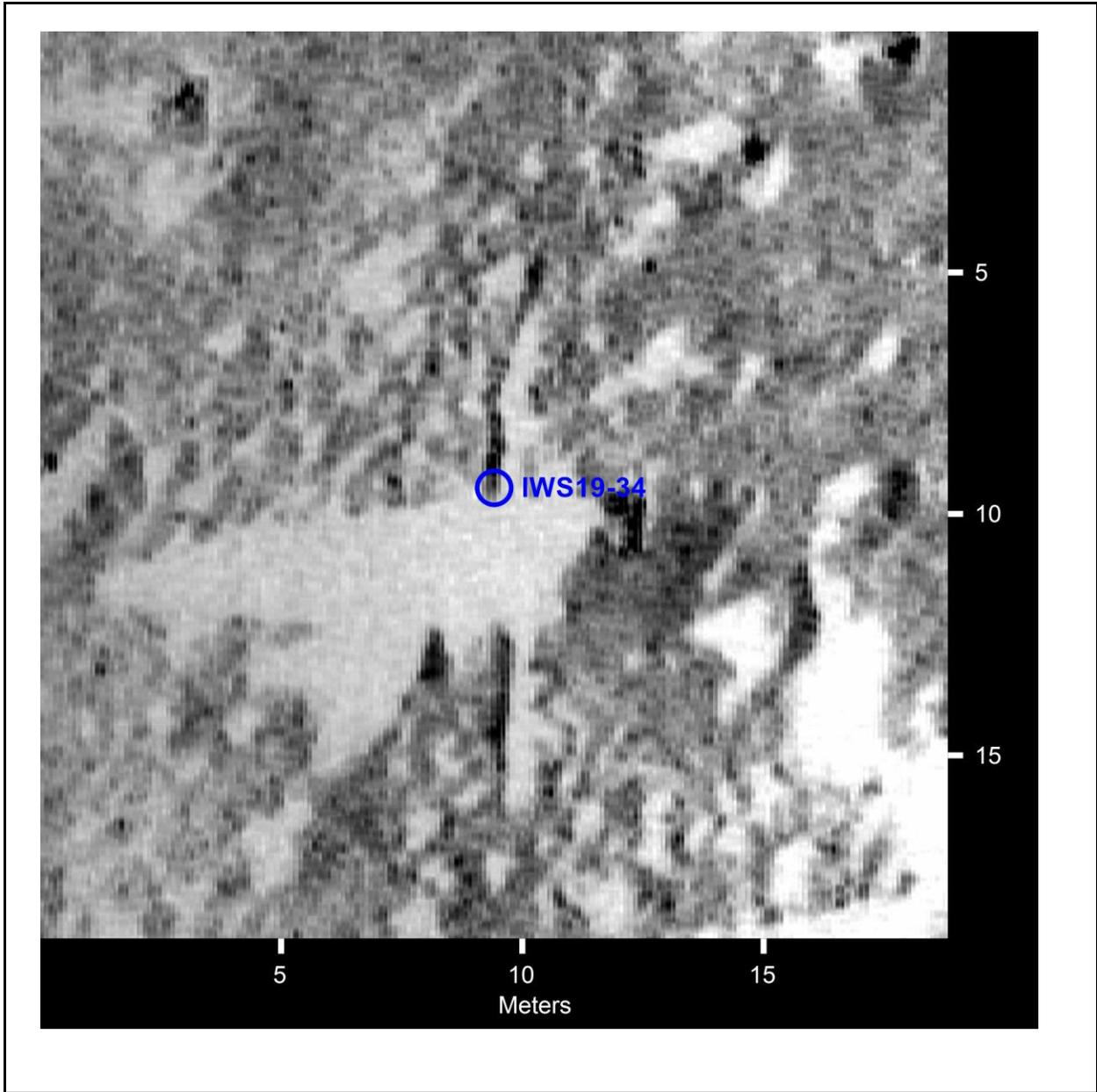
- Sonar Time at Target: 7/1/2019 4:50:17 PM
- Position  
42.4352207034 -70.5851752804 (WGS84)  
(X) 275271.78 (Y) 909814.58 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 32574
- Range to target: 45.17 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.70 Meters
- Target Height: 0.00 Meters
- Target Length: 14.35 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



<p><b>IWS19-33</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:50:37 PM</li><li>• Position 42.4350633688 -70.5854905780 (WGS84) (X) 275246.02 (Y) 909796.83 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 33582</li><li>• Range to target: 52.19 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.42 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 9.28 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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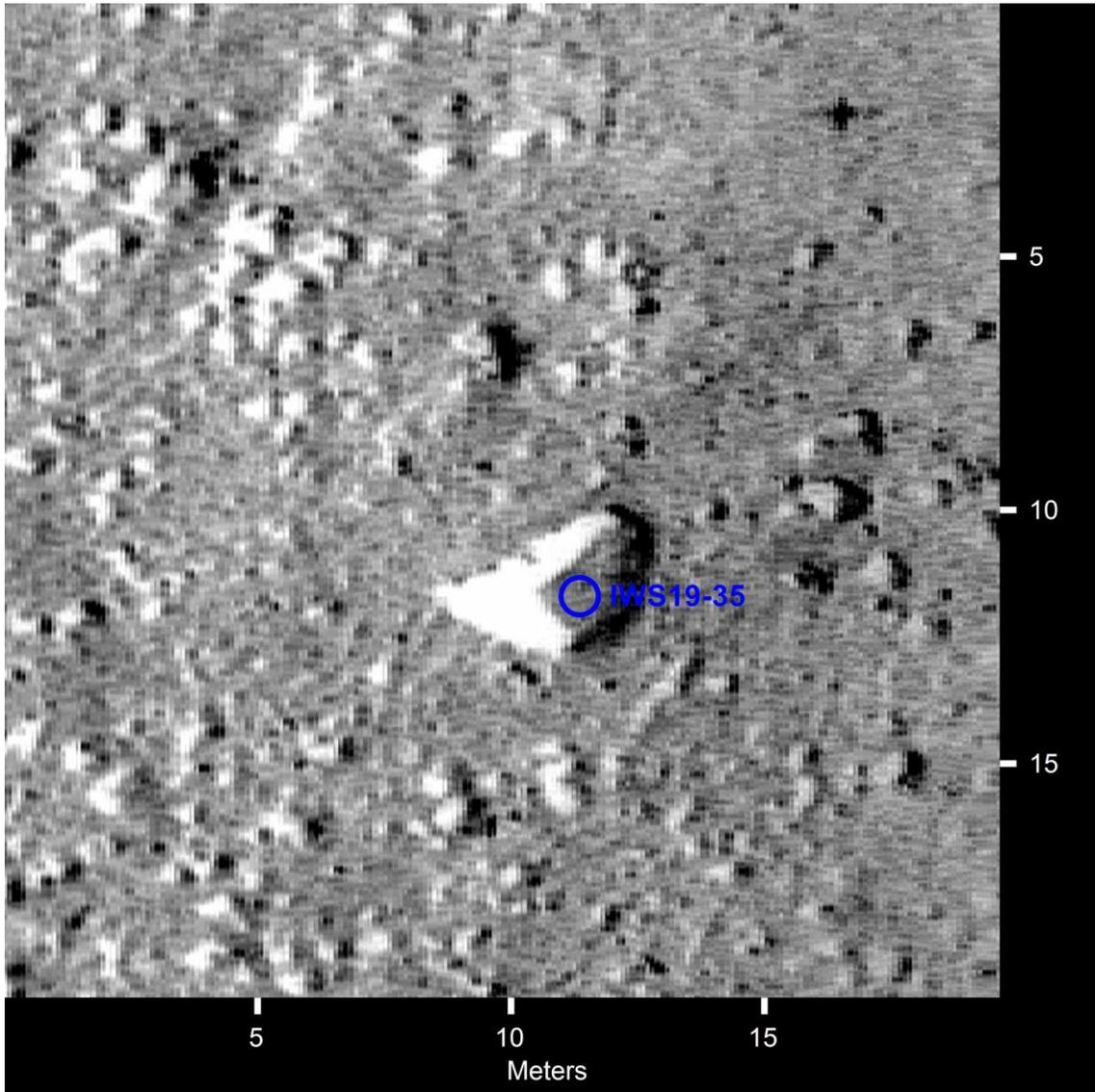


**IWS19-34**

- Sonar Time at Target: 7/1/2019 4:50:53 PM
- Position  
42.4349050082 -70.5857244839 (WGS84)  
(X) 275226.97 (Y) 909779.03 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 34377
- Range to target: 61.76 Meters
- Fish Height: 1.95 Meters

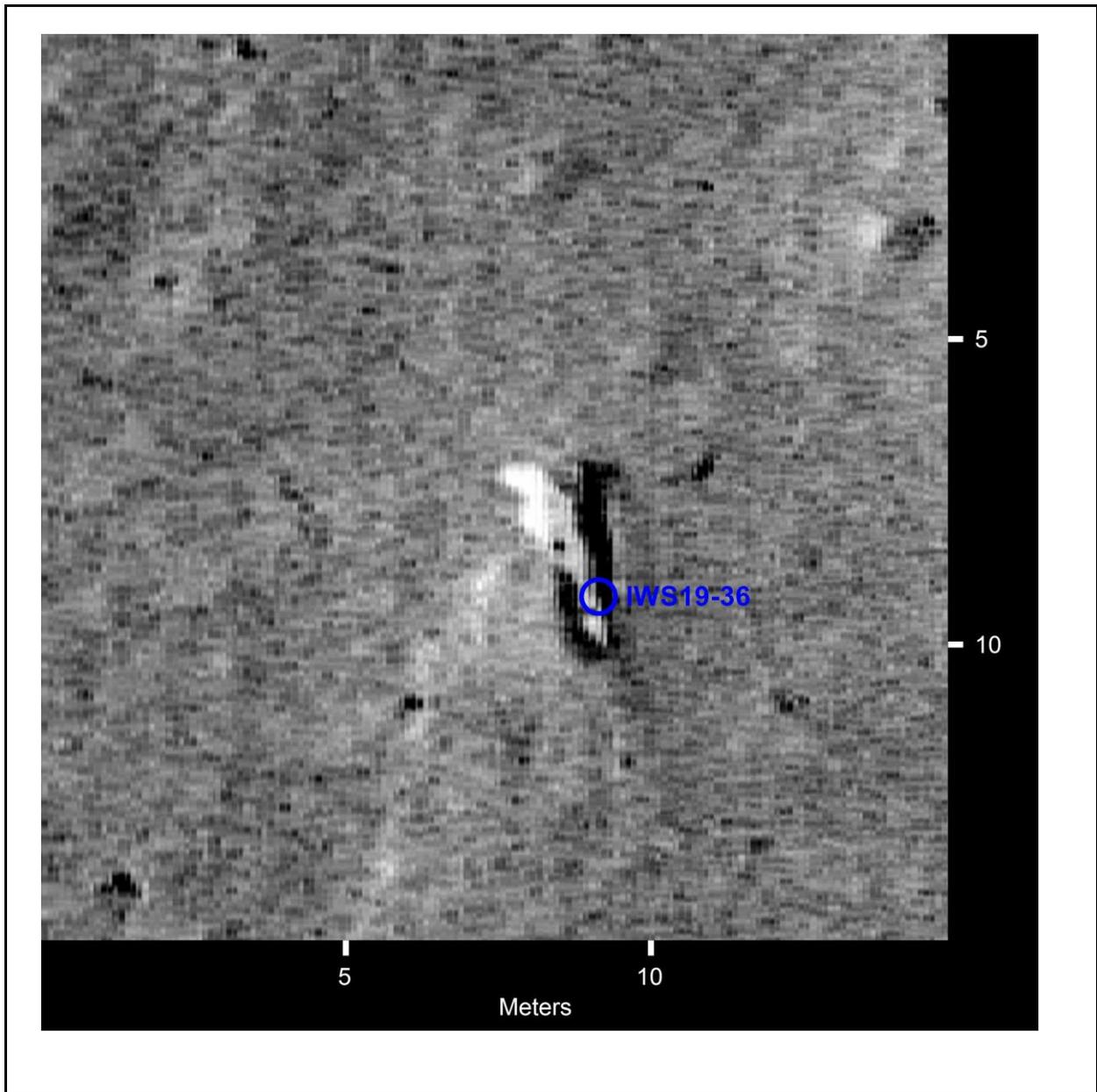
**Dimensions and attributes**

- Target Width: 0.00 Meters
- Target Height: 0.00 Meters
- Target Length: 9.92 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-35</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:00:04 PM</li><li>• Position 42.4325673723 -70.5950562005 (WGS84) (X) 274461.93 (Y) 909511.19 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 61246</li><li>• Range to target: 27.53 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.38 Meters</li><li>• Target Height: 0.15 Meters</li><li>• Target Length: 2.11 Meters</li><li>• Target Shadow: 2.27 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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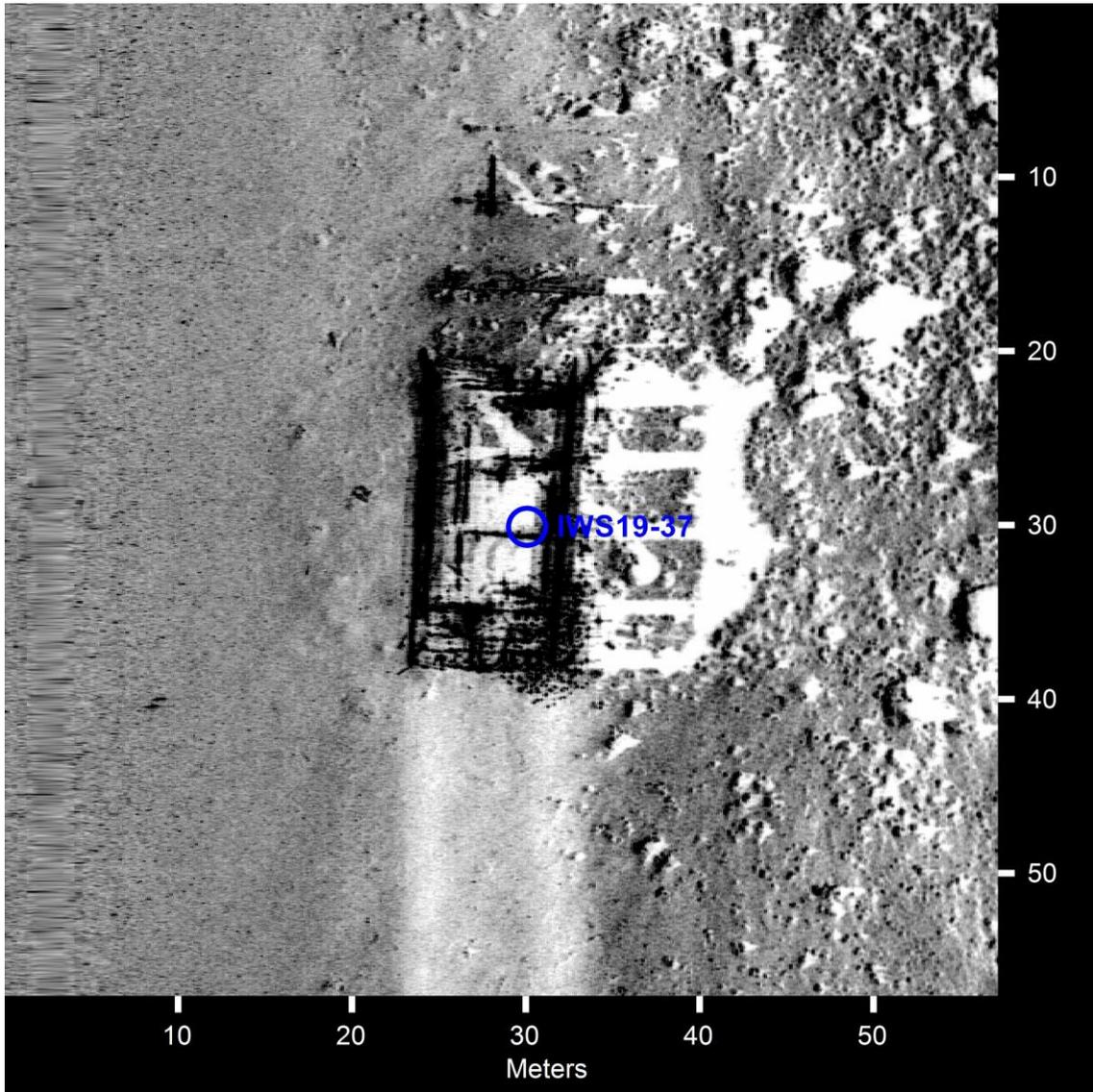
Appendix C – IWS Contact Report

**IWS19-36**

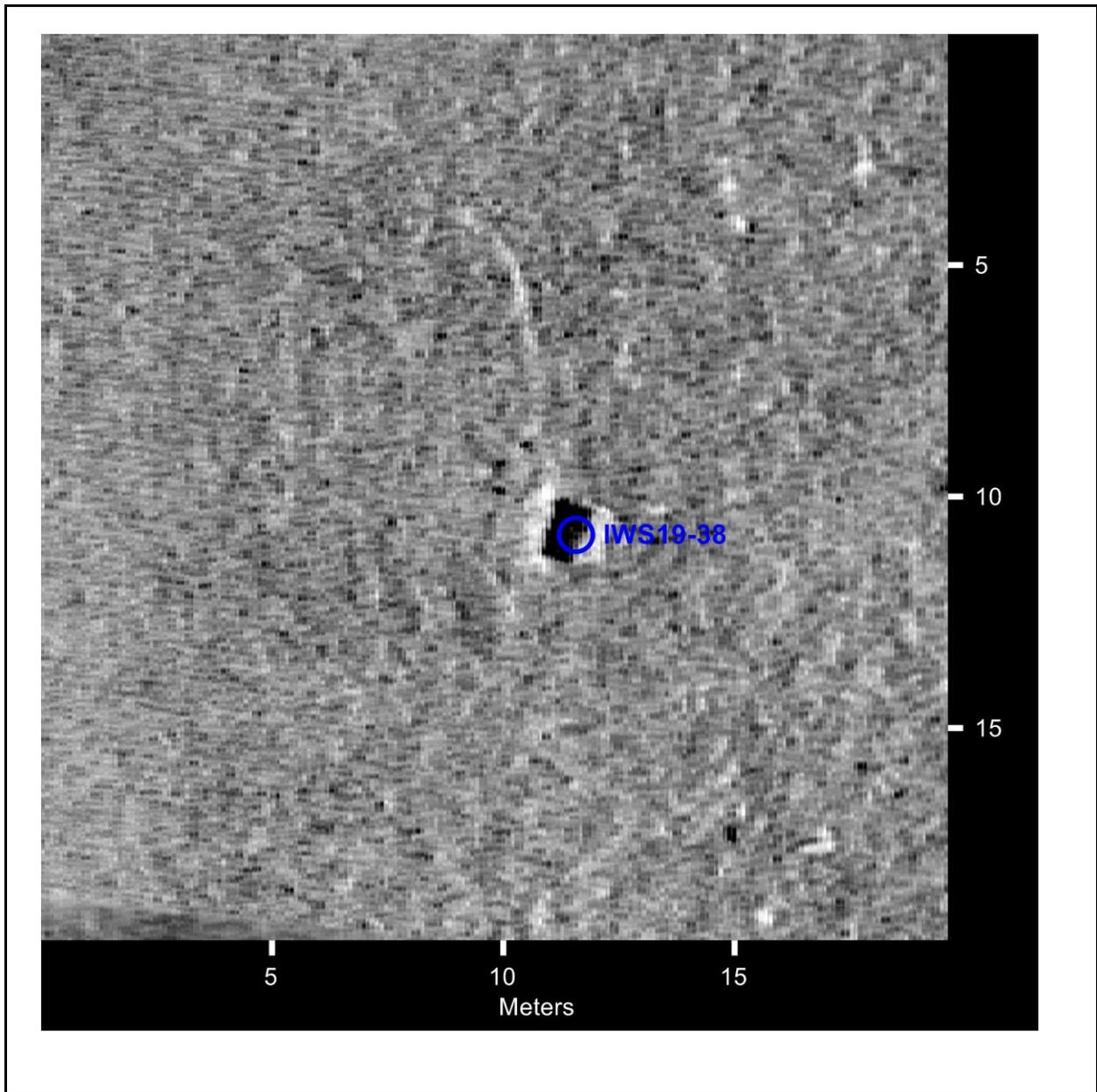
- Sonar Time at Target: 7/1/2019 5:05:16 PM
- Position  
42.4311190756 -70.6000728606 (WGS84)  
(X) 274050.86 (Y) 909345.96 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 75916
- Range to target: 29.12 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.97 Meters
- Target Height: 0.05 Meters
- Target Length: 3.02 Meters
- Target Shadow: 0.81 Meters
- Classification1: debris
- Description:



<p><b>IWS19-37</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:05:41 PM</li><li>• Position 42.4314775389 -70.6007238154 (WGS84) (X) 273996.88 (Y) 909385.21 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 77092</li><li>• Range to target: 27.42 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 9.41 Meters</li><li>• Target Height: 0.53 Meters</li><li>• Target Length: 28.79 Meters</li><li>• Target Shadow: 10.31 Meters</li><li>• Classification1: wreck</li><li>• Description:</li></ul>
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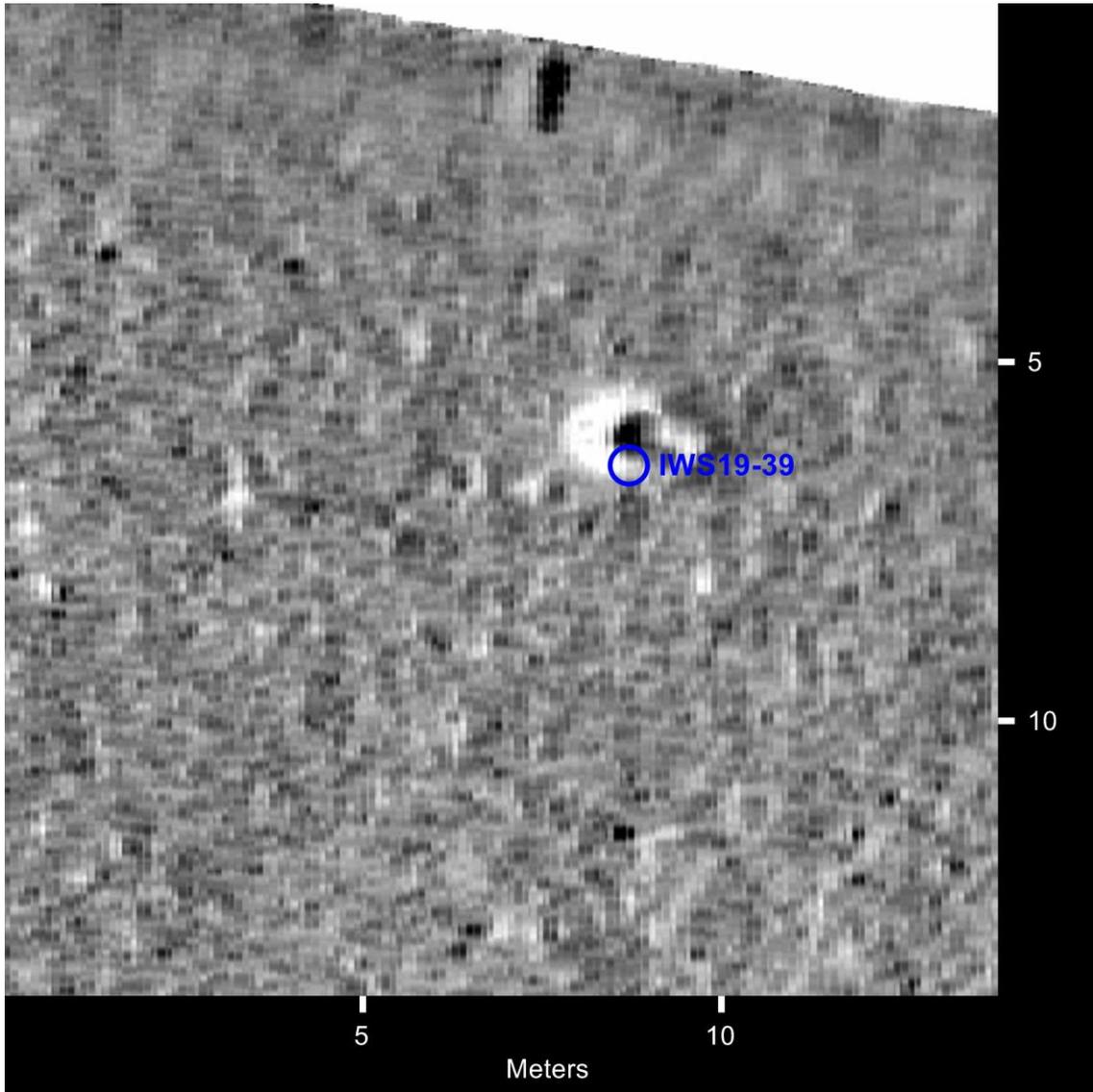


**IWS19-38**

- Sonar Time at Target: 7/1/2019 4:40:11 PM
- Position  
42.4388533908 -70.5751580167 (WGS84)  
(X) 276091.59 (Y) 910226.96 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 1946
- Range to target: 33.59 Meters
- Fish Height: 1.95 Meters

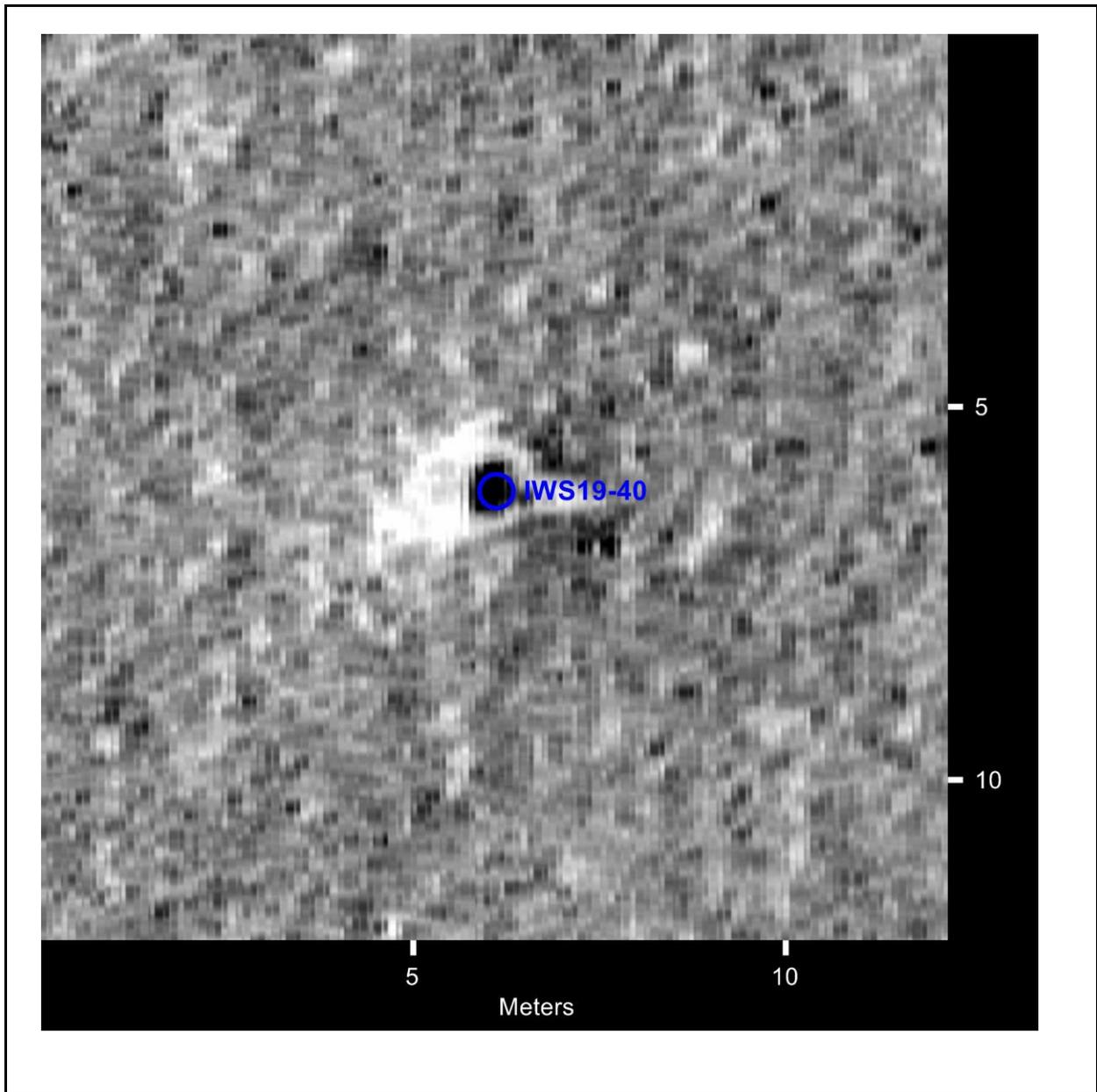
**Dimensions and attributes**

- Target Width: 0.75 Meters
- Target Height: 0.02 Meters
- Target Length: 1.42 Meters
- Target Shadow: 0.36 Meters
- Classification1: Trap
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-39</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:40:06 PM</li><li>• Position 42.4389793242 -70.5751062023 (WGS84) (X) 276095.70 (Y) 910240.99 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 1649</li><li>• Range to target: 45.28 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.60 Meters</li><li>• Target Height: 0.02 Meters</li><li>• Target Length: 0.72 Meters</li><li>• Target Shadow: 0.53 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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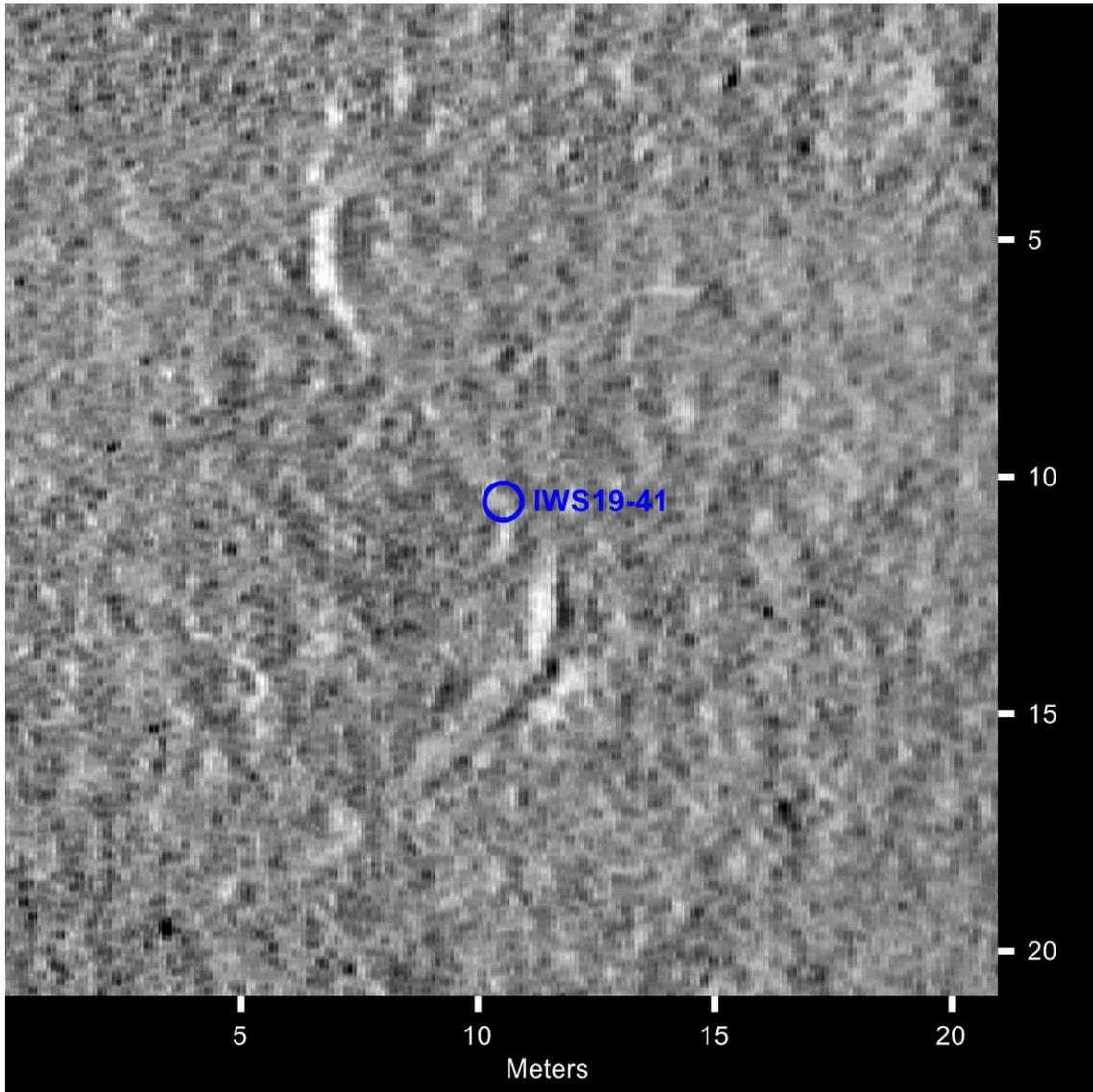


**IWS19-40**

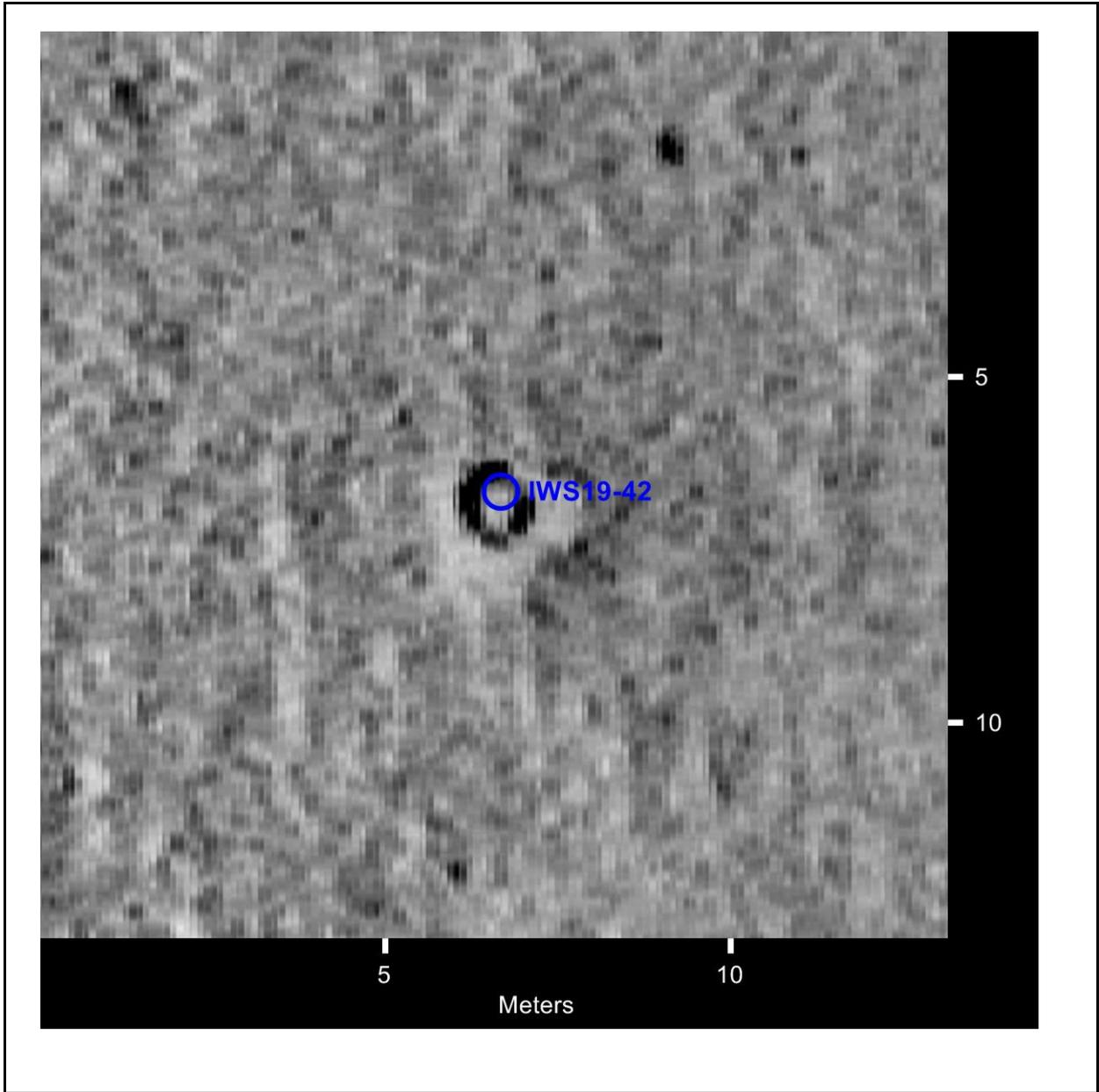
- Sonar Time at Target: 7/1/2019 4:40:14 PM
- Position  
42.4390551714 -70.5753110412 (WGS84)  
(X) 276078.76 (Y) 910249.23 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 2080
- Range to target: 58.99 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.75 Meters
- Target Height: 0.04 Meters
- Target Length: 0.83 Meters
- Target Shadow: 1.19 Meters
- Classification1: debris
- Description:



<p><b>IWS19-41</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:40:56 PM</li><li>• Position 42.4388327455 -70.5760788101 (WGS84) (X) 276015.86 (Y) 910223.84 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 4431</li><li>• Range to target: 59.74 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.55 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 13.00 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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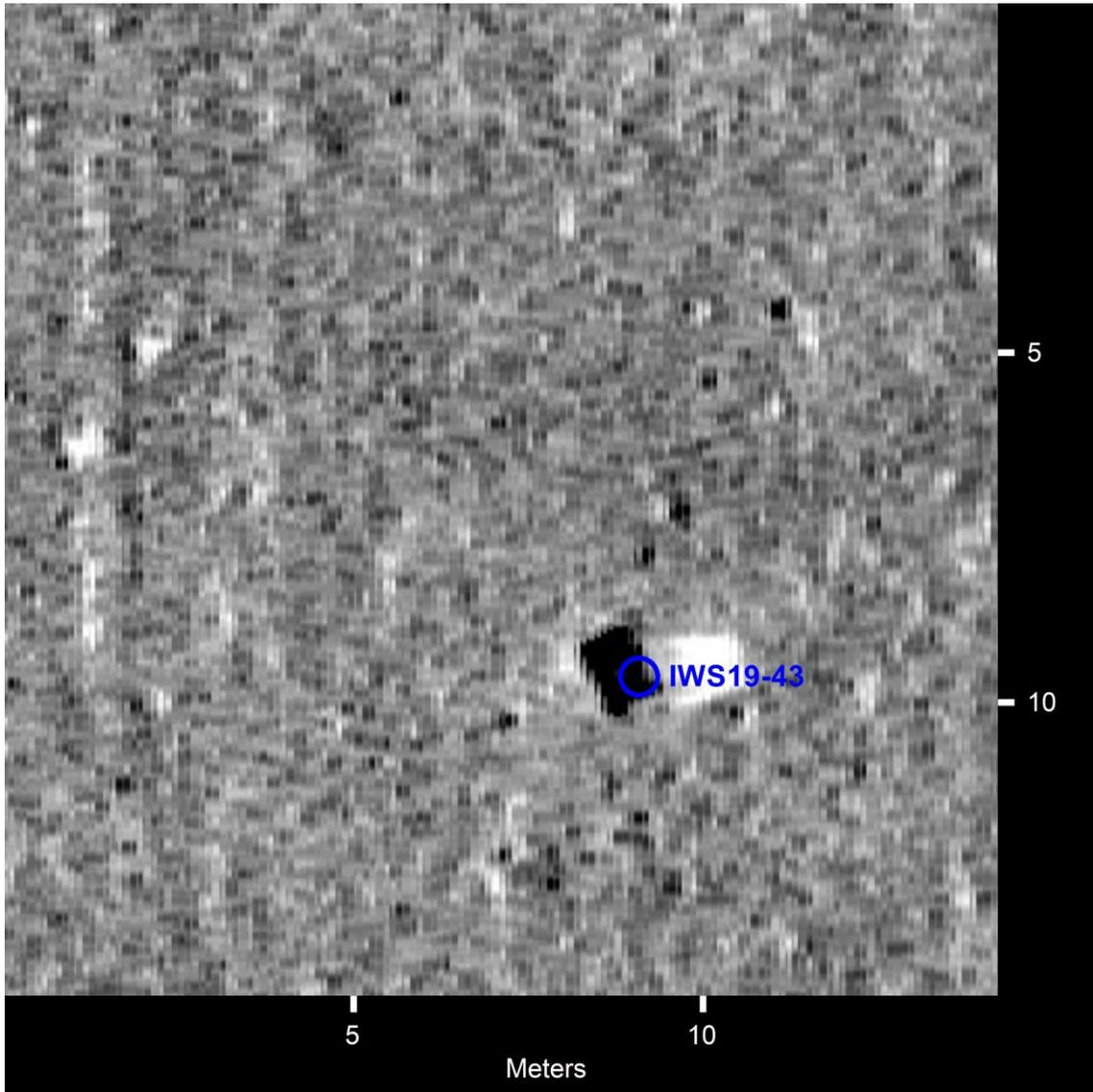


**IWS19-42**

- Sonar Time at Target: 7/1/2019 4:41:04 PM
- Position  
42.4388876475 -70.5762584996 (WGS84)  
(X) 276001.01 (Y) 910229.78 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 4866
- Range to target: 71.11 Meters
- Fish Height: 1.95 Meters

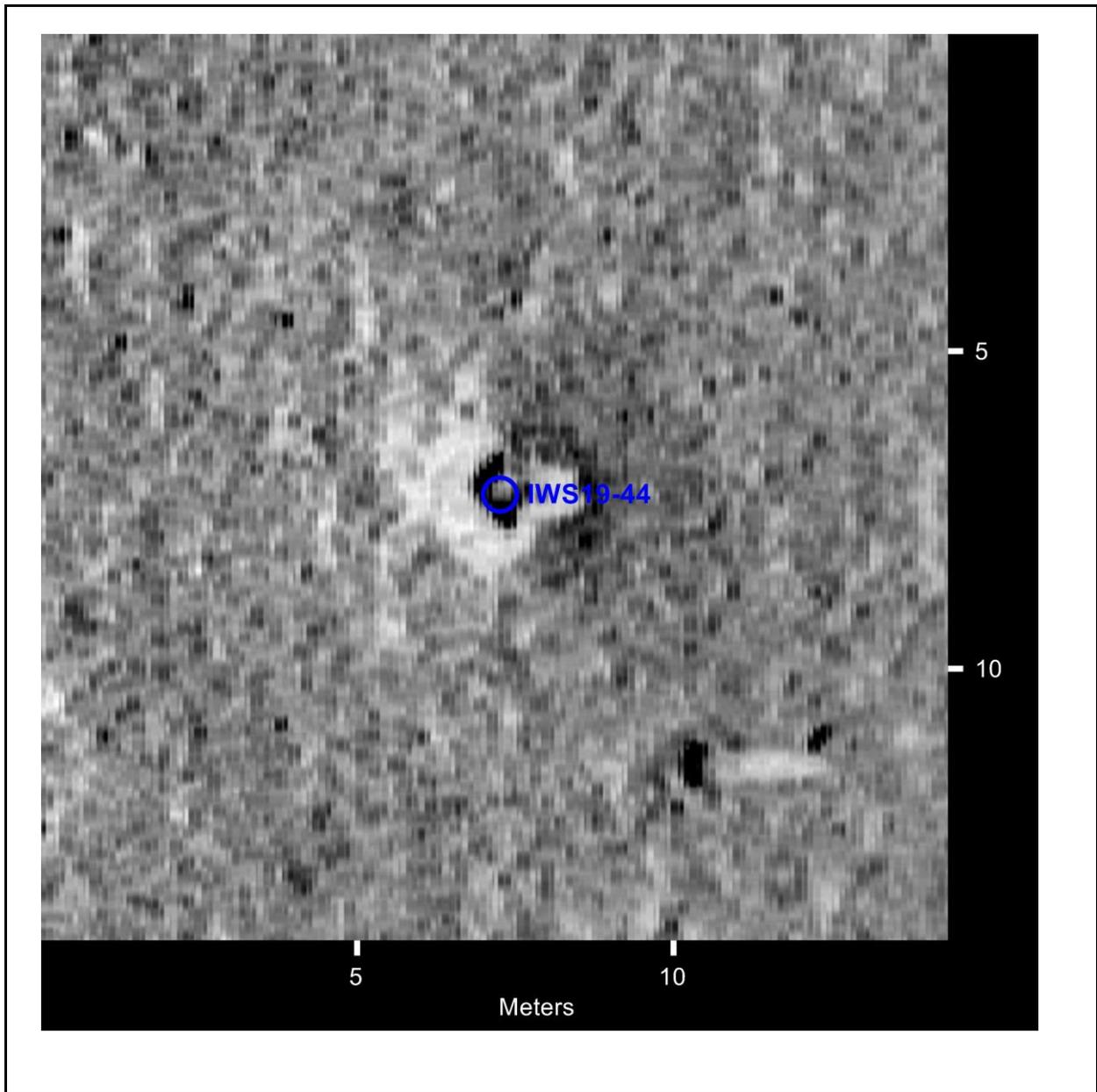
**Dimensions and attributes**

- Target Width: 1.01 Meters
- Target Height: 0.01 Meters
- Target Length: 1.15 Meters
- Target Shadow: 0.69 Meters
- Classification1: tires
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-43</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:42:22 PM</li><li>• Position 42.4383241393 -70.5774917858 (WGS84) (X) 275900.22 (Y) 910166.09 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 8935</li><li>• Range to target: 49.21 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.67 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.29 Meters</li><li>• Target Shadow: 1.44 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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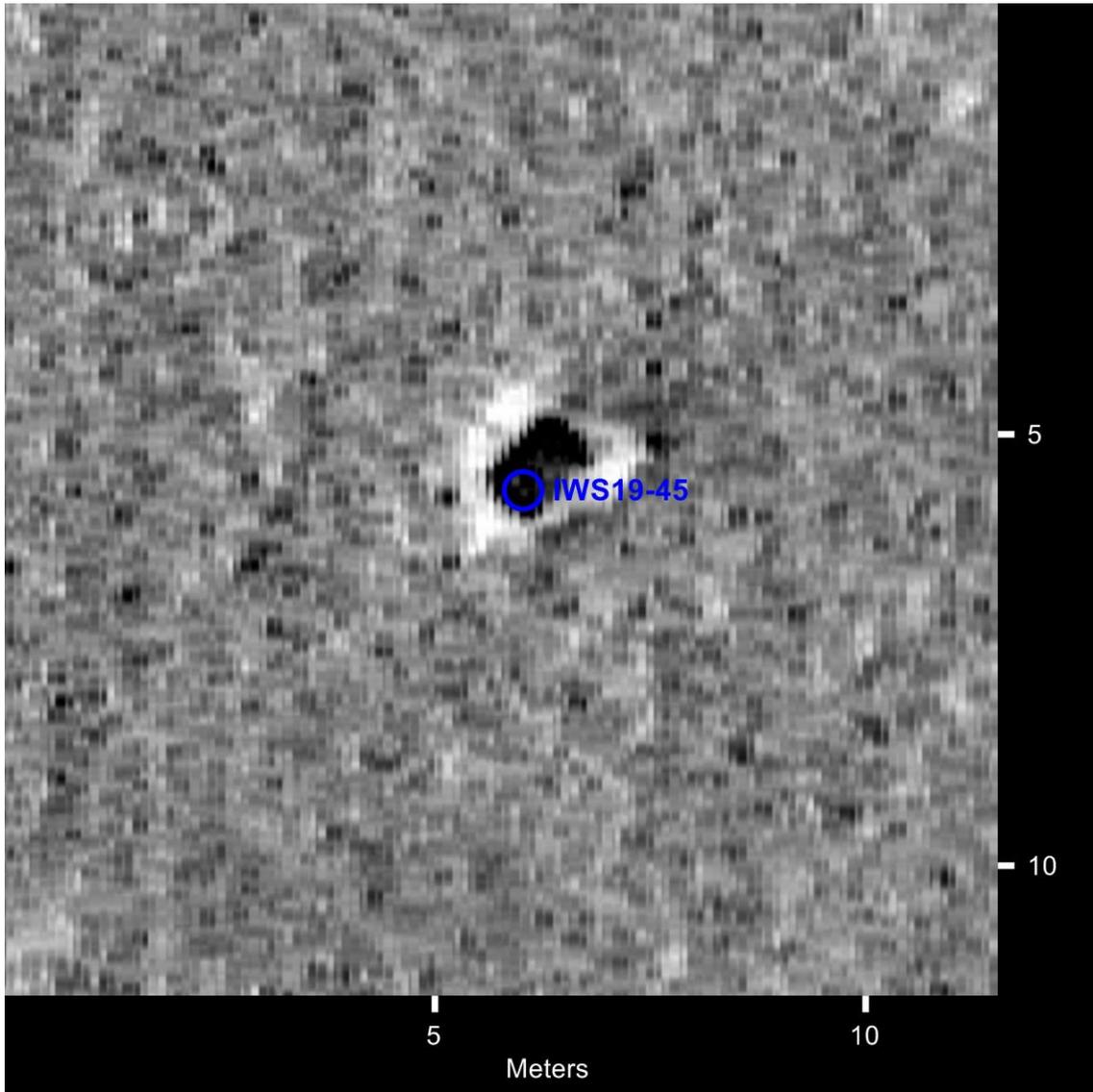


**IWS19-44**

- Sonar Time at Target: 7/1/2019 4:42:17 PM
- Position  
42.4384780699 -70.5774655727 (WGS84)  
(X) 275902.20 (Y) 910183.21 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 8655
- Range to target: 64.31 Meters
- Fish Height: 1.95 Meters

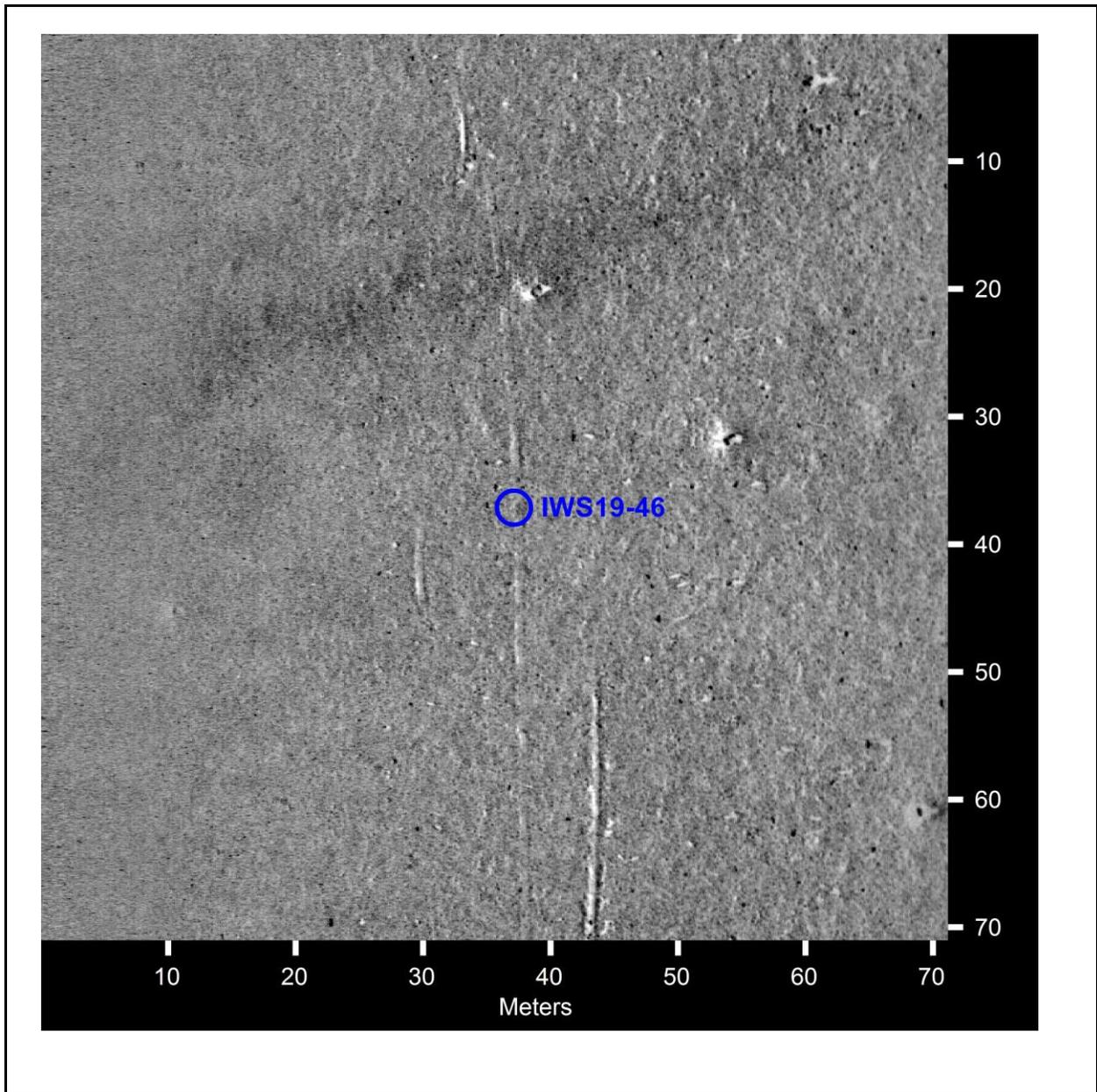
**Dimensions and attributes**

- Target Width: 0.80 Meters
- Target Height: 0.03 Meters
- Target Length: 1.34 Meters
- Target Shadow: 1.02 Meters
- Classification1: Trap
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-45</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:42:42 PM</li><li>• Position 42.4381918705 -70.5778125683 (WGS84) (X) 275873.99 (Y) 910151.12 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 9946</li><li>• Range to target: 45.28 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.89 Meters</li><li>• Target Height: 0.02 Meters</li><li>• Target Length: 1.21 Meters</li><li>• Target Shadow: 0.66 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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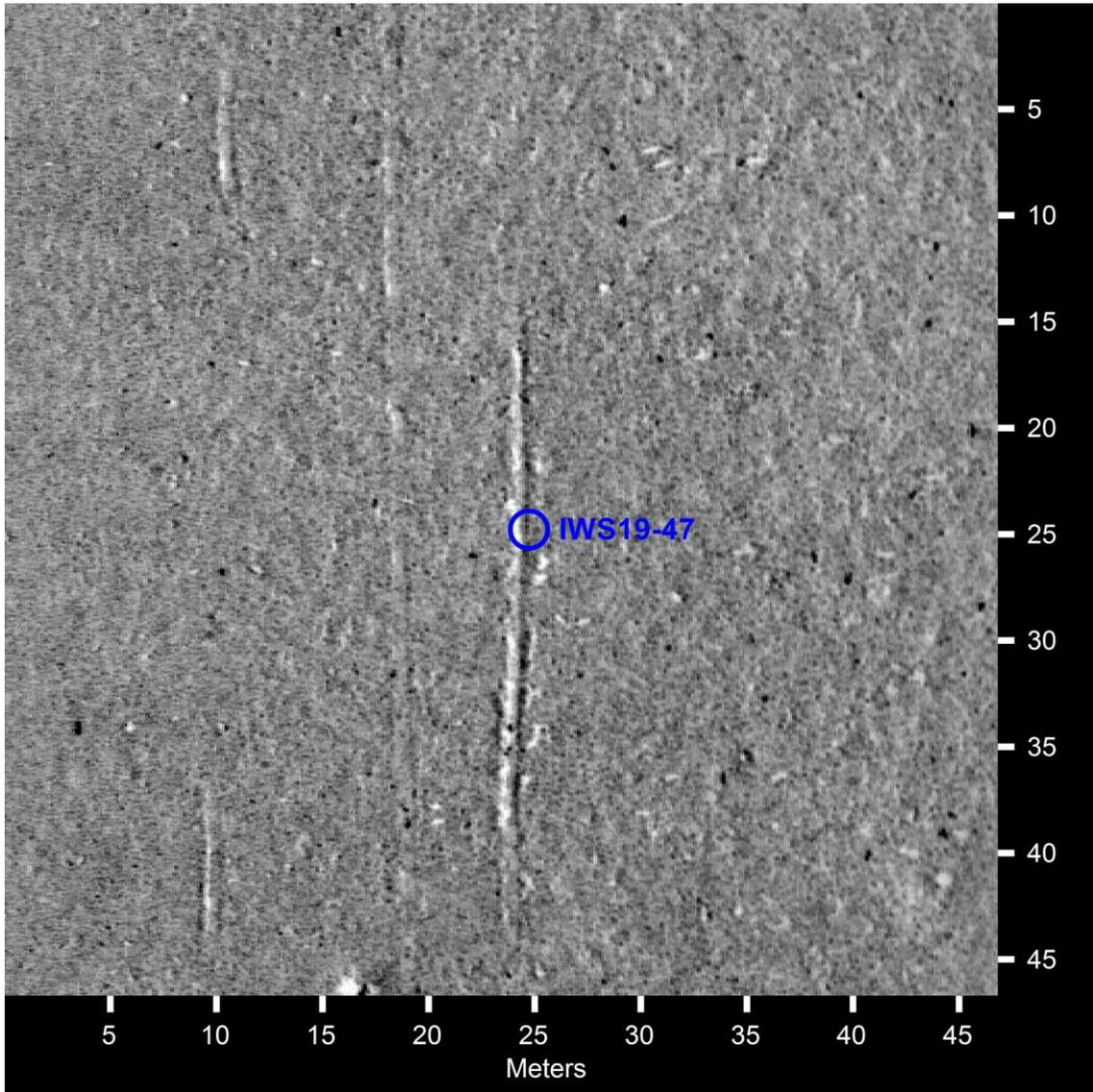


**IWS19-46**

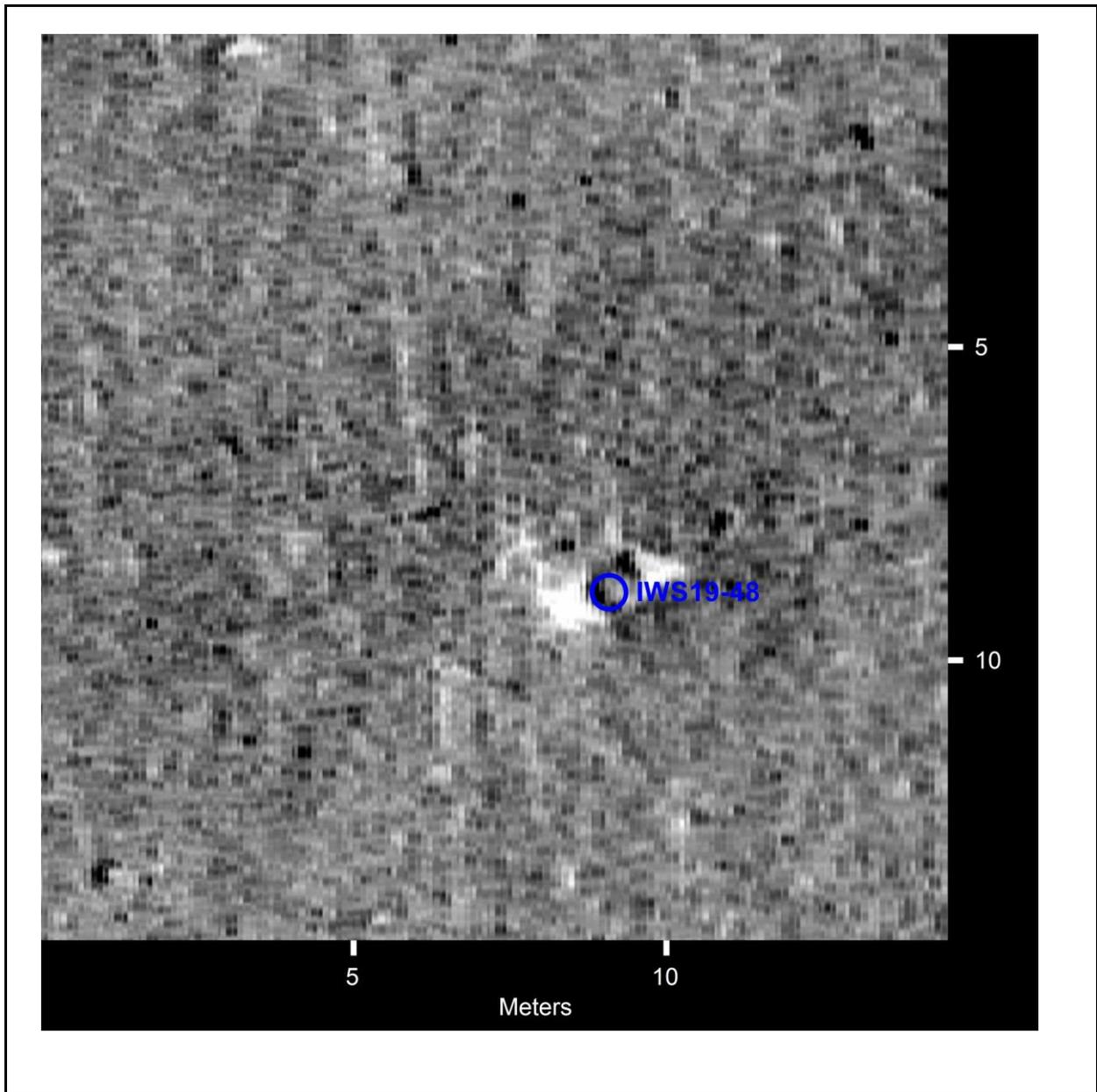
- Sonar Time at Target: 7/1/2019 4:43:22 PM
- Position  
42.4379614087 -70.5784741916 (WGS84)  
(X) 275819.83 (Y) 910124.93 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 11961
- Range to target: 40.39 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.00 Meters
- Target Height: 0.00 Meters
- Target Length: 38.33 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



<p><b>IWS19-47</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:43:37 PM</li><li>• Position 42.4379451062 -70.5787729633 (WGS84) (X) 275795.27 (Y) 910122.85 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 12725</li><li>• Range to target: 47.30 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.76 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 26.30 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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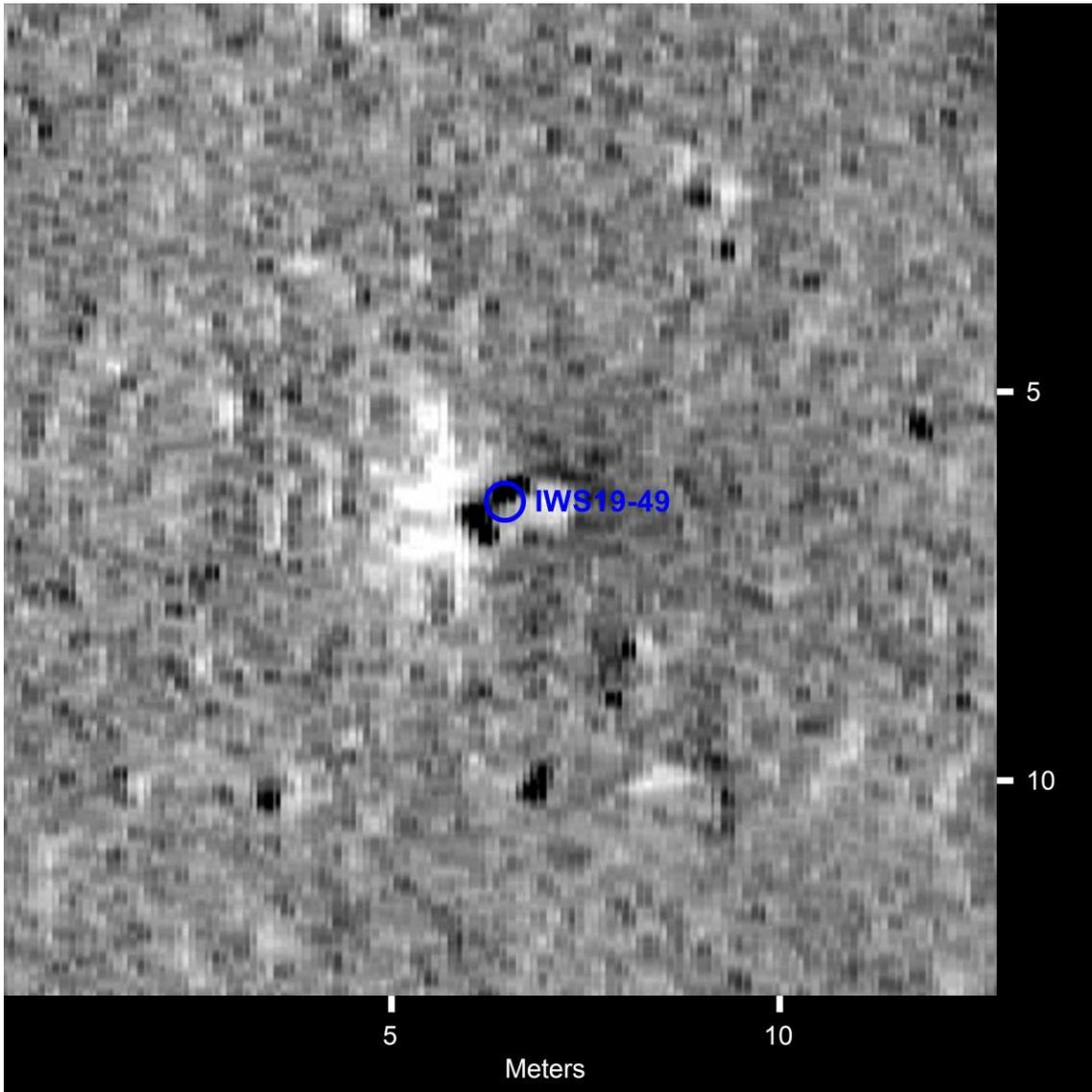


**IWS19-48**

- Sonar Time at Target: 7/1/2019 4:43:11 PM
- Position  
42.4380283907 -70.5782880211 (WGS84)  
(X) 275835.07 (Y) 910132.54 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 11404
- Range to target: 42.09 Meters
- Fish Height: 1.95 Meters

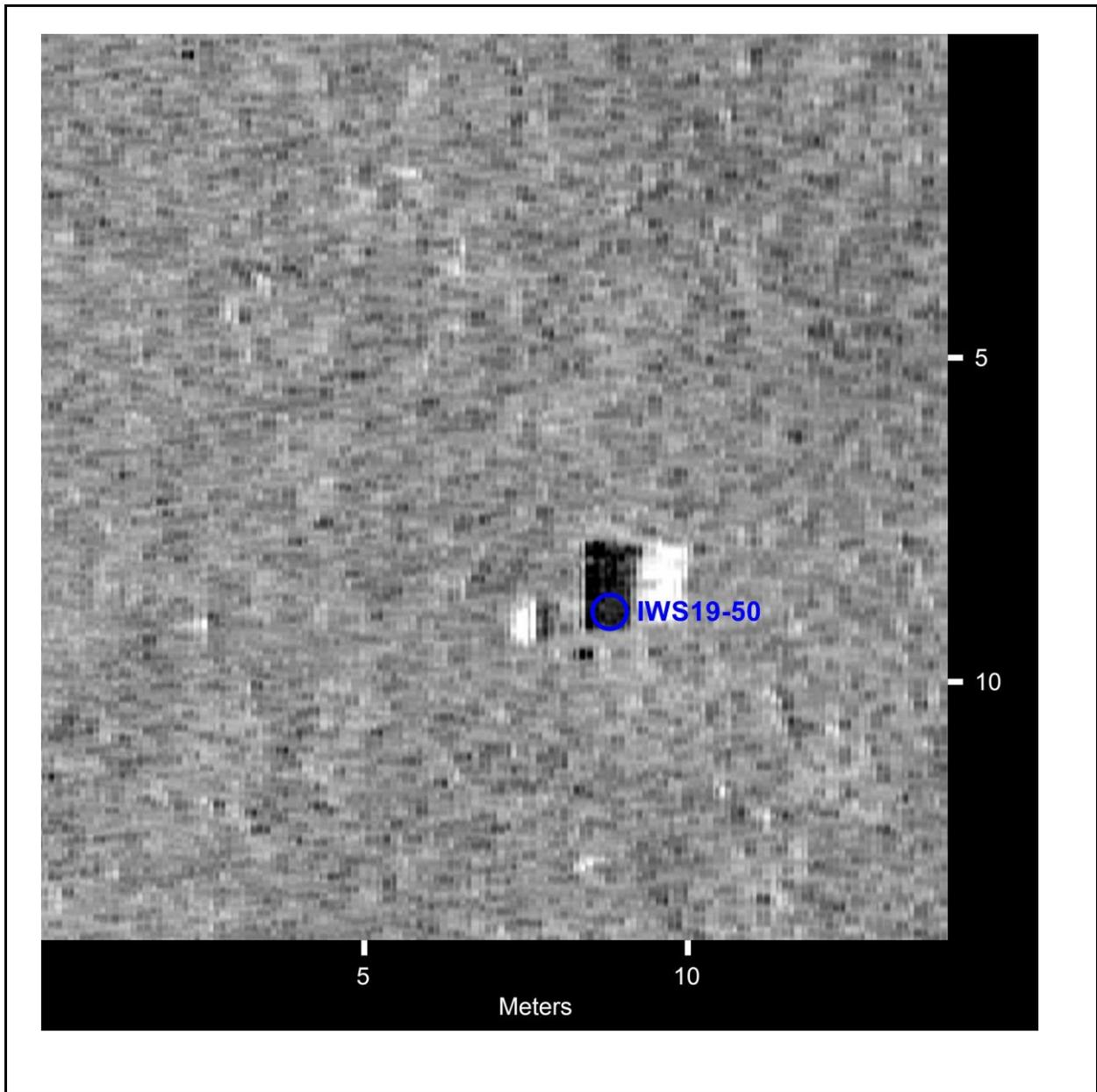
**Dimensions and attributes**

- Target Width: 0.79 Meters
- Target Height: 0.04 Meters
- Target Length: 1.29 Meters
- Target Shadow: 0.88 Meters
- Classification1: Trap
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-49</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:43:18 PM</li><li>• Position 42.4381223253 -70.5784822153 (WGS84) (X) 275818.98 (Y) 910142.80 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 11779</li><li>• Range to target: 57.40 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.74 Meters</li><li>• Target Height: 0.03 Meters</li><li>• Target Length: 1.42 Meters</li><li>• Target Shadow: 0.98 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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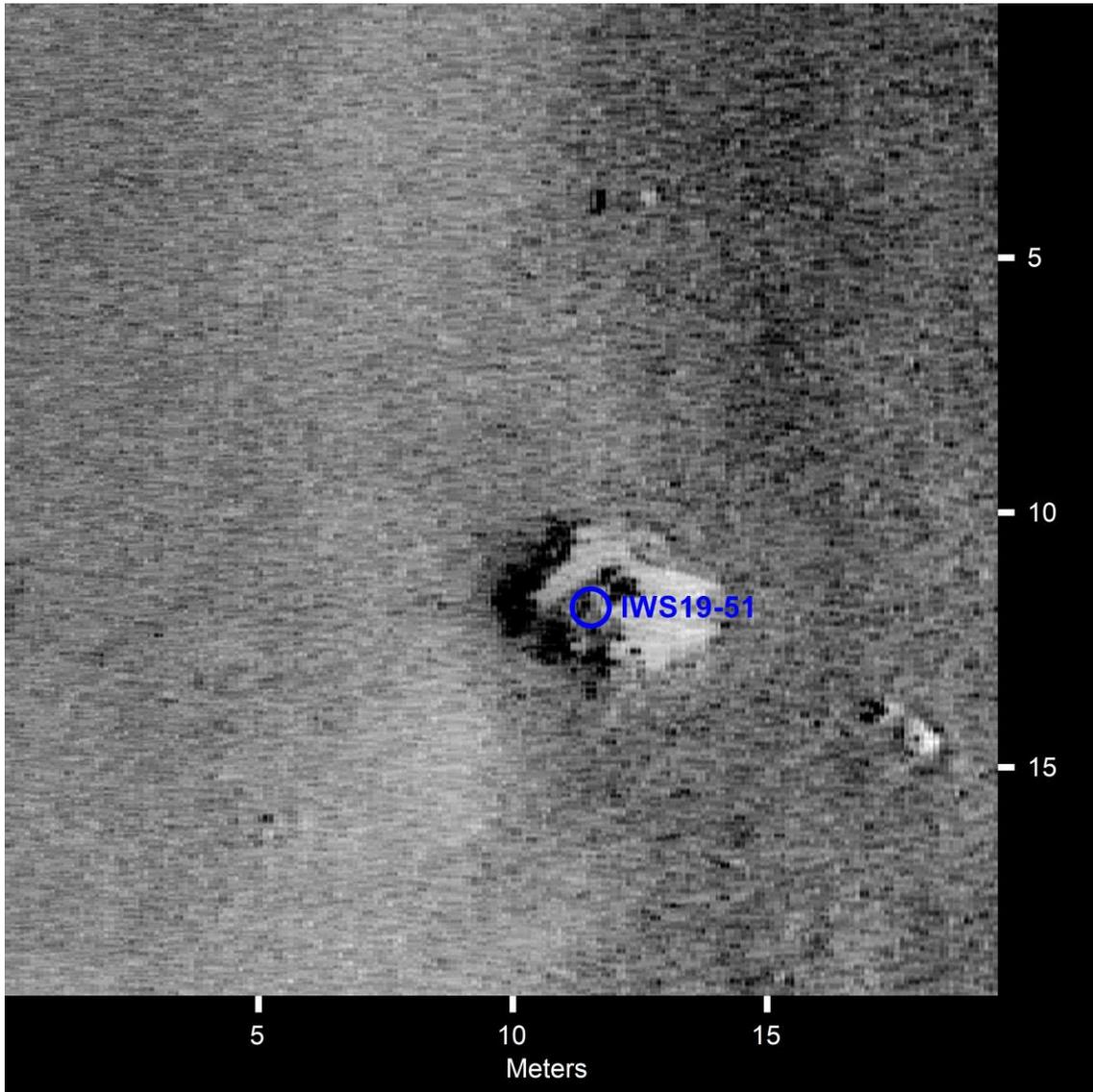


**IWS19-50**

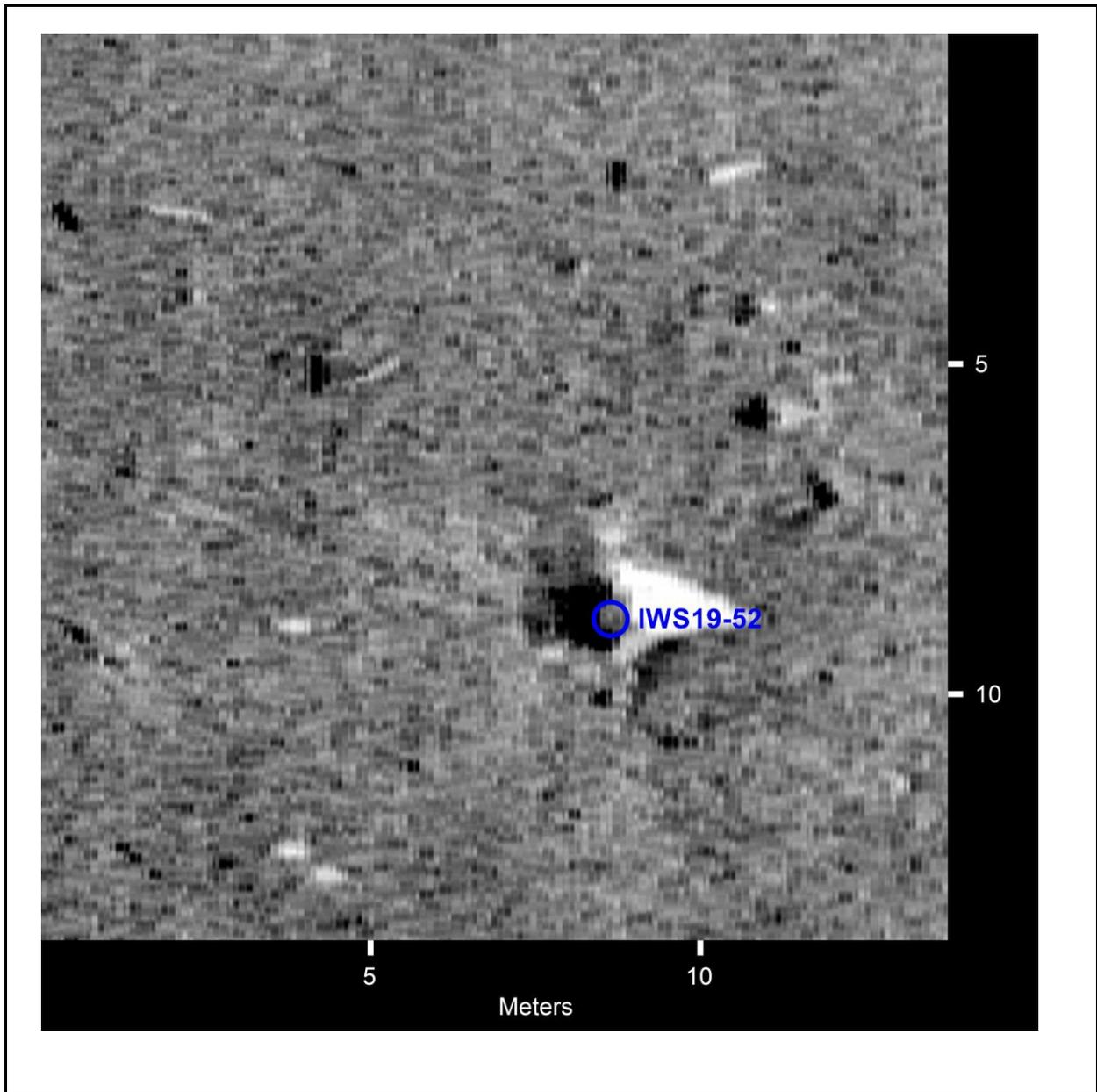
- Sonar Time at Target: 7/1/2019 4:47:44 PM
- Position  
42.4366595505 -70.5829285001 (WGS84)  
(X) 275454.92 (Y) 909976.38 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 24978
- Range to target: 37.31 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.71 Meters
- Target Height: 0.04 Meters
- Target Length: 1.28 Meters
- Target Shadow: 0.85 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-51</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 4:54:34 PM</li><li>• Position 42.4345334758 -70.5898597286 (WGS84) (X) 274887.17 (Y) 909734.12 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 45412</li><li>• Range to target: 22.21 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 2.85 Meters</li><li>• Target Height: 0.18 Meters</li><li>• Target Length: 2.46 Meters</li><li>• Target Shadow: 2.30 Meters</li><li>• Classification1: debris</li><li>• Description: Debris. Low confidence.</li></ul>
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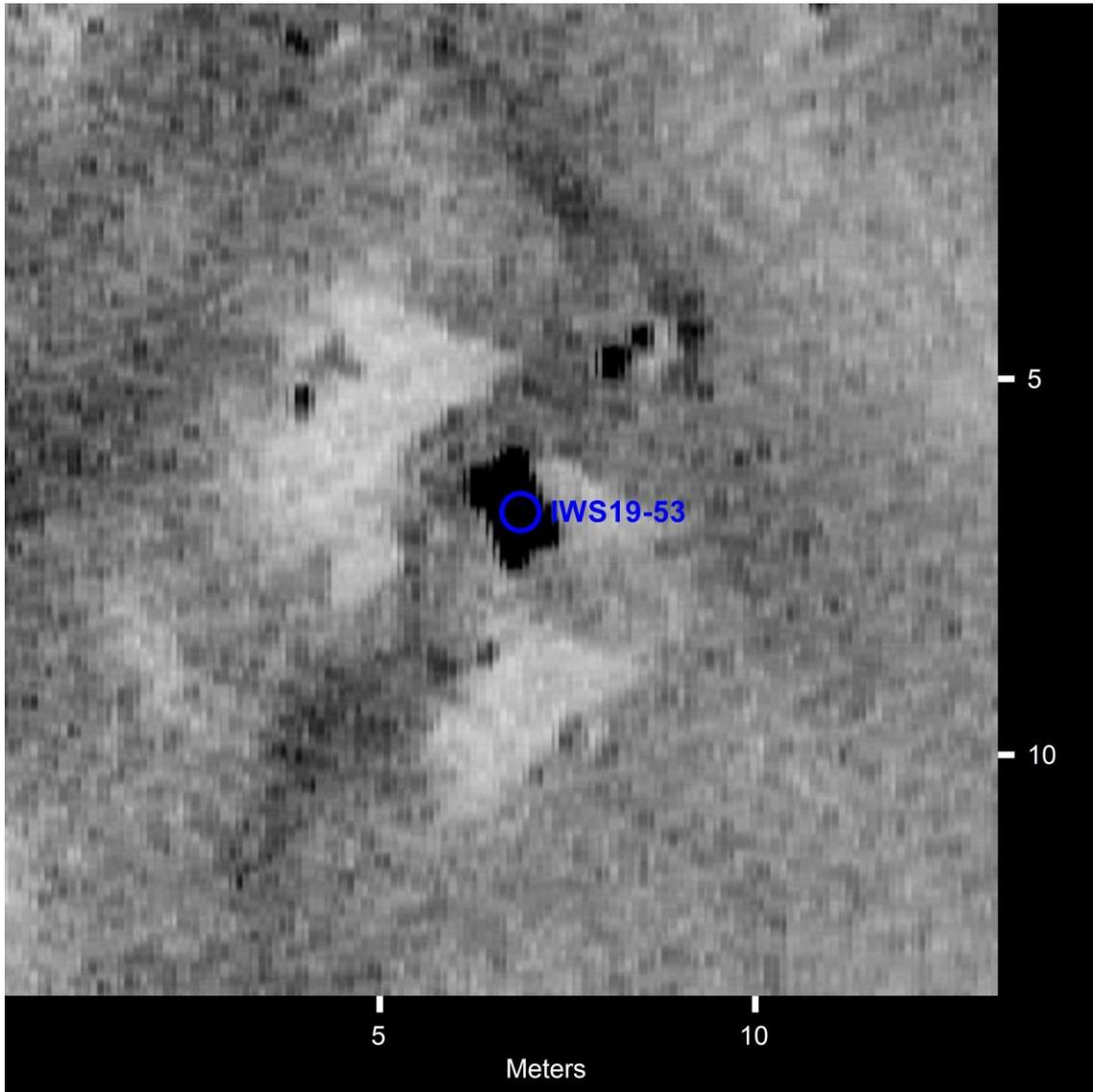


**IWS19-52**

- Sonar Time at Target: 7/1/2019 4:54:44 PM
- Position  
42.4346512304 -70.5901087858 (WGS84)  
(X) 274866.54 (Y) 909746.98 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 45894
- Range to target: 41.88 Meters
- Fish Height: 1.95 Meters

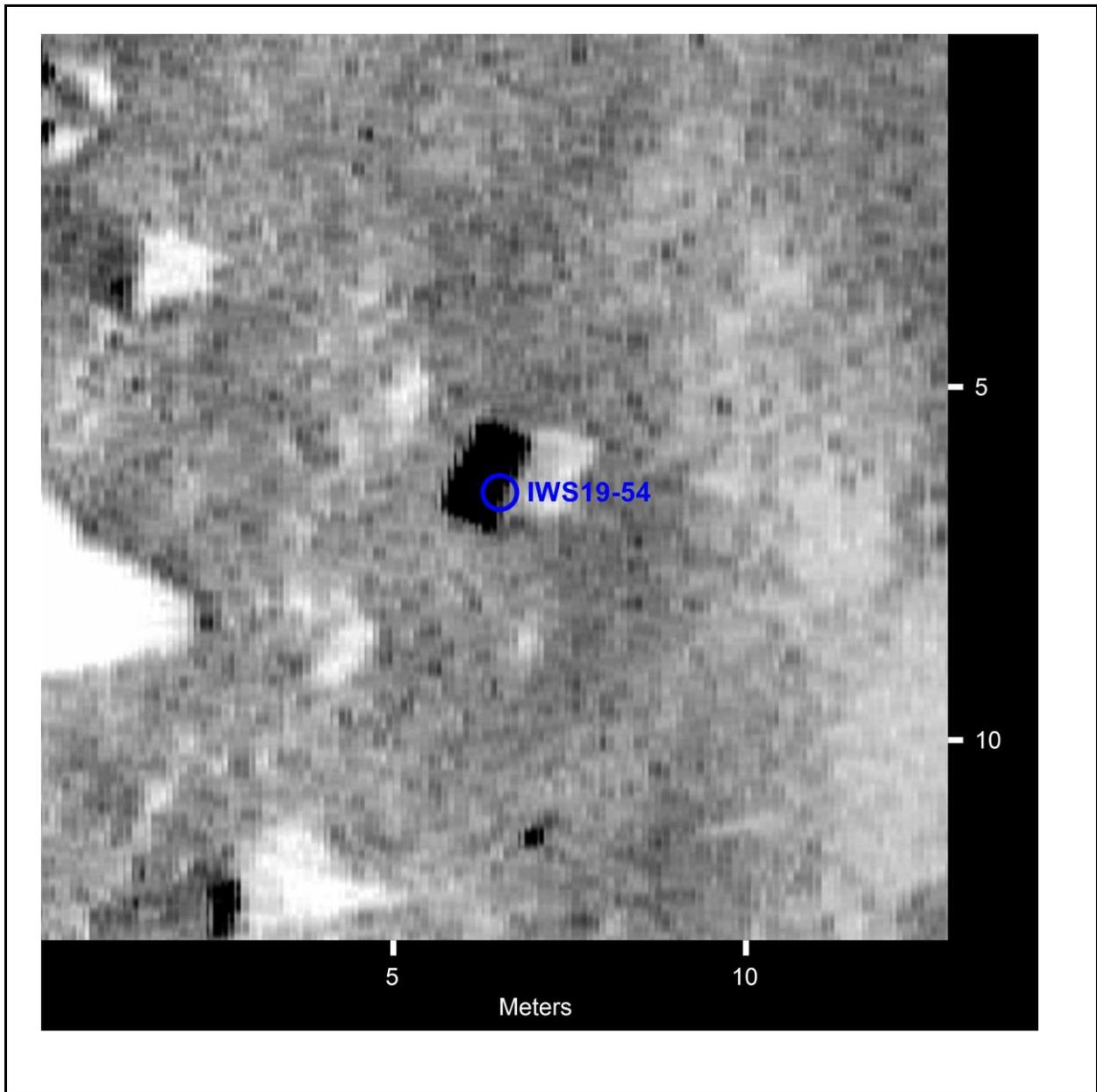
**Dimensions and attributes**

- Target Width: 1.17 Meters
- Target Height: 0.09 Meters
- Target Length: 0.98 Meters
- Target Shadow: 2.09 Meters
- Classification1: Trap
- Description: Low confidence



*Appendix C – IWS Contact Report*

<p><b>IWS19-53</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:01:54 PM</li><li>• Position 42.4328766077 -70.5972539673 (WGS84) (X) 274280.74 (Y) 909543.63 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 66417</li><li>• Range to target: 69.62 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.86 Meters</li><li>• Target Height: 0.03 Meters</li><li>• Target Length: 1.46 Meters</li><li>• Target Shadow: 0.96 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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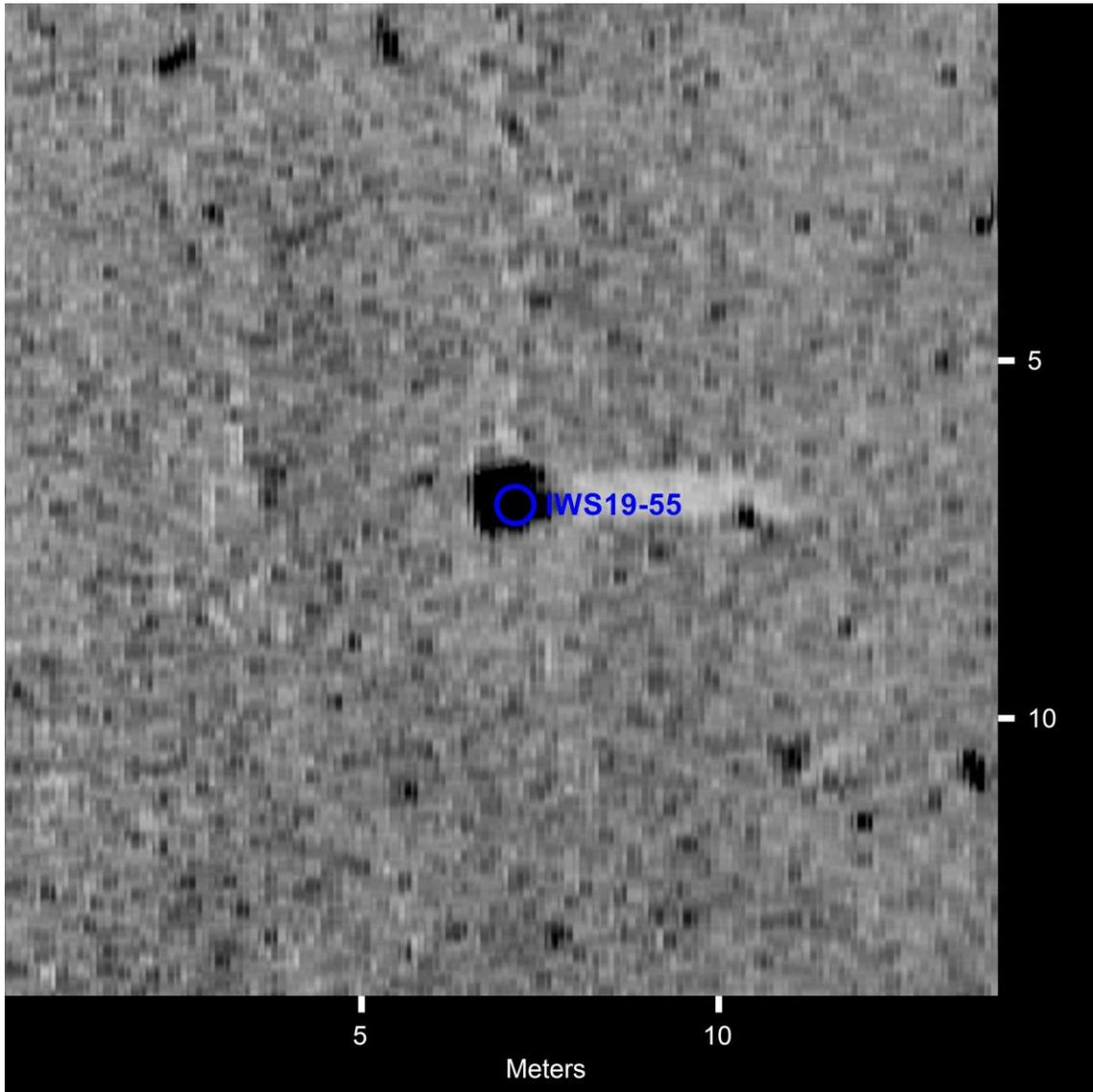
Appendix C – IWS Contact Report

**IWS19-54**

- Sonar Time at Target: 7/1/2019 5:02:10 PM
- Position  
42.4327404450 -70.5974795601 (WGS84)  
(X) 274262.34 (Y) 909528.31 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 67169
- Range to target: 62.18 Meters
- Fish Height: 1.95 Meters

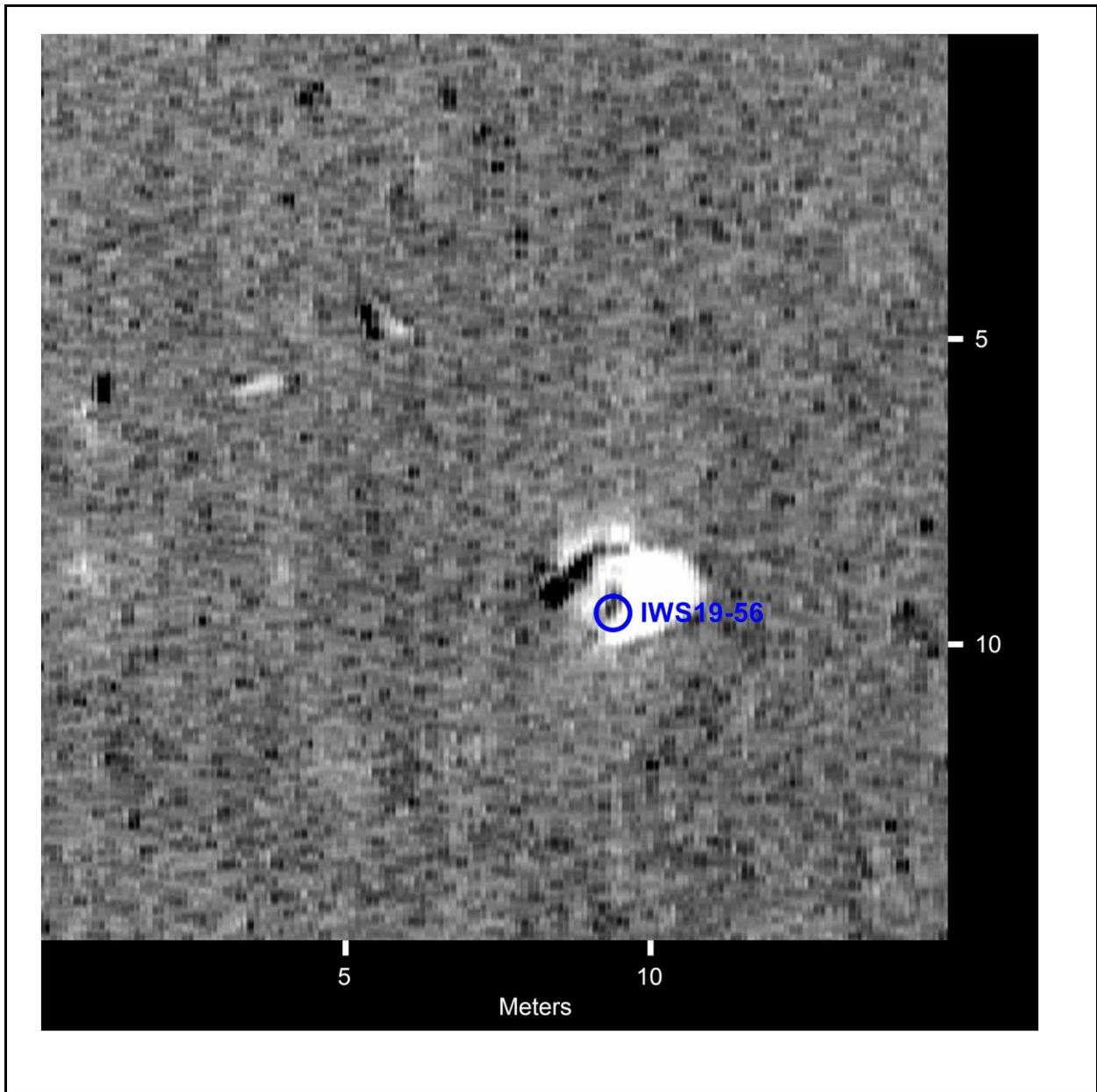
**Dimensions and attributes**

- Target Width: 0.75 Meters
- Target Height: 0.03 Meters
- Target Length: 1.58 Meters
- Target Shadow: 0.94 Meters
- Classification1: Trap
- Description:



*Appendix C – IWS Contact Report*

<p><b>IWS19-55</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:06:18 PM</li><li>• Position 42.4316455803 -70.6014833716 (WGS84) (X) 273934.18 (Y) 909403.22 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_163943_11025.20190701_224041.xtf</li><li>• Ping Number: 78816</li><li>• Range to target: 67.39 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.90 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 1.13 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Trap</li><li>• Description: Low confidence</li></ul>
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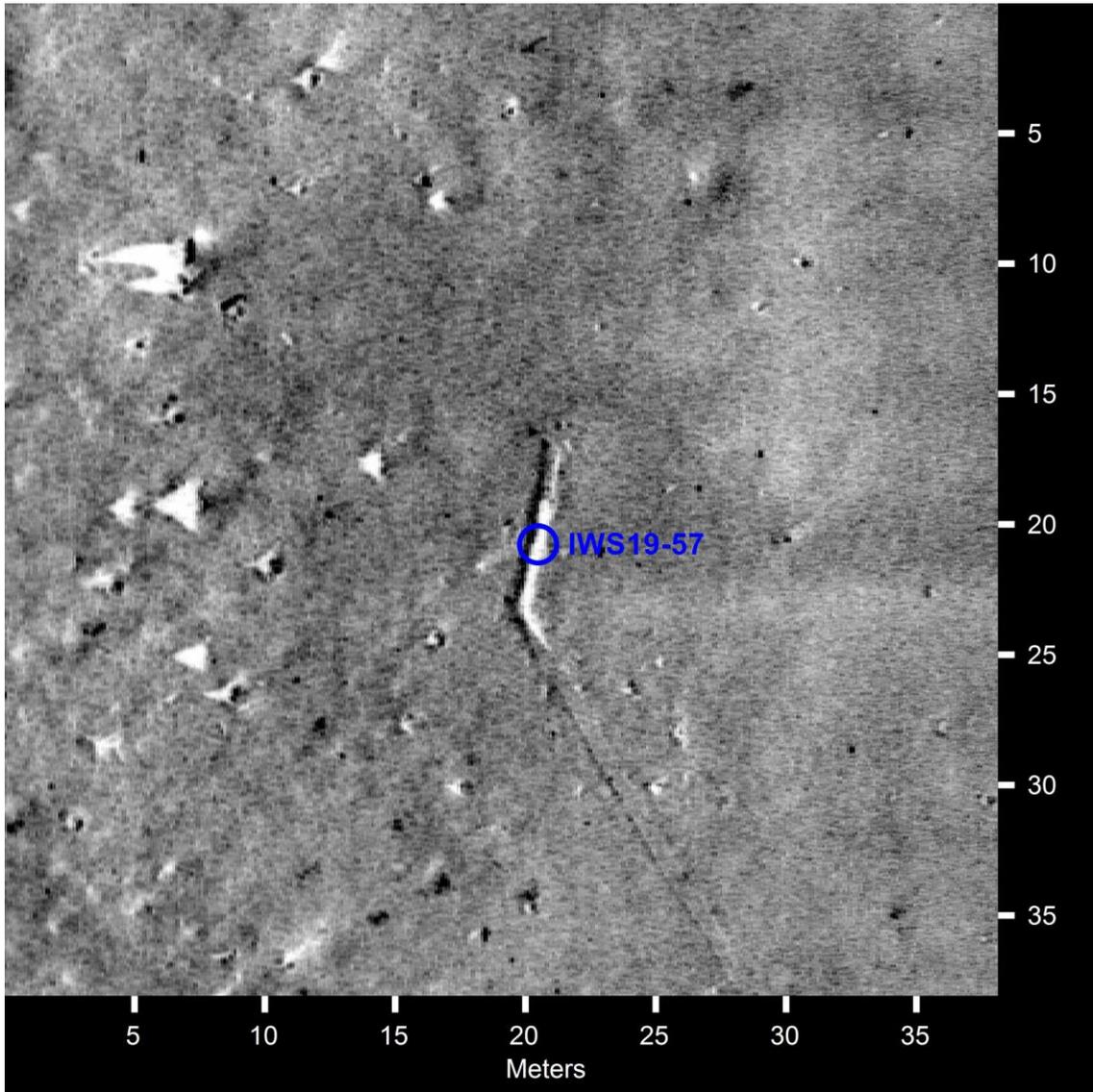


**IWS19-56**

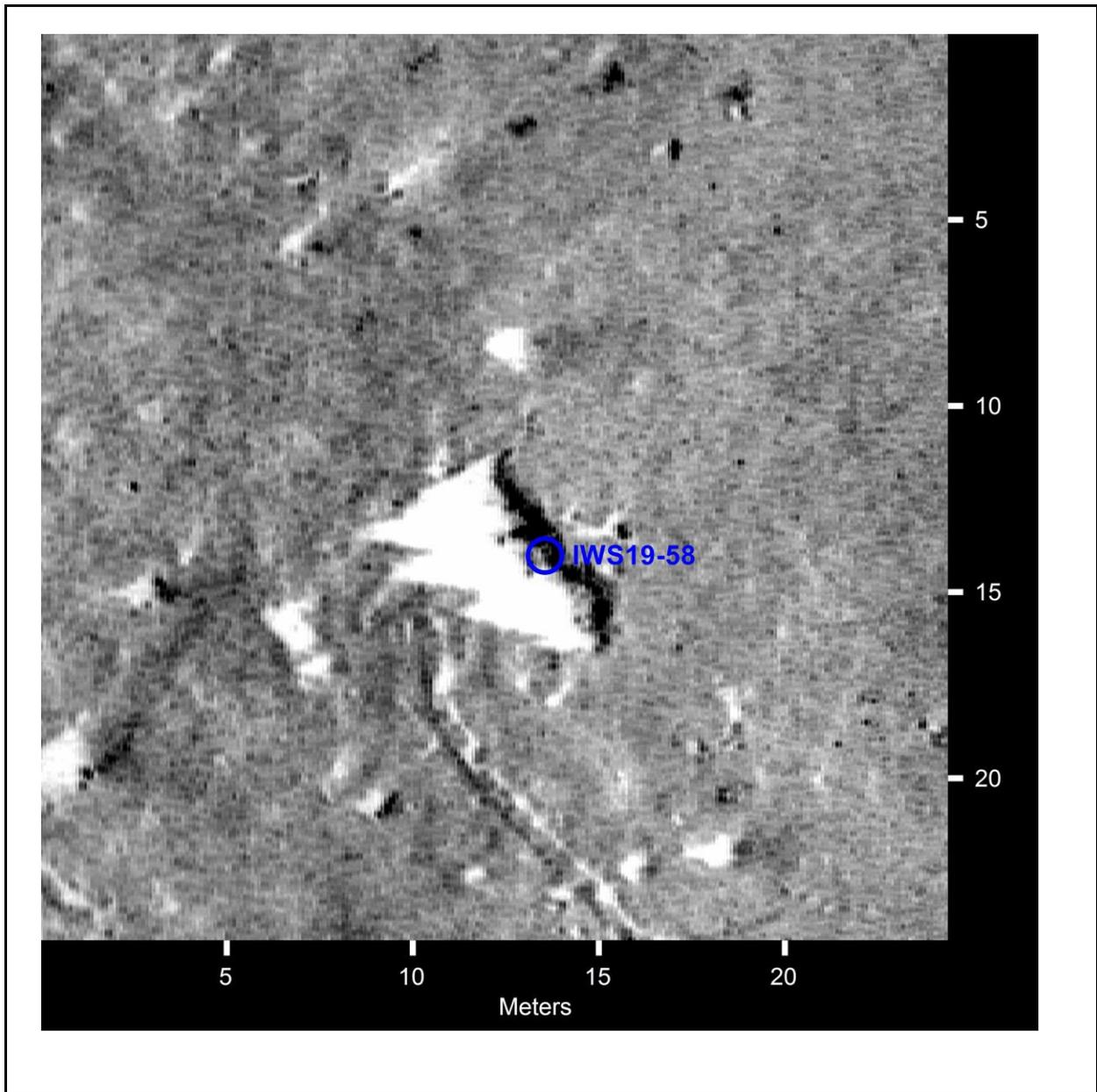
- Sonar Time at Target: 7/1/2019 5:06:29 PM
- Position  
42.4314378288 -70.6015905140 (WGS84)  
(X) 273925.61 (Y) 909380.05 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_163943\_11025.20190701\_224041.xtf
- Ping Number: 79359
- Range to target: 49.00 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.96 Meters
- Target Height: 0.05 Meters
- Target Length: 1.69 Meters
- Target Shadow: 1.39 Meters
- Classification1: Trap
- Description: Low confidence



<p><b>IWS19-57</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:13:21 PM</li><li>• Position 42.4338225096 -70.5986720745 (WGS84) (X) 274162.95 (Y) 909647.46 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_170909_10377.20190701_225901.xtf</li><li>• Ping Number: 14005</li><li>• Range to target: 39.75 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.59 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 7.98 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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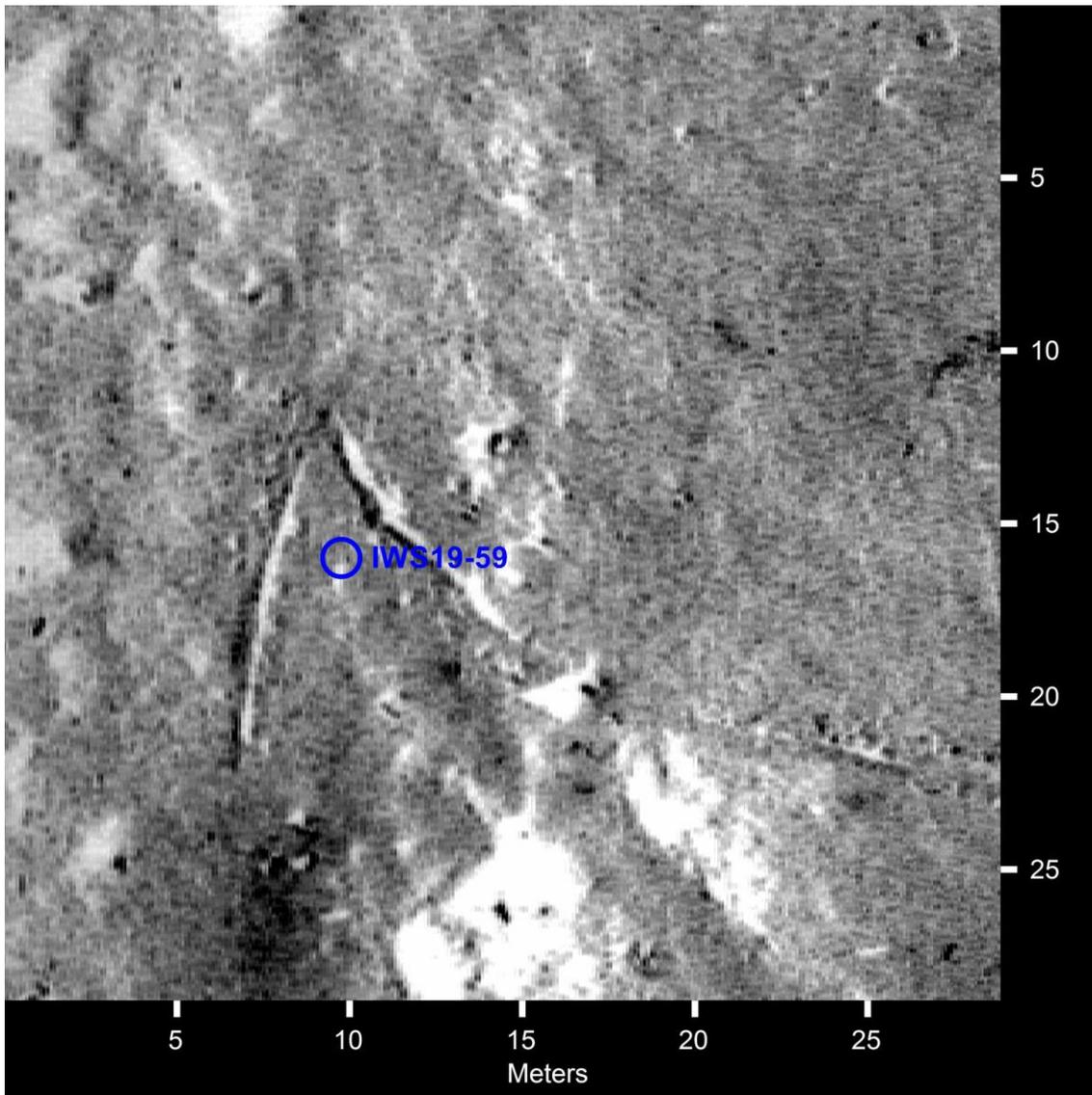


**IWS19-58**

- Sonar Time at Target: 7/1/2019 5:13:37 PM
- Position  
42.4339527001 -70.5984026328 (WGS84)  
(X) 274184.96 (Y) 909662.15 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_170909\_10377.20190701\_225901.xtf
- Ping Number: 14862
- Range to target: 45.28 Meters
- Fish Height: 1.95 Meters

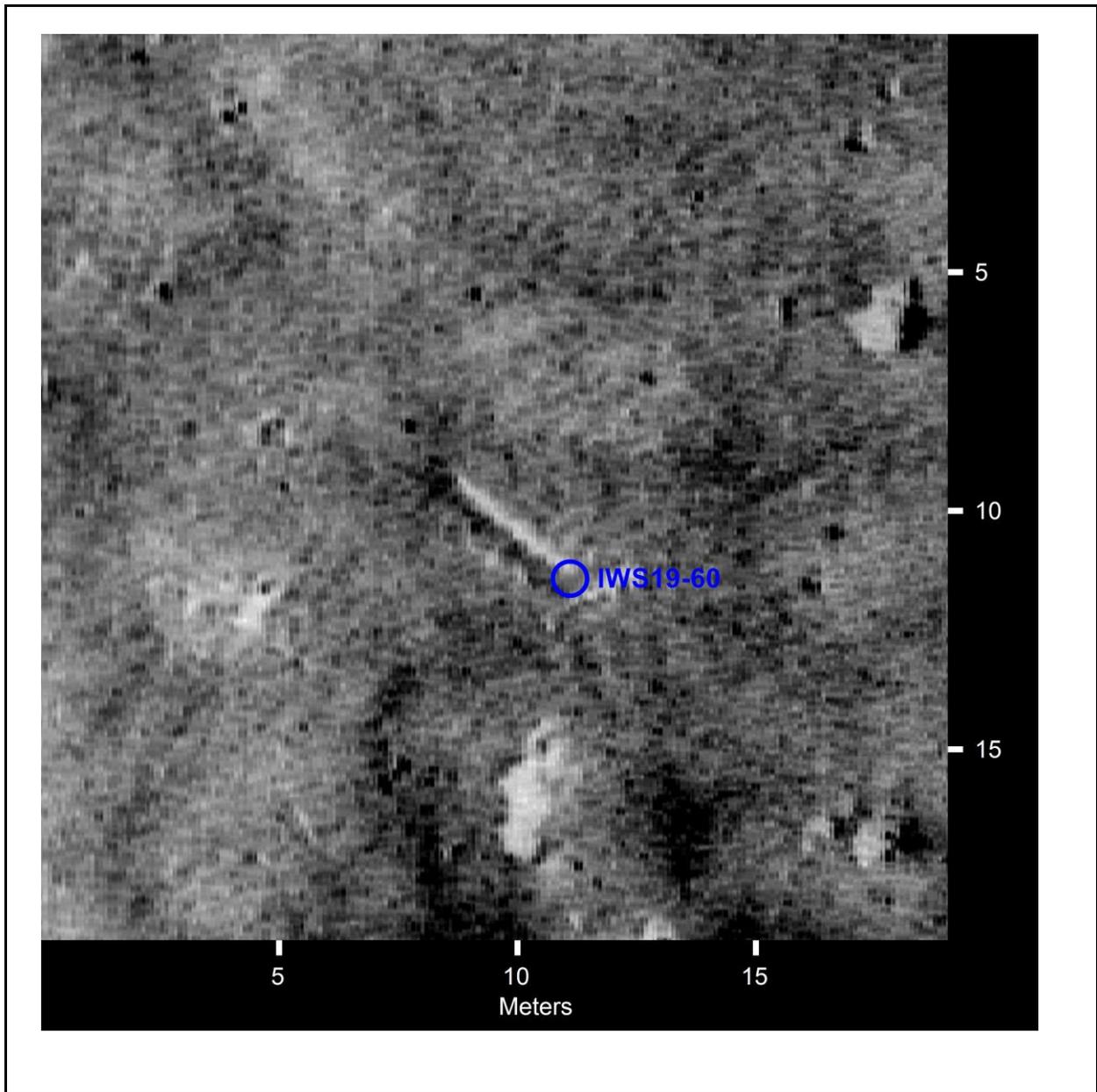
**Dimensions and attributes**

- Target Width: 1.87 Meters
- Target Height: 0.17 Meters
- Target Length: 5.86 Meters
- Target Shadow: 4.25 Meters
- Classification1: debris
- Description:



*Appendix C – IWS Contact Report*

<p><b>IWS19-59</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:13:58 PM</li><li>• Position 42.4341491231 -70.5980656063 (WGS84) (X) 274212.46 (Y) 909684.26 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_170909_10377.20190701_225901.xtf</li><li>• Ping Number: 15976</li><li>• Range to target: 55.80 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 19.89 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 9.79 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: debris</li><li>• Description: Debris or scour</li></ul>
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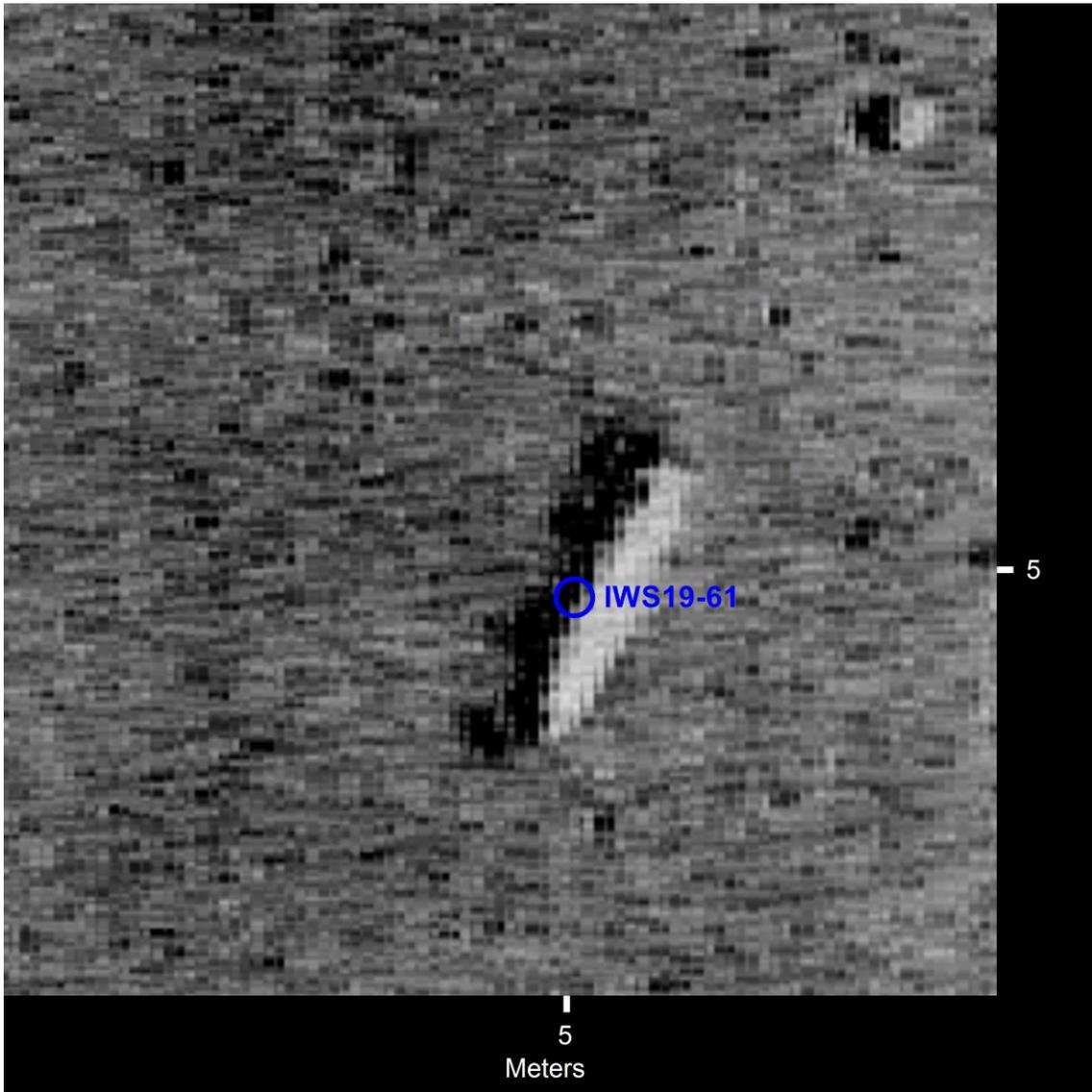


**IWS19-60**

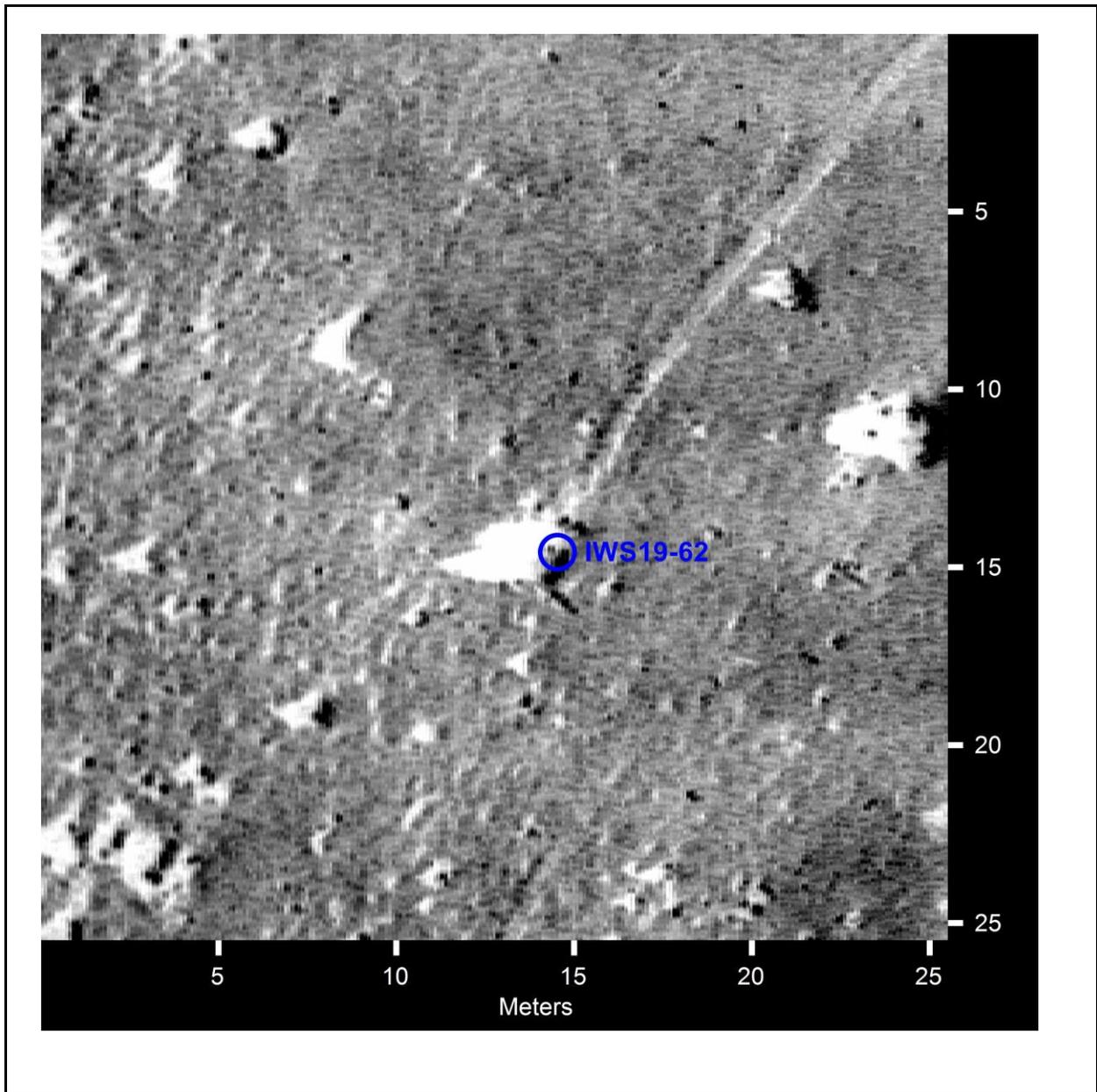
- Sonar Time at Target: 7/1/2019 5:28:39 PM
- Position  
42.4385537886 -70.5823018612 (WGS84)  
(X) 275504.21 (Y) 910187.33 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_170909\_10377.20190701\_225901.xtf
- Ping Number: 62011
- Range to target: 45.17 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.52 Meters
- Target Height: 0.00 Meters
- Target Length: 3.07 Meters
- Target Shadow: 0.00 Meters
- Classification1: debris
- Description:



<p><b>IWS19-61</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:28:41 PM</li><li>• Position 42.4380474757 -70.5819989495 (WGS84) (X) 275529.74 (Y) 910131.36 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_170909_10377.20190701_225901.xtf</li><li>• Ping Number: 62113</li><li>• Range to target: 16.26 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.51 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 2.92 Meters</li><li>• Target Shadow: 0.45 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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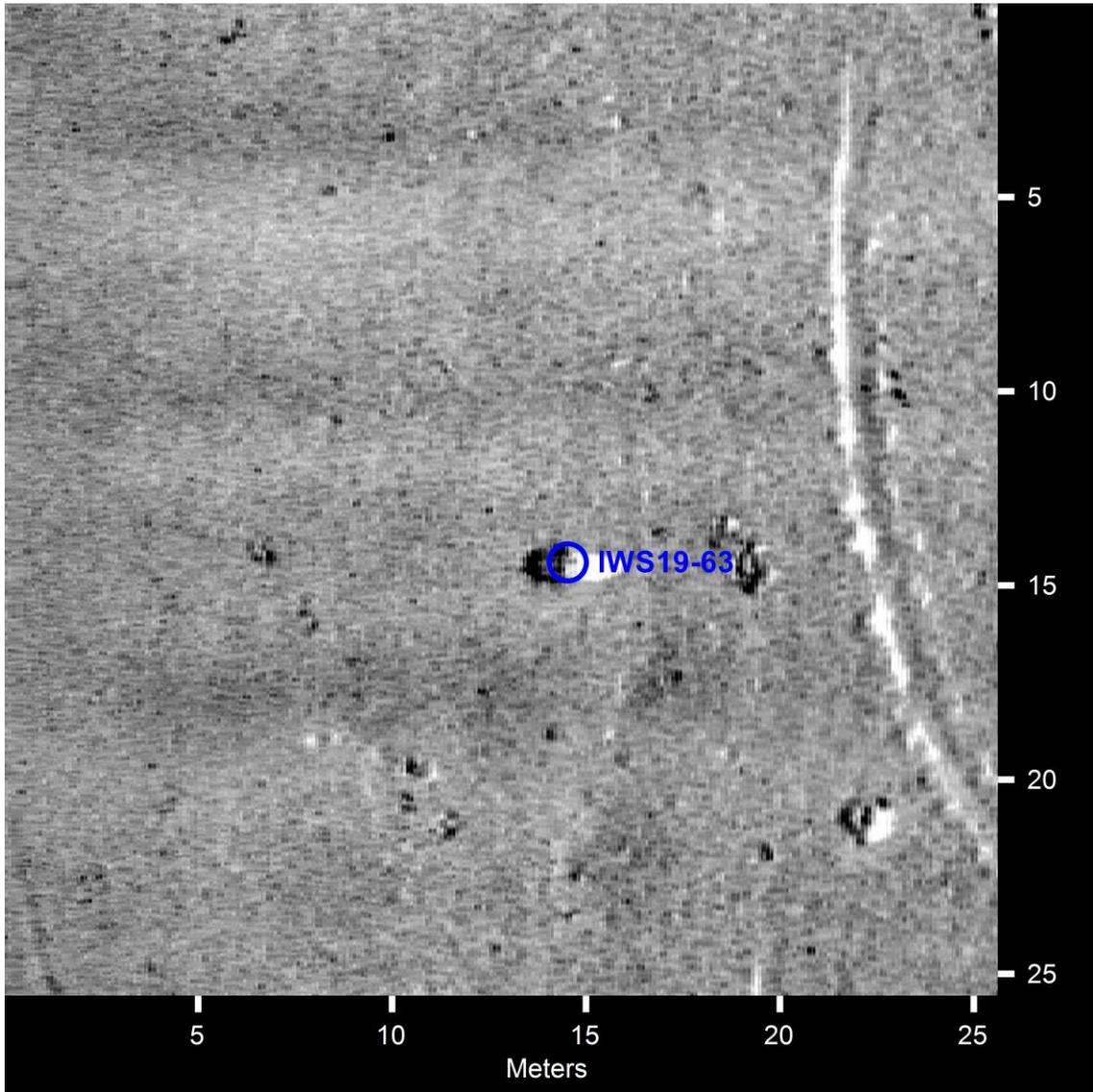
Appendix C – IWS Contact Report

**IWS19-62**

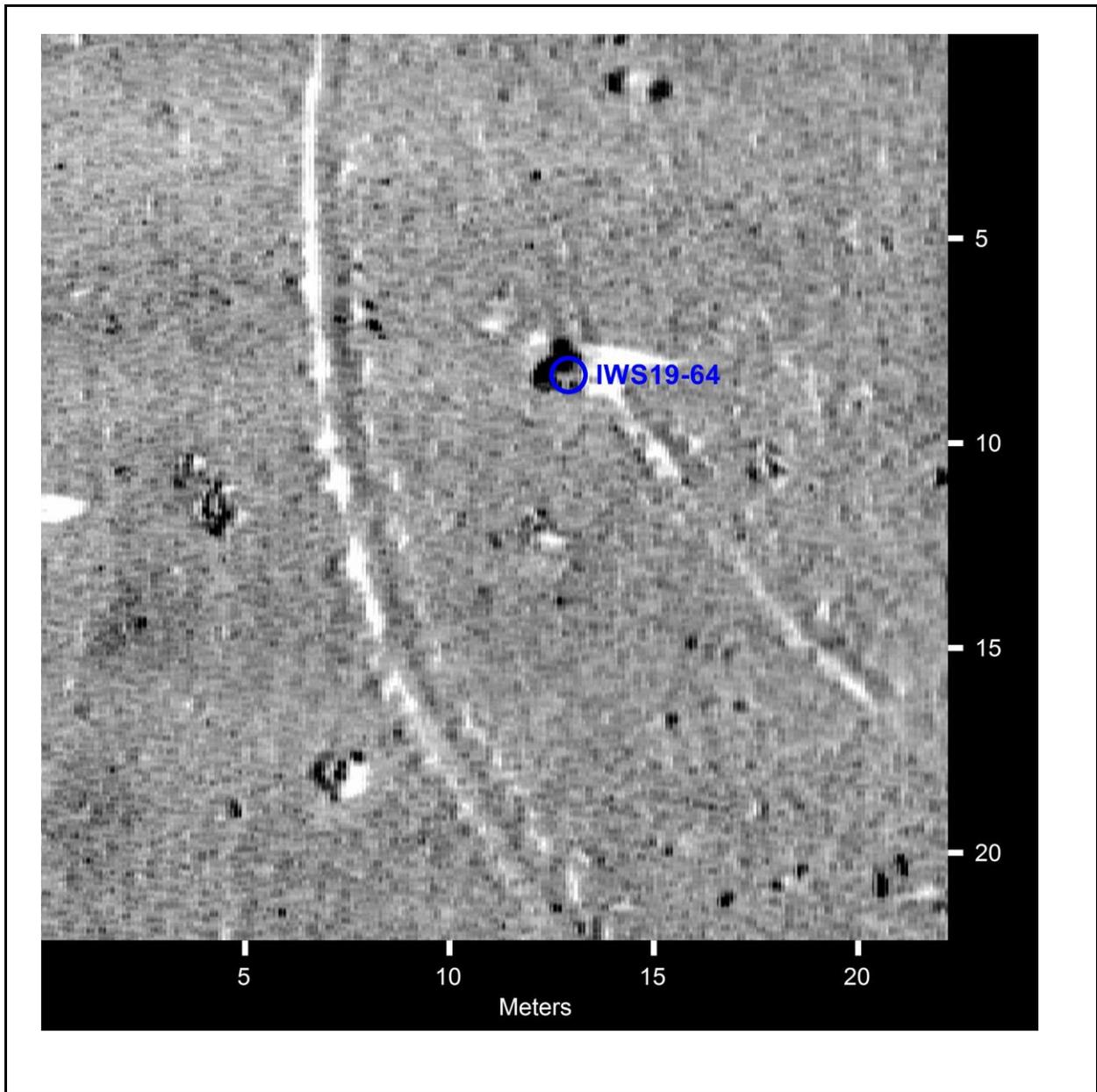
- Sonar Time at Target: 7/1/2019 5:30:26 PM
- Position  
42.4390229602 -70.5804386327 (WGS84)  
(X) 275656.94 (Y) 910241.10 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_170909\_10377.20190701\_225901.xtf
- Ping Number: 67343
- Range to target: 38.37 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.63 Meters
- Target Height: 0.00 Meters
- Target Length: 1.31 Meters
- Target Shadow: 0.00 Meters
- Classification1: Trap
- Description: Trap with drag scour



<p><b>IWS19-63</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:30:03 PM</li><li>• Position 42.4383051578 -70.5805144794 (WGS84) (X) 275651.56 (Y) 910161.30 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_170909_10377.20190701_225901.xtf</li><li>• Ping Number: 66190</li><li>• Range to target: 33.69 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.64 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 1.20 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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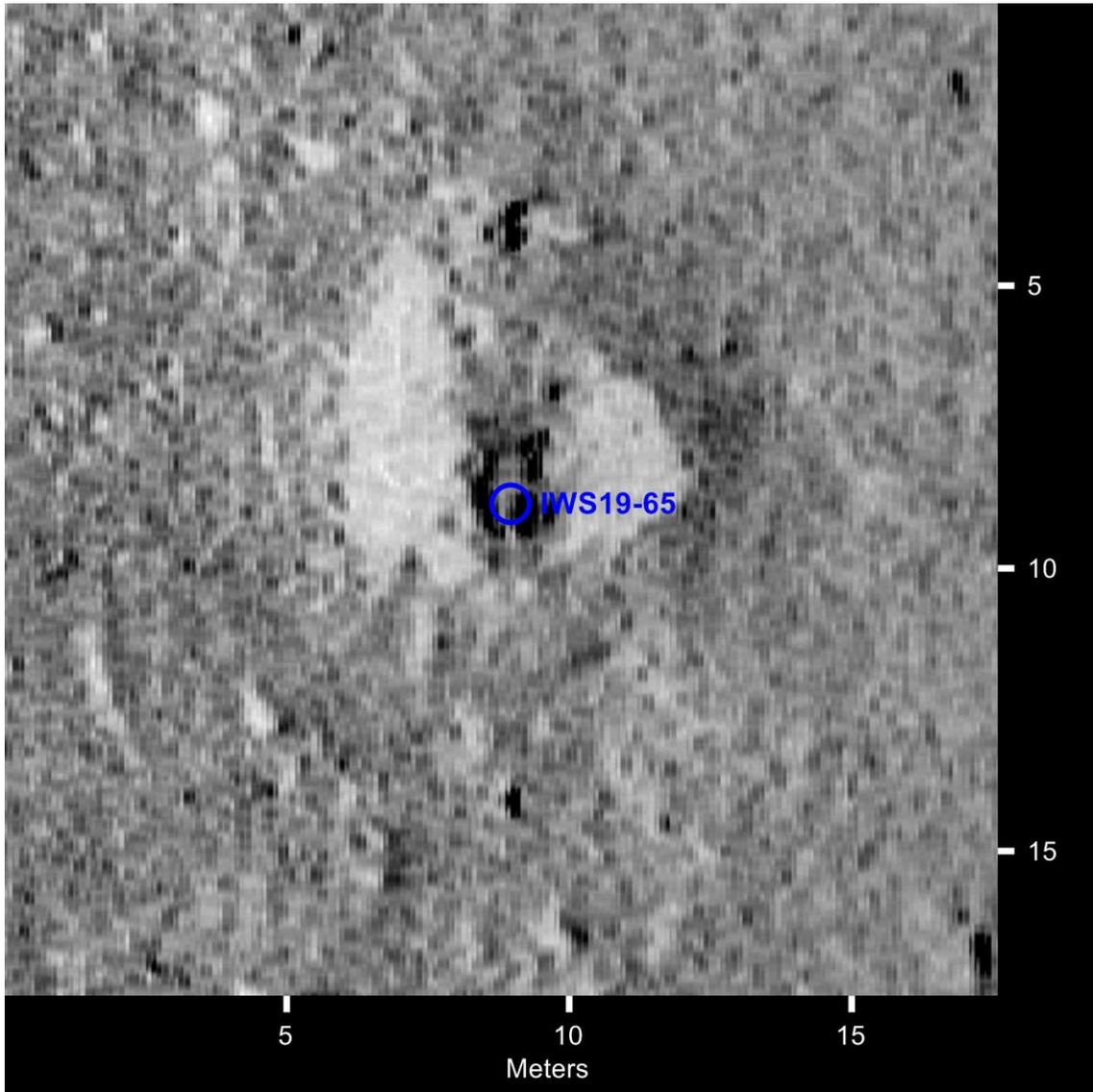


**IWS19-64**

- Sonar Time at Target: 7/1/2019 5:30:01 PM
- Position  
42.4381834847 -70.5804911313 (WGS84)  
(X) 275653.63 (Y) 910147.81 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_170909\_10377.20190701\_225901.xtf
- Ping Number: 66086
- Range to target: 46.98 Meters
- Fish Height: 1.95 Meters

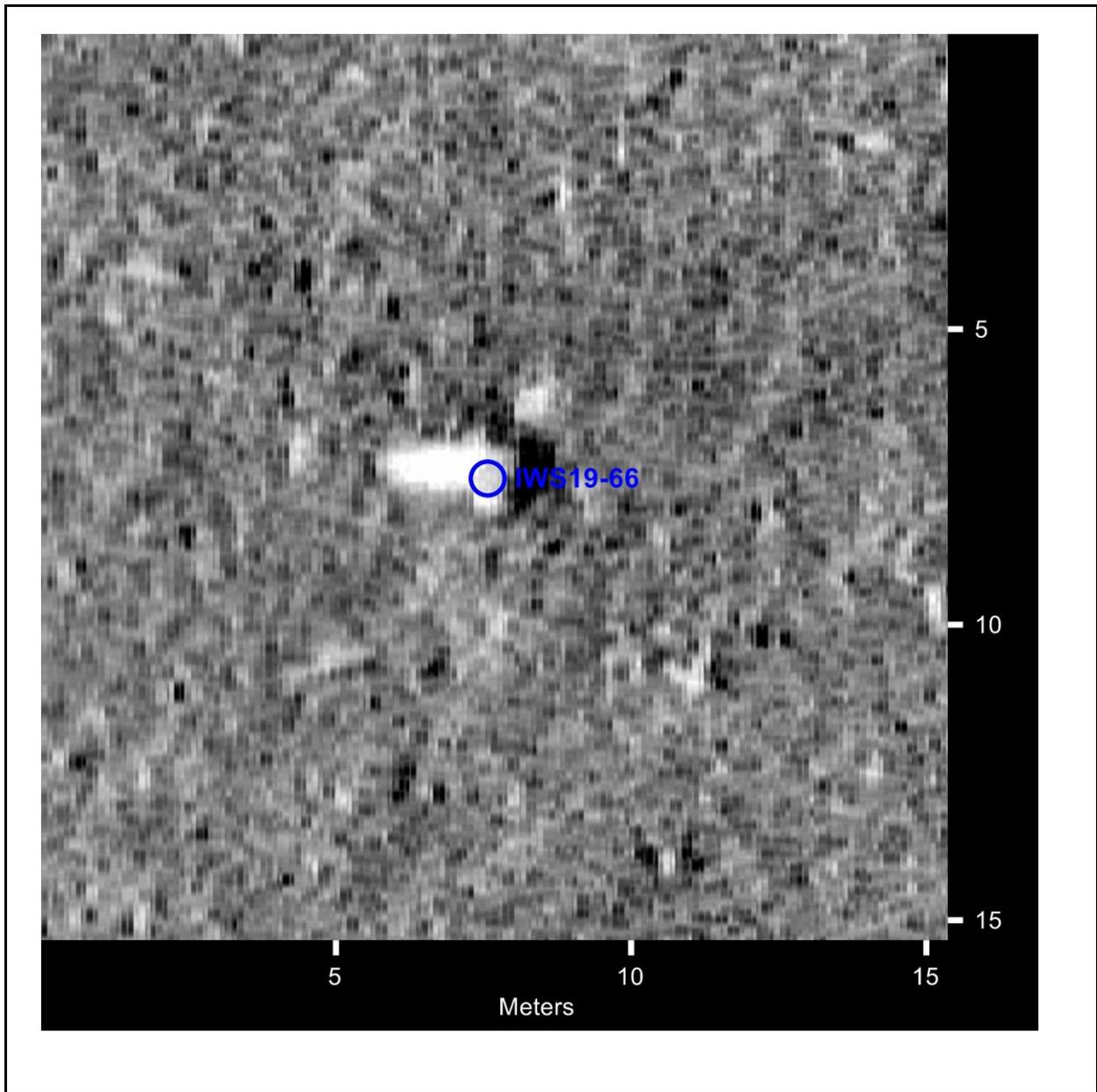
**Dimensions and attributes**

- Target Width: 0.81 Meters
- Target Height: 0.08 Meters
- Target Length: 1.30 Meters
- Target Shadow: 1.98 Meters
- Classification1: Trap
- Description:



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<p><b>IWS19-65</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:34:07 PM</li><li>• Position 42.4392025687 -70.5761437230 (WGS84) (X) 276010.08 (Y) 910264.86 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_170909_10377.20190701_225901.xtf</li><li>• Ping Number: 78562</li><li>• Range to target: 69.94 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.72 Meters</li><li>• Target Height: 0.06 Meters</li><li>• Target Length: 2.16 Meters</li><li>• Target Shadow: 2.35 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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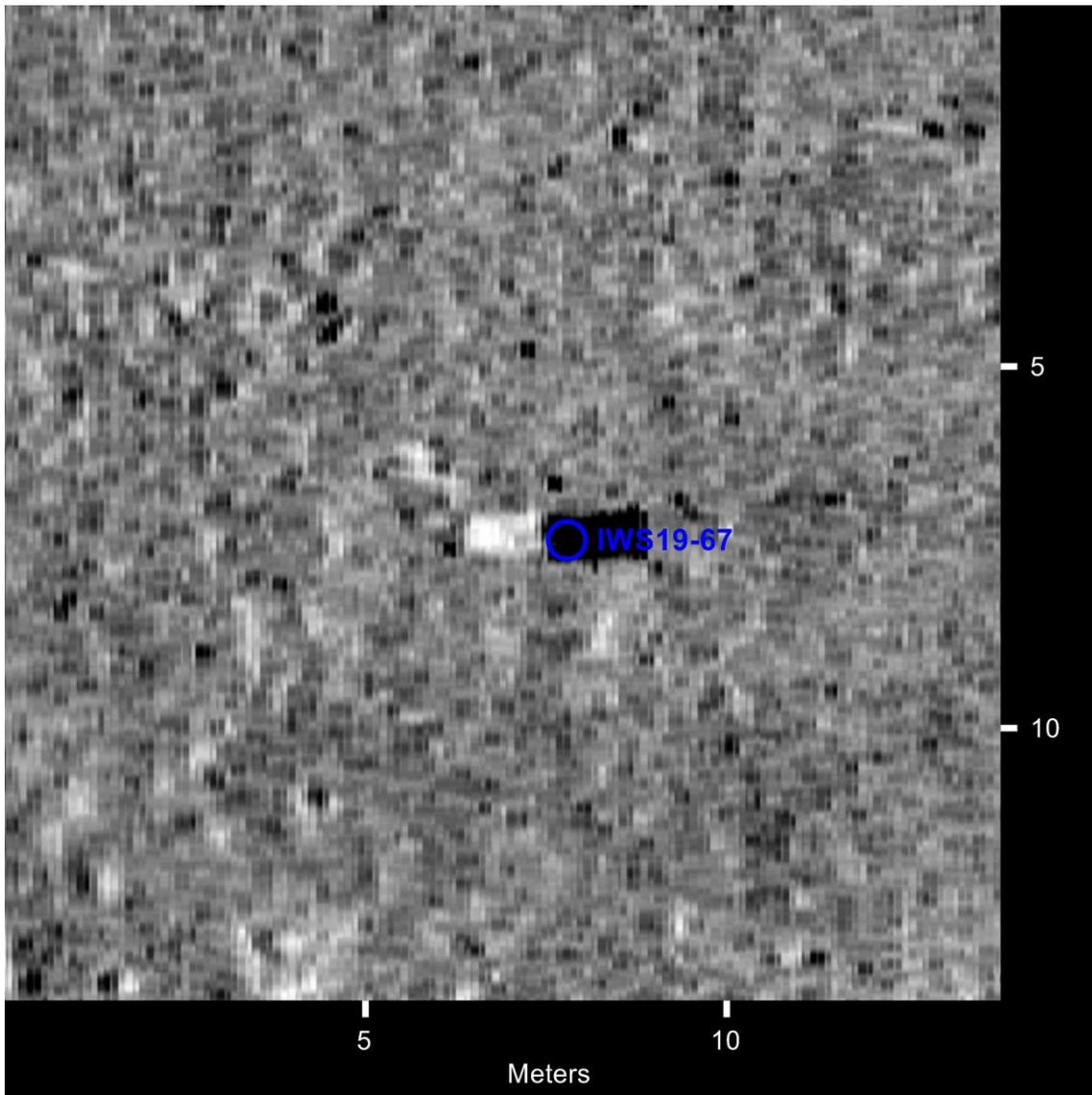


**IWS19-66**

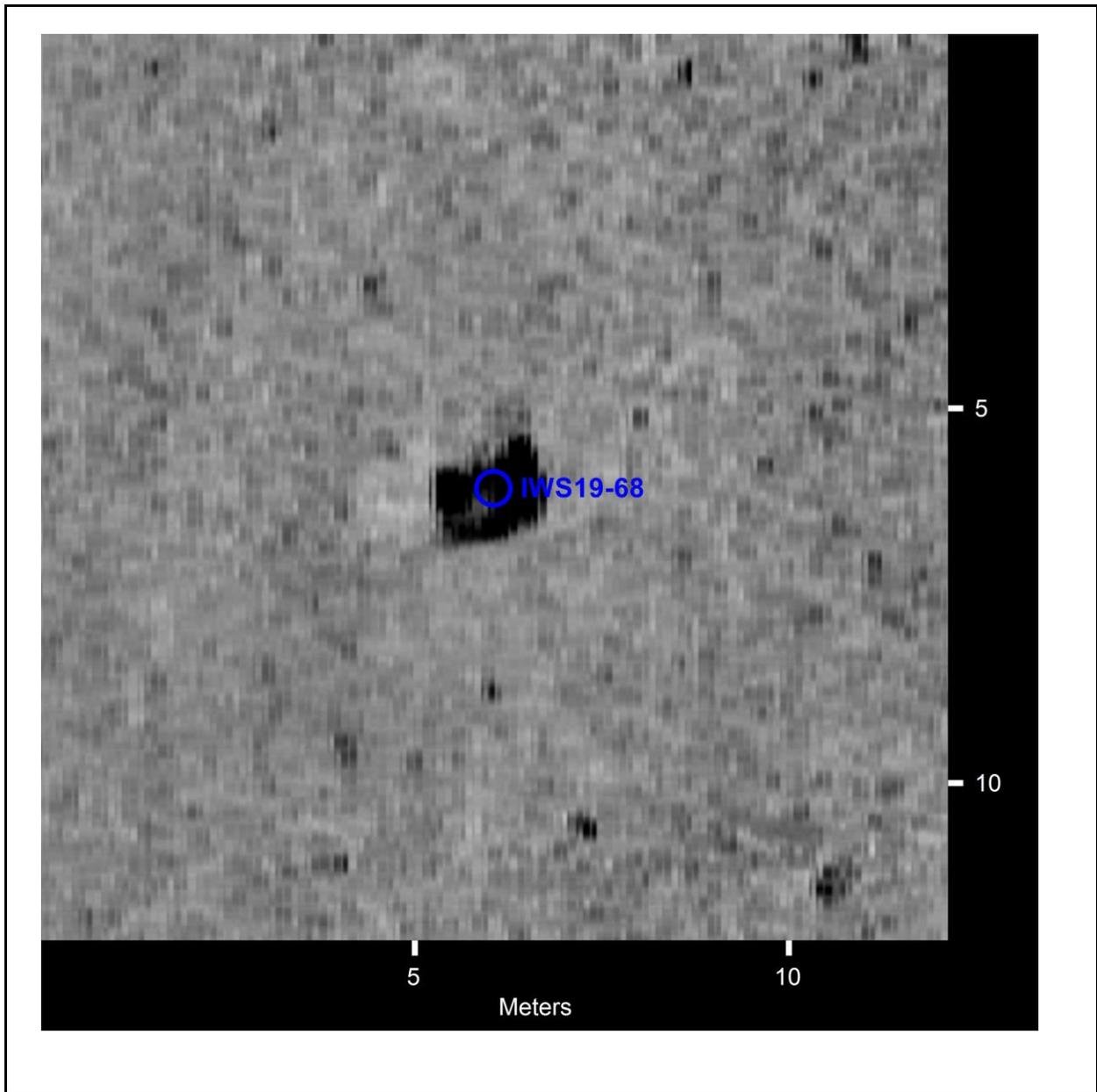
- Sonar Time at Target: 7/1/2019 5:37:21 PM
- Position  
42.4398320042 -70.5768189213 (WGS84)  
(X) 275953.77 (Y) 910334.18 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_173554\_7253.20190701\_231628.xtf
- Ping Number: 5117
- Range to target: 57.18 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.02 Meters
- Target Height: 0.07 Meters
- Target Length: 1.39 Meters
- Target Shadow: 2.18 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-67</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:37:31 PM</li><li>• Position 42.4398307966 -70.5770289729 (WGS84) (X) 275936.49 (Y) 910333.85 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_173554_7253.20190701_231628.xtf</li><li>• Ping Number: 5665</li><li>• Range to target: 51.02 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.70 Meters</li><li>• Target Height: 0.04 Meters</li><li>• Target Length: 1.21 Meters</li><li>• Target Shadow: 1.12 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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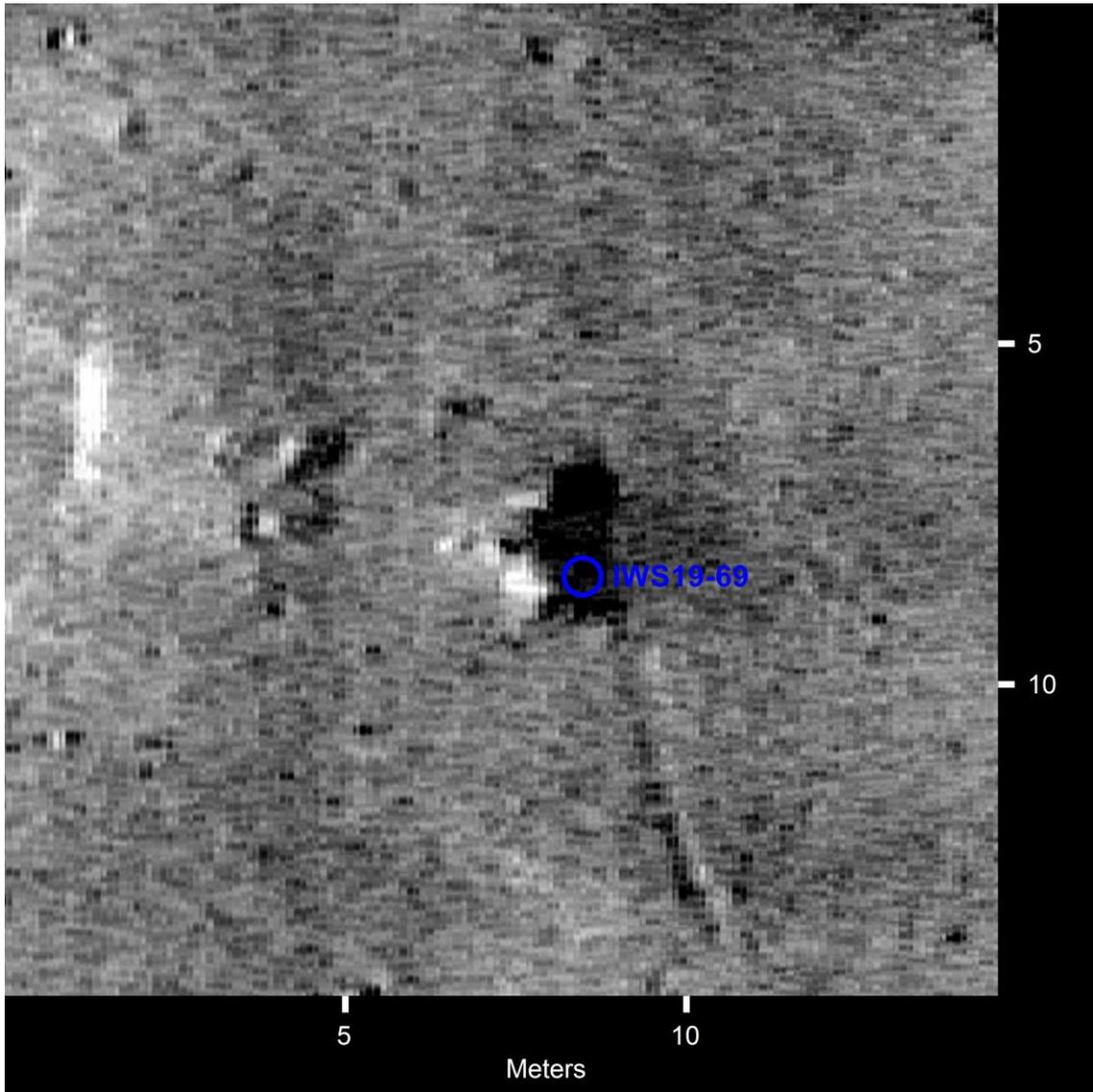
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**IWS19-68**

- Sonar Time at Target: 7/1/2019 5:40:29 PM
- Position  
42.4388059008 -70.5799442844 (WGS84)  
(X) 275697.87 (Y) 910217.42 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_173554\_7253.20190701\_231628.xtf
- Ping Number: 14534
- Range to target: 71.11 Meters
- Fish Height: 1.95 Meters

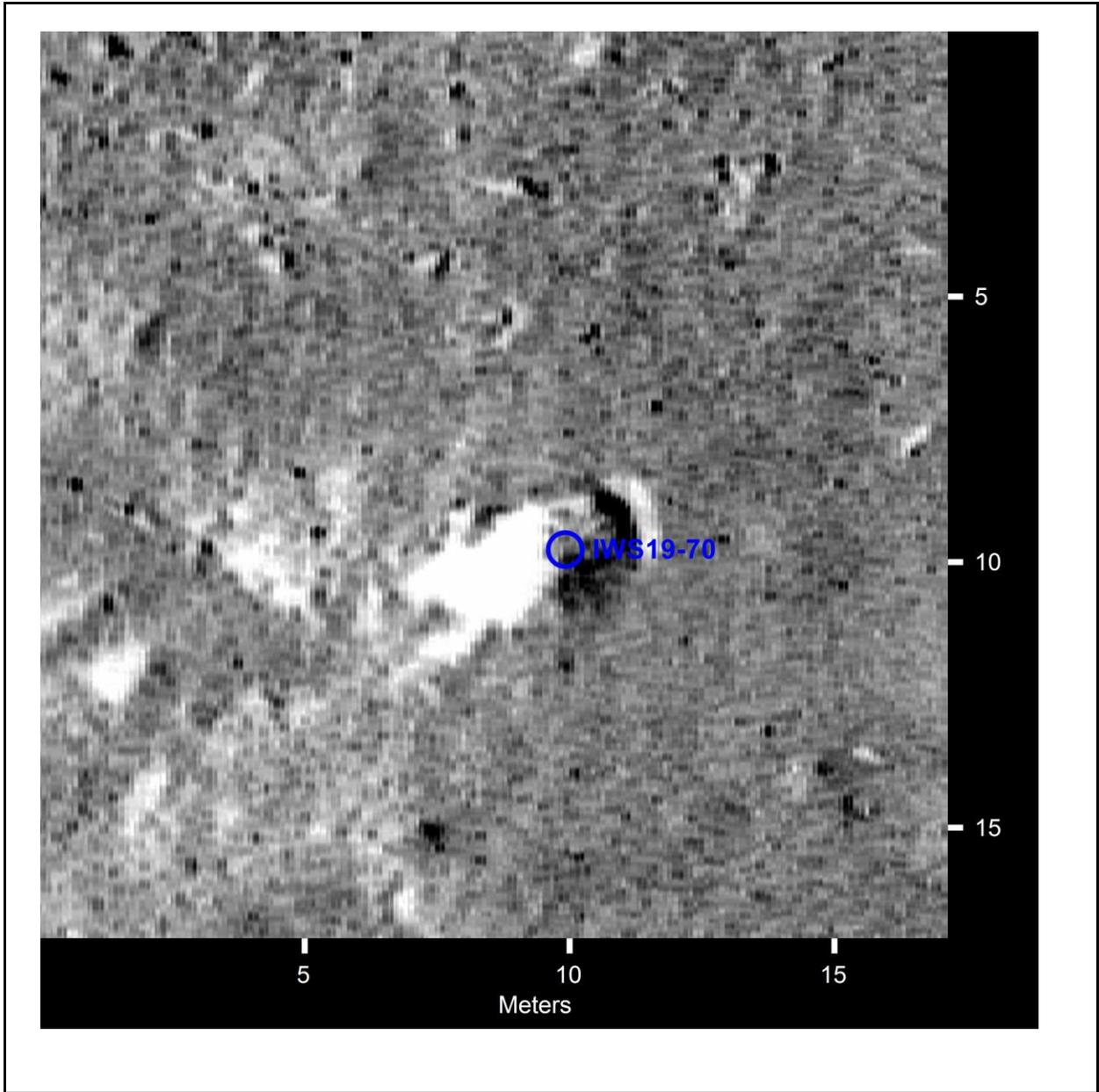
**Dimensions and attributes**

- Target Width: 1.00 Meters
- Target Height: 0.02 Meters
- Target Length: 1.33 Meters
- Target Shadow: 0.86 Meters
- Classification1: Trap
- Description:



Appendix C – IWS Contact Report

<p><b>IWS19-69</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:42:47 PM</li><li>• Position 42.4385126411 -70.5825039912 (WGS84) (X) 275487.63 (Y) 910182.58 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_173554_7253.20190701_231628.xtf</li><li>• Ping Number: 21420</li><li>• Range to target: 25.83 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.25 Meters</li><li>• Target Height: 0.06 Meters</li><li>• Target Length: 1.76 Meters</li><li>• Target Shadow: 0.77 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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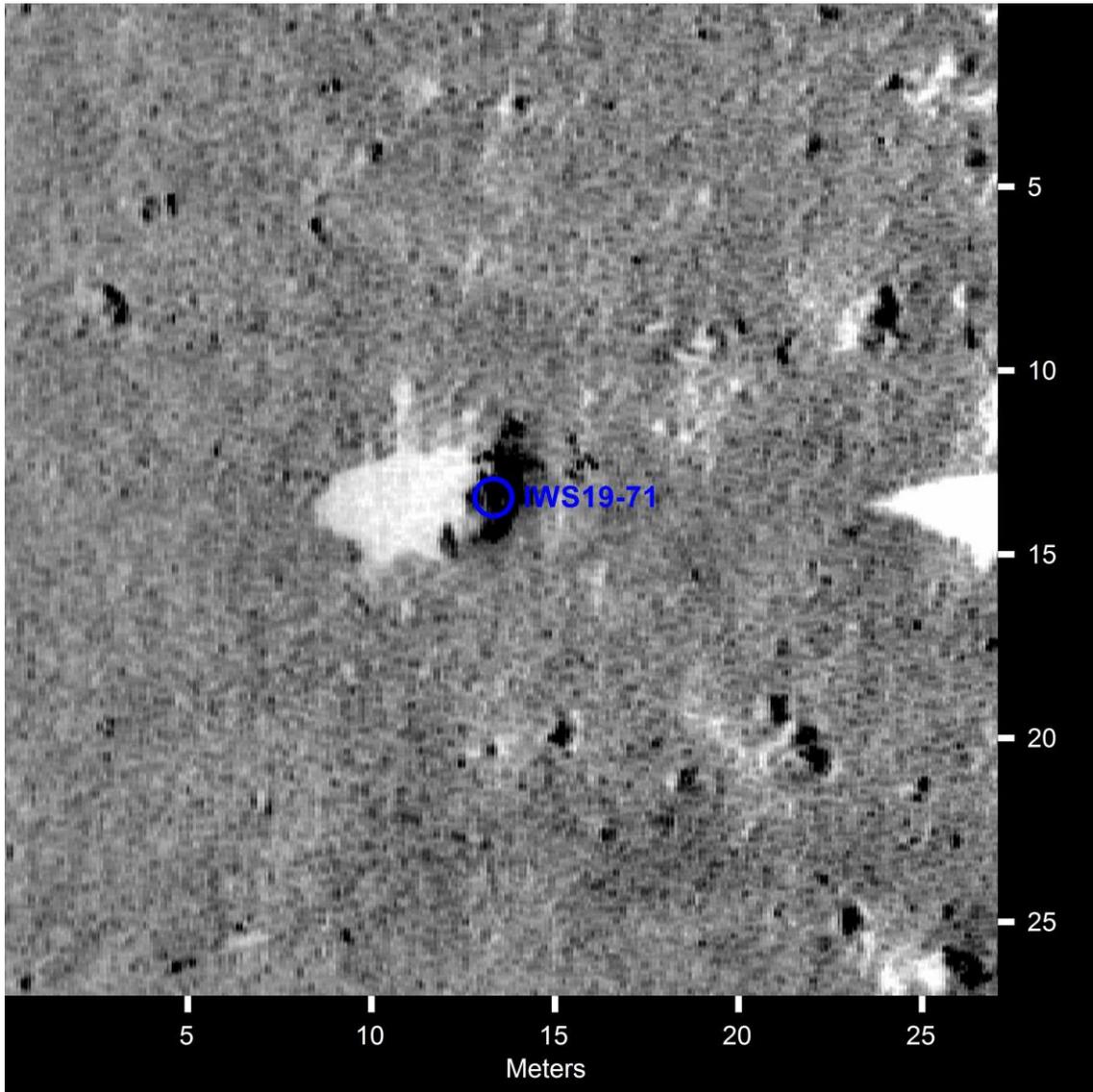


**IWS19-70**

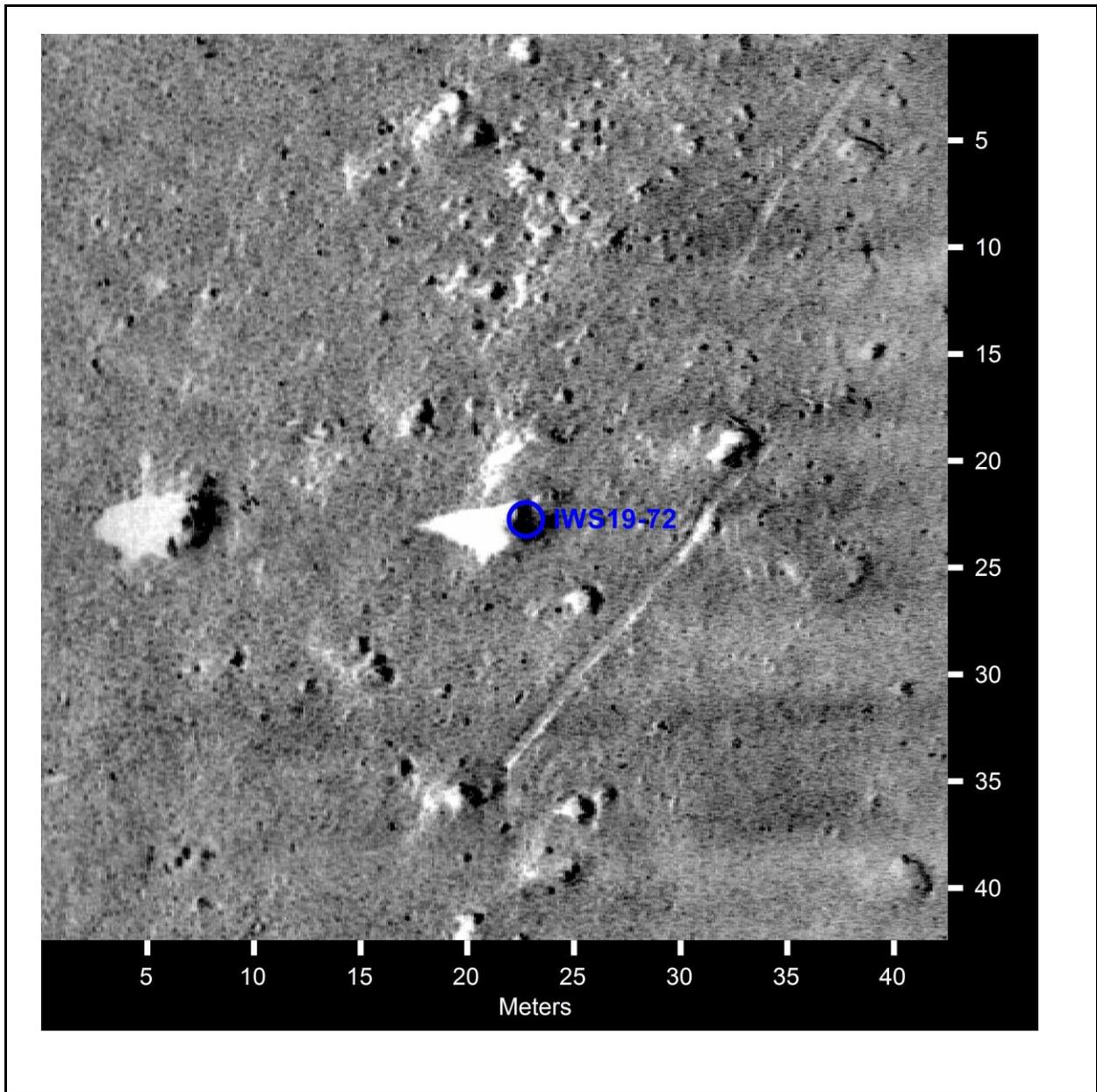
- Sonar Time at Target: 7/1/2019 5:51:50 PM
- Position  
42.4357256611 -70.5915986647 (WGS84)  
(X) 274742.69 (Y) 909865.02 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_173554\_7253.20190701\_231628.xtf
- Ping Number: 48191
- Range to target: 45.39 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.79 Meters
- Target Height: 0.13 Meters
- Target Length: 1.69 Meters
- Target Shadow: 3.34 Meters
- Classification1: debris
- Description:



<p><b>IWS19-71</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:40:50 PM</li><li>• Position 42.4388248566 -70.5803578310 (WGS84) (X) 275663.83 (Y) 910219.16 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_173554_7253.20190701_231628.xtf</li><li>• Ping Number: 15550</li><li>• Range to target: 56.76 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.65 Meters</li><li>• Target Height: 0.15 Meters</li><li>• Target Length: 3.52 Meters</li><li>• Target Shadow: 4.61 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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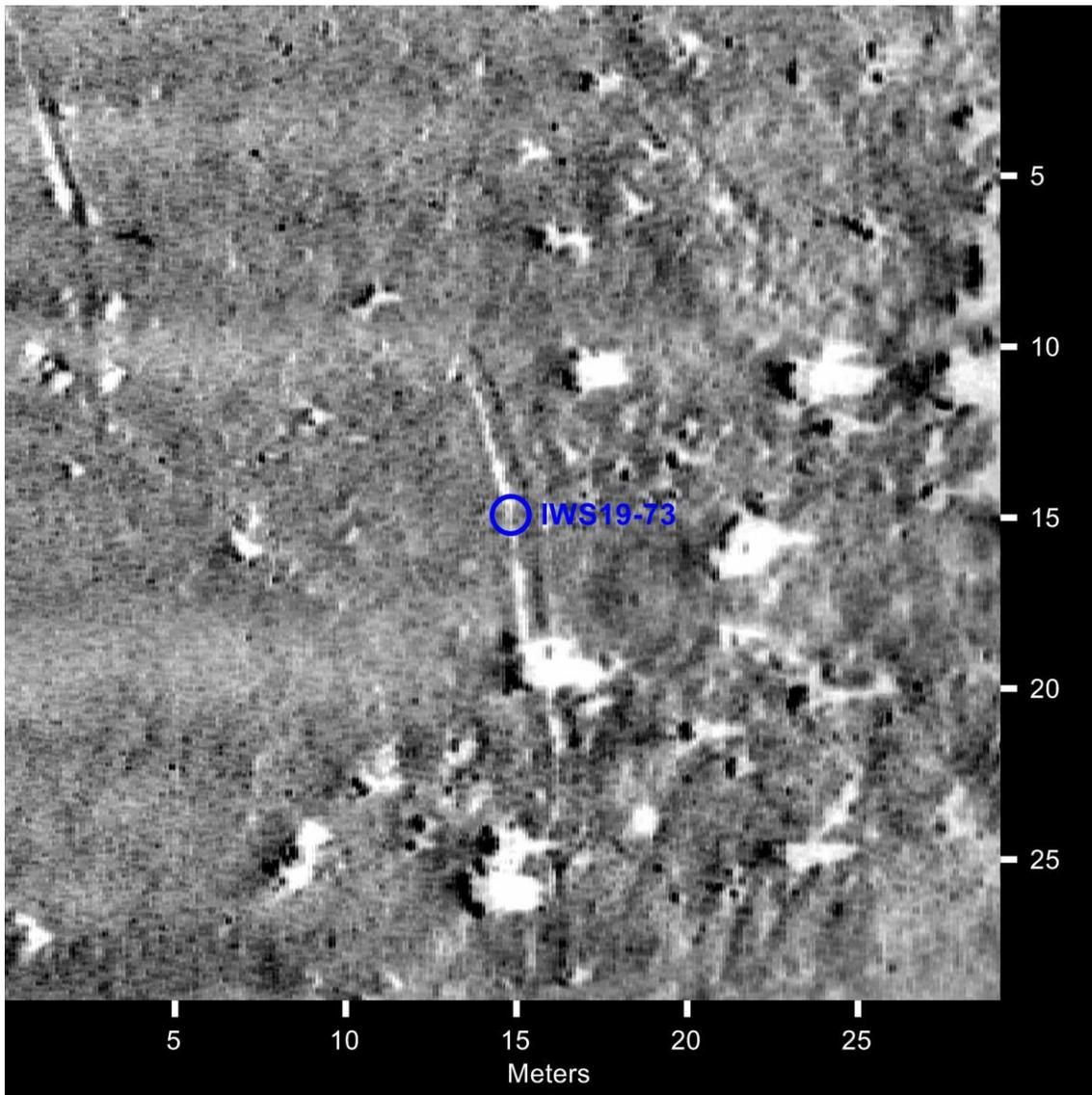


**IWS19-72**

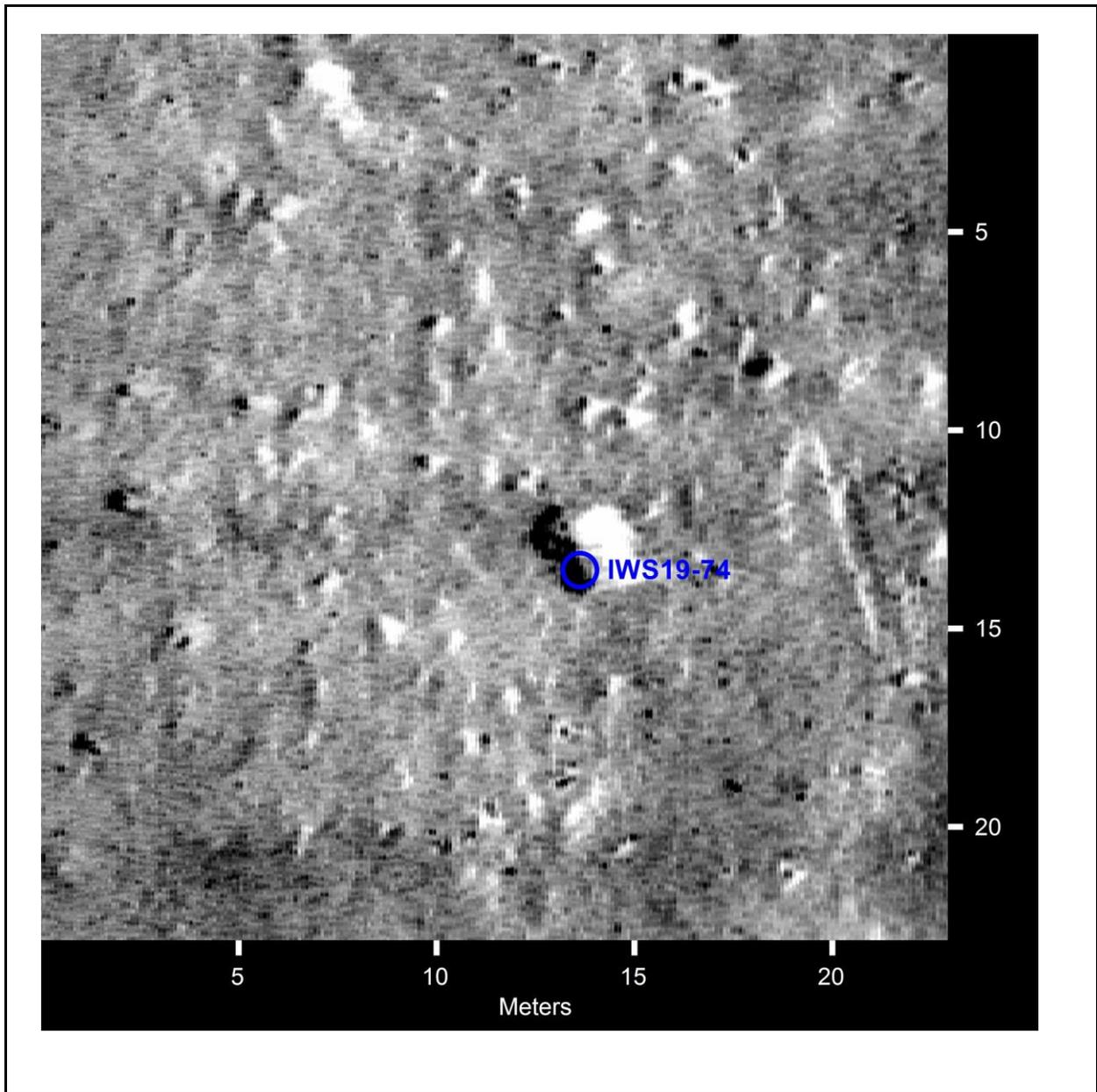
- Sonar Time at Target: 7/1/2019 5:40:50 PM
- Position  
42.4389545462 -70.5804244229 (WGS84)  
(X) 275658.19 (Y) 910233.51 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_173554\_7253.20190701\_231628.xtf
- Ping Number: 15547
- Range to target: 41.35 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.57 Meters
- Target Height: 0.15 Meters
- Target Length: 1.75 Meters
- Target Shadow: 3.62 Meters
- Classification1: debris
- Description:



<p><b>IWS19-73</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:38:16 PM</li><li>• Position 42.4404516400 -70.5782263334 (WGS84) (X) 275837.24 (Y) 910401.75 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_173554_7253.20190701_231628.xtf</li><li>• Ping Number: 7962</li><li>• Range to target: 48.79 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.58 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 8.77 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Typical intermittent scour</li><li>• Description:</li></ul>
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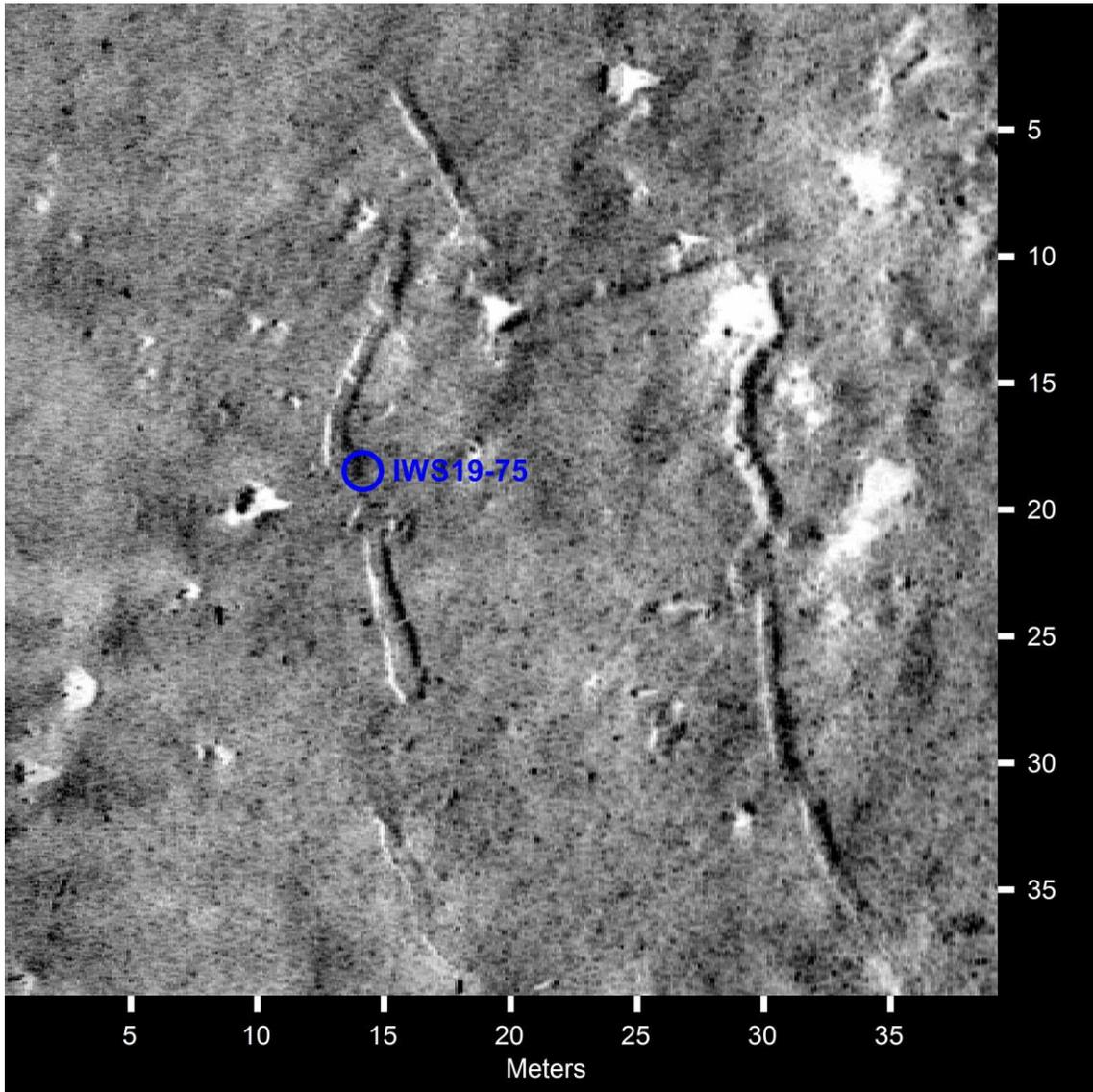


**IWS19-74**

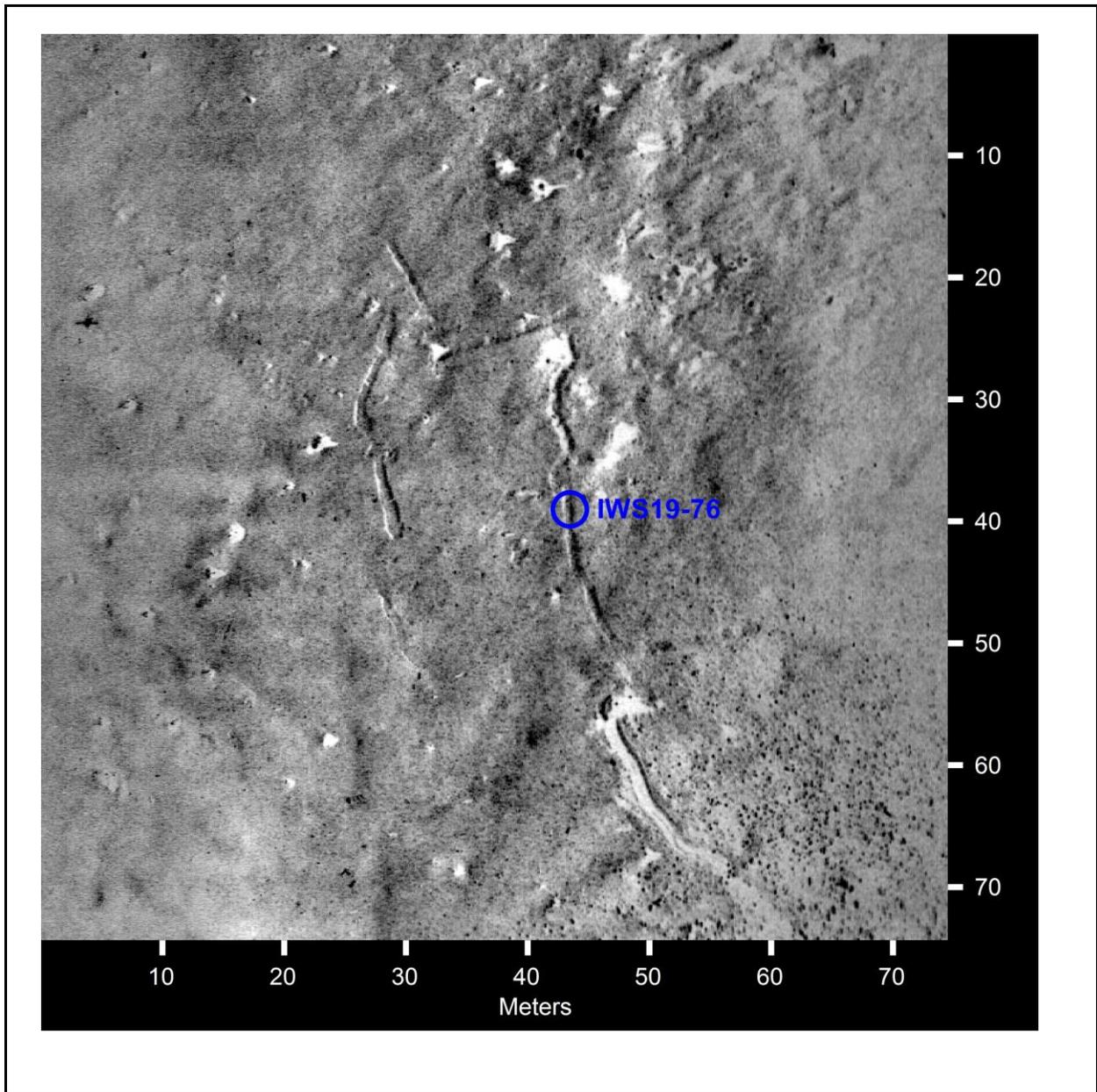
- Sonar Time at Target: 7/1/2019 5:40:47 PM
- Position  
42.4396216322 -70.5807211344 (WGS84)  
(X) 275632.98 (Y) 910307.34 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_173554\_7253.20190701\_231628.xtf
- Ping Number: 15413
- Range to target: 36.56 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.90 Meters
- Target Height: 0.09 Meters
- Target Length: 2.29 Meters
- Target Shadow: 1.76 Meters
- Classification1: debris
- Description:



<p><b>IWS19-75</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:45:29 PM</li><li>• Position 42.4382541576 -70.5855804099 (WGS84) (X) 275234.83 (Y) 910151.15 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_173554_7253.20190701_231628.xtf</li><li>• Ping Number: 29542</li><li>• Range to target: 38.58 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.74 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 19.25 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Ridges</li><li>• Description:</li></ul>
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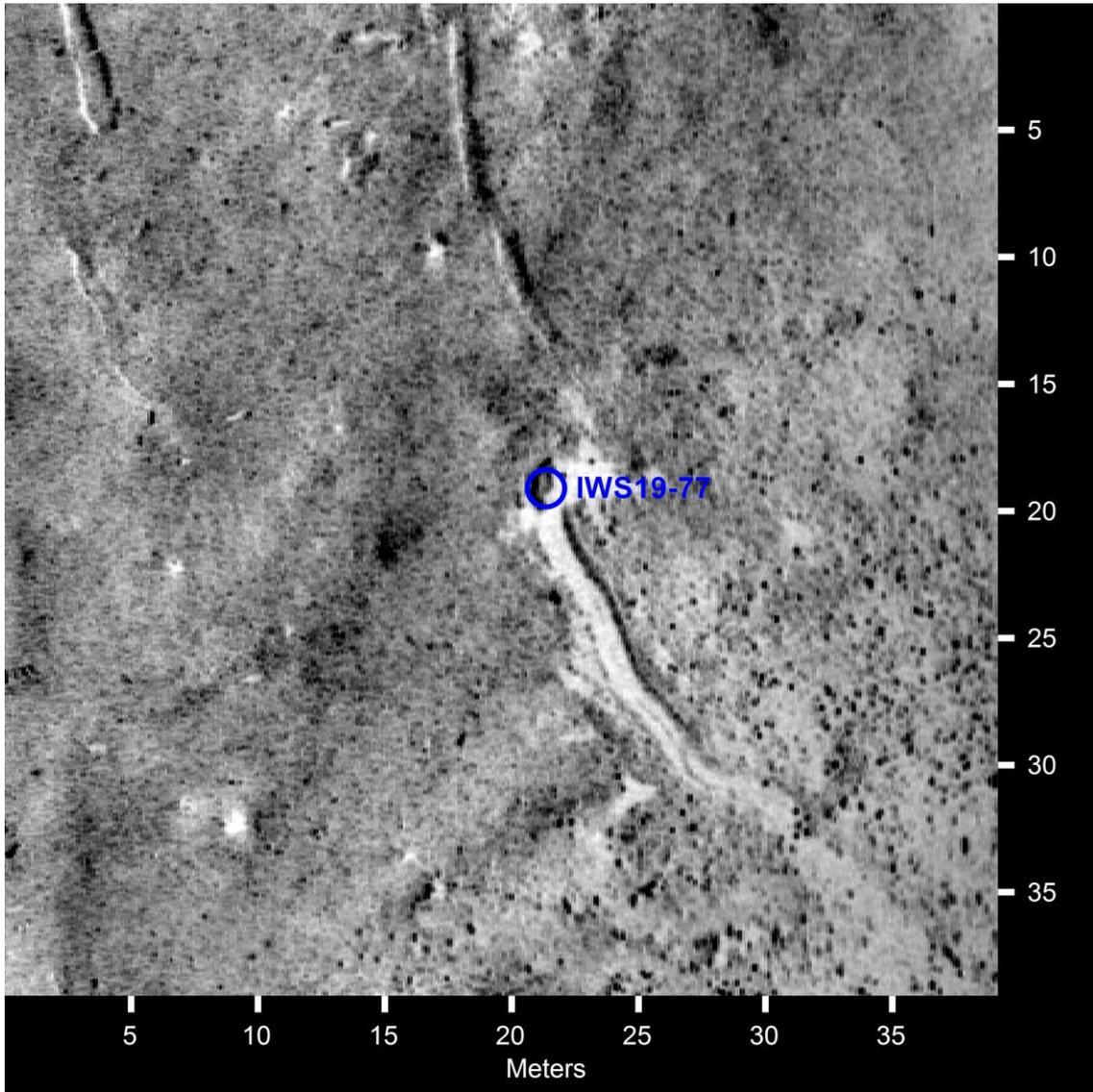


**IWS19-76**

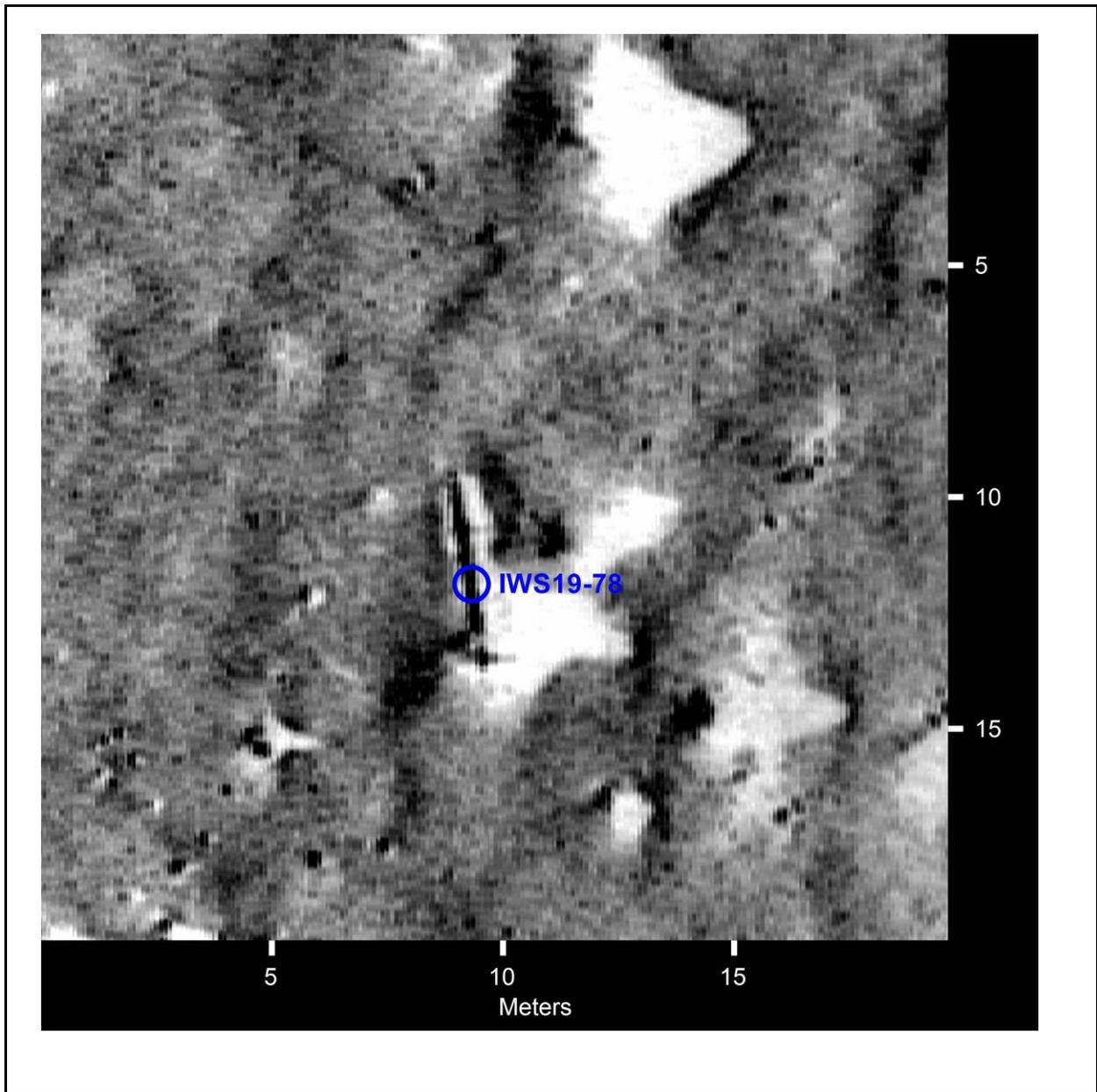
- Sonar Time at Target: 7/1/2019 5:45:34 PM
- Position  
42.4383682833 -70.5857267602 (WGS84)  
(X) 275222.66 (Y) 910163.70 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_173554\_7253.20190701\_231628.xtf
- Ping Number: 29765
- Range to target: 54.74 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.60 Meters
- Target Height: 0.00 Meters
- Target Length: 43.89 Meters
- Target Shadow: 0.00 Meters
- Classification1: Ridges
- Description:



<p><b>IWS19-77</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 5:45:45 PM</li><li>• Position 42.4383425744 -70.5859255834 (WGS84) (X) 275206.33 (Y) 910160.67 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_173554_7253.20190701_231628.xtf</li><li>• Ping Number: 30308</li><li>• Range to target: 57.93 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.88 Meters</li><li>• Target Height: 0.09 Meters</li><li>• Target Length: 2.08 Meters</li><li>• Target Shadow: 3.11 Meters</li><li>• Classification1:</li><li>• Description:</li></ul>
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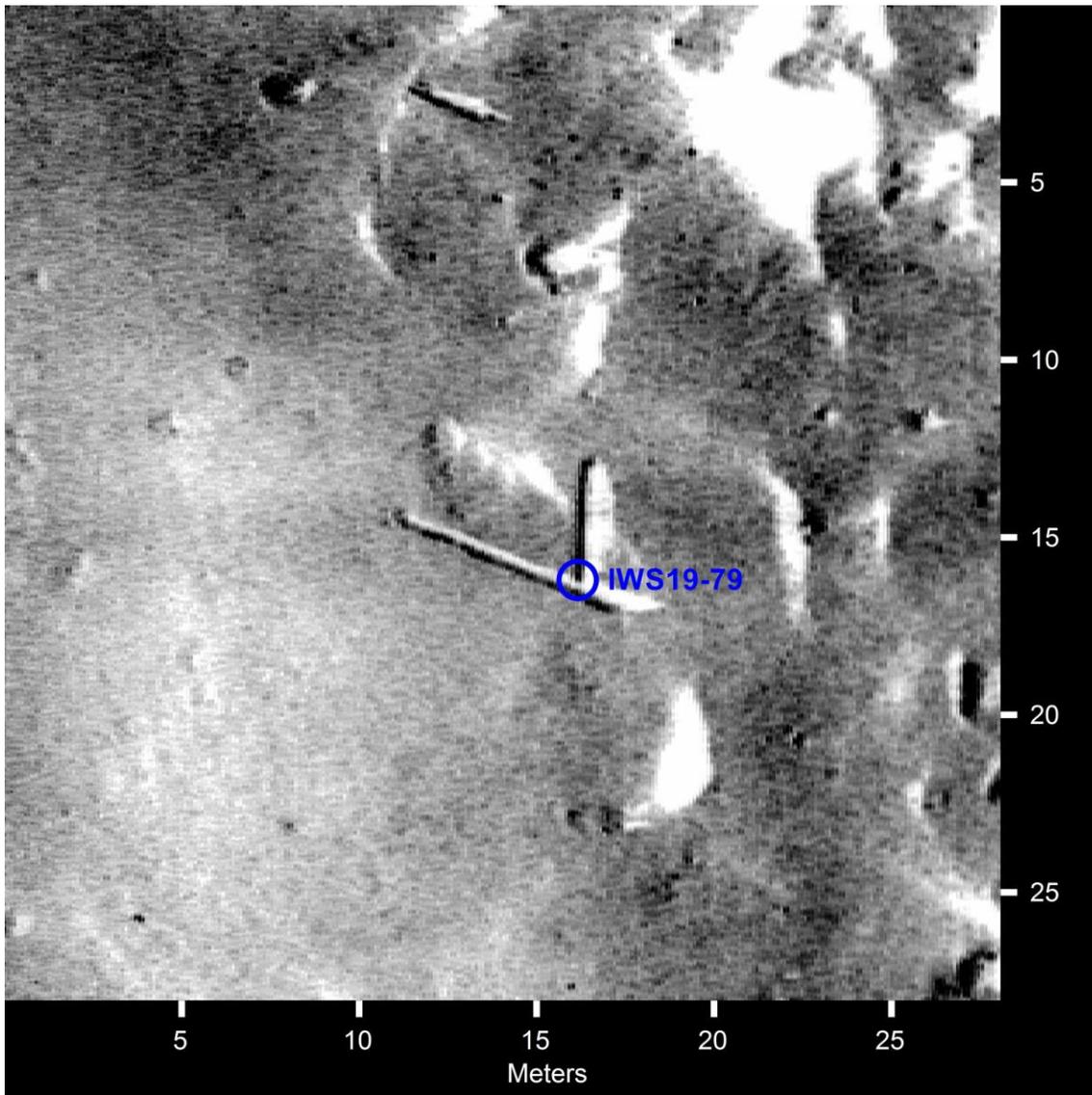
Appendix C – IWS Contact Report

**IWS19-78**

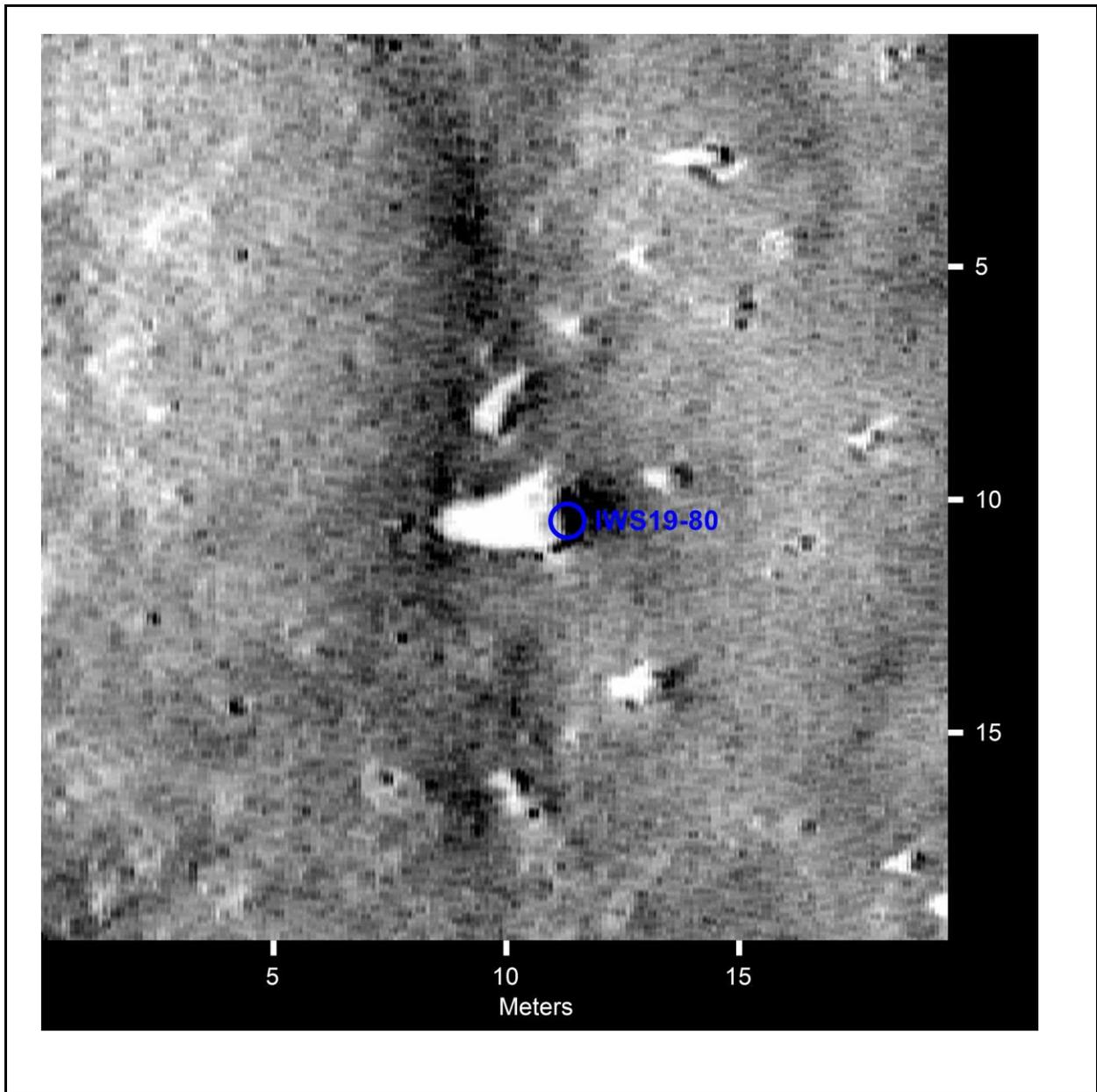
- Sonar Time at Target: 7/1/2019 6:00:04 PM
- Position  
42.4342590778 -70.6001166161 (WGS84)  
(X) 274043.58 (Y) 909694.69 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_175835\_2206.20190701\_232837.xtf
- Ping Number: 9143
- Range to target: 55.33 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.68 Meters
- Target Height: 0.10 Meters
- Target Length: 4.25 Meters
- Target Shadow: 2.98 Meters
- Classification1: debris
- Description:



<p><b>IWS19-79</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:10:07 PM</li><li>• Position 42.4353822112 -70.5987608697 (WGS84) (X) 274153.81 (Y) 909820.62 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 15727</li><li>• Range to target: 38.41 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.36 Meters</li><li>• Target Height: 0.04 Meters</li><li>• Target Length: 6.63 Meters</li><li>• Target Shadow: 0.85 Meters</li><li>• Classification1:</li><li>• Description:</li></ul>
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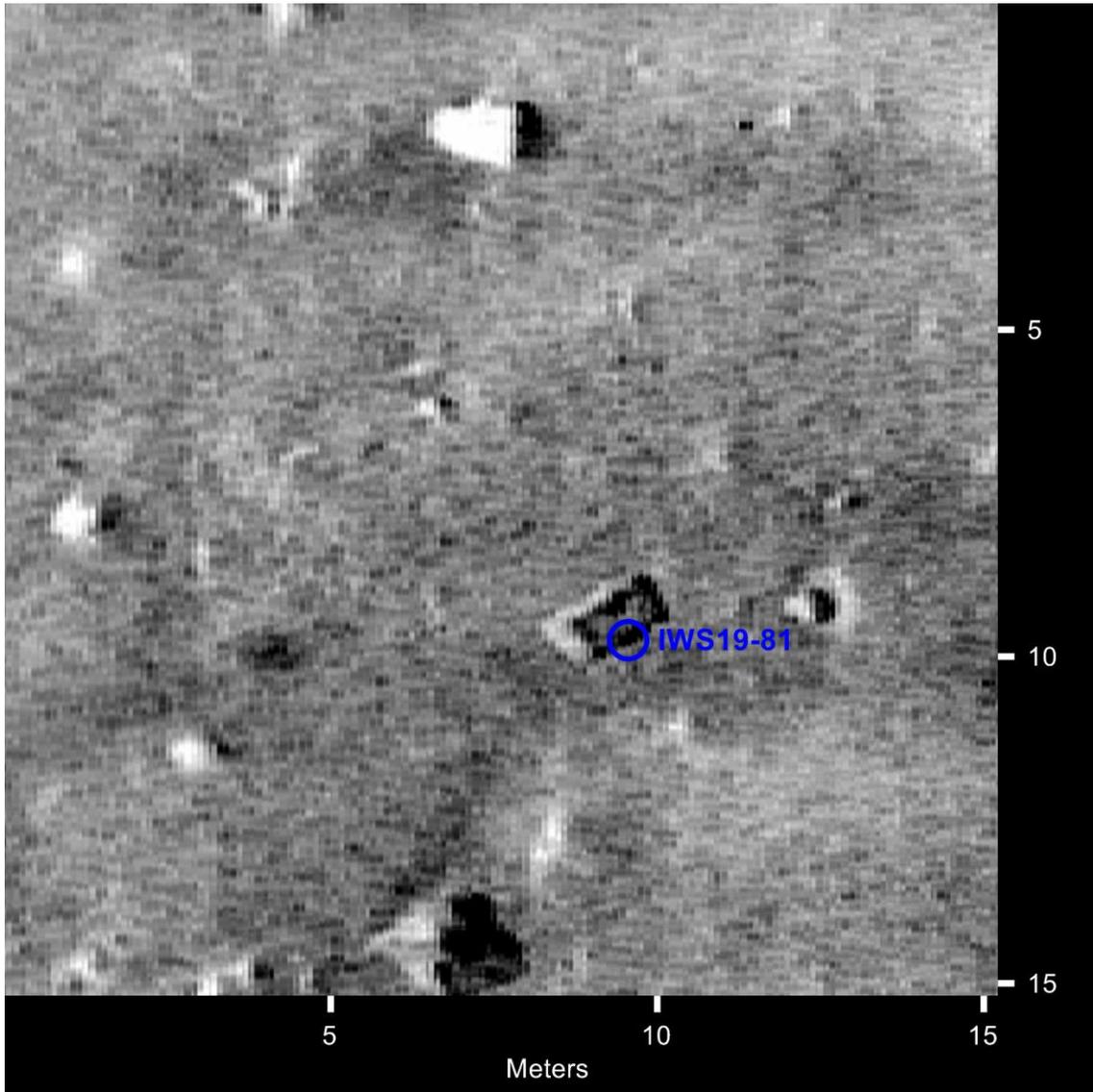
Appendix C – IWS Contact Report

**IWS19-80**

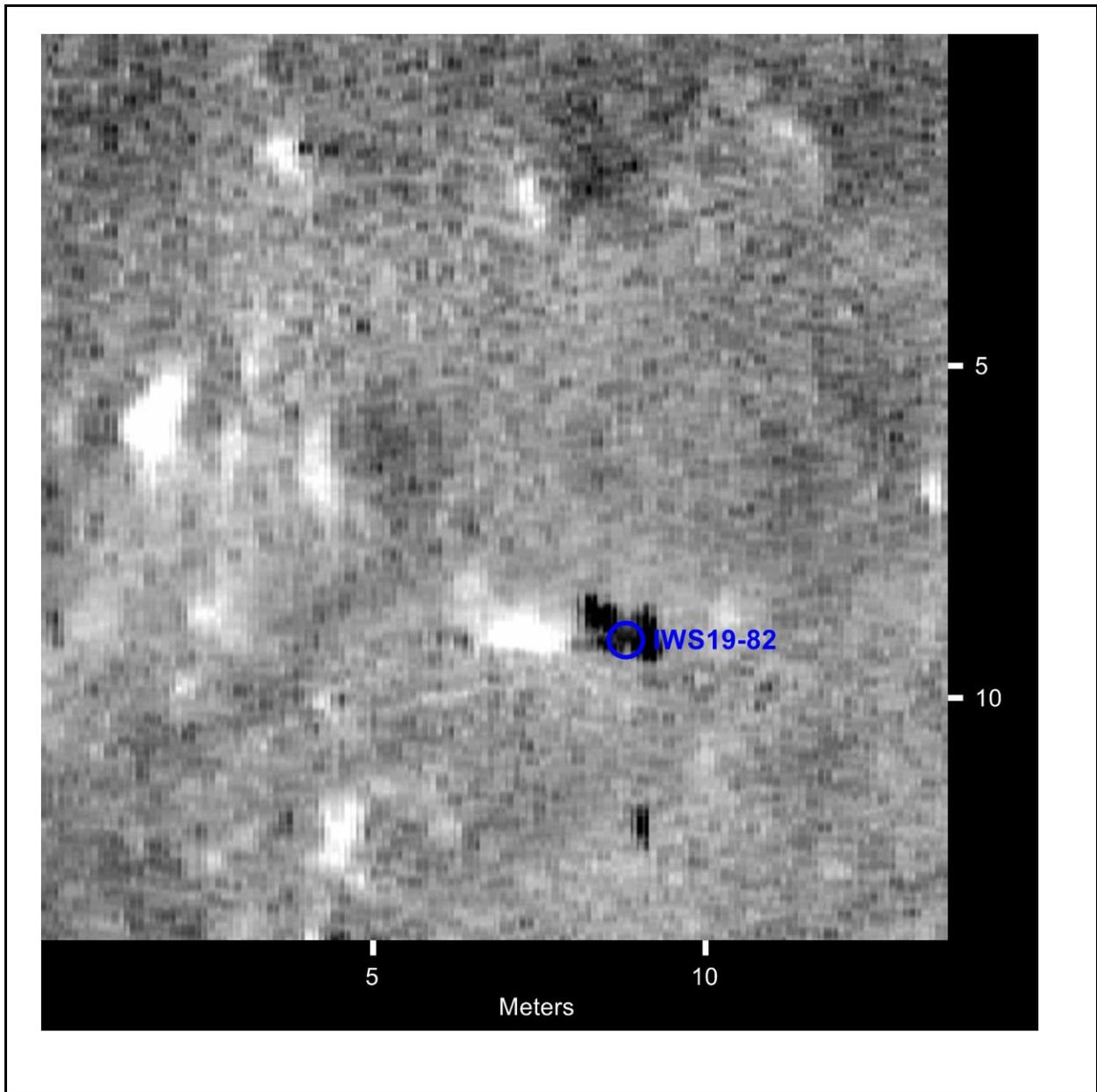
- Sonar Time at Target: 7/1/2019 6:17:25 PM
- Position  
42.4383348943 -70.5912853280 (WGS84)  
(X) 274765.38 (Y) 910155.11 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_180516\_10467.20190701\_233234.xtf
- Ping Number: 38669
- Range to target: 46.07 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.79 Meters
- Target Height: 0.10 Meters
- Target Length: 1.29 Meters
- Target Shadow: 2.65 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-81</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:19:33 PM</li><li>• Position 42.4388619297 -70.5889747386 (WGS84) (X) 274954.85 (Y) 910215.67 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 45292</li><li>• Range to target: 32.24 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.77 Meters</li><li>• Target Height: 0.03 Meters</li><li>• Target Length: 1.29 Meters</li><li>• Target Shadow: 0.59 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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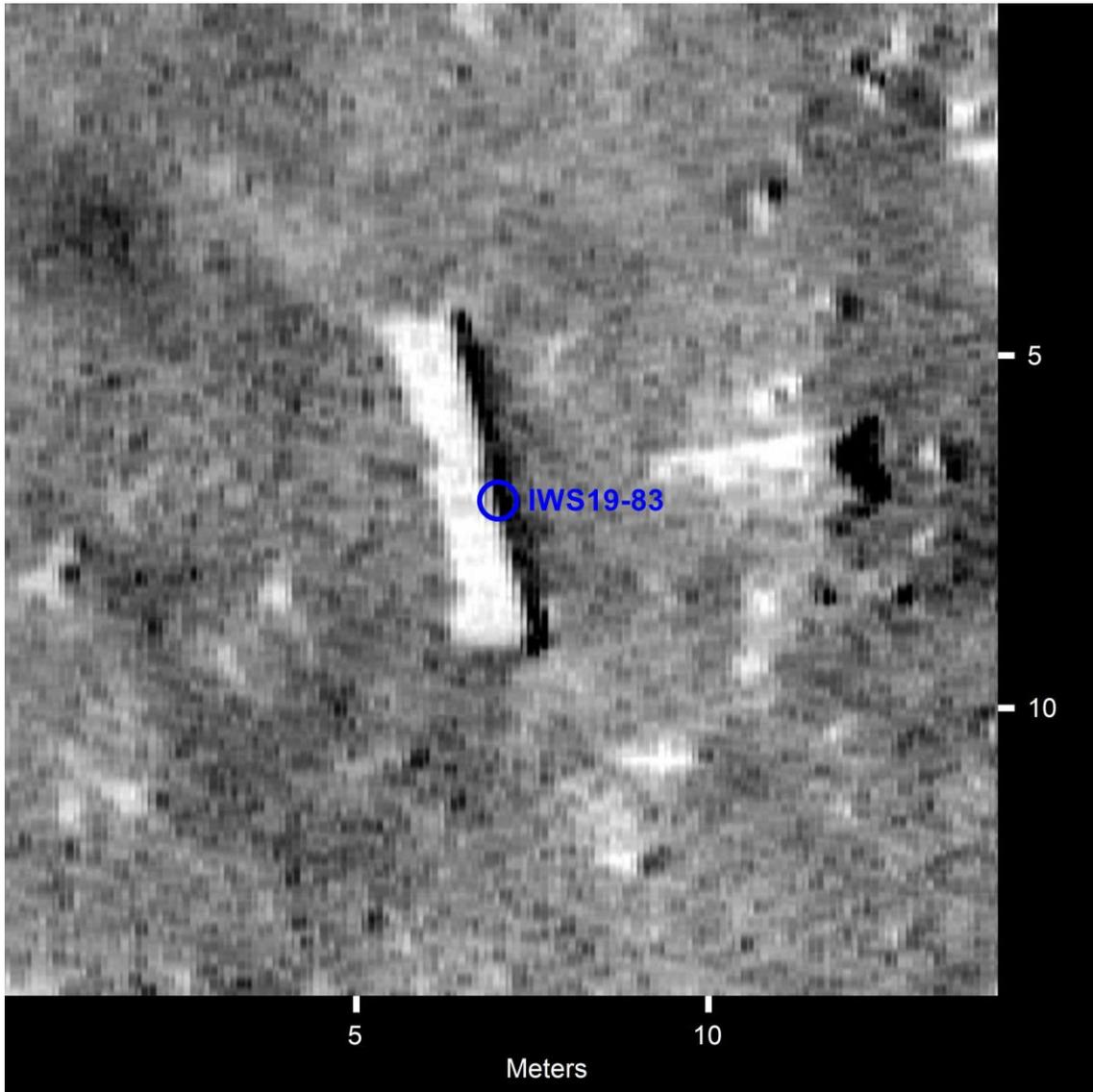


**IWS19-82**

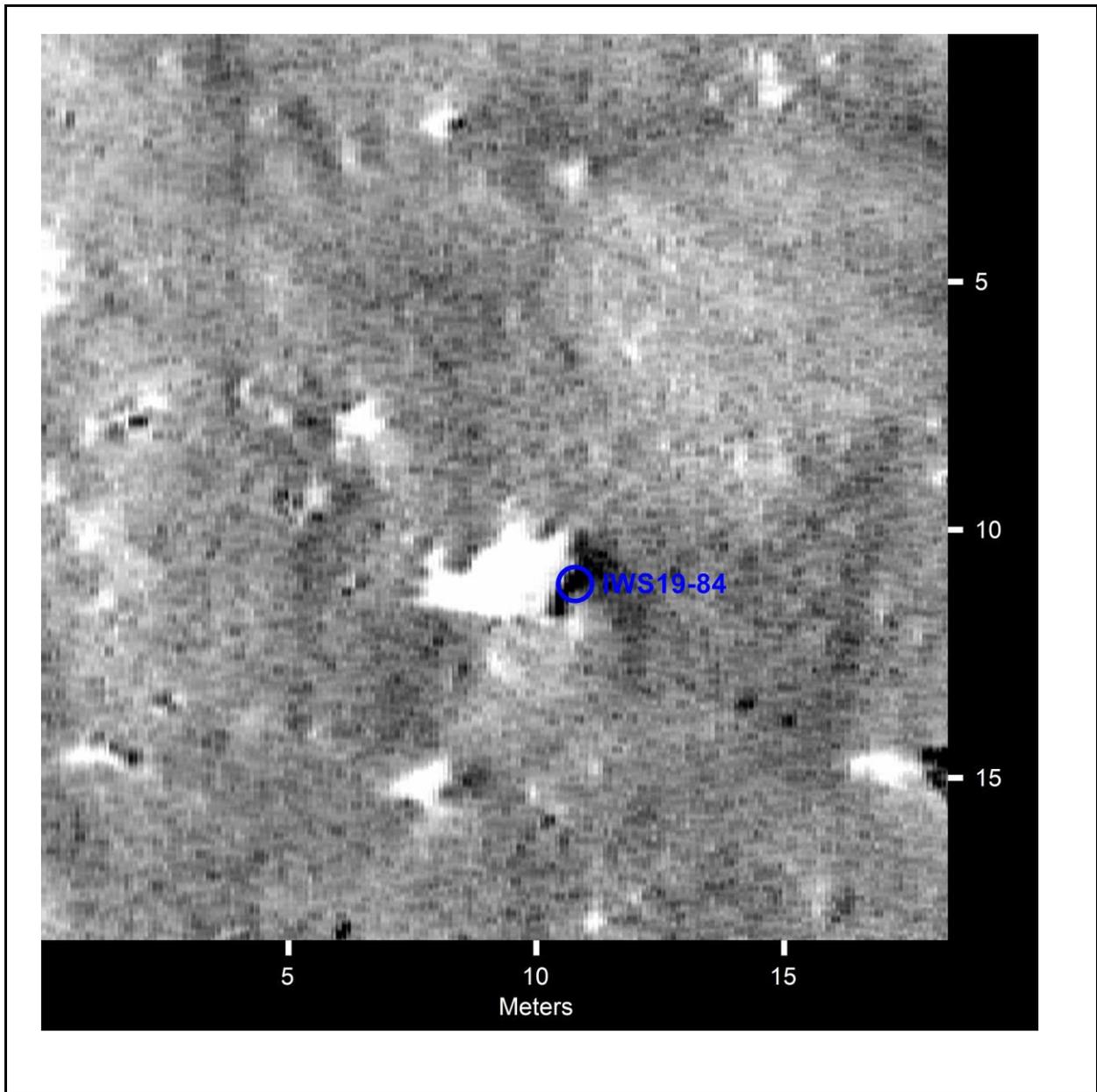
- Sonar Time at Target: 7/1/2019 6:19:28 PM
- Position  
42.4389567506 -70.5891330742 (WGS84)  
(X) 274941.71 (Y) 910226.07 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_180516\_10467.20190701\_233234.xtf
- Ping Number: 45013
- Range to target: 46.75 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

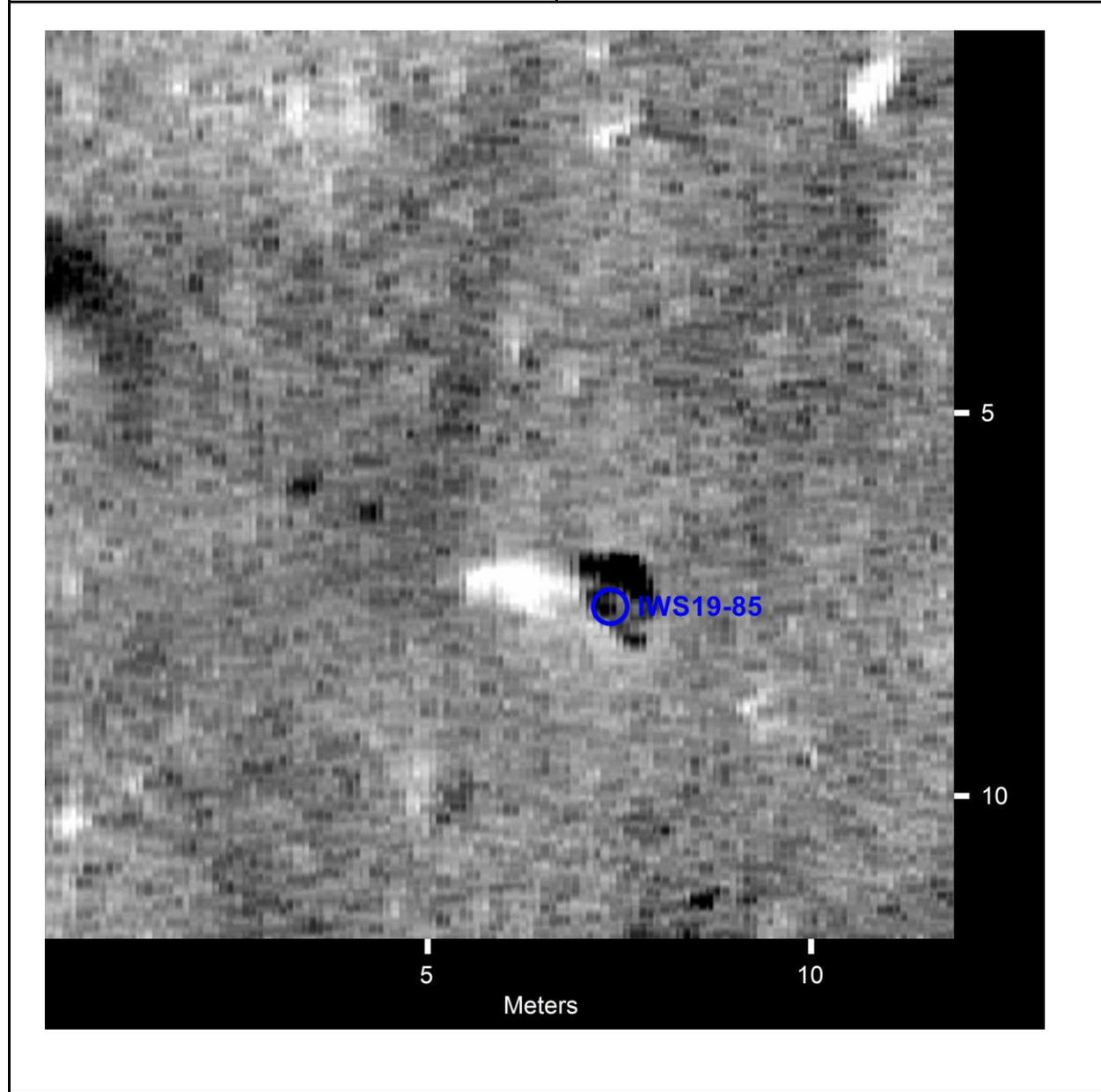
- Target Width: 0.89 Meters
- Target Height: 0.06 Meters
- Target Length: 1.08 Meters
- Target Shadow: 1.61 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-83</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:19:51 PM</li><li>• Position 42.4391639097 -70.5887782535 (WGS84) (X) 274970.66 (Y) 910249.39 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 46194</li><li>• Range to target: 57.73 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.56 Meters</li><li>• Target Height: 0.03 Meters</li><li>• Target Length: 4.99 Meters</li><li>• Target Shadow: 1.12 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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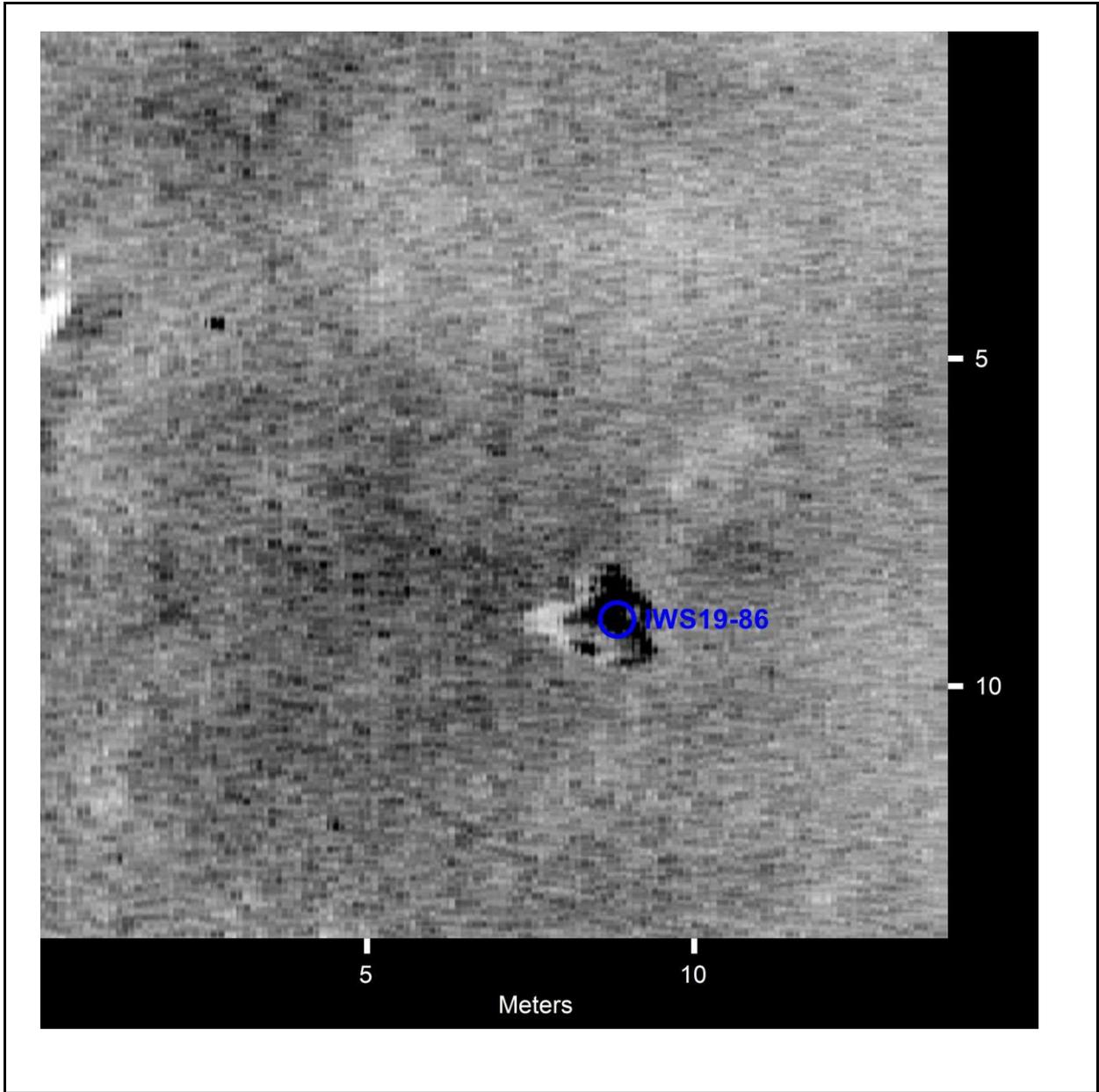


<p><b>IWS19-84</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:20:09 PM</li><li>• Position 42.4391371070 -70.5884077449 (WGS84) (X) 275001.17 (Y) 910246.74 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 47106</li><li>• Range to target: 44.01 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.50 Meters</li><li>• Target Height: 0.11 Meters</li><li>• Target Length: 1.75 Meters</li><li>• Target Shadow: 2.67 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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*Appendix C – IWS Contact Report*

<p><b>IWS19-85</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:20:11 PM</li><li>• Position 42.4390875251 -70.5883303092 (WGS84) (X) 275007.60 (Y) 910241.30 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 47238</li><li>• Range to target: 36.58 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.94 Meters</li><li>• Target Height: 0.08 Meters</li><li>• Target Length: 1.34 Meters</li><li>• Target Shadow: 1.66 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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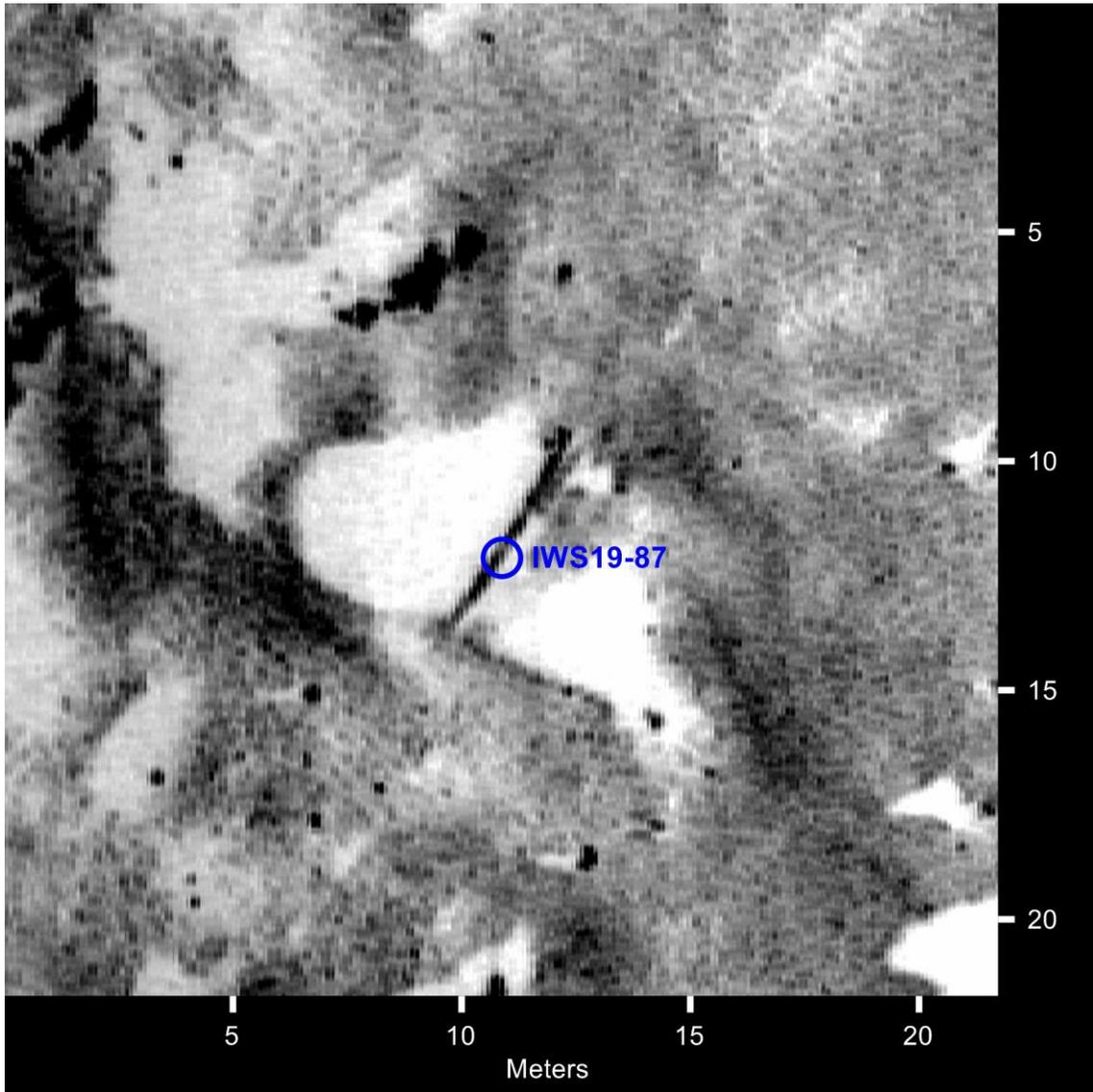


**IWS19-86**

- Sonar Time at Target: 7/1/2019 6:20:10 PM
- Position  
42.4389787288 -70.5883018989 (WGS84)  
(X) 275010.07 (Y) 910229.24 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_180516\_10467.20190701\_233234.xtf
- Ping Number: 47166
- Range to target: 24.46 Meters
- Fish Height: 1.95 Meters

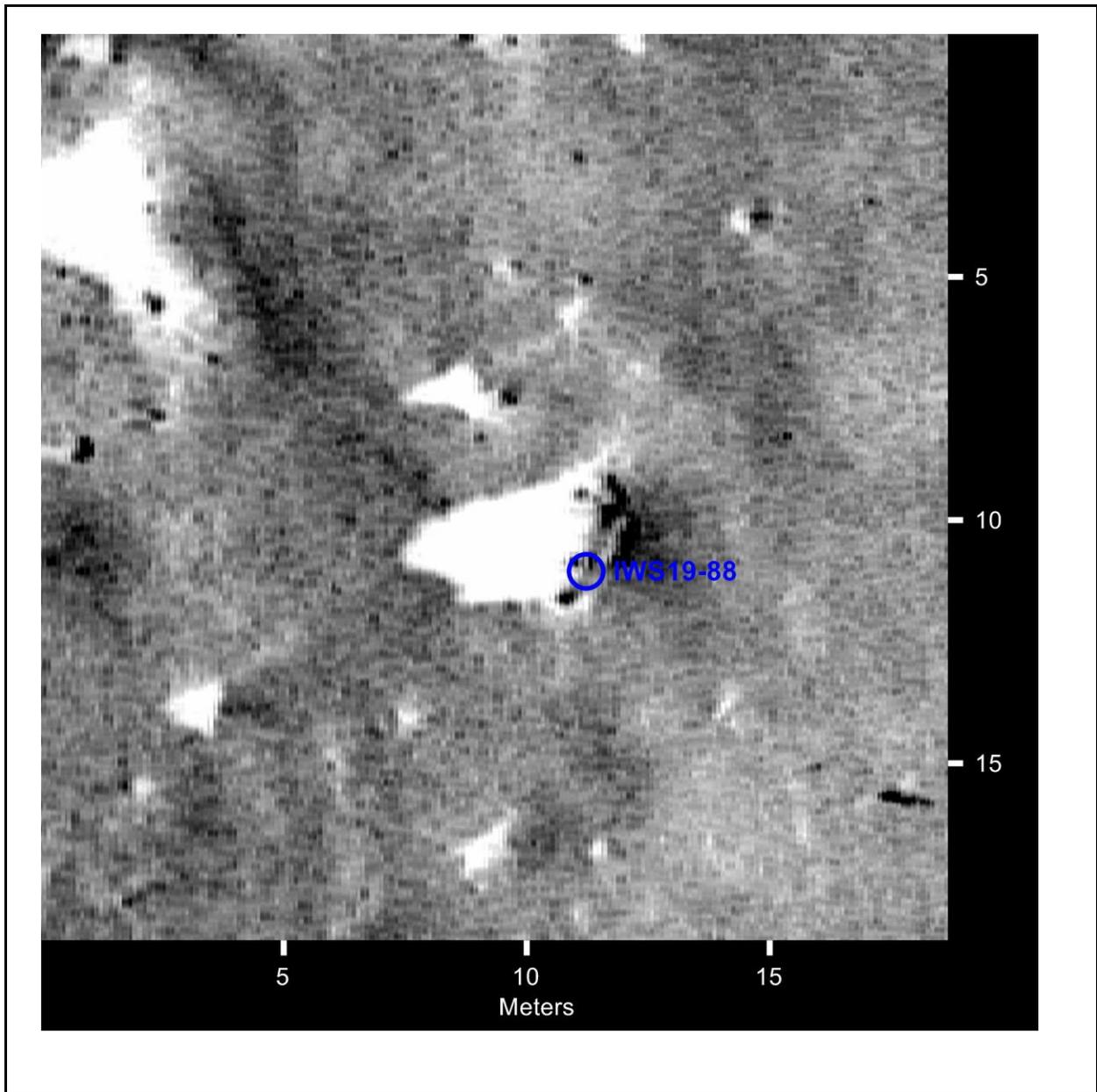
**Dimensions and attributes**

- Target Width: 0.81 Meters
- Target Height: 0.02 Meters
- Target Length: 1.36 Meters
- Target Shadow: 0.37 Meters
- Classification1: Trap
- Description:



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<p><b>IWS19-87</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:23:26 PM</li><li>• Position 42.4402438222 -70.5849846893 (WGS84) (X) 275281.47 (Y) 910372.68 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 57251</li><li>• Range to target: 57.27 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 5.55 Meters</li><li>• Target Height: 0.15 Meters</li><li>• Target Length: 5.22 Meters</li><li>• Target Shadow: 4.84 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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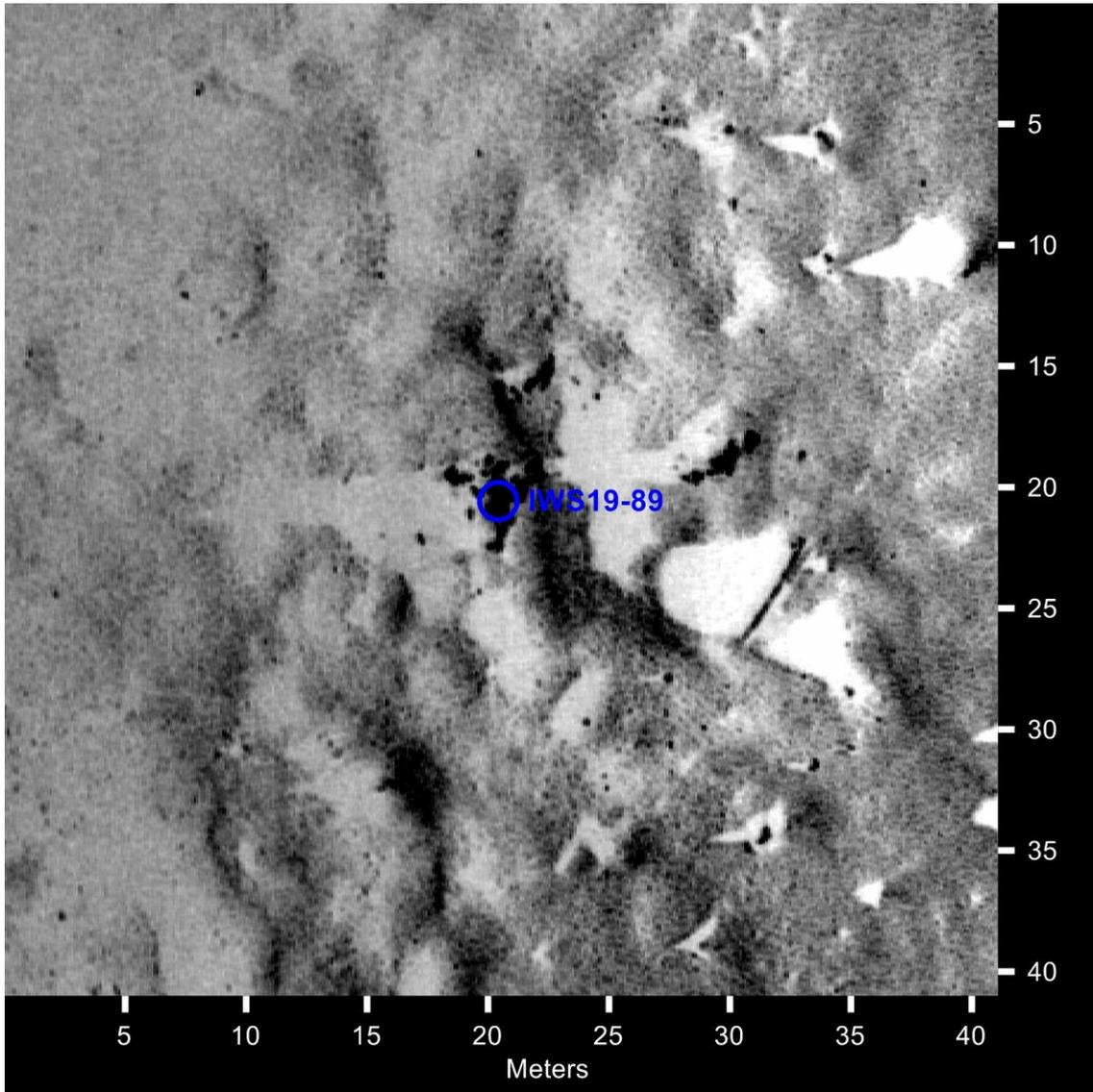


**IWS19-88**

- Sonar Time at Target: 7/1/2019 6:23:32 PM
- Position  
42.4401708263 -70.5848275599 (WGS84)  
(X) 275294.49 (Y) 910364.71 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_180516\_10467.20190701\_233234.xtf
- Ping Number: 57553
- Range to target: 45.04 Meters
- Fish Height: 1.95 Meters

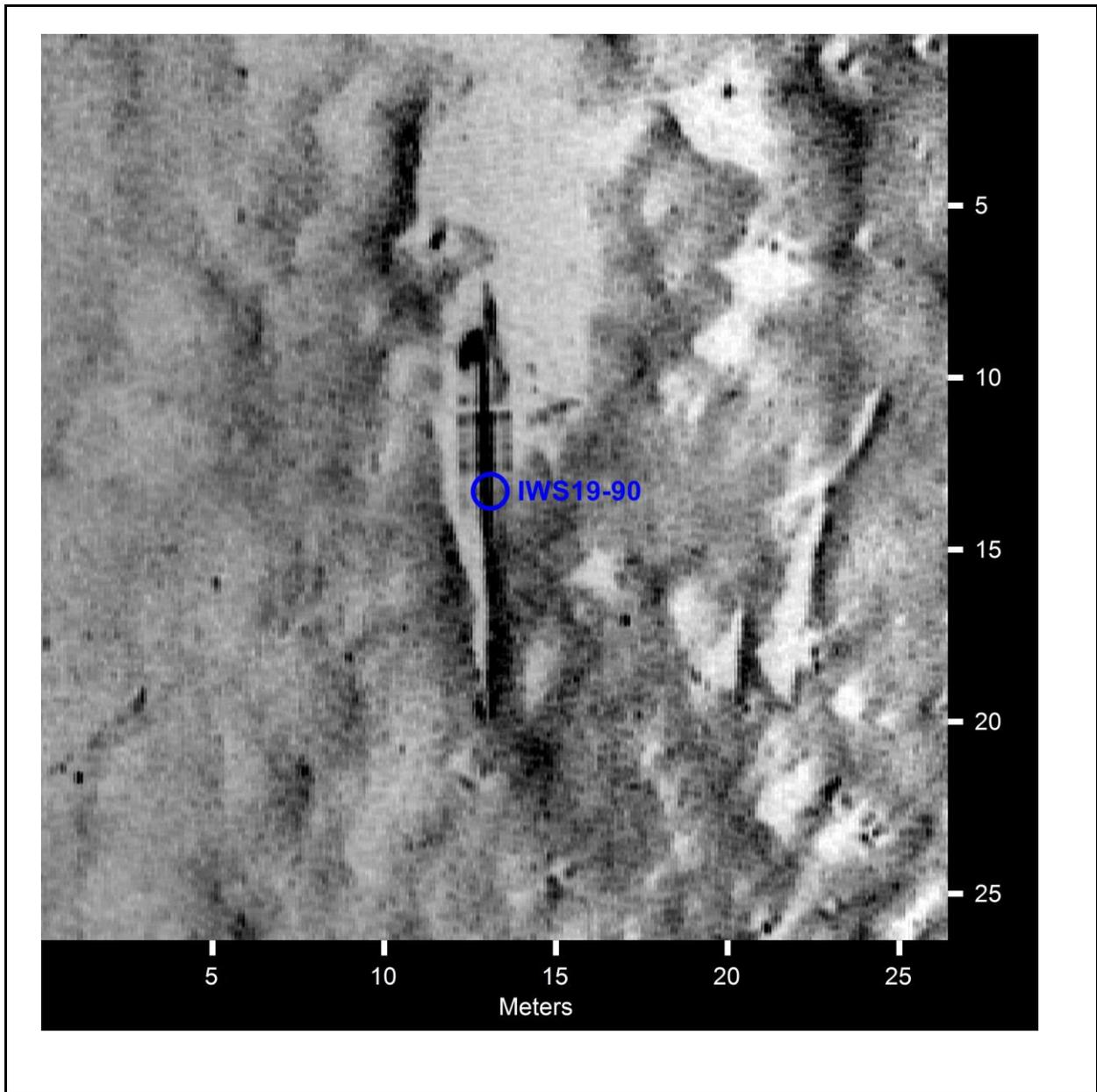
**Dimensions and attributes**

- Target Width: 1.08 Meters
- Target Height: 0.15 Meters
- Target Length: 3.00 Meters
- Target Shadow: 3.98 Meters
- Classification1: debris
- Description:



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<p><b>IWS19-89</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:23:24 PM</li><li>• Position 42.4403236330 -70.5850832998 (WGS84) (X) 275273.27 (Y) 910381.46 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 57107</li><li>• Range to target: 68.47 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 3.19 Meters</li><li>• Target Height: 0.28 Meters</li><li>• Target Length: 3.92 Meters</li><li>• Target Shadow: 11.24 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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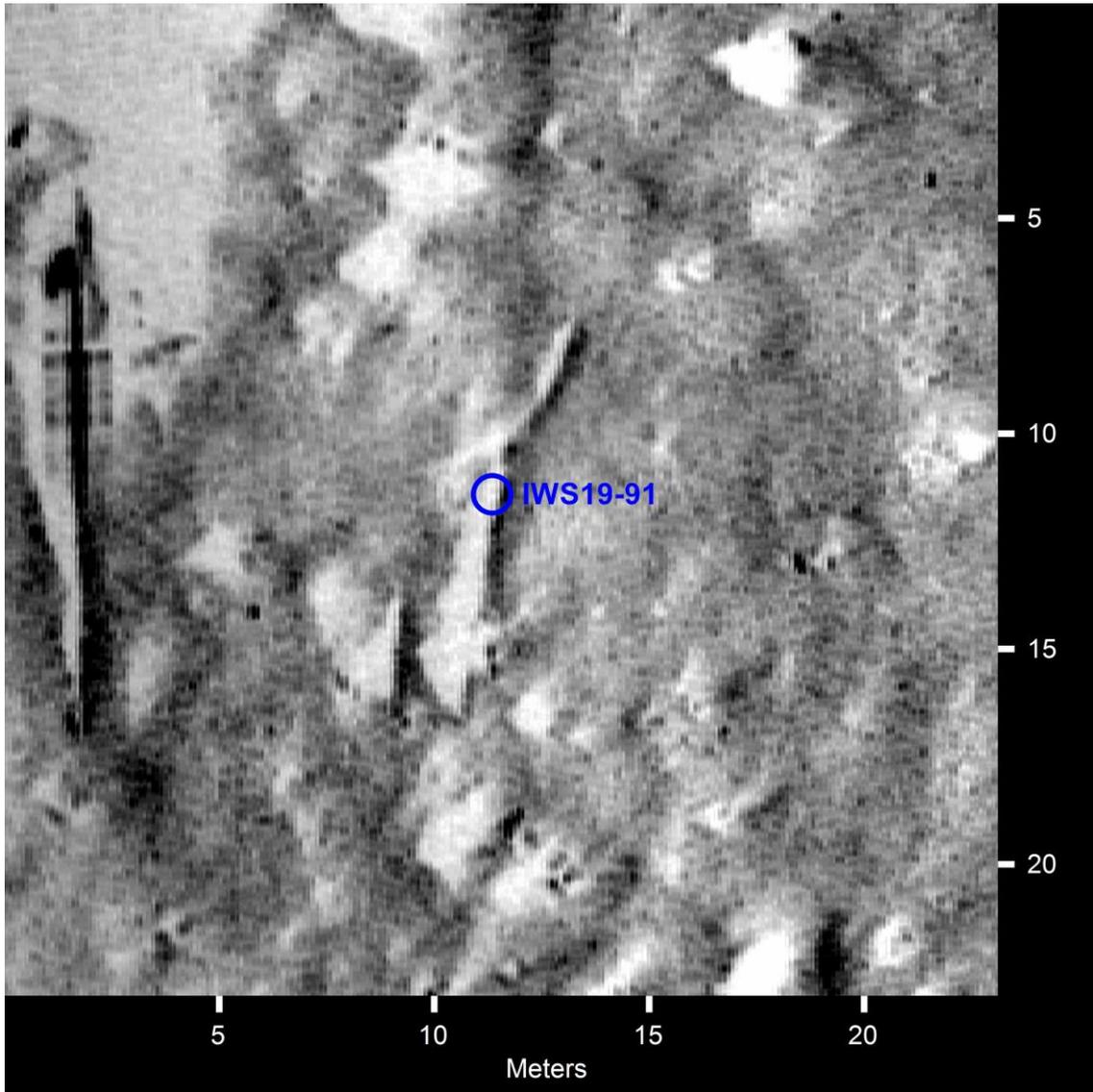


**IWS19-90**

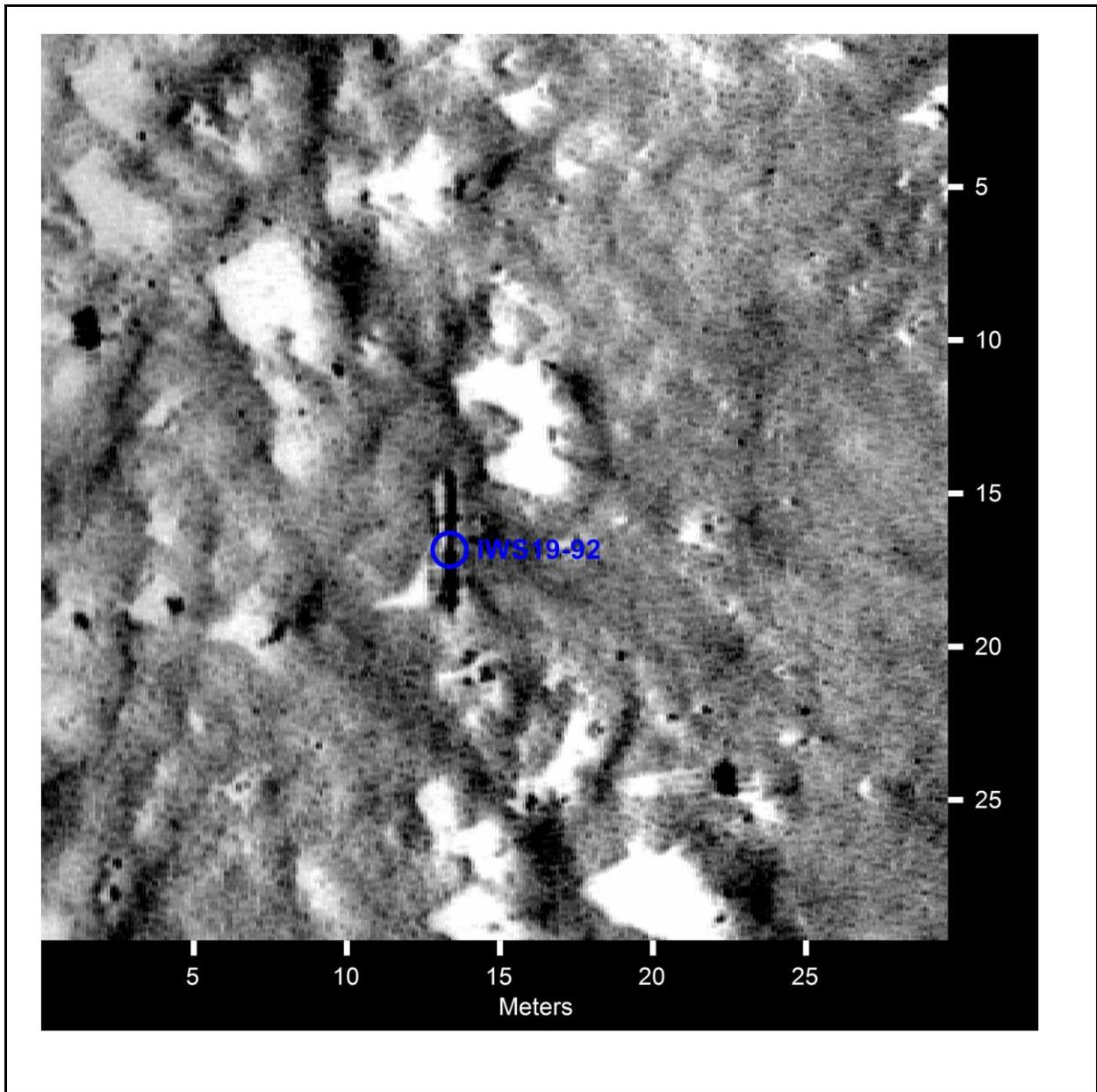
- Sonar Time at Target: 7/1/2019 6:24:36 PM
- Position  
42.4406801014 -70.5838058899 (WGS84)  
(X) 275377.93 (Y) 910422.18 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_180516\_10467.20190701\_233234.xtf
- Ping Number: 60851
- Range to target: 67.56 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.50 Meters
- Target Height: 0.03 Meters
- Target Length: 12.74 Meters
- Target Shadow: 0.91 Meters
- Classification1: debris
- Description:



<p><b>IWS19-91</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:24:37 PM</li><li>• Position 42.4406034680 -70.5837535661 (WGS84) (X) 275382.33 (Y) 910413.71 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 60885</li><li>• Range to target: 58.07 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.53 Meters</li><li>• Target Height: 0.02 Meters</li><li>• Target Length: 8.91 Meters</li><li>• Target Shadow: 0.66 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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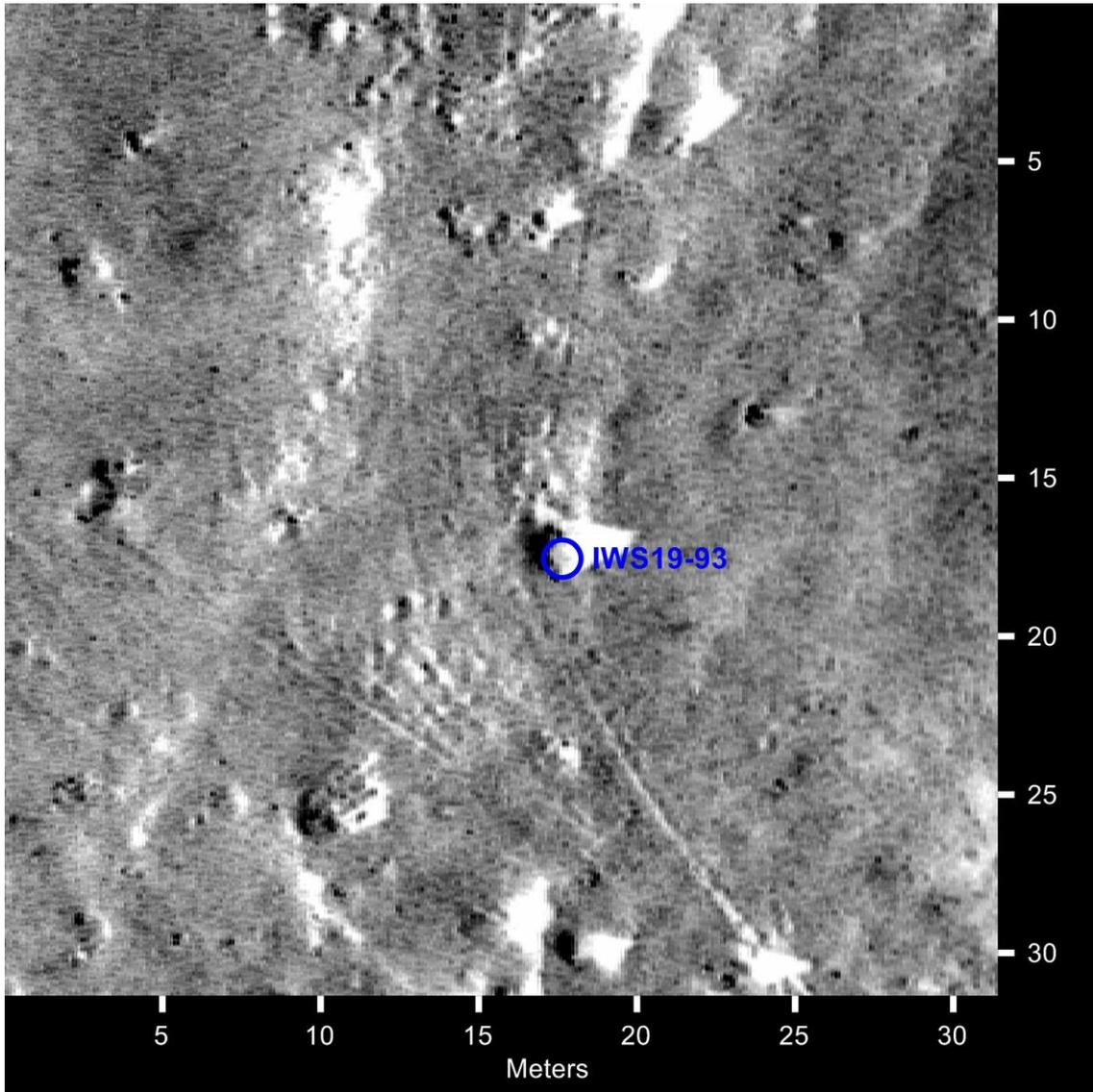
Appendix C – IWS Contact Report

**IWS19-92**

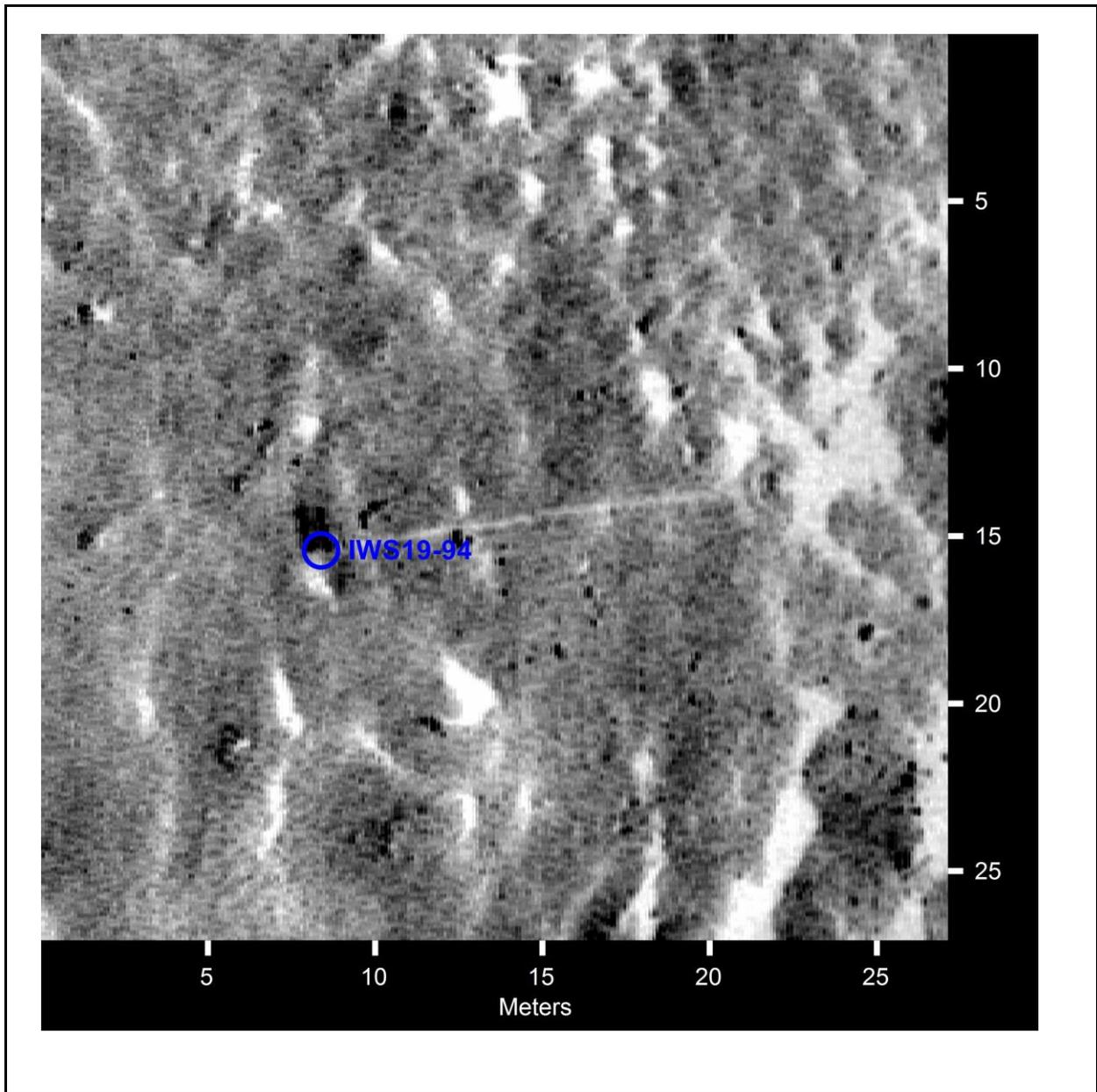
- Sonar Time at Target: 7/1/2019 6:25:36 PM
- Position  
42.4408524030 -70.5827171139 (WGS84)  
(X) 275467.30 (Y) 910442.28 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_180516\_10467.20190701\_233234.xtf
- Ping Number: 63862
- Range to target: 53.27 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.61 Meters
- Target Height: 0.08 Meters
- Target Length: 4.57 Meters
- Target Shadow: 2.16 Meters
- Classification1: debris
- Description:



<p><b>IWS19-93</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:12:41 PM</li><li>• Position 42.4361105129 -70.5959604762 (WGS84) (X) 274383.36 (Y) 909903.95 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 23817</li><li>• Range to target: 45.95 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.15 Meters</li><li>• Target Height: 0.09 Meters</li><li>• Target Length: 1.81 Meters</li><li>• Target Shadow: 2.42 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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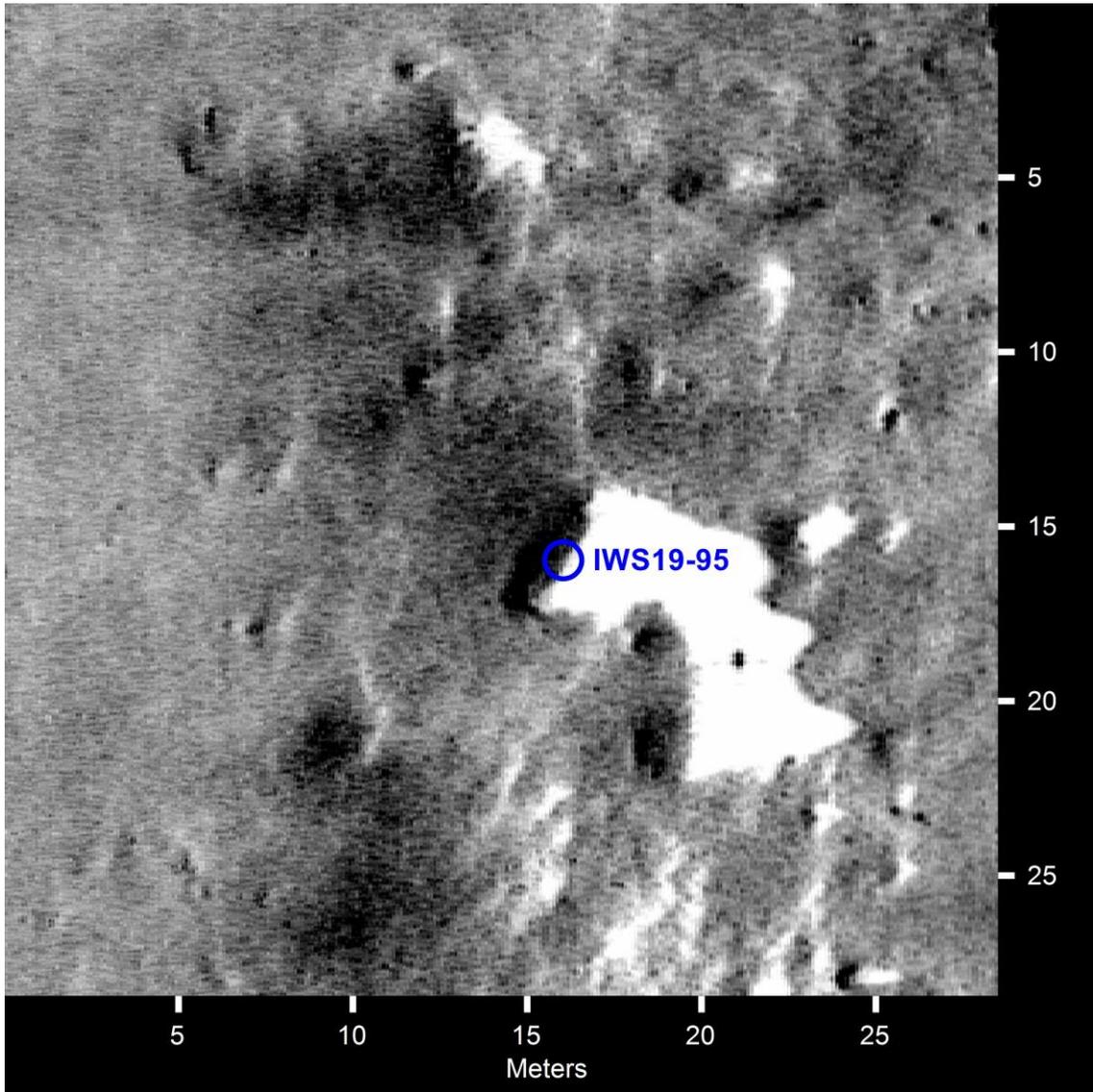


**IWS19-94**

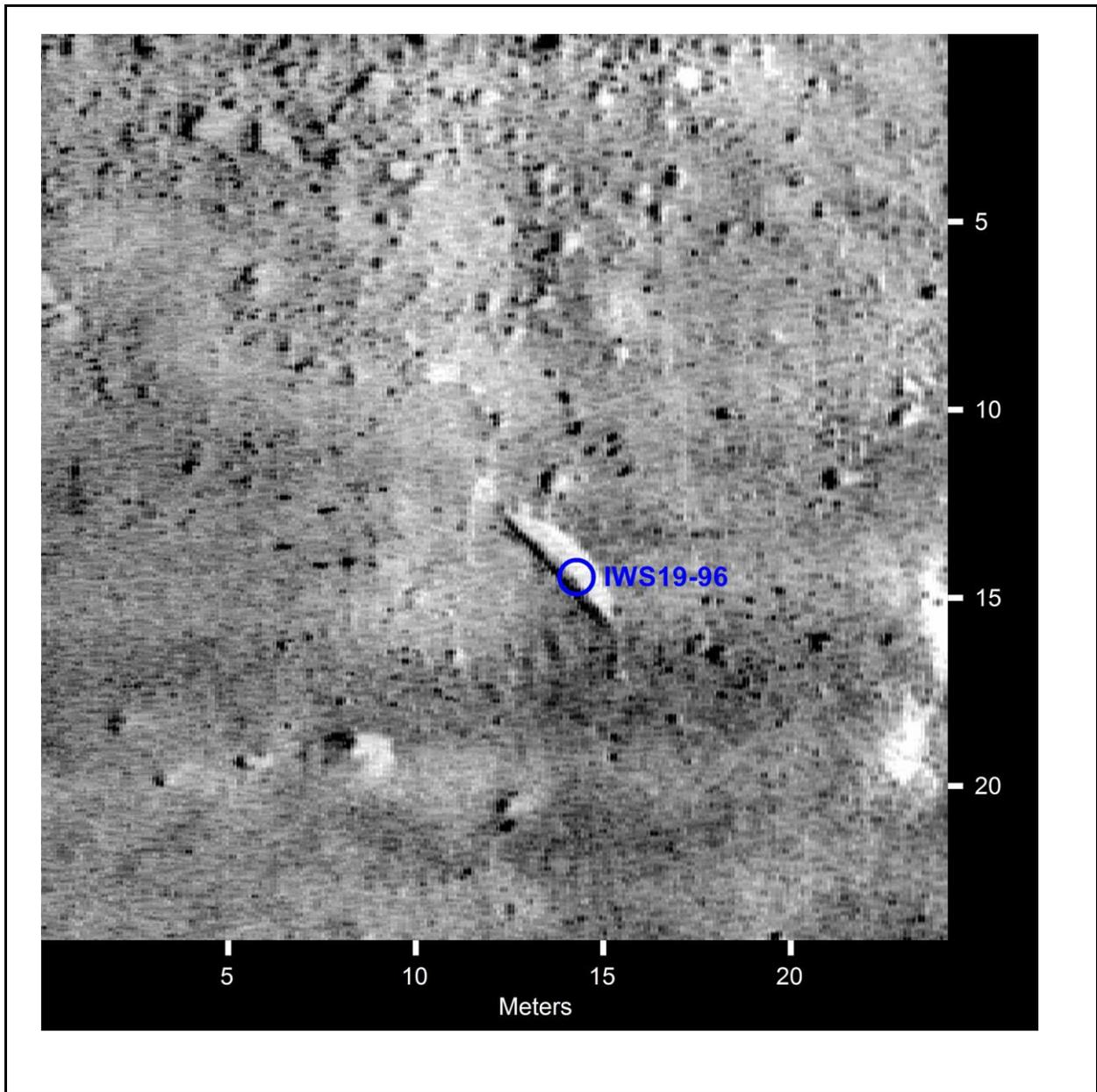
- Sonar Time at Target: 7/1/2019 6:14:08 PM
- Position  
42.4365534460 -70.5944035865 (WGS84)  
(X) 274510.93 (Y) 909954.51 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_180516\_10467.20190701\_233234.xtf
- Ping Number: 28386
- Range to target: 46.29 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.88 Meters
- Target Height: 0.00 Meters
- Target Length: 1.39 Meters
- Target Shadow: 0.00 Meters
- Classification1: Trap
- Description: Traps and trawl line

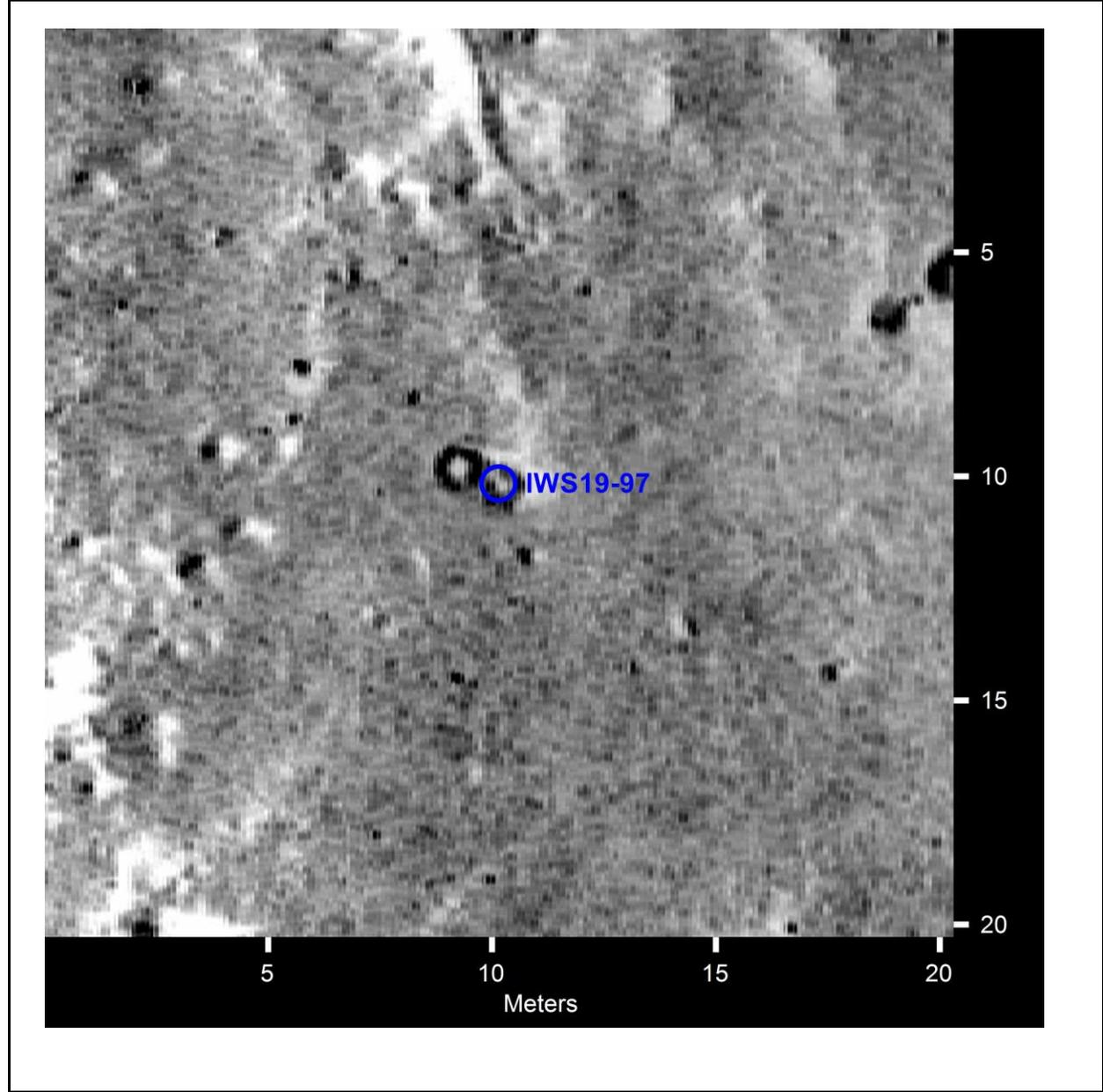


<p><b>IWS19-95</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:17:52 PM</li><li>• Position 42.4378023818 -70.5904507150 (WGS84) (X) 274834.67 (Y) 910096.69 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 40094</li><li>• Range to target: 33.72 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 4.07 Meters</li><li>• Target Height: 0.26 Meters</li><li>• Target Length: 9.26 Meters</li><li>• Target Shadow: 5.08 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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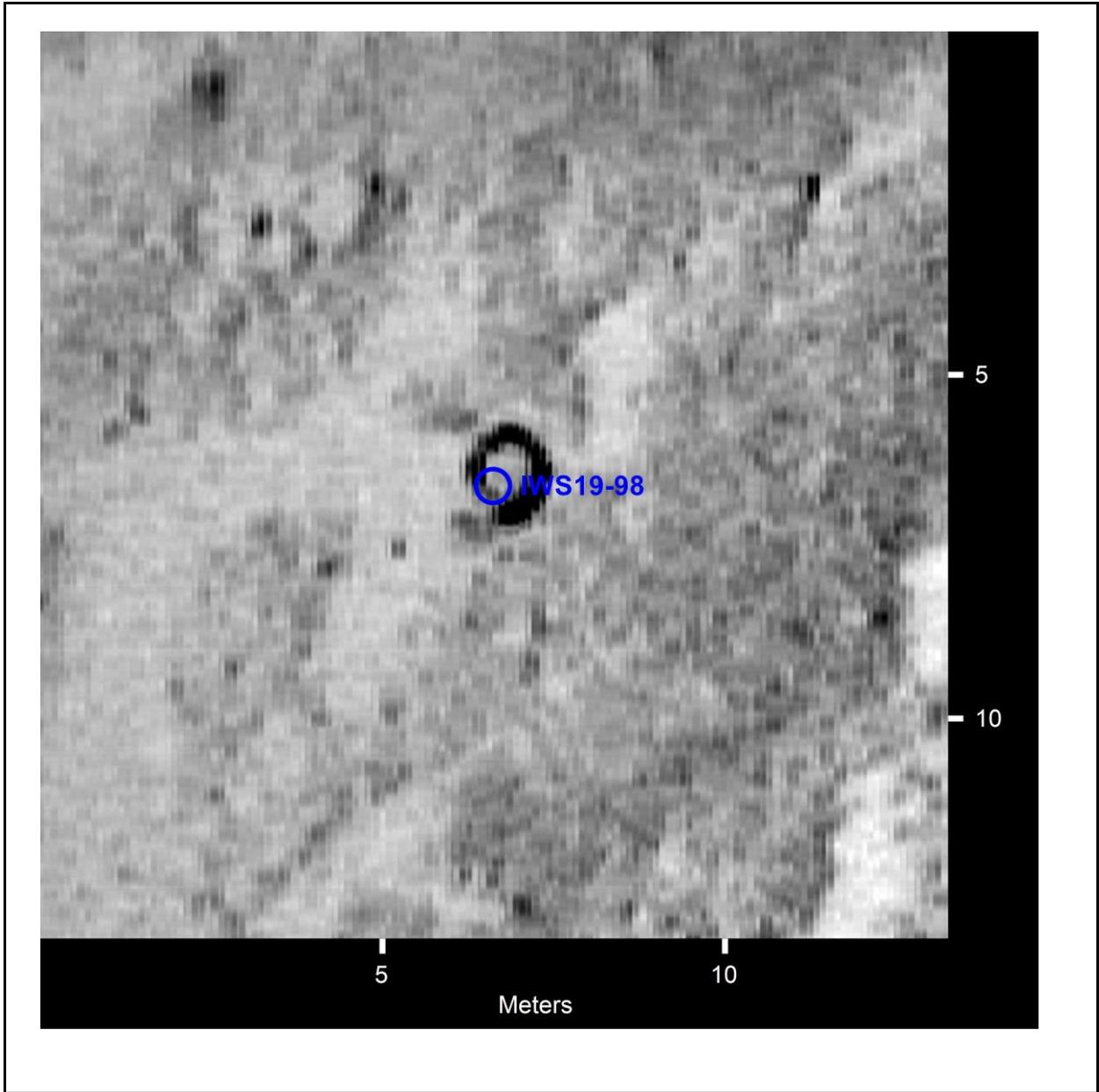


Appendix C – IWS Contact Report

<p><b>IWS19-96</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:22:05 PM</li><li>• Position 42.4390969468 -70.5860242956 (WGS84) (X) 275197.31 (Y) 910244.37 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 53091</li><li>• Range to target: 30.98 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.35 Meters</li><li>• Target Height: 0.03 Meters</li><li>• Target Length: 4.27 Meters</li><li>• Target Shadow: 0.54 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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<p><b>IWS19-97</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:25:15 PM</li><li>• Position 42.4398414704 -70.5826050107 (WGS84) (X) 275477.73 (Y) 910330.09 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_180516_10467.20190701_233234.xtf</li><li>• Ping Number: 62814</li><li>• Range to target: 54.87 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.98 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 1.94 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: tires</li><li>• Description: Pair of tires</li></ul>
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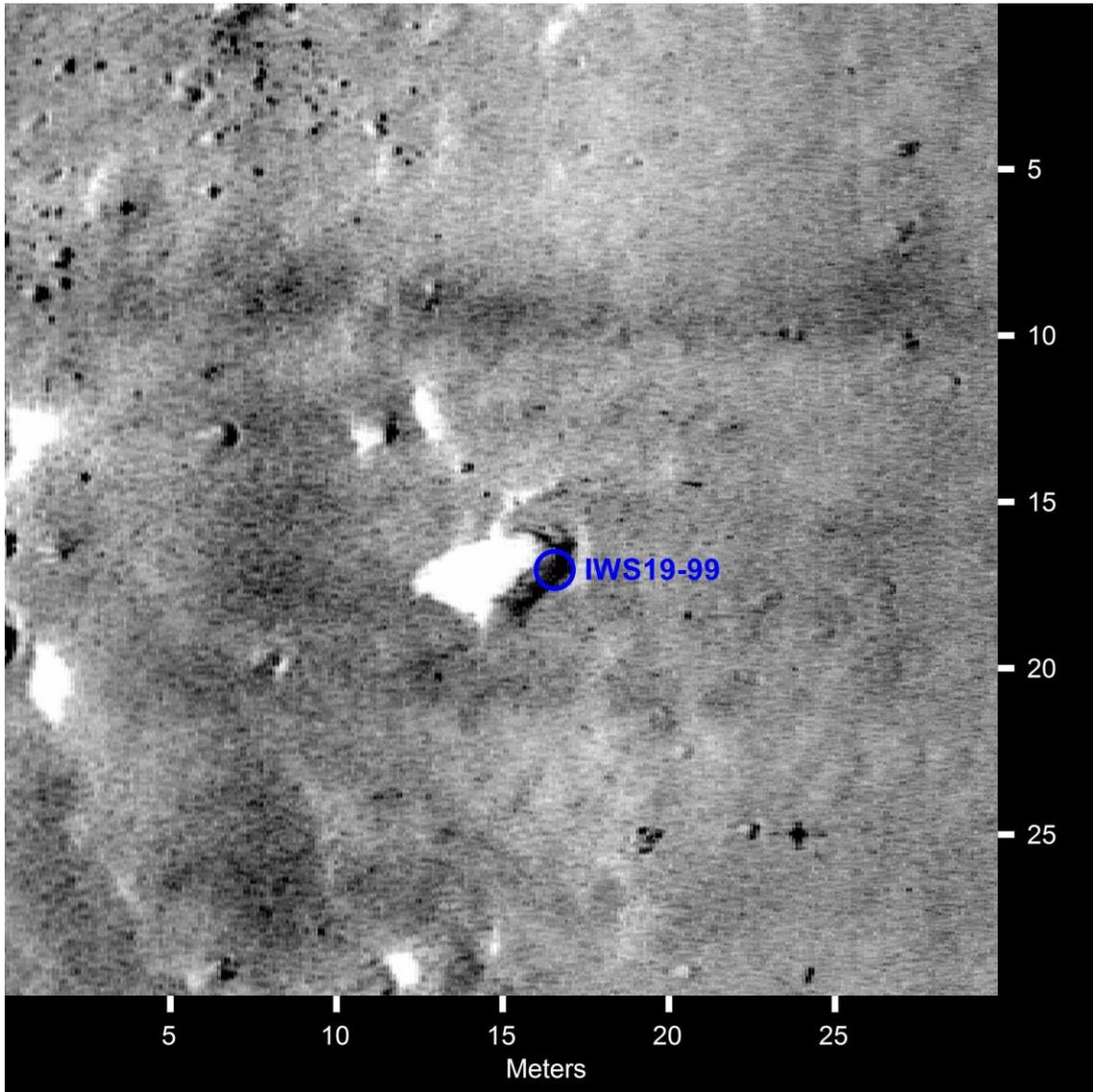


**IWS19-98**

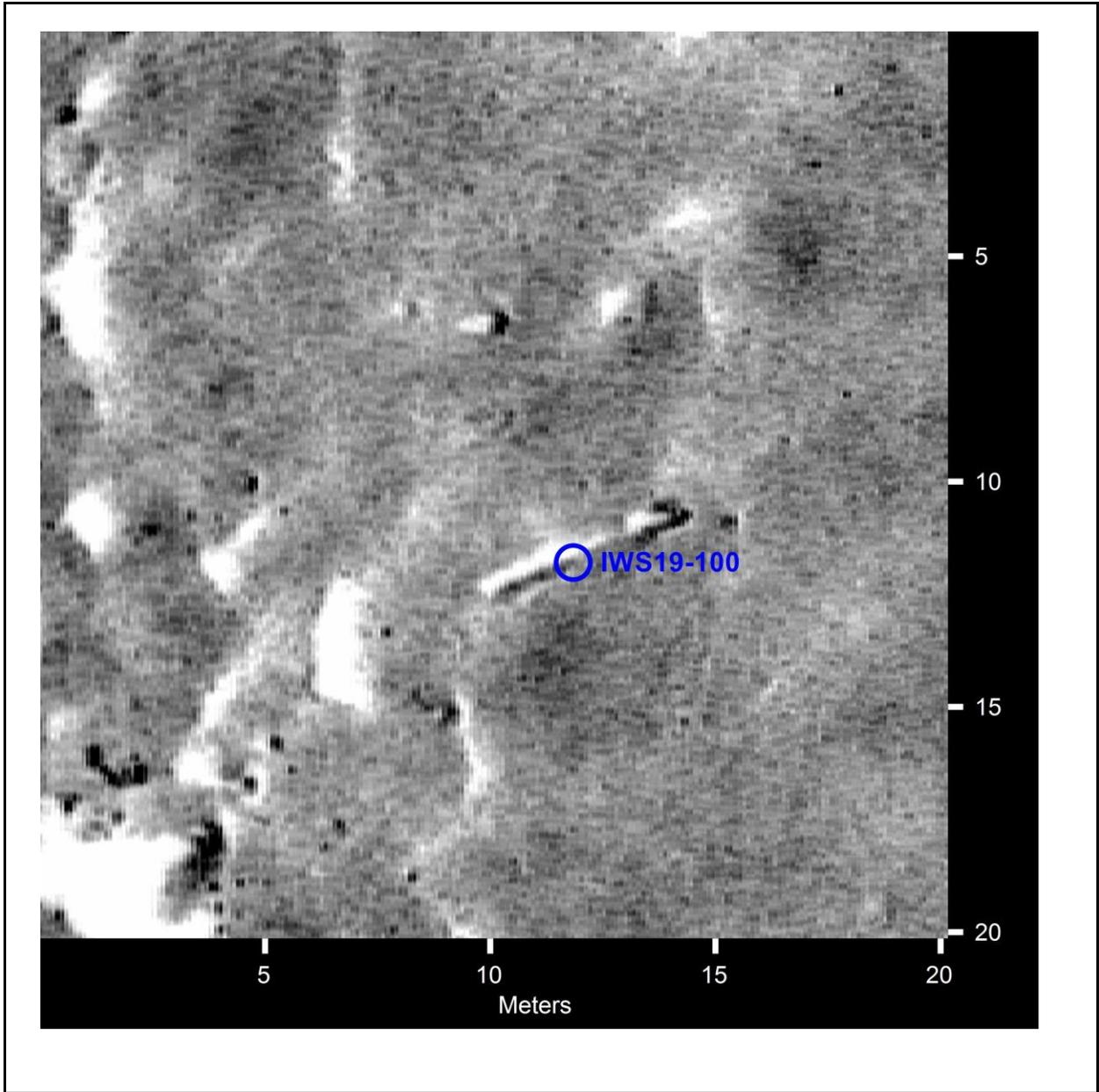
- Sonar Time at Target: 7/1/2019 6:36:48 PM
- Position  
42.4407686087 -70.5811179193 (WGS84)  
(X) 275598.97 (Y) 910434.39 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_183208\_10981.20190701\_235009.xtf
- Ping Number: 14698
- Range to target: 68.36 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.21 Meters
- Target Height: 0.12 Meters
- Target Length: 1.48 Meters
- Target Shadow: 4.40 Meters
- Classification1: tires
- Description:



<p><b>IWS19-99</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:38:56 PM</li><li>• Position 42.4404846462 -70.5834402511 (WGS84) (X) 275408.25 (Y) 910400.79 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_183208_10981.20190701_235009.xtf</li><li>• Ping Number: 21001</li><li>• Range to target: 28.92 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.65 Meters</li><li>• Target Height: 0.25 Meters</li><li>• Target Length: 2.55 Meters</li><li>• Target Shadow: 4.24 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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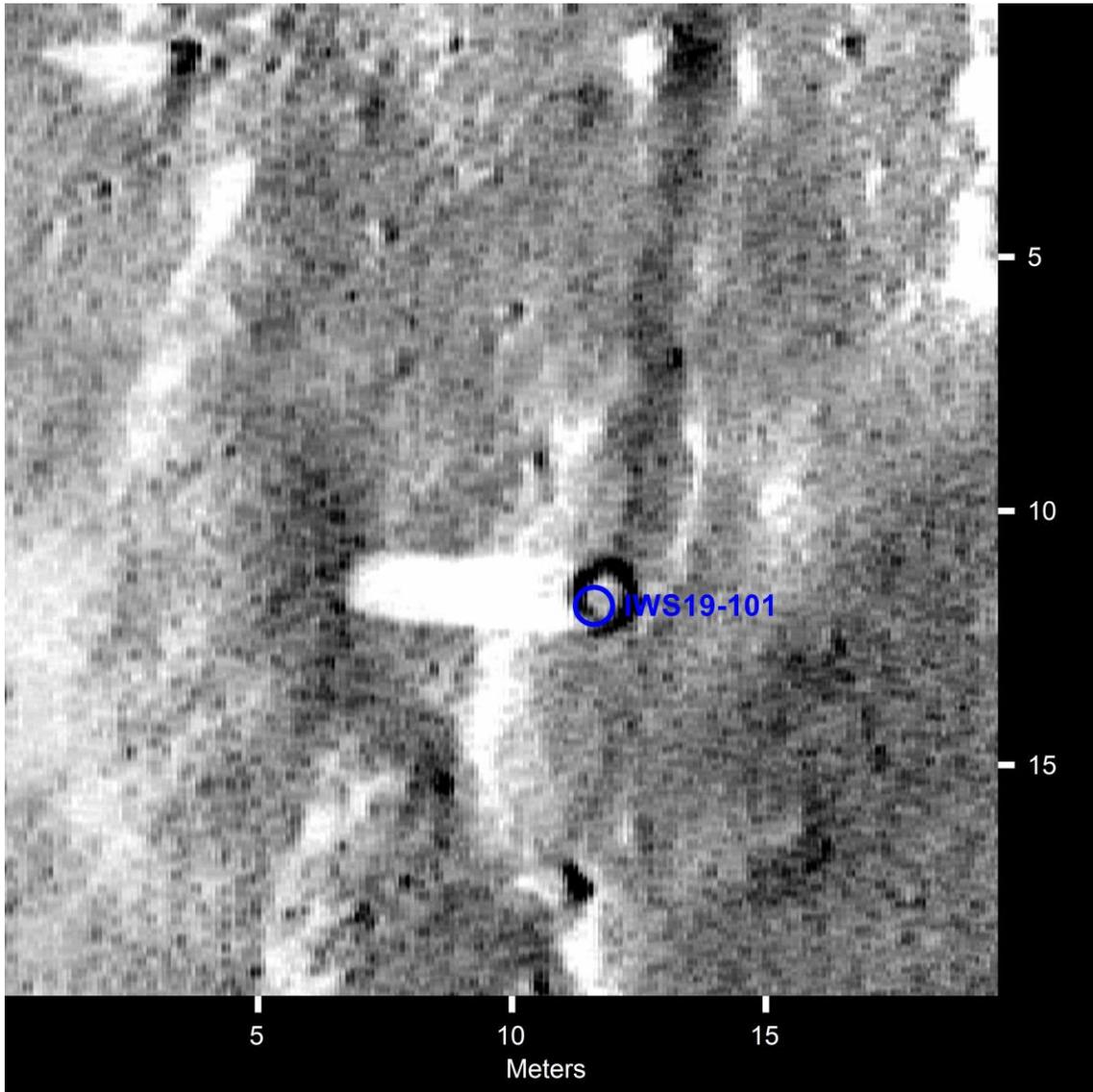
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**IWS19-100**

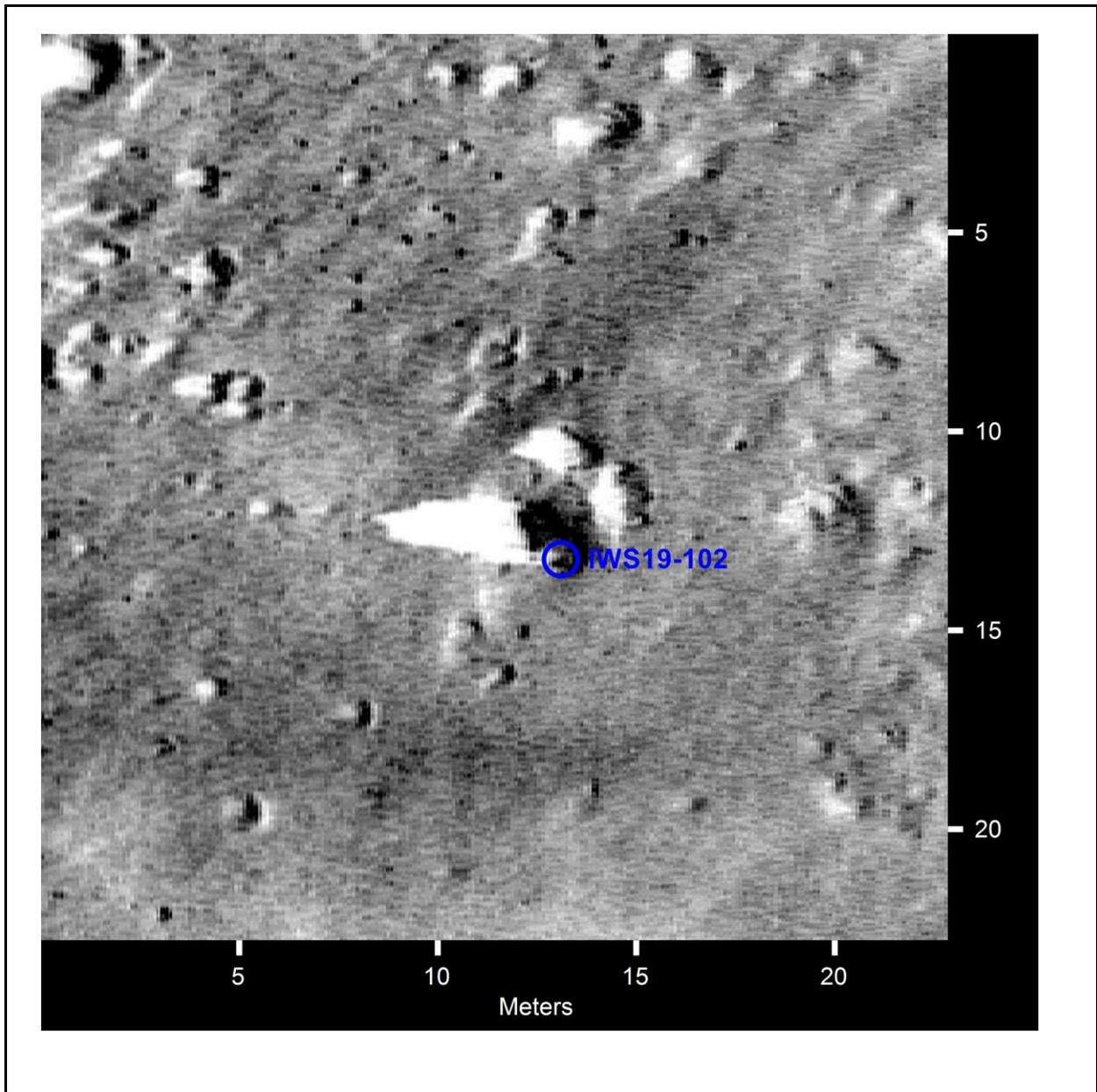
- Sonar Time at Target: 7/1/2019 6:40:01 PM
- Position  
42.4400765495 -70.5844635732 (WGS84)  
(X) 275324.55 (Y) 910354.56 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_183208\_10981.20190701\_235009.xtf
- Ping Number: 24112
- Range to target: 40.92 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.42 Meters
- Target Height: 0.00 Meters
- Target Length: 4.78 Meters
- Target Shadow: 0.16 Meters
- Classification1: debris
- Description:



<p><b>IWS19-101</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:41:32 PM</li><li>• Position 42.4395660673 -70.5859585315 (WGS84) (X) 275202.16 (Y) 910296.54 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_183208_10981.20190701_235009.xtf</li><li>• Ping Number: 28623</li><li>• Range to target: 49.50 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.36 Meters</li><li>• Target Height: 0.19 Meters</li><li>• Target Length: 1.44 Meters</li><li>• Target Shadow: 5.08 Meters</li><li>• Classification1: tires</li><li>• Description:</li></ul>
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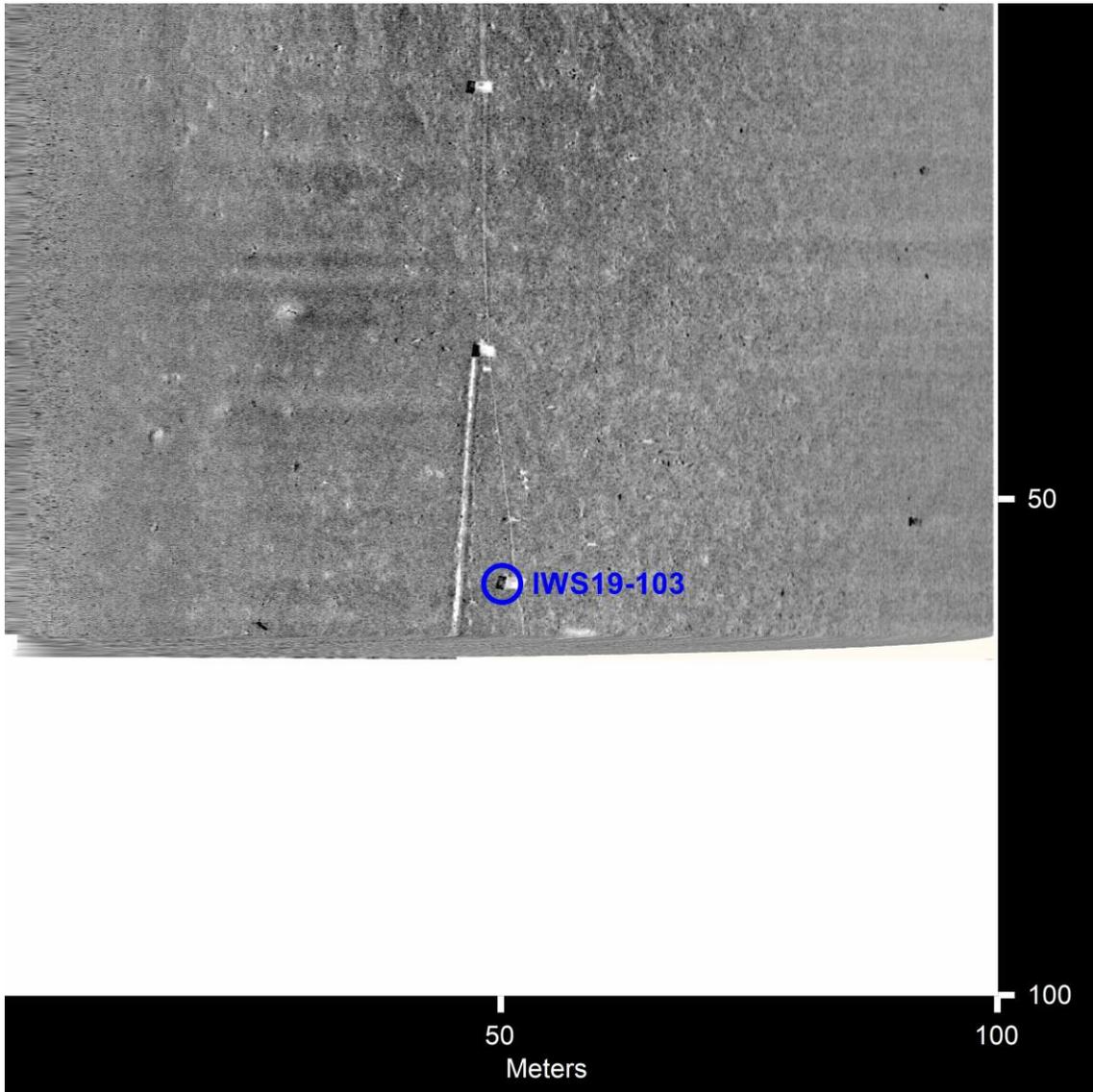


**IWS19-102**

- Sonar Time at Target: 7/1/2019 6:50:53 PM
- Position  
42.4370599514 -70.5954814272 (WGS84)  
(X) 274421.65 (Y) 910009.83 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_183208\_10981.20190701\_235009.xtf
- Ping Number: 56158
- Range to target: 27.21 Meters
- Fish Height: 1.95 Meters

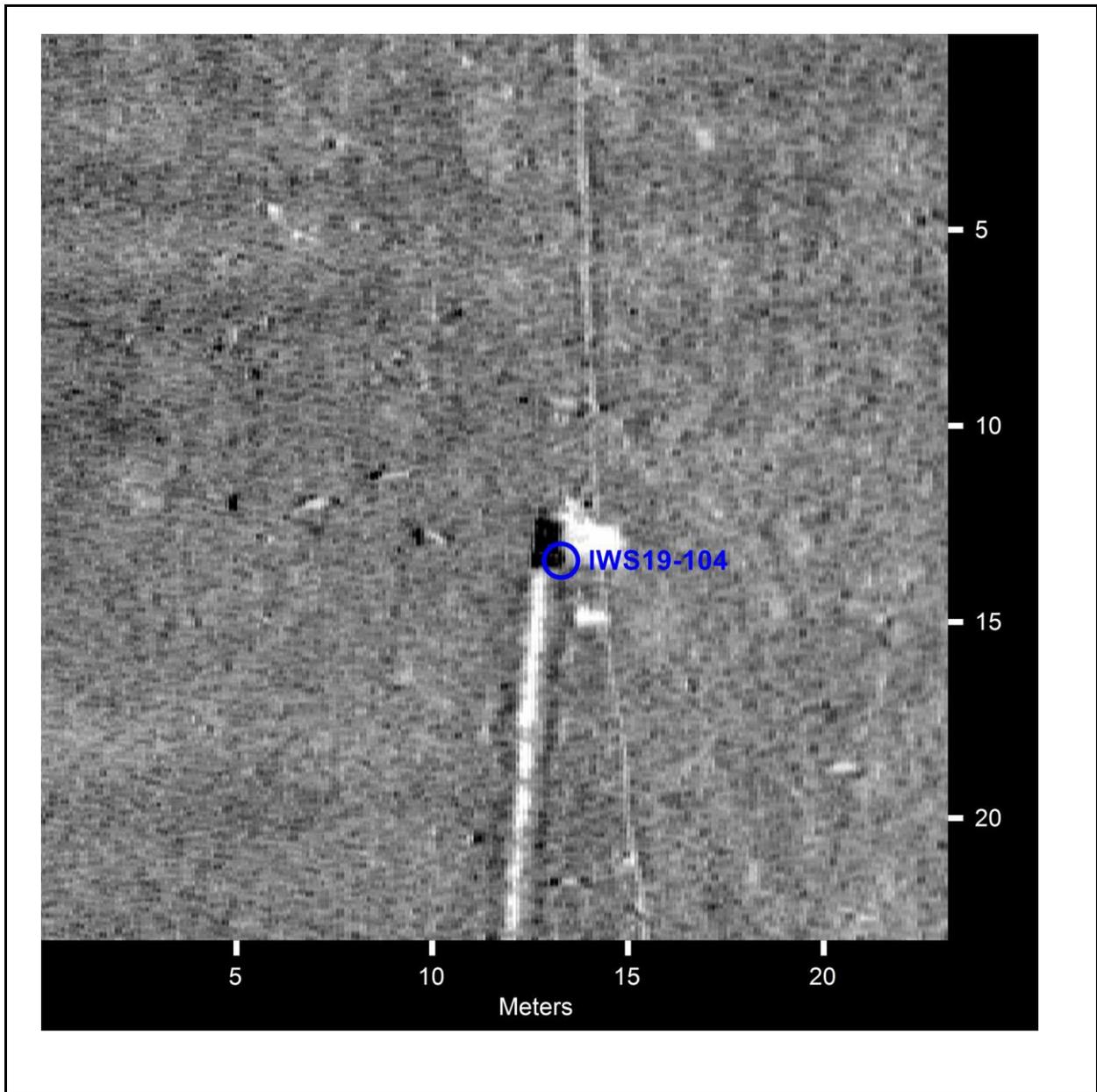
**Dimensions and attributes**

- Target Width: 1.26 Meters
- Target Height: 0.25 Meters
- Target Length: 1.97 Meters
- Target Shadow: 4.03 Meters
- Classification1: debris
- Description: Low confidence



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<p><b>IWS19-103</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:59:16 PM</li><li>• Position 42.4353289021 -70.6041018166 (WGS84) (X) 273714.44 (Y) 909810.07 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_183208_10981.20190701_235009.xtf</li><li>• Ping Number: 80386</li><li>• Range to target: 48.81 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.70 Meters</li><li>• Target Height: 0.08 Meters</li><li>• Target Length: 1.25 Meters</li><li>• Target Shadow: 2.17 Meters</li><li>• Classification1: Trap</li><li>• Description: String of traps</li></ul>
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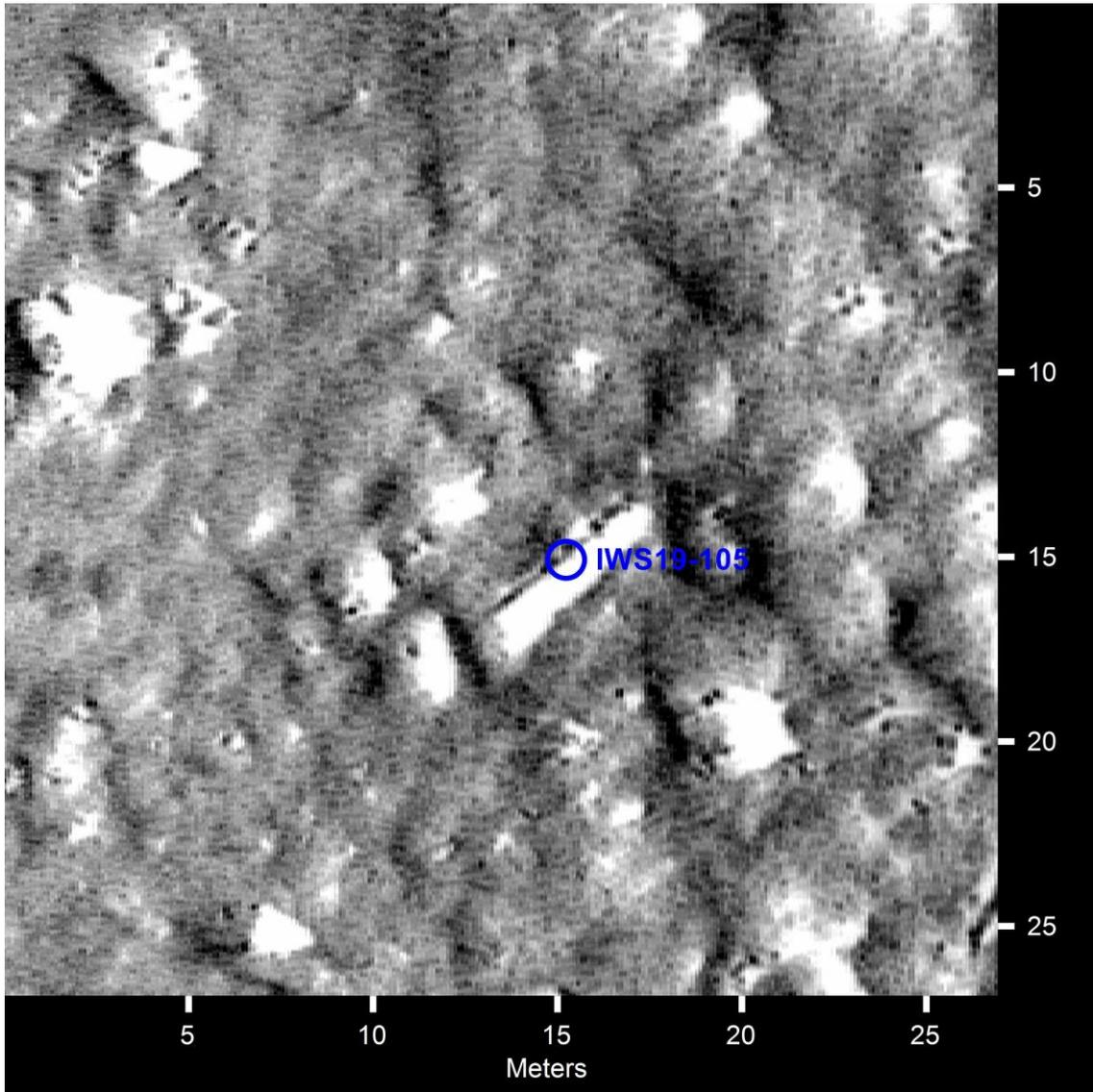


**IWS19-104**

- Sonar Time at Target: 7/1/2019 6:59:00 PM
- Position  
42.4353845154 -70.6038300432 (WGS84)  
(X) 273736.73 (Y) 909816.48 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_183208\_10981.20190701\_235009.xtf
- Ping Number: 79619
- Range to target: 46.52 Meters
- Fish Height: 1.95 Meters

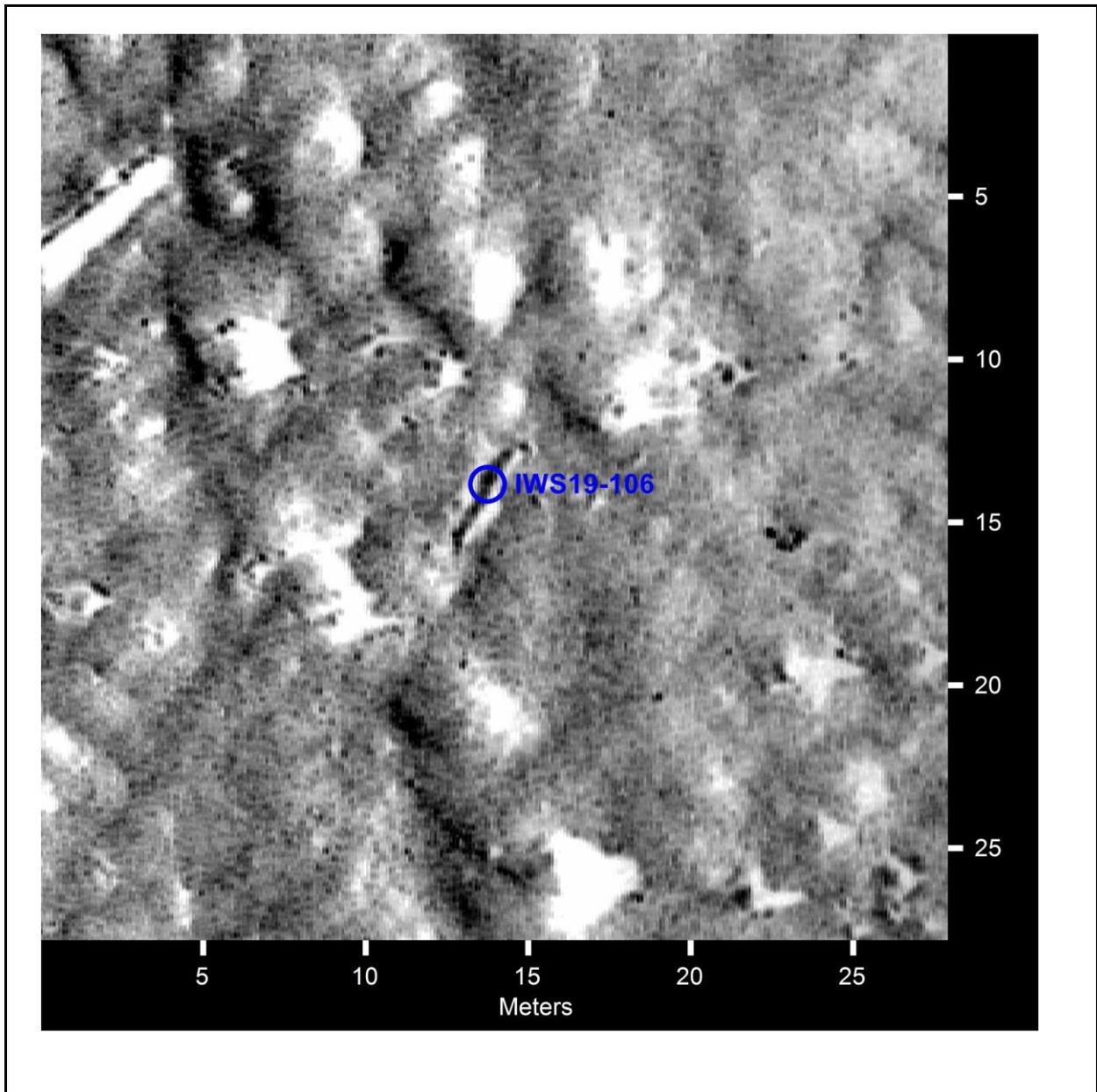
**Dimensions and attributes**

- Target Width: 0.75 Meters
- Target Height: 0.07 Meters
- Target Length: 1.32 Meters
- Target Shadow: 1.83 Meters
- Classification1: Trap
- Description: String of traps



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<p><b>IWS19-105</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:35:32 PM</li><li>• Position 42.4421003450 -70.5803062153 (WGS84) (X) 275664.15 (Y) 910583.03 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_183208_10981.20190701_235009.xtf</li><li>• Ping Number: 10850</li><li>• Range to target: 45.84 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.90 Meters</li><li>• Target Height: 0.07 Meters</li><li>• Target Length: 6.05 Meters</li><li>• Target Shadow: 1.69 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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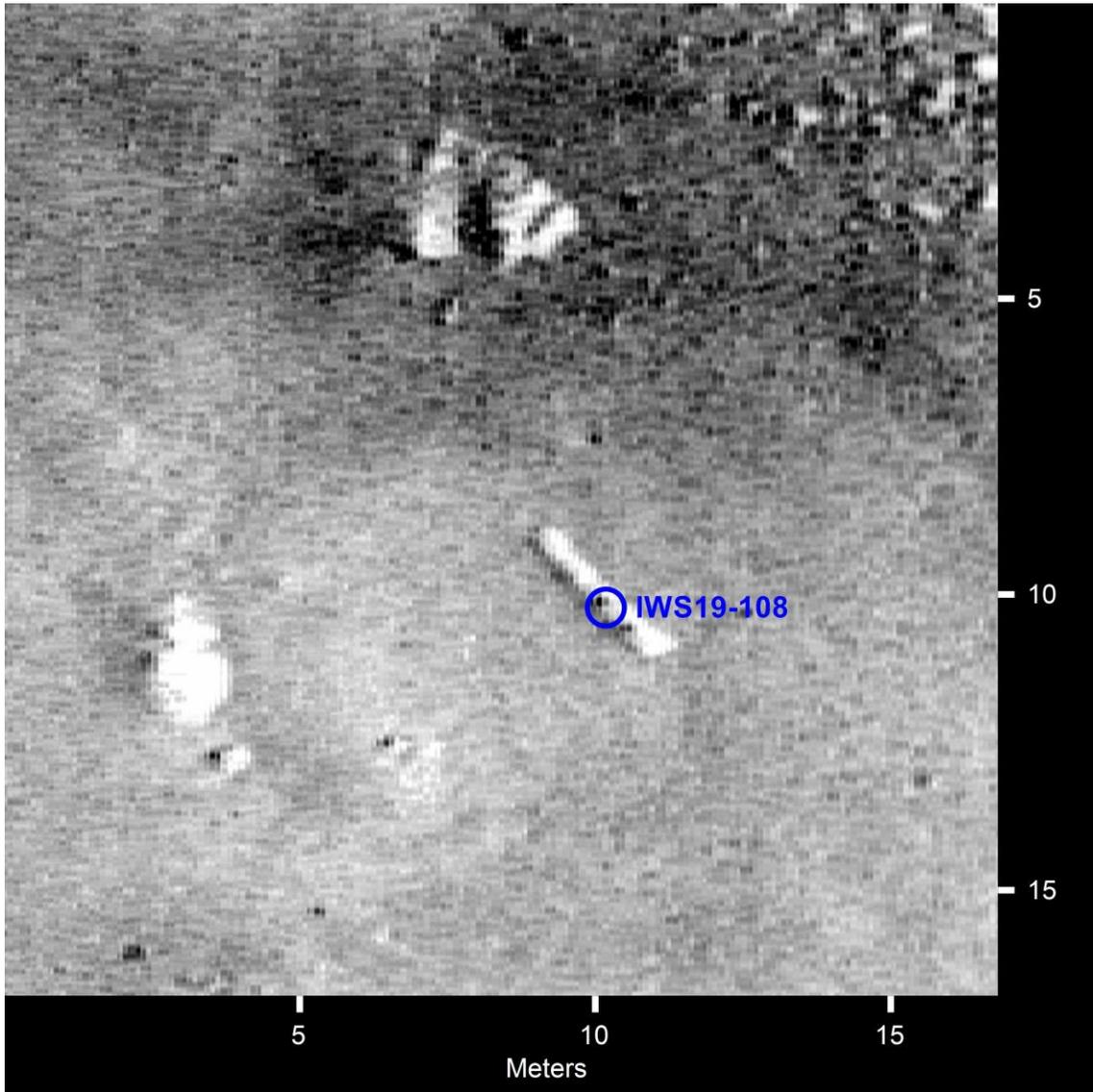
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**IWS19-106**

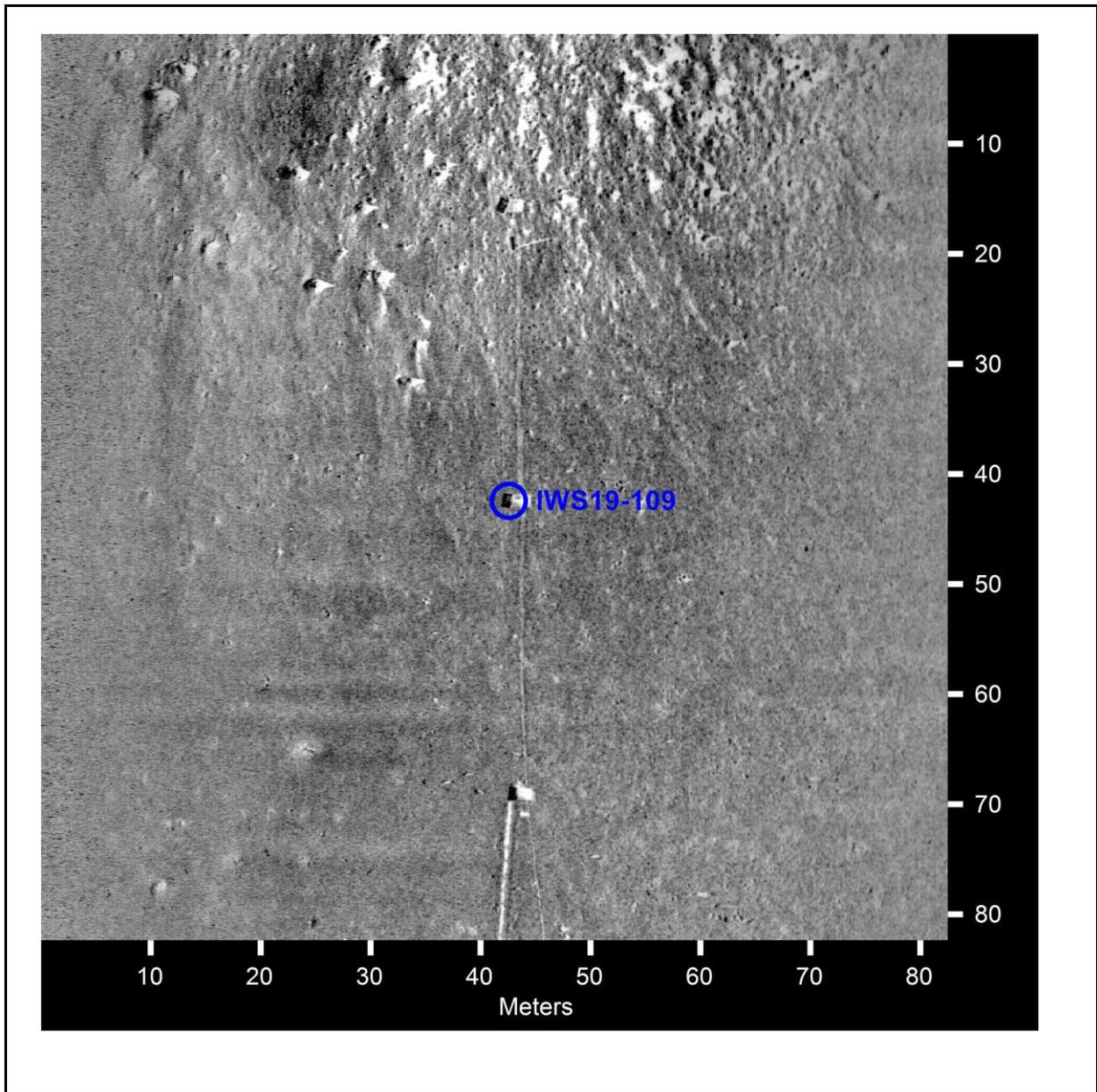
- Sonar Time at Target: 7/1/2019 6:35:37 PM
- Position  
42.4421735200 -70.5804565254 (WGS84)  
(X) 275651.70 (Y) 910591.02 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_183208\_10981.20190701\_235009.xtf
- Ping Number: 11136
- Range to target: 57.84 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.69 Meters
- Target Height: 0.01 Meters
- Target Length: 3.91 Meters
- Target Shadow: 0.40 Meters
- Classification1: debris
- Description:



<p><b>IWS19-108</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:40:28 PM</li><li>• Position 42.4405513397 -70.5852485845 (WGS84) (X) 275259.40 (Y) 910406.60 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_183208_10981.20190701_235009.xtf</li><li>• Ping Number: 25488</li><li>• Range to target: 31.43 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.48 Meters</li><li>• Target Height: 0.04 Meters</li><li>• Target Length: 2.99 Meters</li><li>• Target Shadow: 0.61 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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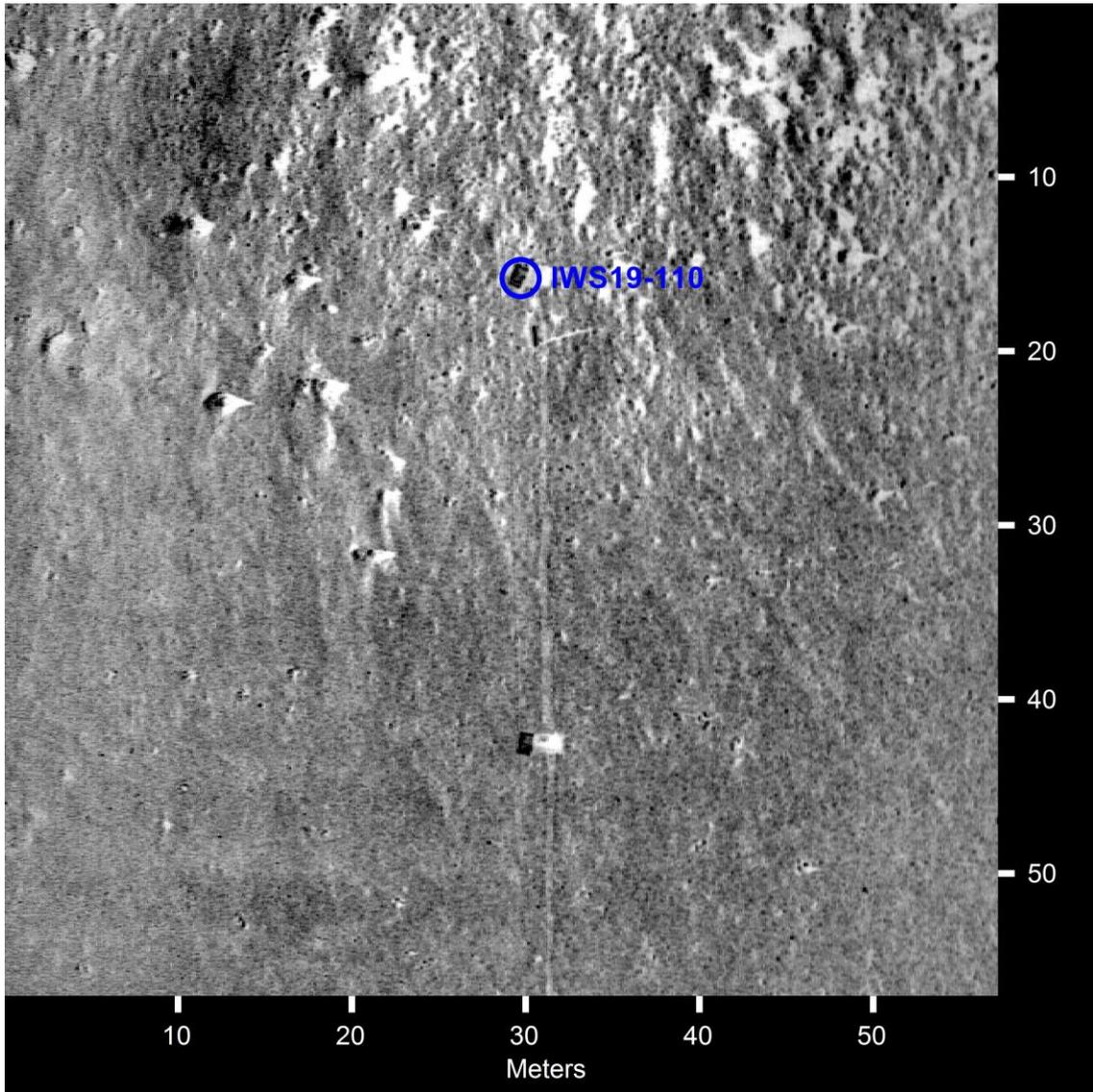


**IWS19-109**

- Sonar Time at Target: 7/1/2019 6:58:42 PM
- Position  
42.4354662387 -70.6035202161 (WGS84)  
(X) 273762.13 (Y) 909825.82 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_183208\_10981.20190701\_235009.xtf
- Ping Number: 78723
- Range to target: 45.84 Meters
- Fish Height: 1.95 Meters

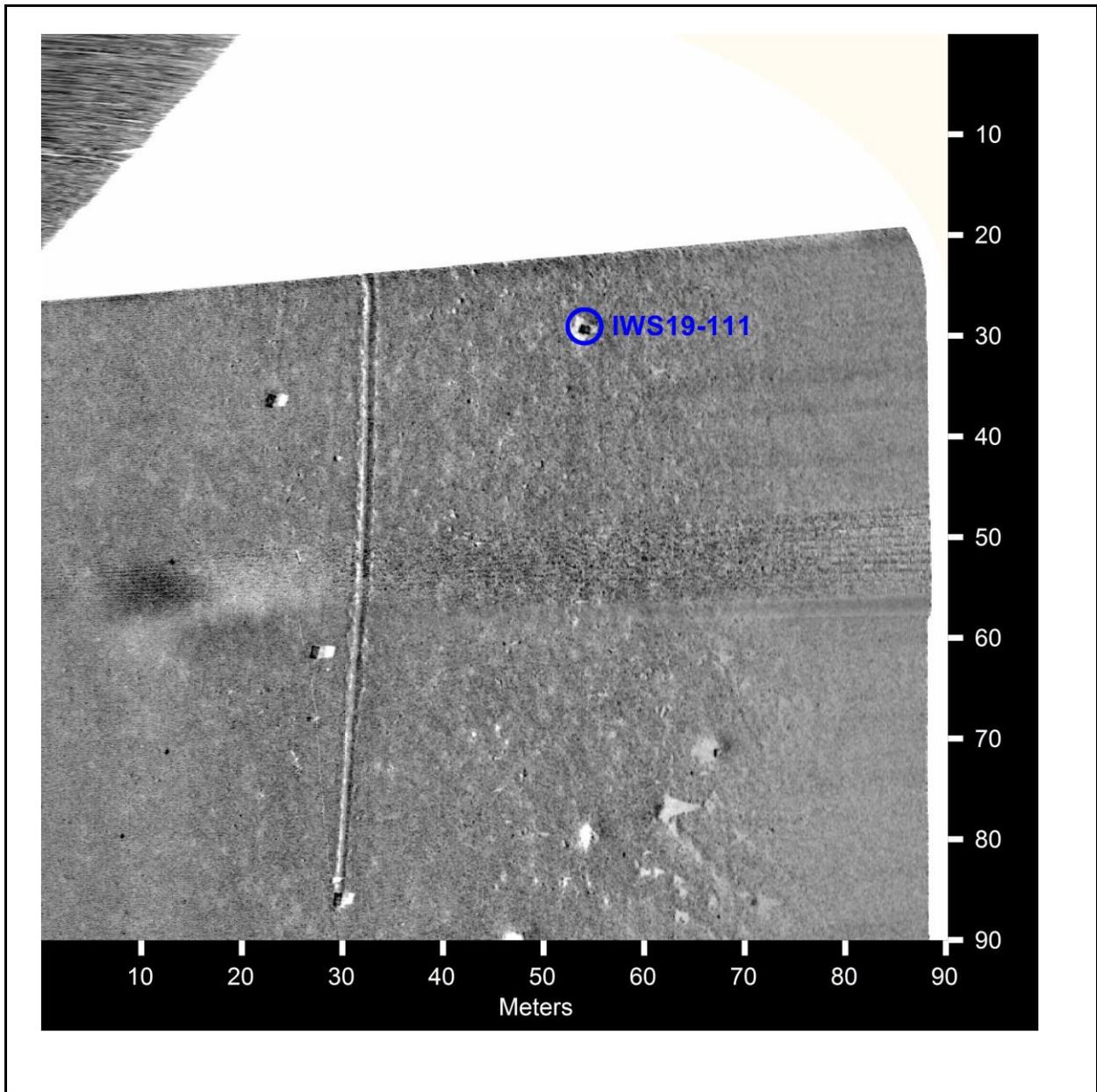
**Dimensions and attributes**

- Target Width: 0.78 Meters
- Target Height: 0.06 Meters
- Target Length: 1.34 Meters
- Target Shadow: 1.68 Meters
- Classification1: Trap
- Description: String of traps



Appendix C – IWS Contact Report

<p><b>IWS19-110</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 6:58:23 PM</li><li>• Position 42.4355485948 -70.6032163229 (WGS84) (X) 273787.03 (Y) 909835.24 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_183208_10981.20190701_235009.xtf</li><li>• Ping Number: 77834</li><li>• Range to target: 45.38 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.60 Meters</li><li>• Target Height: 0.07 Meters</li><li>• Target Length: 1.23 Meters</li><li>• Target Shadow: 1.81 Meters</li><li>• Classification1: Trap</li><li>• Description: String of traps</li></ul>
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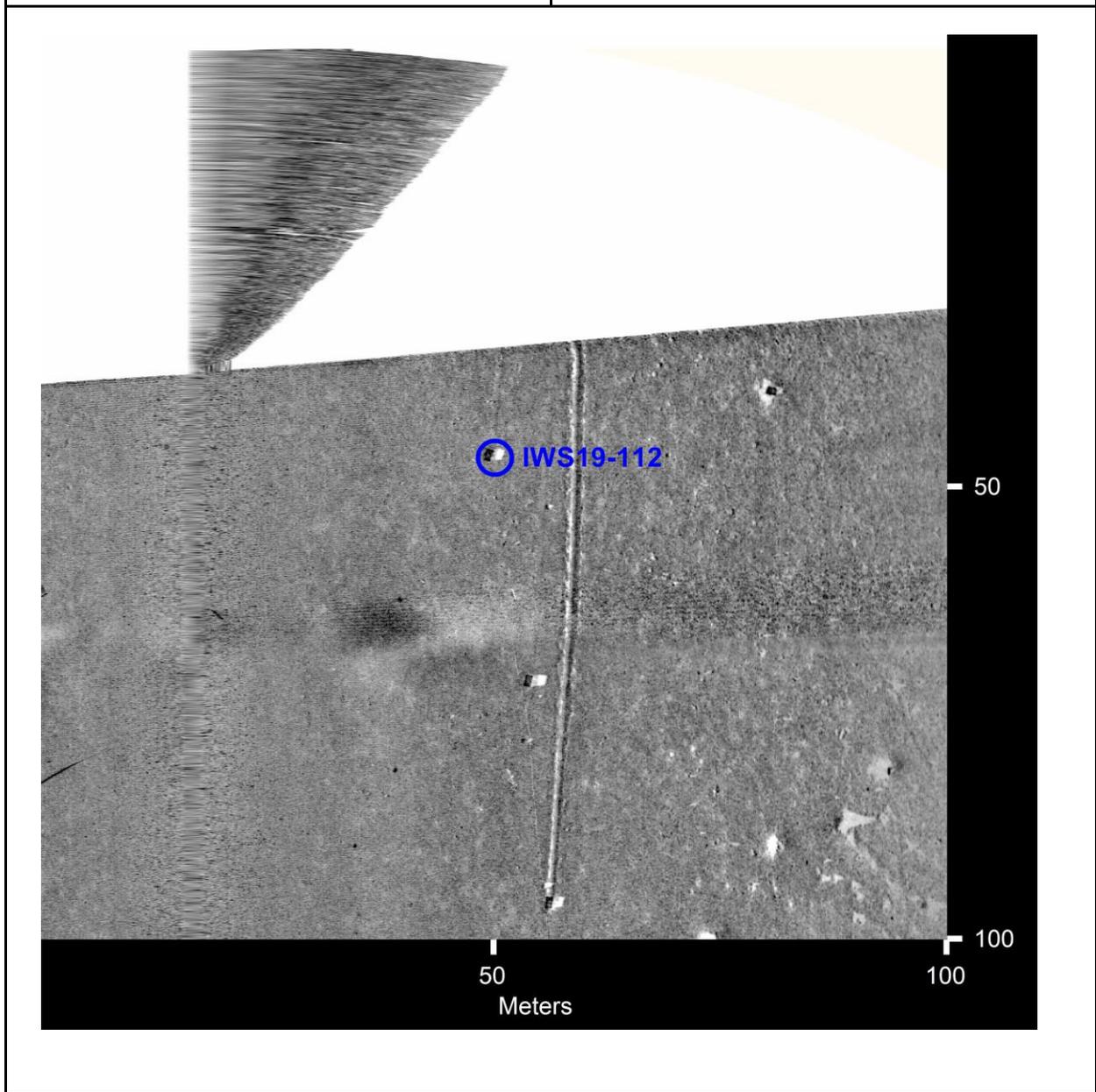
Appendix C – IWS Contact Report

**IWS19-111**

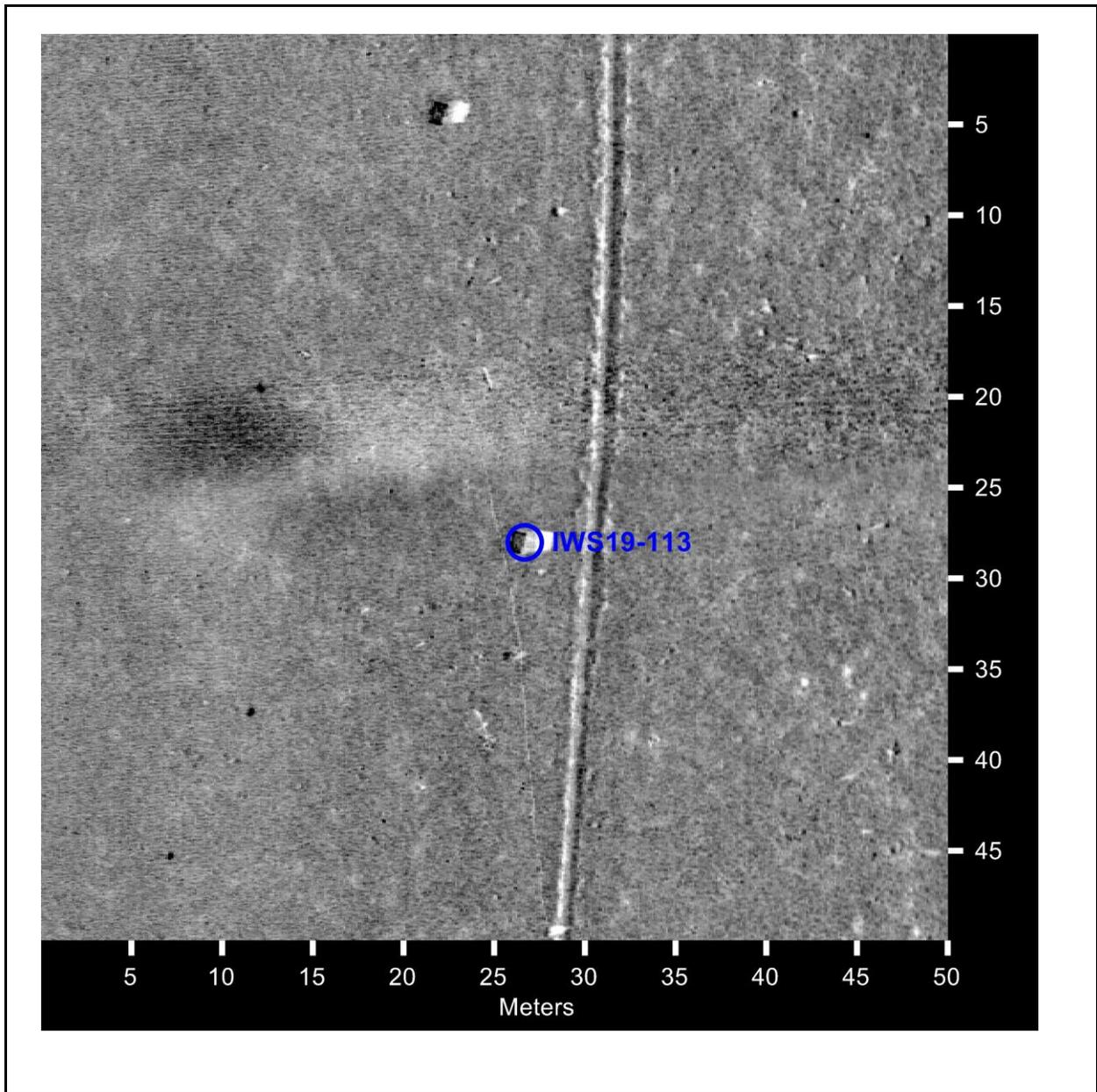
- Sonar Time at Target: 7/1/2019 7:10:27 PM
- Position  
42.4350521148 -70.6042273977 (WGS84)  
(X) 273704.43 (Y) 909779.22 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 1258
- Range to target: 63.90 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.83 Meters
- Target Height: 0.03 Meters
- Target Length: 1.34 Meters
- Target Shadow: 1.07 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-112</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:10:32 PM</li><li>• Position 42.4352908667 -70.6044002951 (WGS84) (X) 273689.92 (Y) 909805.59 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 1504</li><li>• Range to target: 33.38 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.85 Meters</li><li>• Target Height: 0.07 Meters</li><li>• Target Length: 1.31 Meters</li><li>• Target Shadow: 1.25 Meters</li><li>• Classification1: Trap</li><li>• Description: String of traps</li></ul>
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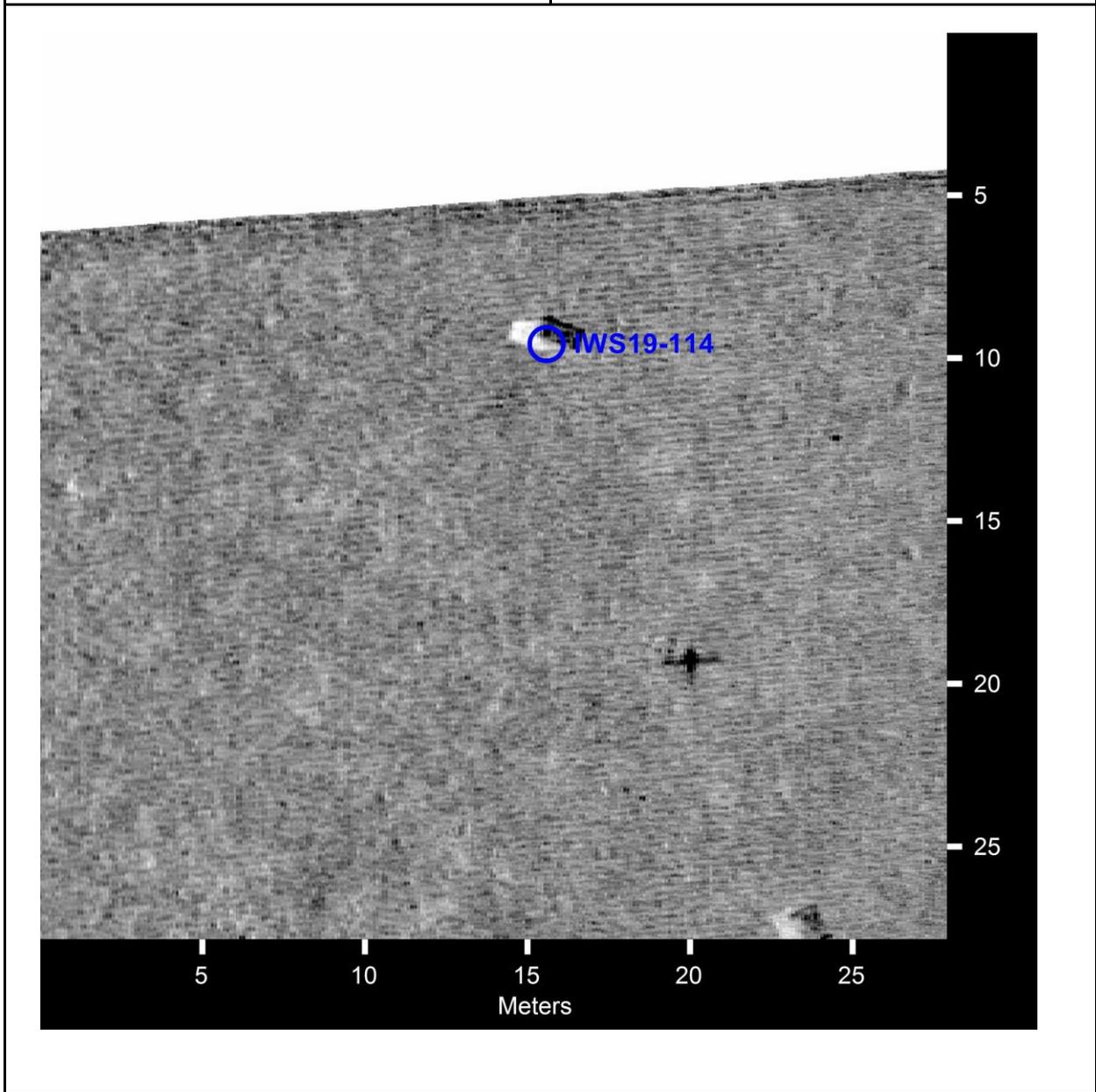


**IWS19-113**

- Sonar Time at Target: 7/1/2019 7:10:47 PM
- Position  
42.4353356760 -70.6041065653 (WGS84)  
(X) 273714.04 (Y) 909810.82 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 2299
- Range to target: 37.49 Meters
- Fish Height: 1.95 Meters

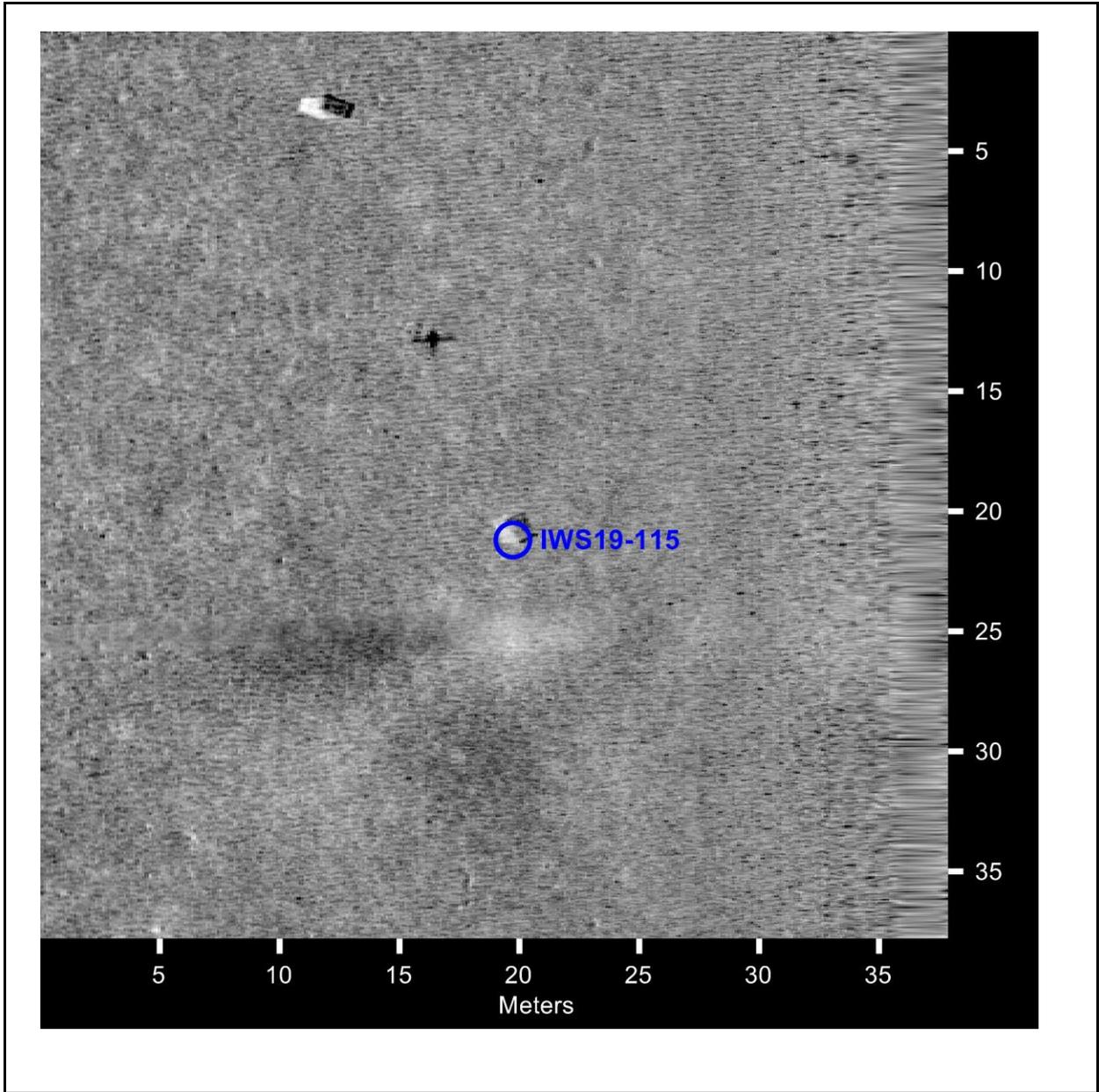
**Dimensions and attributes**

- Target Width: 0.74 Meters
- Target Height: 0.07 Meters
- Target Length: 1.28 Meters
- Target Shadow: 1.57 Meters
- Classification1: Trap
- Description: String of traps



Appendix C – IWS Contact Report

<p><b>IWS19-114</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:10:30 PM</li><li>• Position 42.4357704472 -70.6046876118 (WGS84) (X) 273665.72 (Y) 909858.61 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 1404</li><li>• Range to target: 24.80 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.88 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 1.34 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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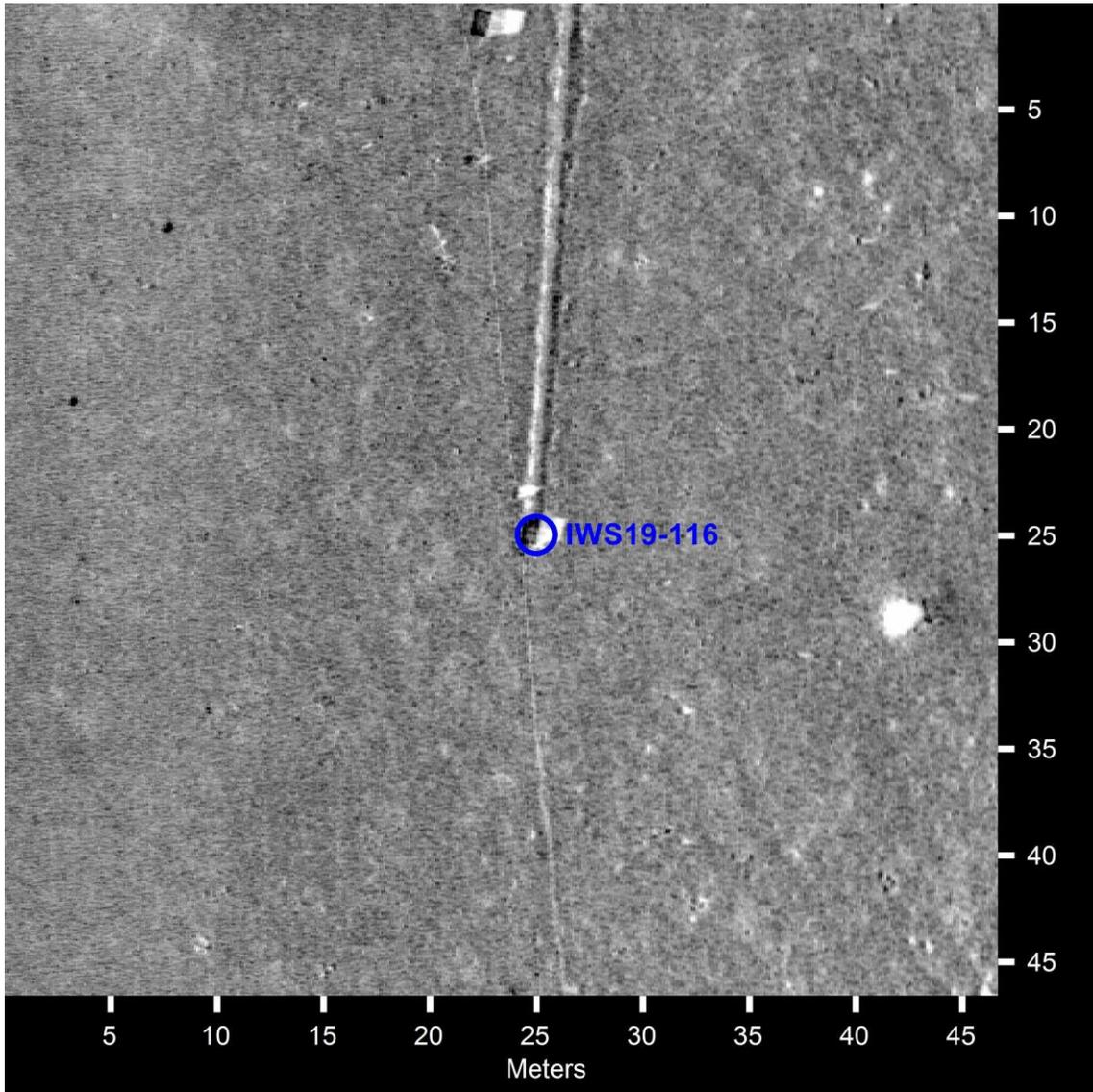
Appendix C – IWS Contact Report

**IWS19-115**

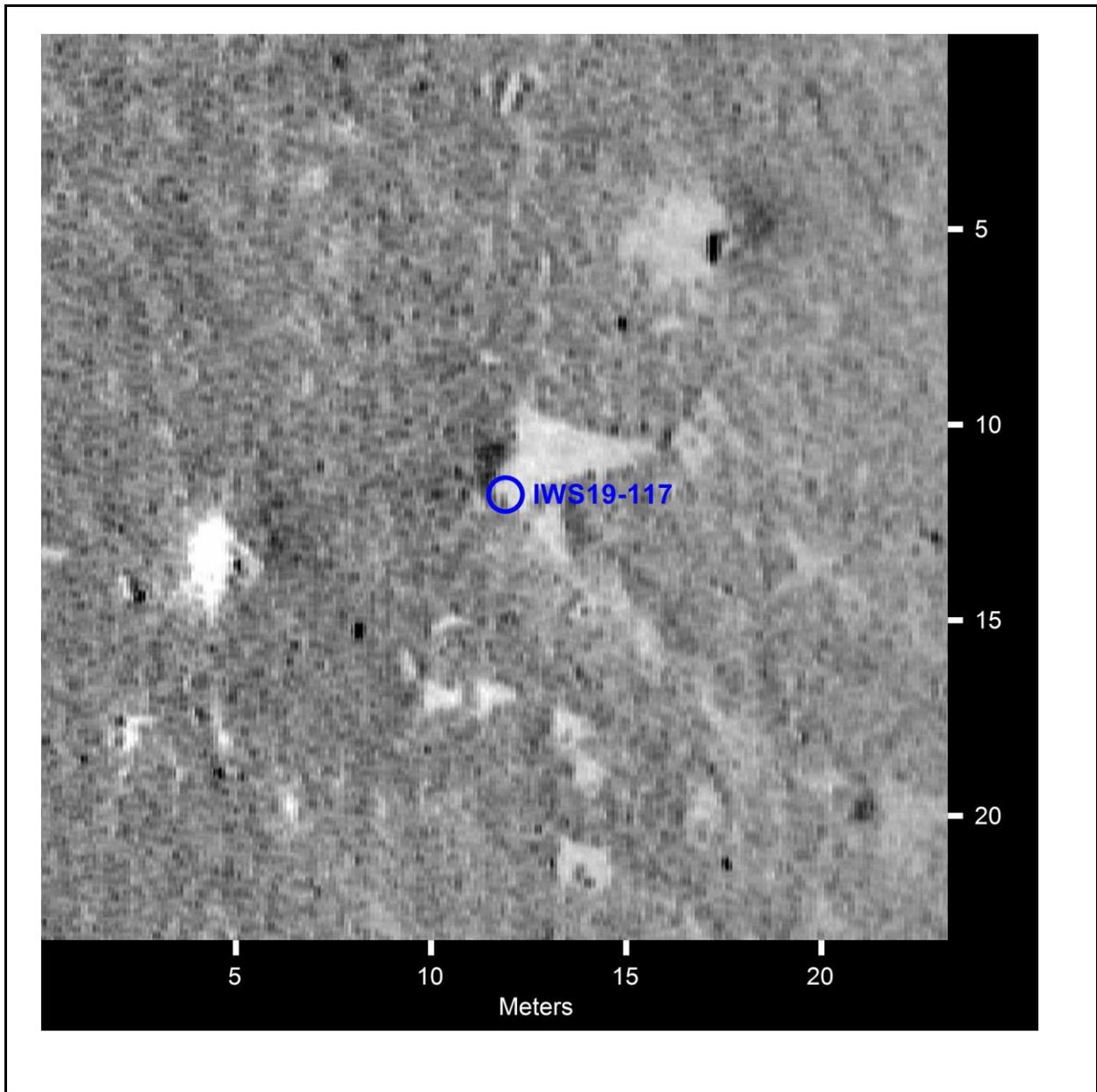
- Sonar Time at Target: 7/1/2019 7:10:41 PM
- Position  
42.4357644765 -70.6044478162 (WGS84)  
(X) 273685.46 (Y) 909858.15 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 1997
- Range to target: 17.03 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.62 Meters
- Target Height: 0.00 Meters
- Target Length: 1.29 Meters
- Target Shadow: 0.00 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-116</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:11:02 PM</li><li>• Position 42.4353933239 -70.6038281265 (WGS84) (X) 273736.88 (Y) 909817.46 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 3093</li><li>• Range to target: 39.67 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.74 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.29 Meters</li><li>• Target Shadow: 1.13 Meters</li><li>• Classification1: Trap</li><li>• Description: String of traps and anchor/grapple scour</li></ul>
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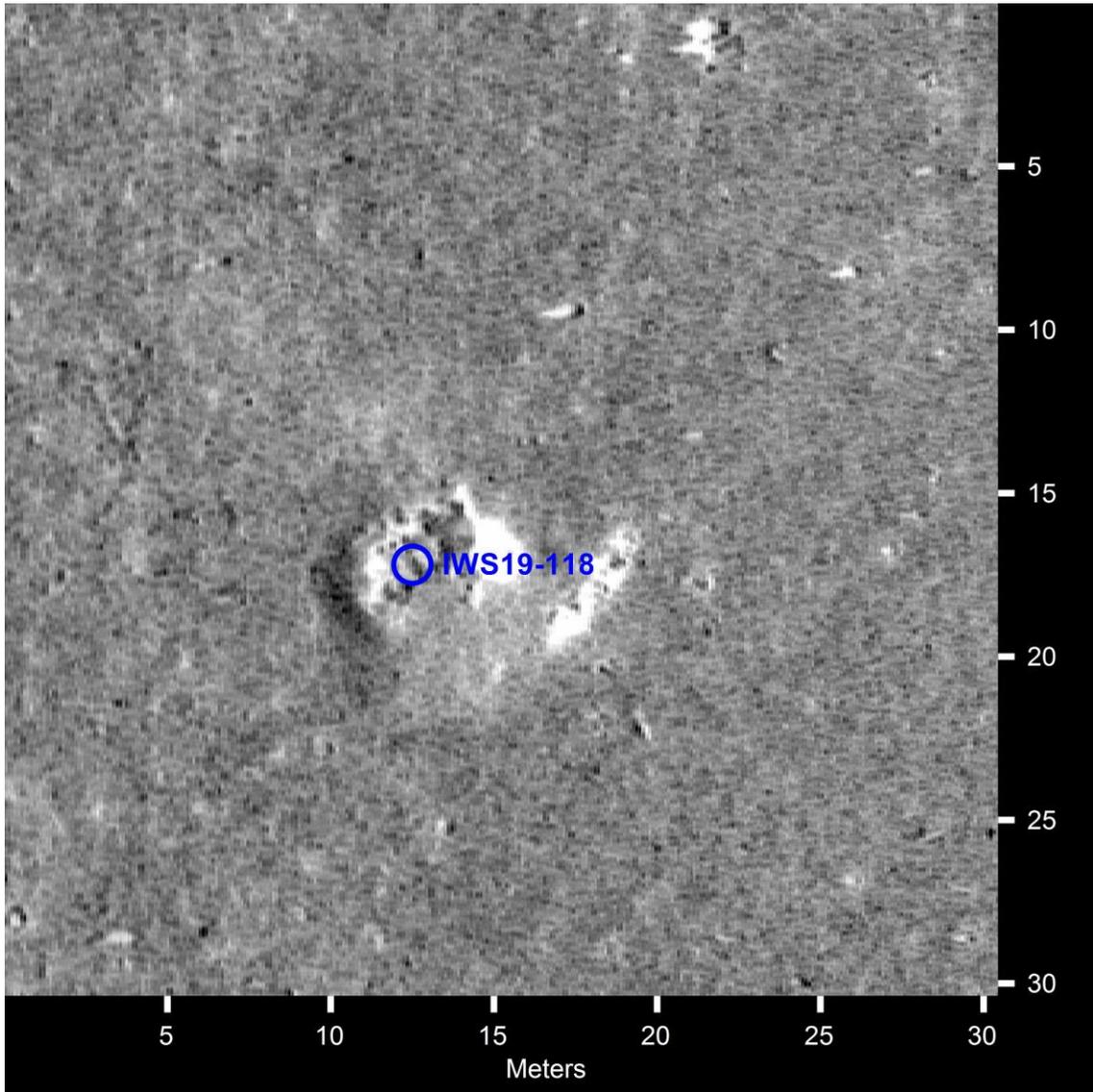
Appendix C – IWS Contact Report

**IWS19-117**

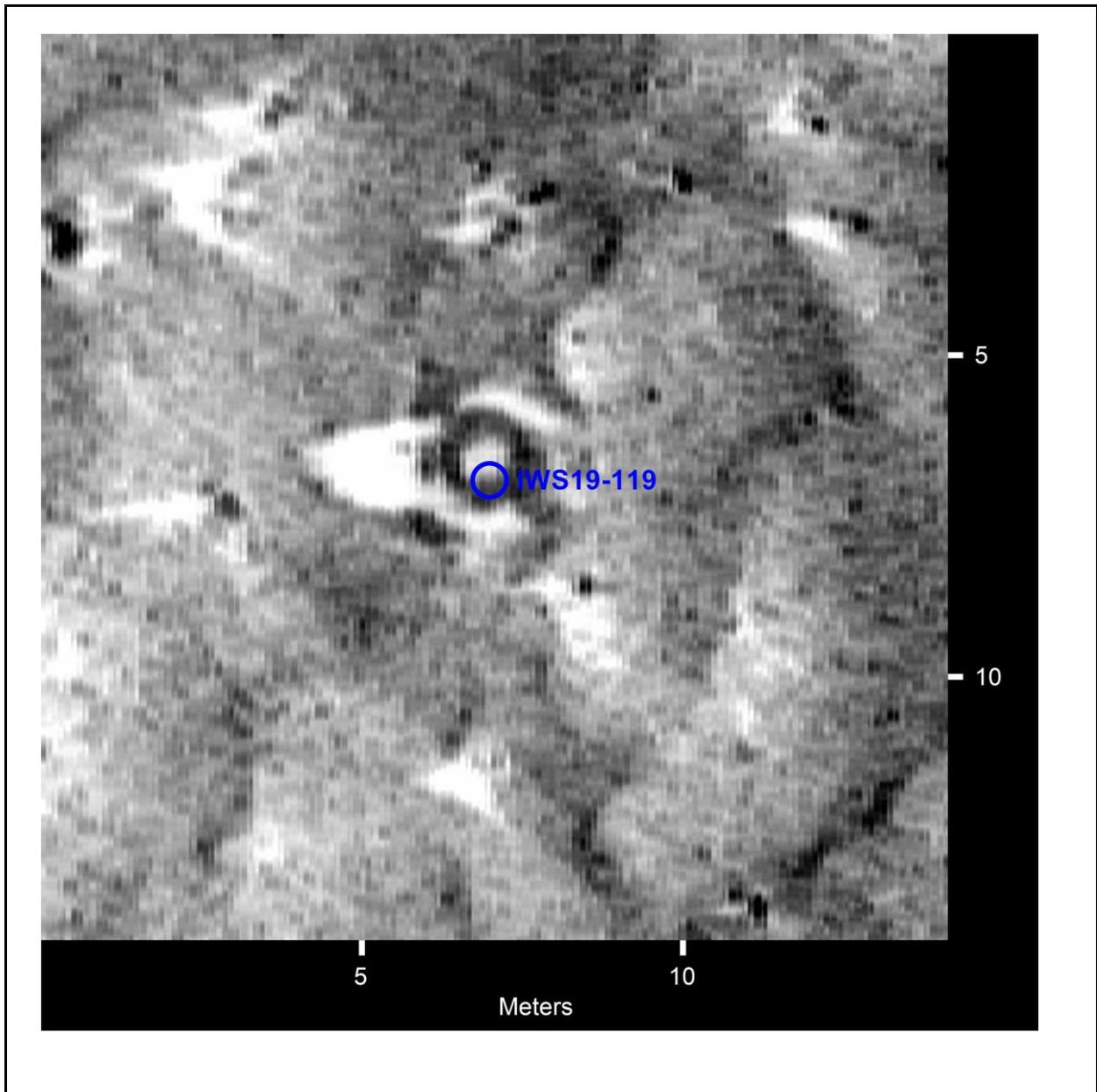
- Sonar Time at Target: 7/1/2019 7:10:57 PM
- Position  
42.4351002361 -70.6037784688 (WGS84)  
(X) 273741.31 (Y) 909784.95 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 2829
- Range to target: 71.56 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.66 Meters
- Target Height: 0.07 Meters
- Target Length: 1.73 Meters
- Target Shadow: 3.01 Meters
- Classification1: debris
- Description:



<p><b>IWS19-118</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:11:20 PM</li><li>• Position 42.4362778062 -70.6038976190 (WGS84) (X) 273730.13 (Y) 909915.64 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 4067</li><li>• Range to target: 54.30 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 2.54 Meters</li><li>• Target Height: 0.09 Meters</li><li>• Target Length: 4.77 Meters</li><li>• Target Shadow: 2.78 Meters</li><li>• Classification1: debris</li><li>• Description: Possibly cylindrical</li></ul>
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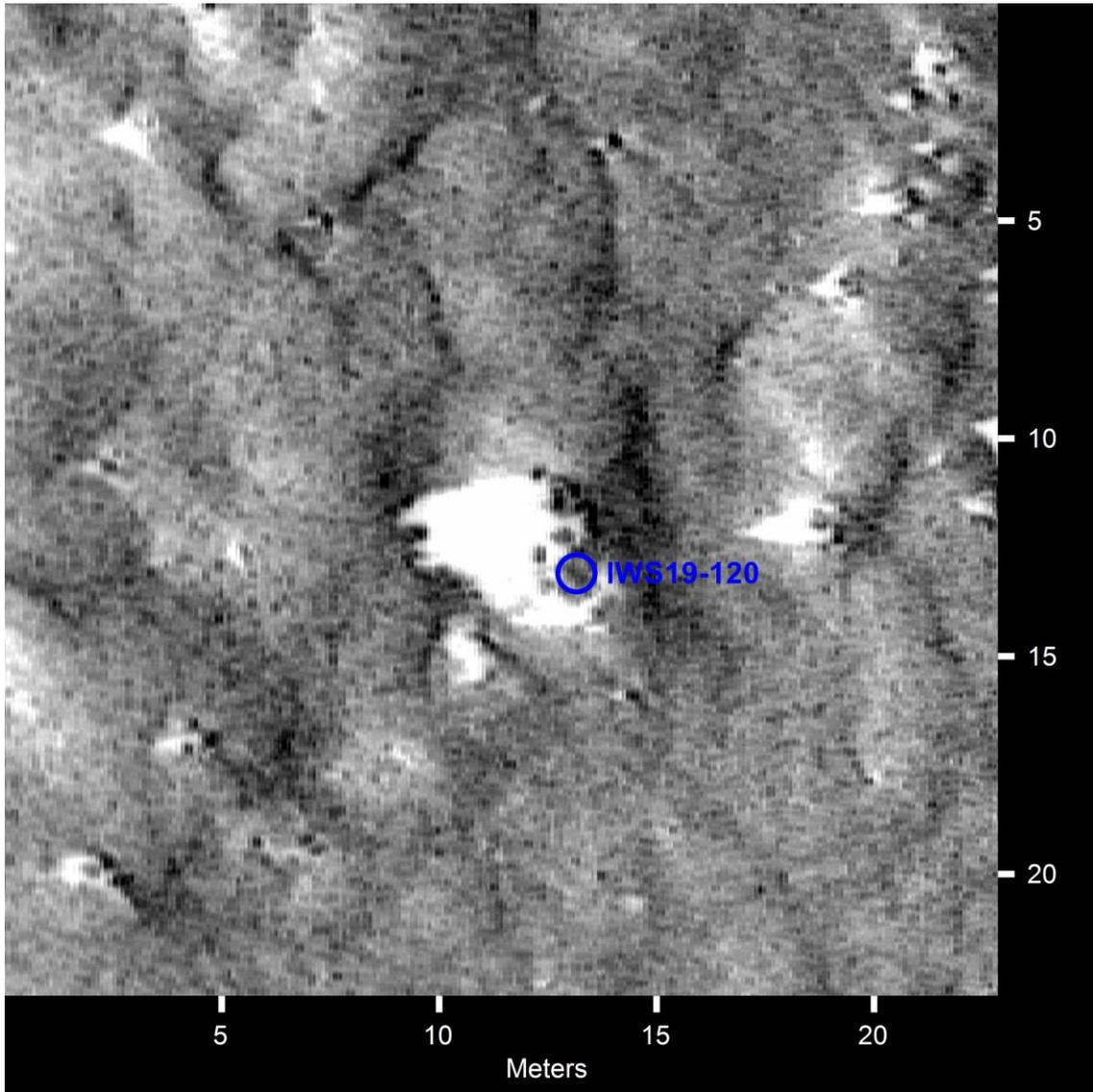


**IWS19-119**

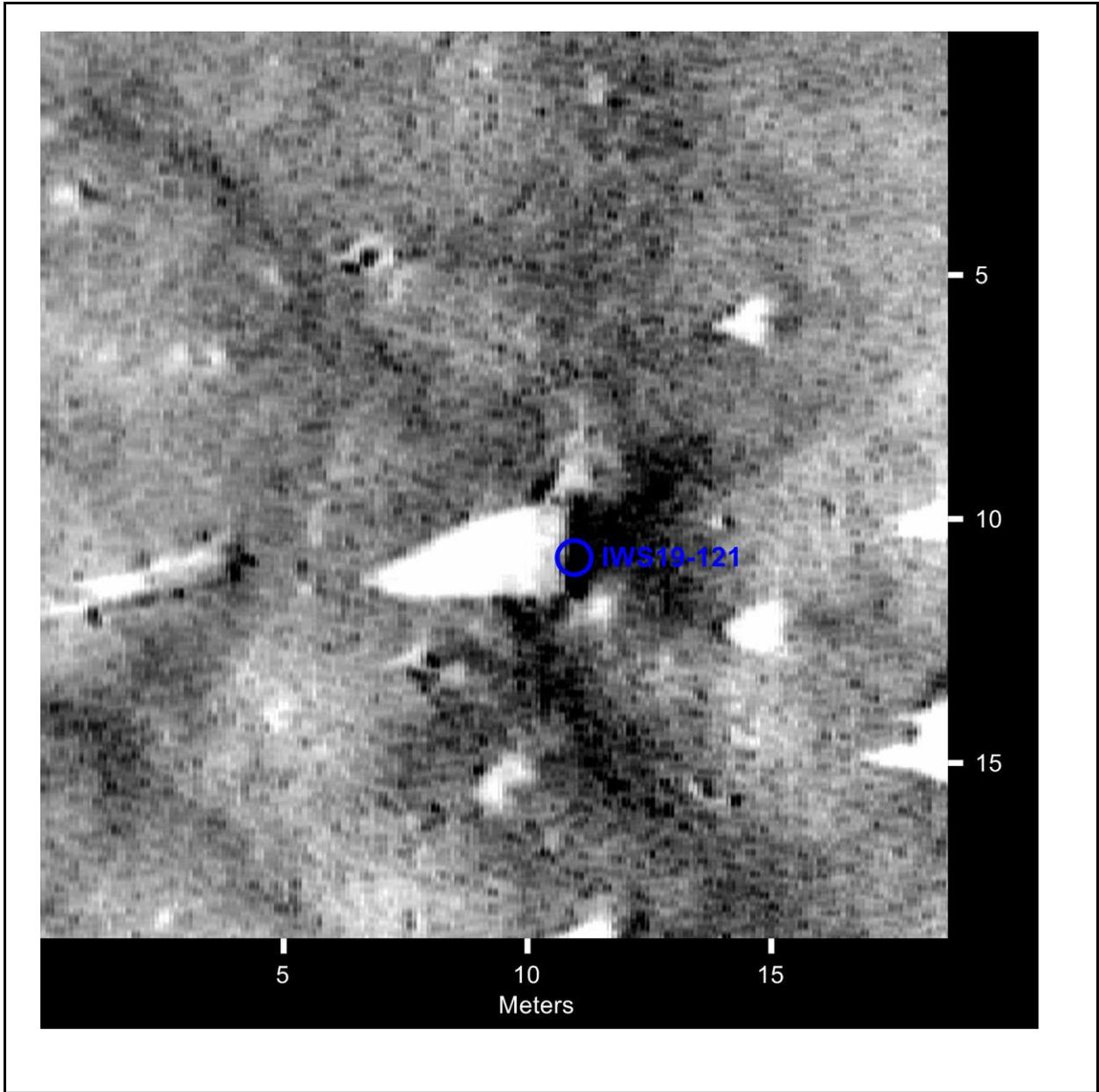
- Sonar Time at Target: 7/1/2019 7:15:53 PM
- Position  
42.4377095546 -70.5990188141 (WGS84)  
(X) 274129.86 (Y) 910078.90 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 18385
- Range to target: 57.95 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

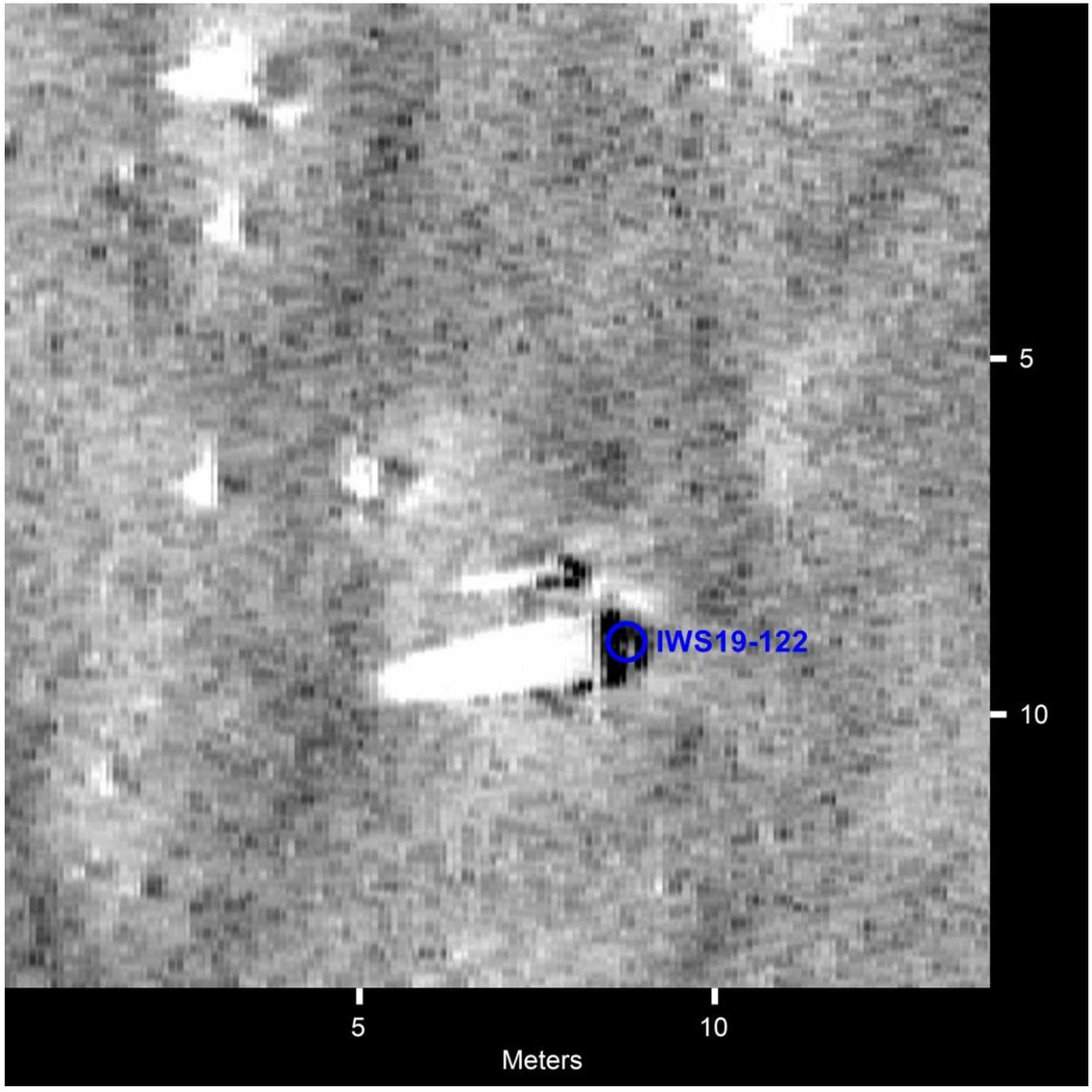
- Target Width: 1.44 Meters
- Target Height: 0.00 Meters
- Target Length: 1.66 Meters
- Target Shadow: 0.00 Meters
- Classification1: tires
- Description:



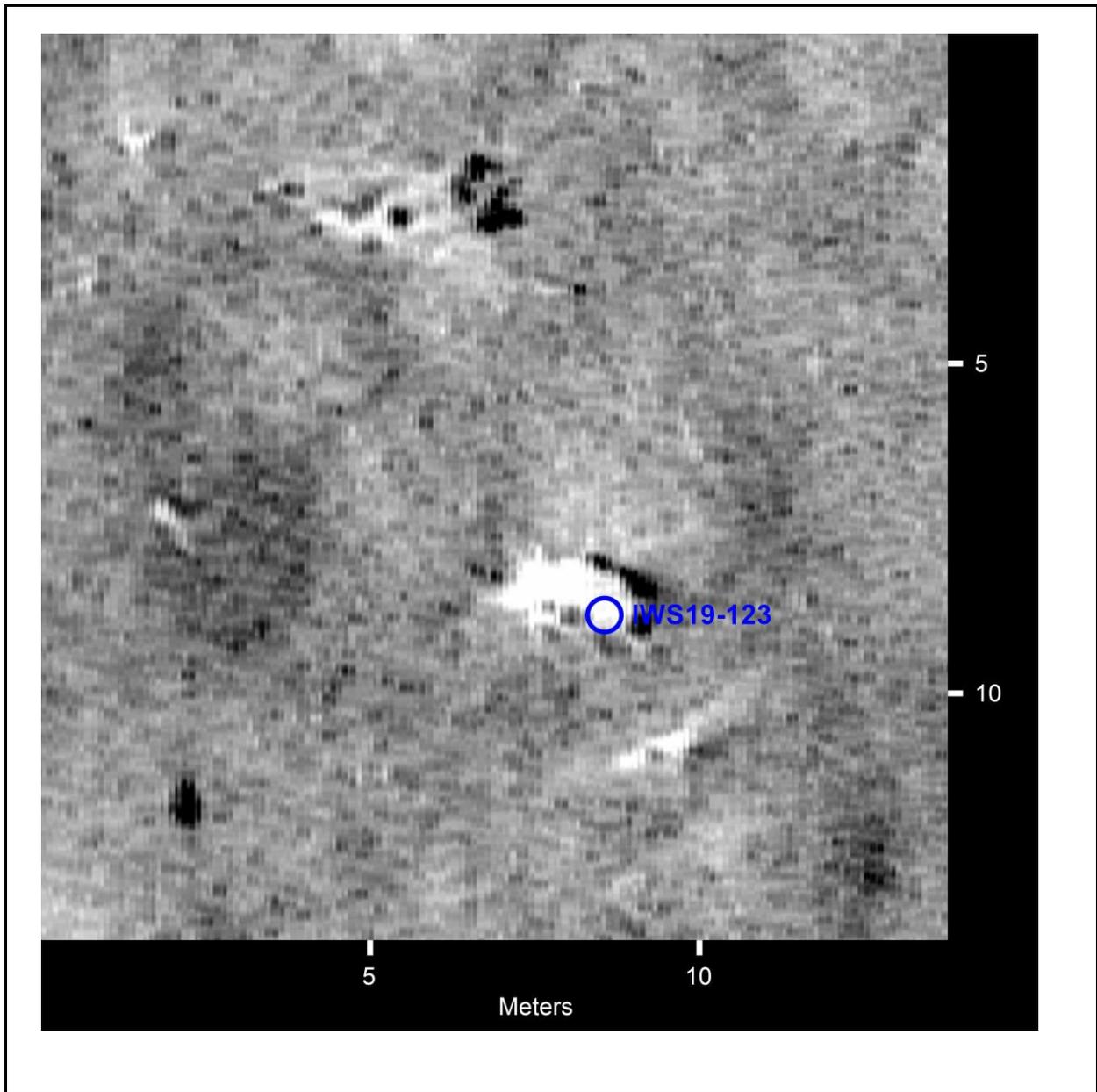
<p><b>IWS19-120</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:16:02 PM</li><li>• Position 42.4376743222 -70.5988060711 (WGS84) (X) 274147.40 (Y) 910075.17 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 18875</li><li>• Range to target: 48.01 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.38 Meters</li><li>• Target Height: 0.13 Meters</li><li>• Target Length: 2.82 Meters</li><li>• Target Shadow: 3.61 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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Appendix C – IWS Contact Report

<p><b>IWS19-121</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:25:55 PM</li><li>• Position 42.4406753120 -70.5883610590 (WGS84) (X) 275003.19 (Y) 910417.63 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 49514</li><li>• Range to target: 49.61 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.32 Meters</li><li>• Target Height: 0.16 Meters</li><li>• Target Length: 2.31 Meters</li><li>• Target Shadow: 4.72 Meters</li><li>• Classification1: debris</li><li>• Description: Possibly cylindrical</li></ul>
 <p>The image is a grayscale sonar scan showing a seabed with various features. A prominent, bright, elongated object is visible in the lower-middle section, labeled 'IWS19-122' with a blue circle. The object appears to be a piece of debris, possibly cylindrical. The seabed is textured with smaller, less distinct features. A scale bar at the bottom indicates a distance of 10 meters, with a 5-meter mark. A vertical scale on the right side indicates a depth of 10 meters, with a 5-meter mark.</p>	

<p><b>IWS19-122</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:27:31 PM</li><li>• Position 42.4410736410 -70.5866908359 (WGS84) (X) 275140.12 (Y) 910463.34 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 54340</li><li>• Range to target: 41.49 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.65 Meters</li><li>• Target Height: 0.16 Meters</li><li>• Target Length: 1.21 Meters</li><li>• Target Shadow: 3.63 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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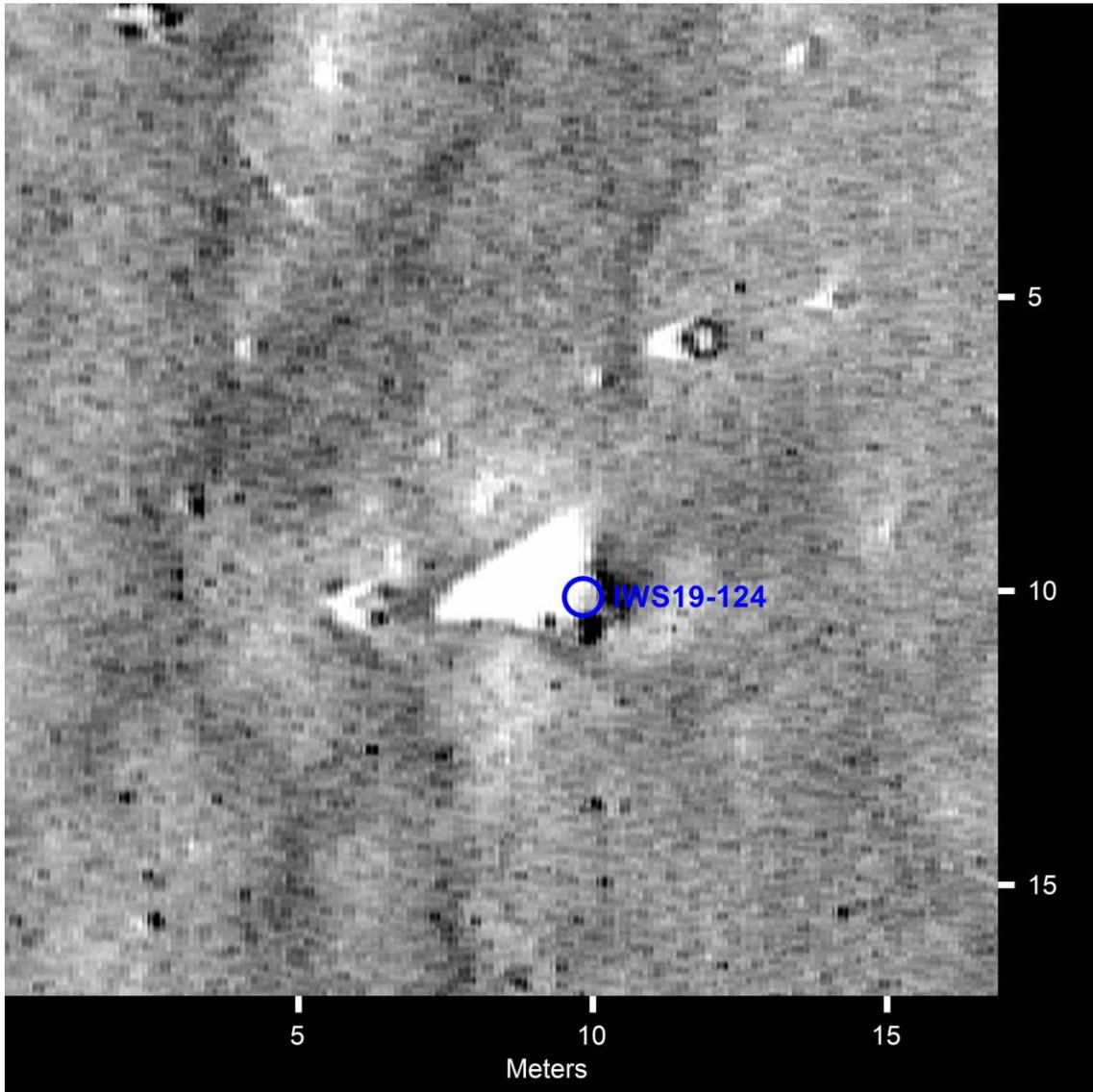


**IWS19-123**

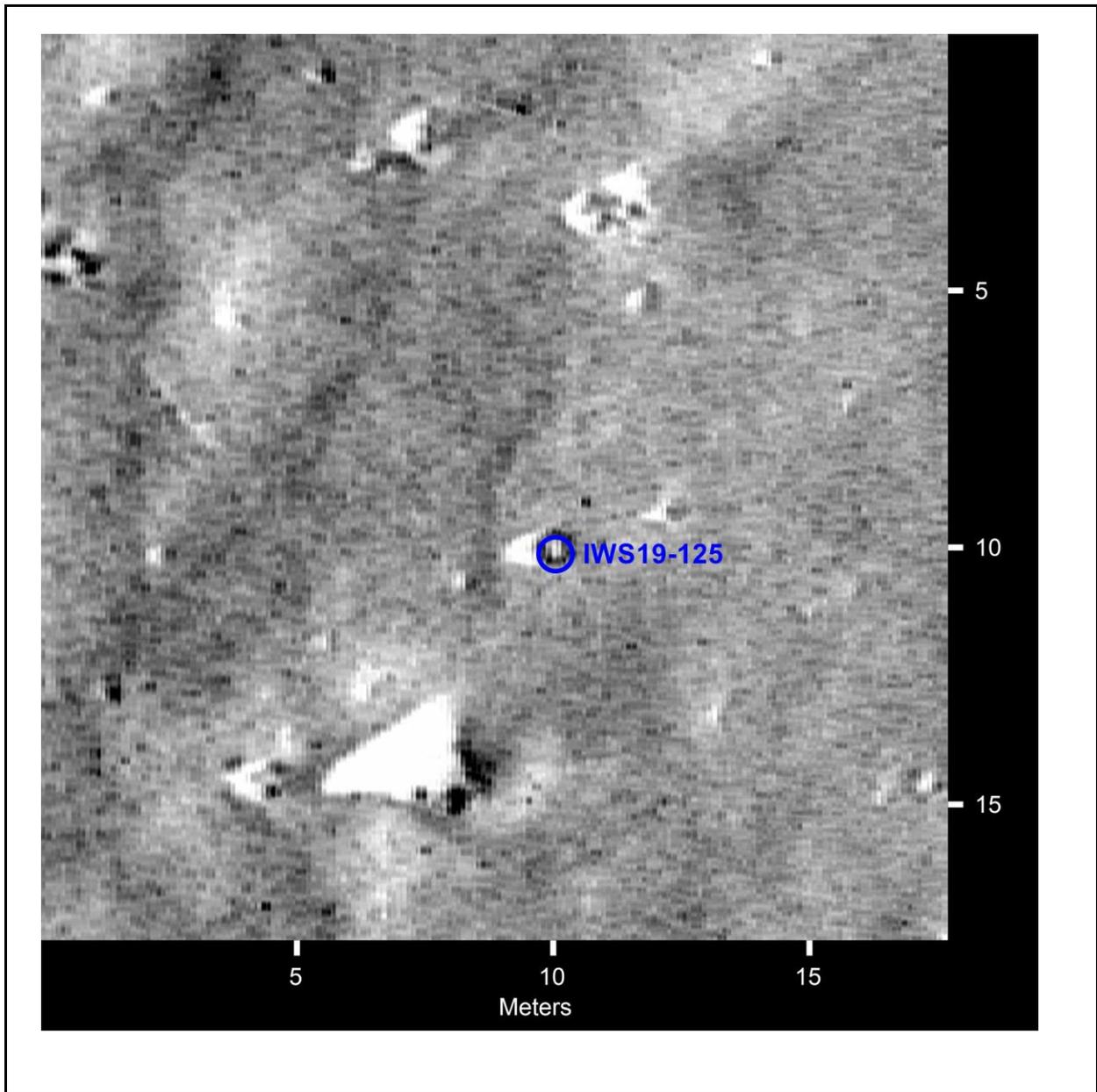
- Sonar Time at Target: 7/1/2019 7:27:41 PM
- Position  
42.4411185241 -70.5865226125 (WGS84)  
(X) 275153.91 (Y) 910468.48 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 54830
- Range to target: 41.15 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

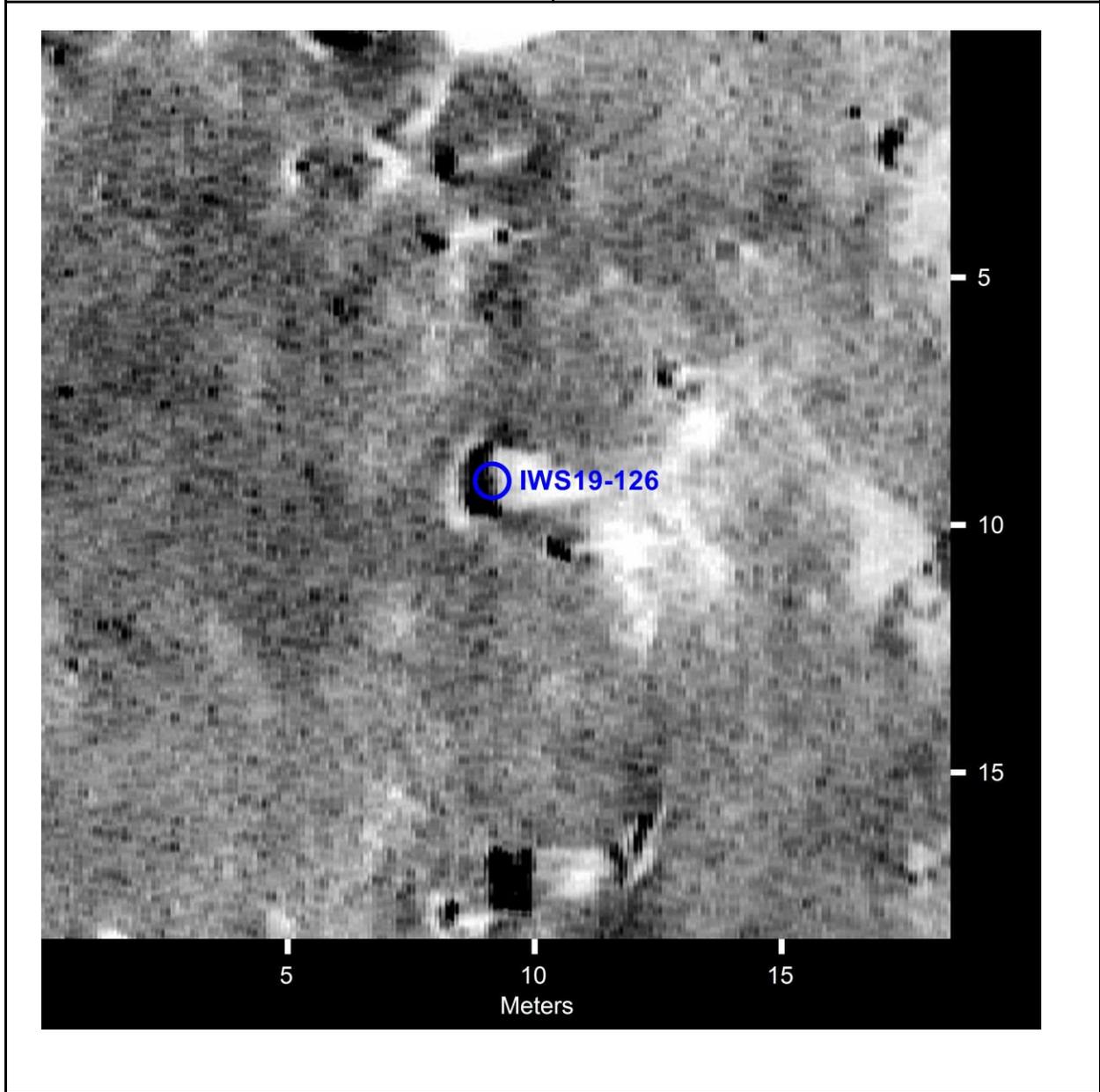
- Target Width: 1.22 Meters
- Target Height: 0.07 Meters
- Target Length: 1.27 Meters
- Target Shadow: 1.62 Meters
- Classification1: Trap
- Description:



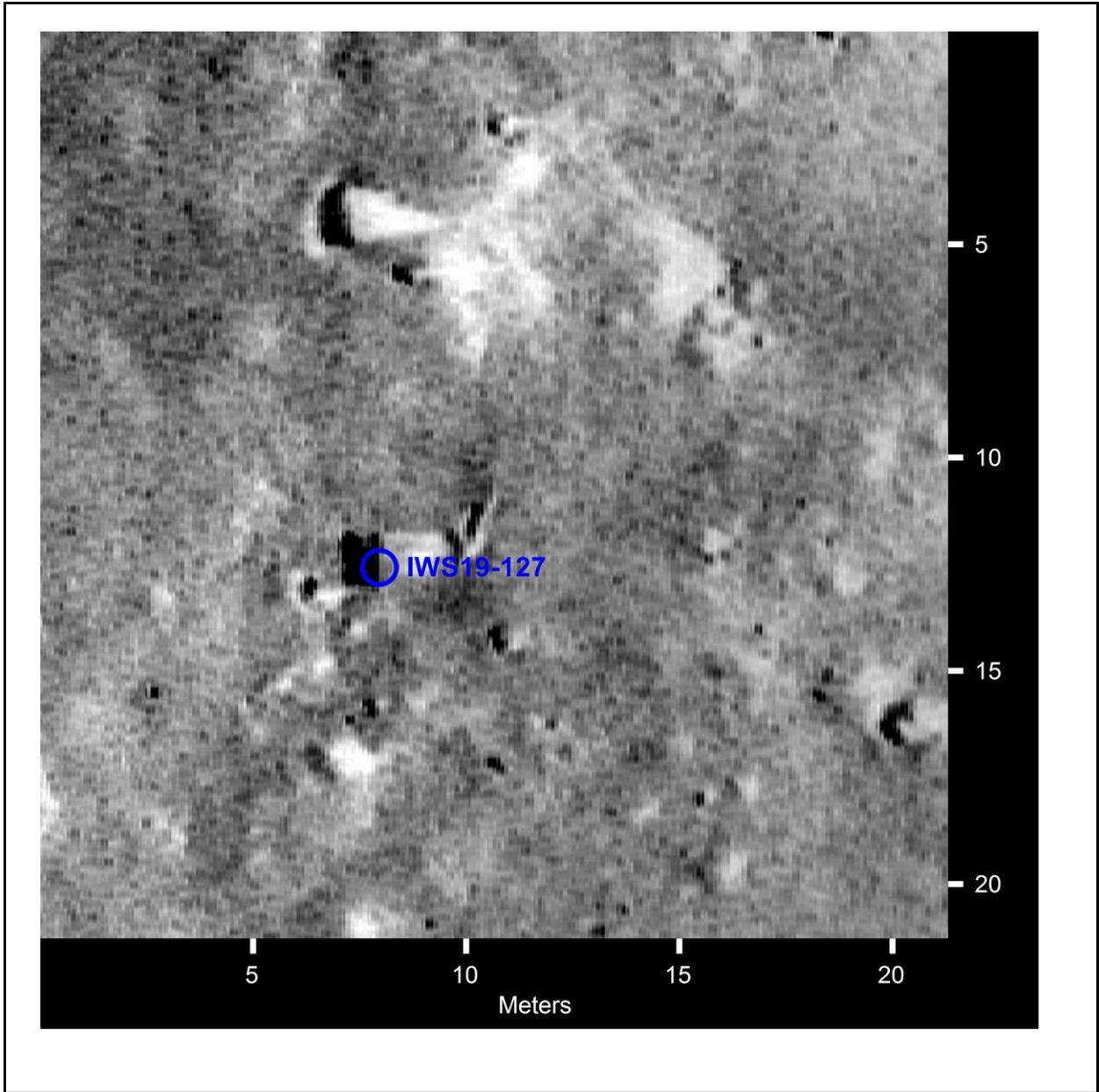
<p><b>IWS19-124</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:27:55 PM</li><li>• Position 42.4411612689 -70.5862572234 (WGS84) (X) 275175.69 (Y) 910473.46 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 55556</li><li>• Range to target: 37.72 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.86 Meters</li><li>• Target Height: 0.10 Meters</li><li>• Target Length: 1.54 Meters</li><li>• Target Shadow: 1.99 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap and tire</li></ul>
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<p><b>IWS19-125</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:27:53 PM</li><li>• Position 42.4411302044 -70.5862967184 (WGS84) (X) 275172.48 (Y) 910469.97 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 55416</li><li>• Range to target: 35.66 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.76 Meters</li><li>• Target Height: 0.04 Meters</li><li>• Target Length: 0.79 Meters</li><li>• Target Shadow: 0.93 Meters</li><li>• Classification1: tires</li><li>• Description:</li></ul>
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<p><b>IWS19-126</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:28:15 PM</li><li>• Position 42.4404760878 -70.5855250687 (WGS84) (X) 275236.74 (Y) 910398.00 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 56514</li><li>• Range to target: 54.87 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.57 Meters</li><li>• Target Height: 0.08 Meters</li><li>• Target Length: 1.53 Meters</li><li>• Target Shadow: 2.46 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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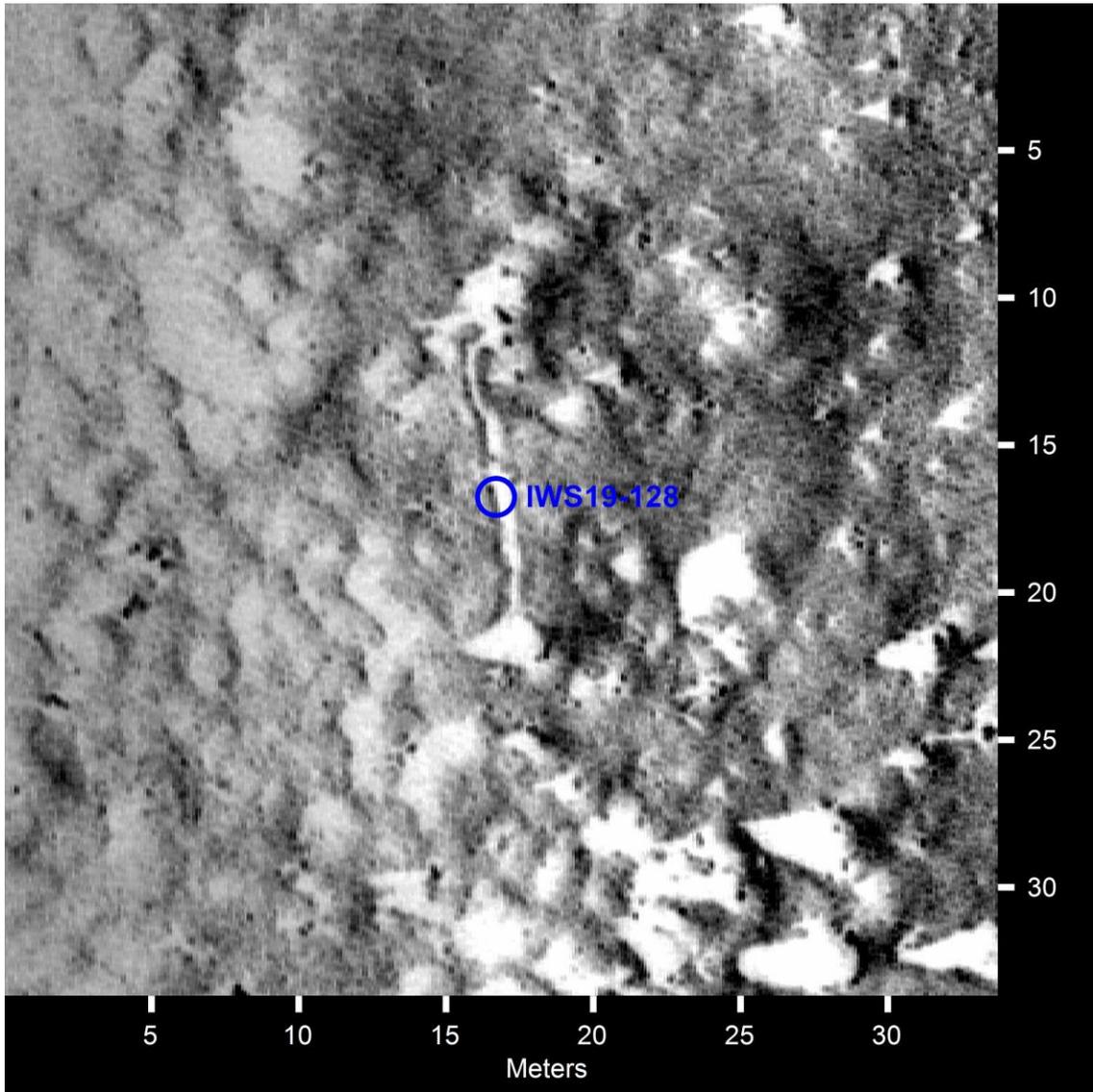


**IWS19-127**

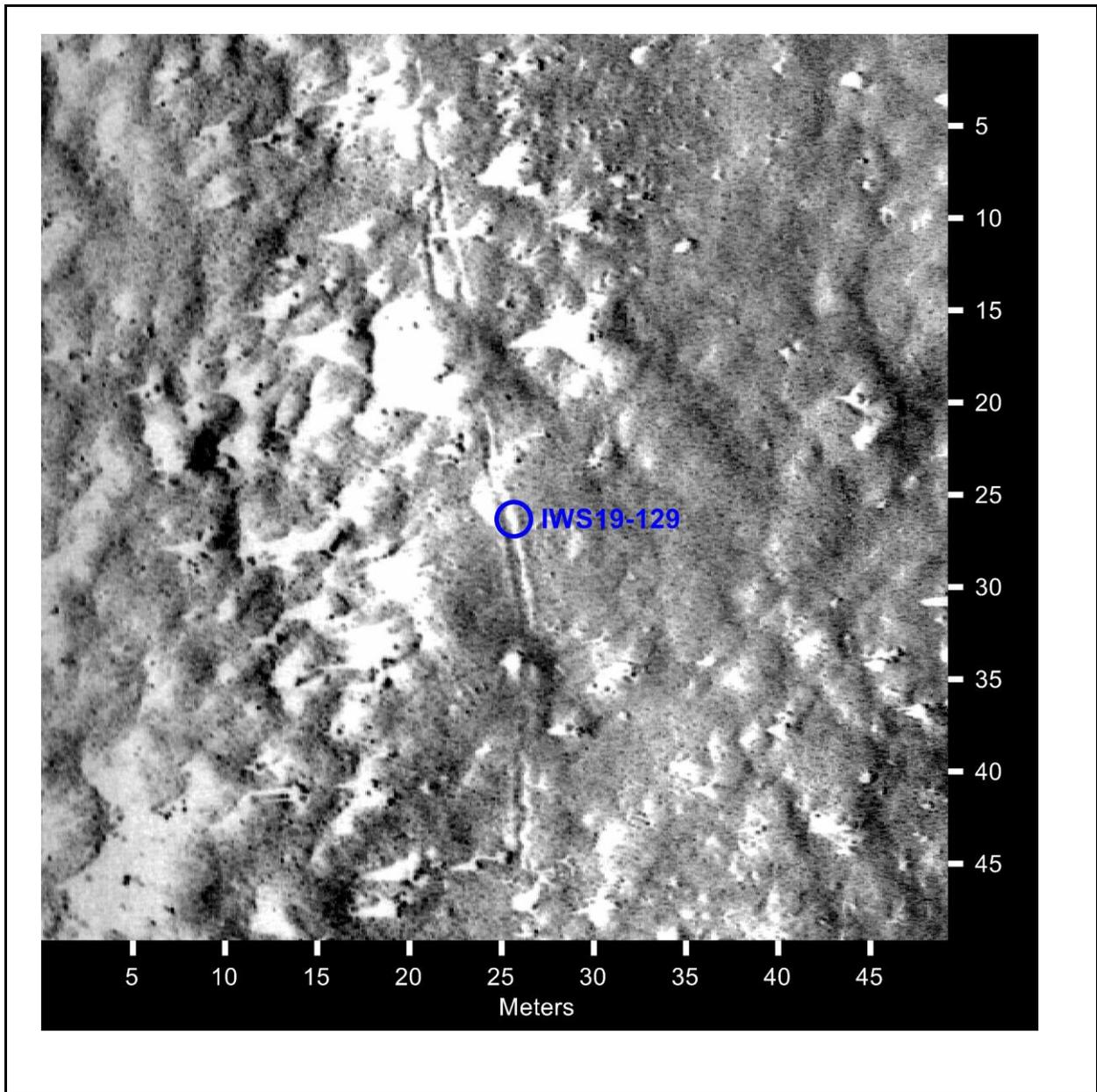
- Sonar Time at Target: 7/1/2019 7:28:20 PM
- Position  
42.4404963943 -70.5854266934 (WGS84)  
(X) 275244.81 (Y) 910400.34 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 56786
- Range to target: 55.67 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.74 Meters
- Target Height: 0.06 Meters
- Target Length: 1.38 Meters
- Target Shadow: 1.77 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-128</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:33:10 PM</li><li>• Position 42.4429153274 -70.5810720098 (WGS84) (X) 275600.18 (Y) 910672.87 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 71084</li><li>• Range to target: 65.96 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.76 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 9.44 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1: debris</li><li>• Description: Low confidence. Possibly scour.</li></ul>
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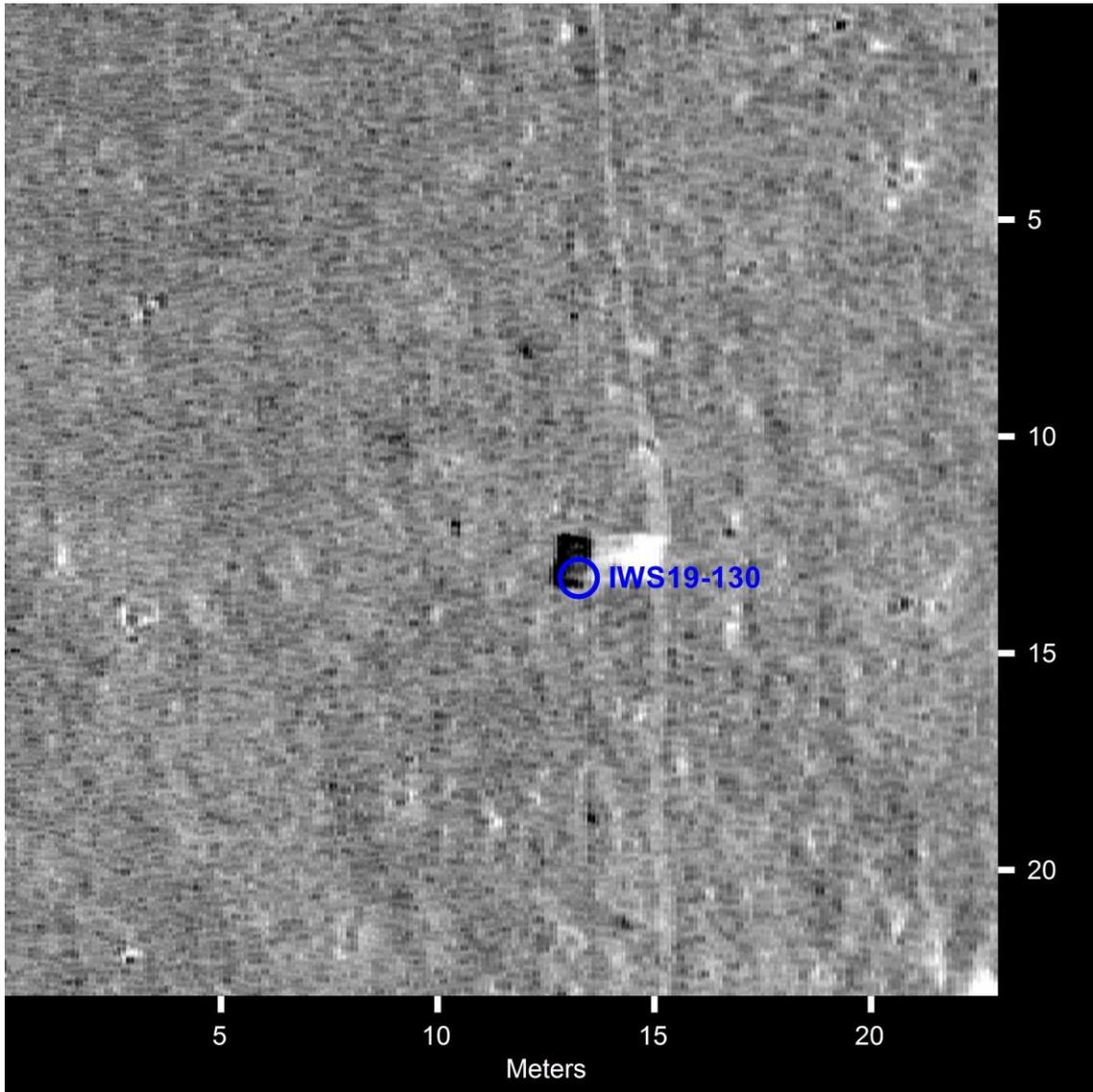


**IWS19-129**

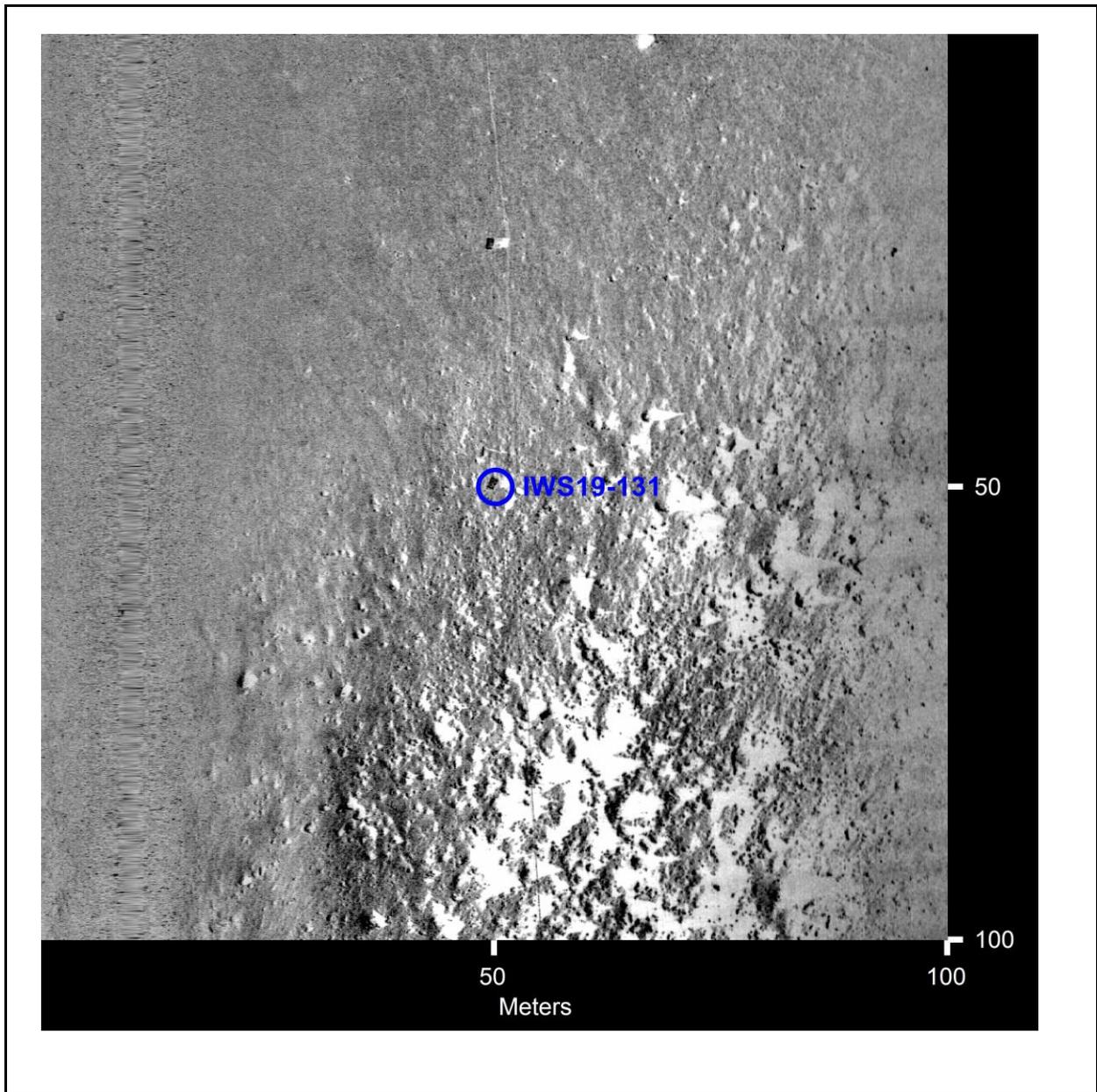
- Sonar Time at Target: 7/1/2019 7:34:01 PM
- Position  
42.4430332769 -70.5801420393 (WGS84)  
(X) 275676.54 (Y) 910686.79 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 73618
- Range to target: 50.64 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.82 Meters
- Target Height: 0.00 Meters
- Target Length: 43.05 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



<p><b>IWS19-130</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:11:18 PM</li><li>• Position 42.4354772881 -70.6035227326 (WGS84) (X) 273761.91 (Y) 909827.05 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 3973</li><li>• Range to target: 39.78 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.75 Meters</li><li>• Target Height: 0.06 Meters</li><li>• Target Length: 1.22 Meters</li><li>• Target Shadow: 1.30 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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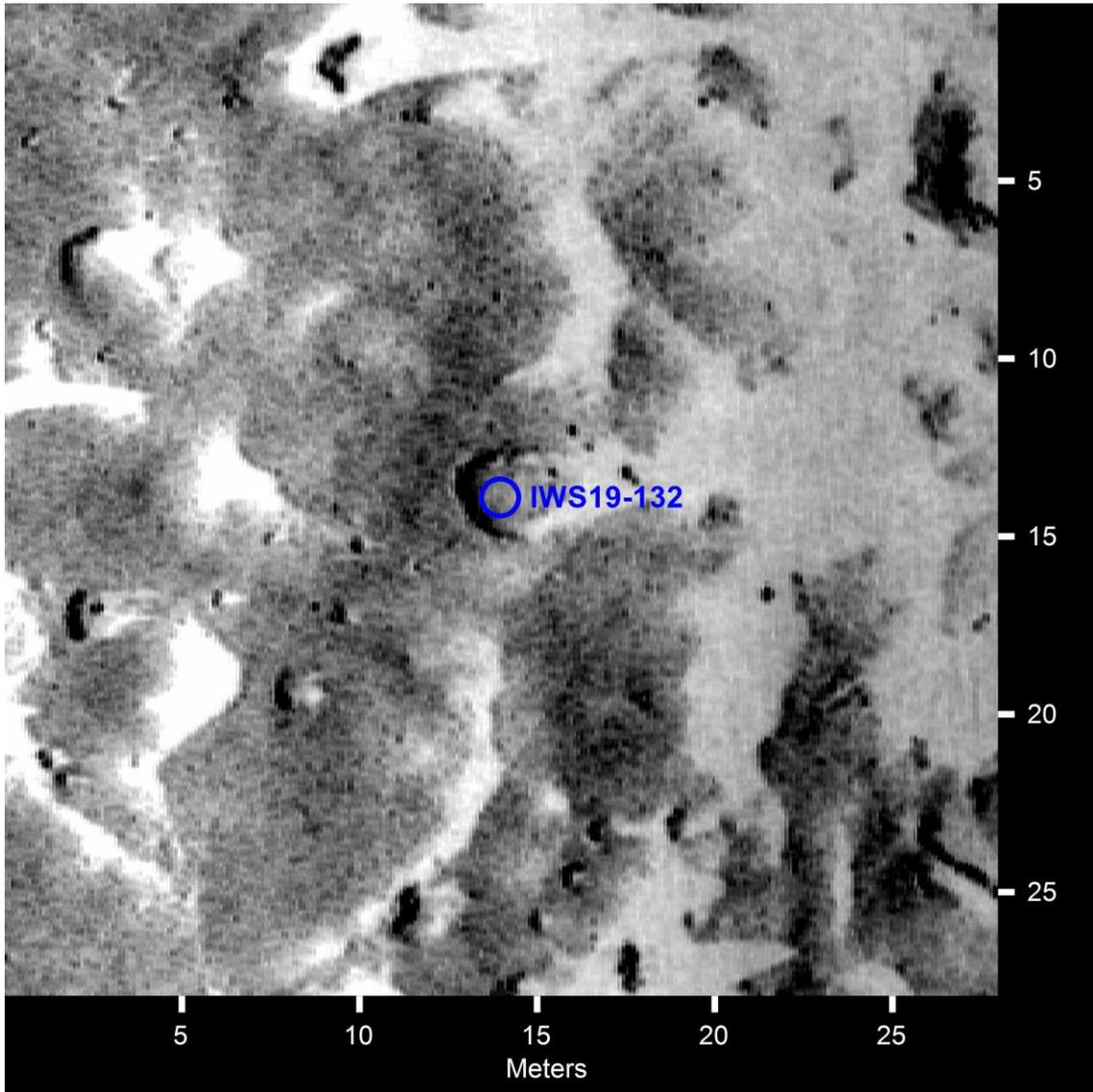


**IWS19-131**

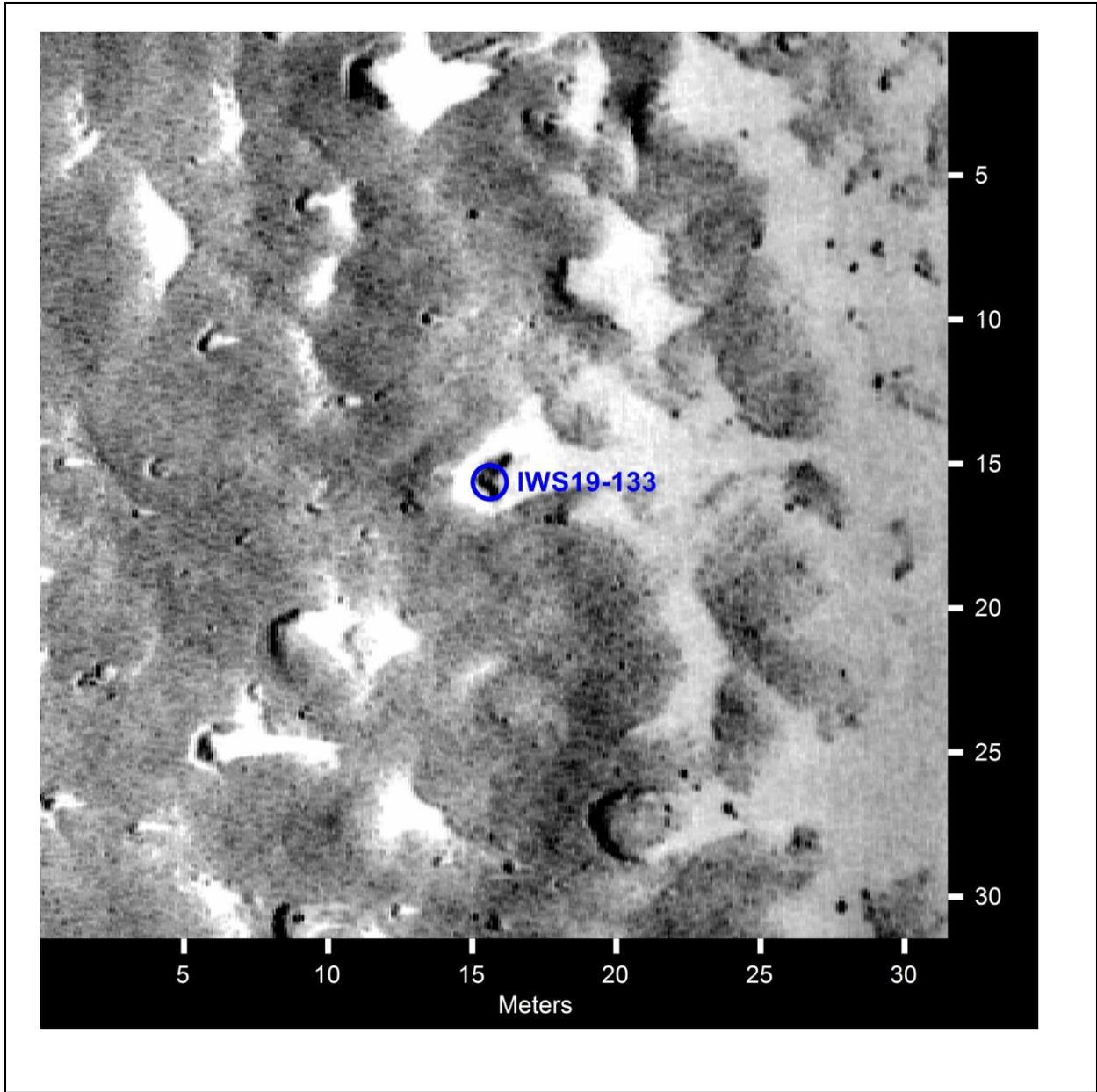
- Sonar Time at Target: 7/1/2019 7:11:35 PM
- Position  
42.4355606027 -70.6032160613 (WGS84)  
(X) 273787.04 (Y) 909836.57 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 4848
- Range to target: 40.24 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.74 Meters
- Target Height: 0.06 Meters
- Target Length: 1.35 Meters
- Target Shadow: 1.23 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-132</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:18:46 PM</li><li>• Position 42.4375873391 -70.5953782622 (WGS84) (X) 274429.52 (Y) 910068.49 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 27514</li><li>• Range to target: 62.53 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.77 Meters</li><li>• Target Height: 0.09 Meters</li><li>• Target Length: 2.61 Meters</li><li>• Target Shadow: 3.12 Meters</li><li>• Classification1: debris</li><li>• Description: Low confidence. Possibly cylindrical.</li></ul>
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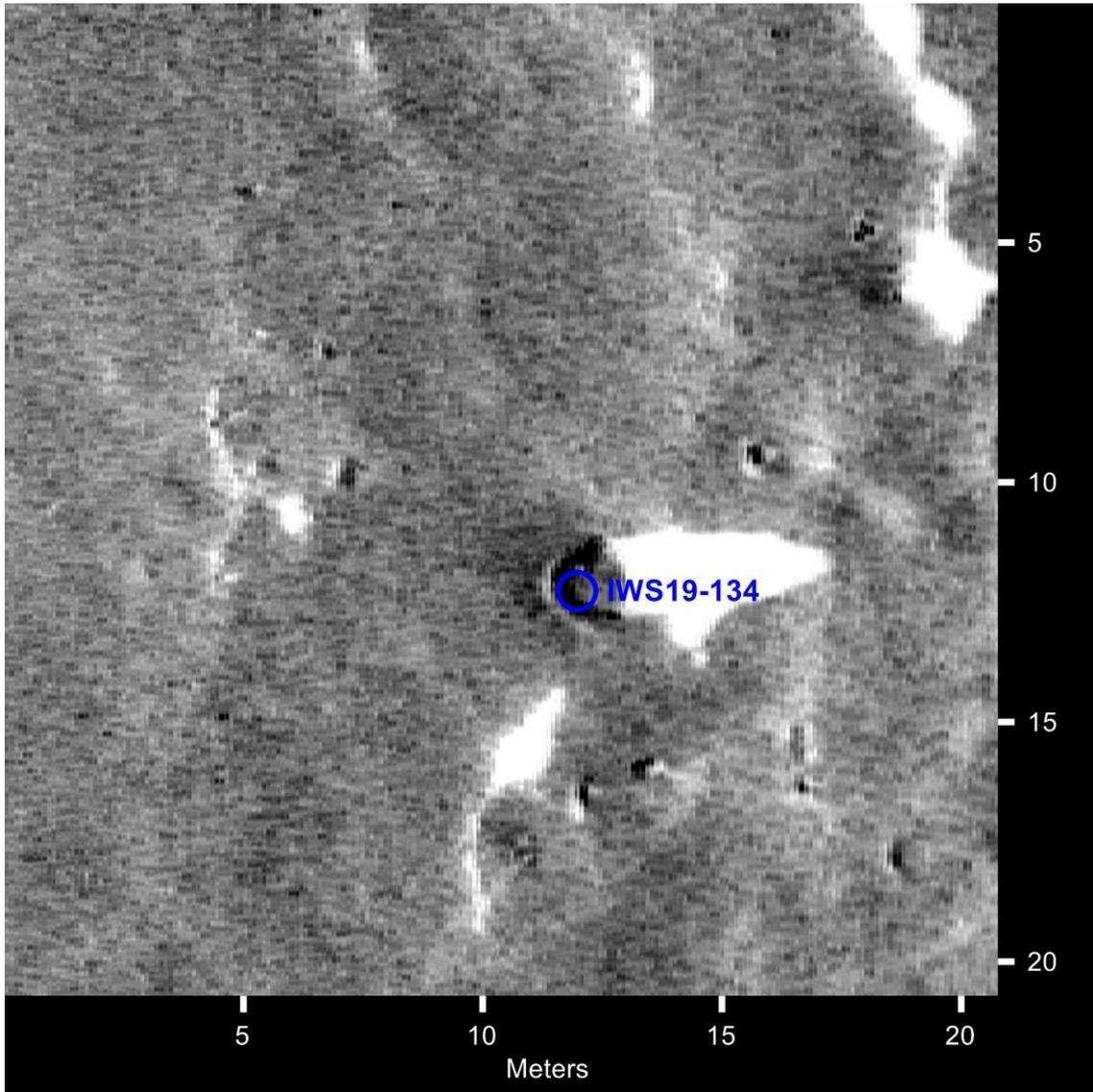


**IWS19-133**

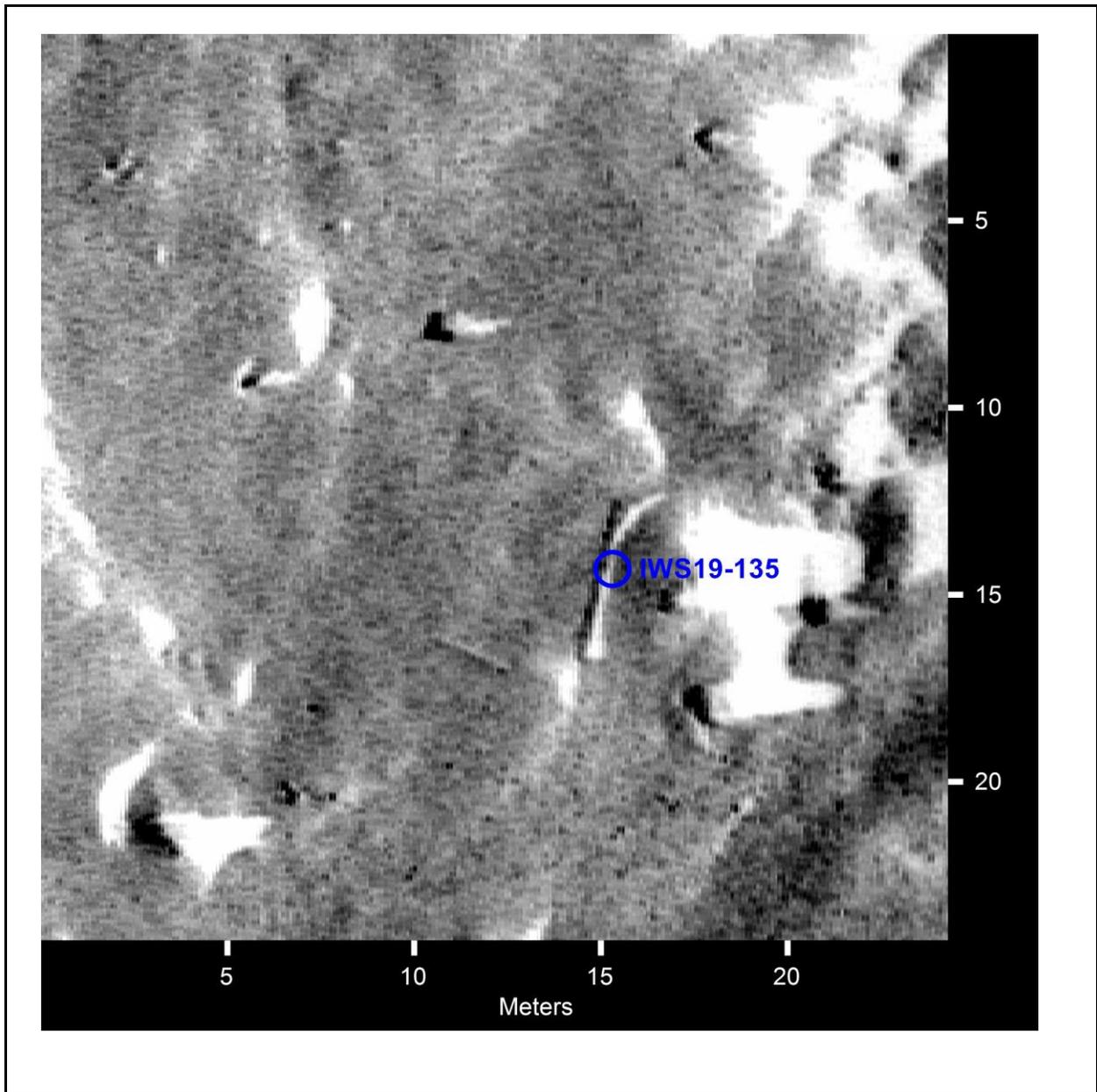
- Sonar Time at Target: 7/1/2019 7:18:38 PM
- Position  
42.4375874723 -70.5955360678 (WGS84)  
(X) 274416.54 (Y) 910068.37 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 27115
- Range to target: 57.84 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.36 Meters
- Target Height: 0.27 Meters
- Target Length: 1.65 Meters
- Target Shadow: 9.27 Meters
- Classification1: debris
- Description: Low confidence.



<p><b>IWS19-134</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:22:53 PM</li><li>• Position 42.4390350241 -70.5910937097 (WGS84) (X) 274780.31 (Y) 910233.04 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 40372</li><li>• Range to target: 39.44 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.57 Meters</li><li>• Target Height: 0.21 Meters</li><li>• Target Length: 1.92 Meters</li><li>• Target Shadow: 4.72 Meters</li><li>• Classification1: debris</li><li>• Description: Possibly cylindrical.</li></ul>
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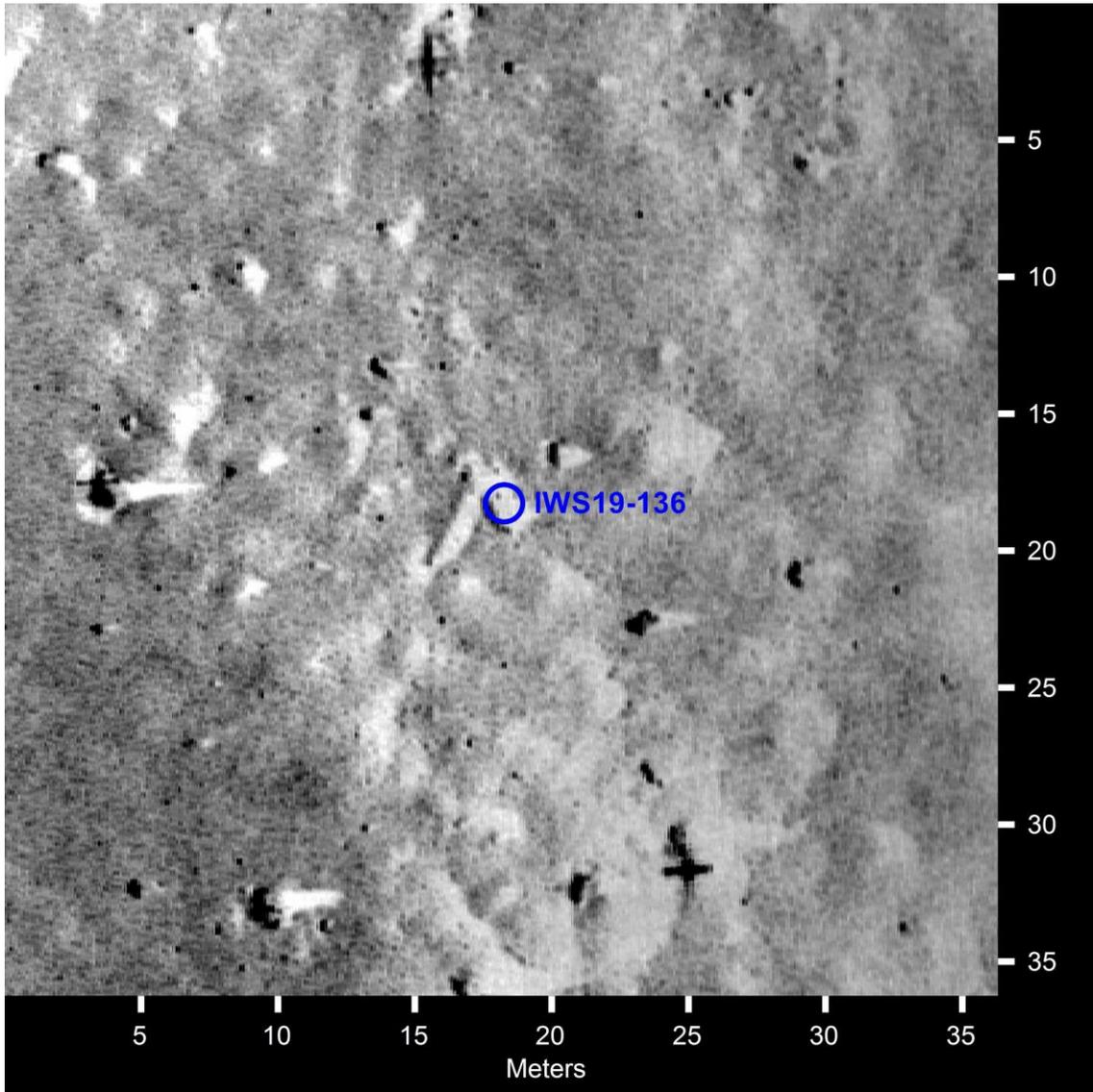


**IWS19-135**

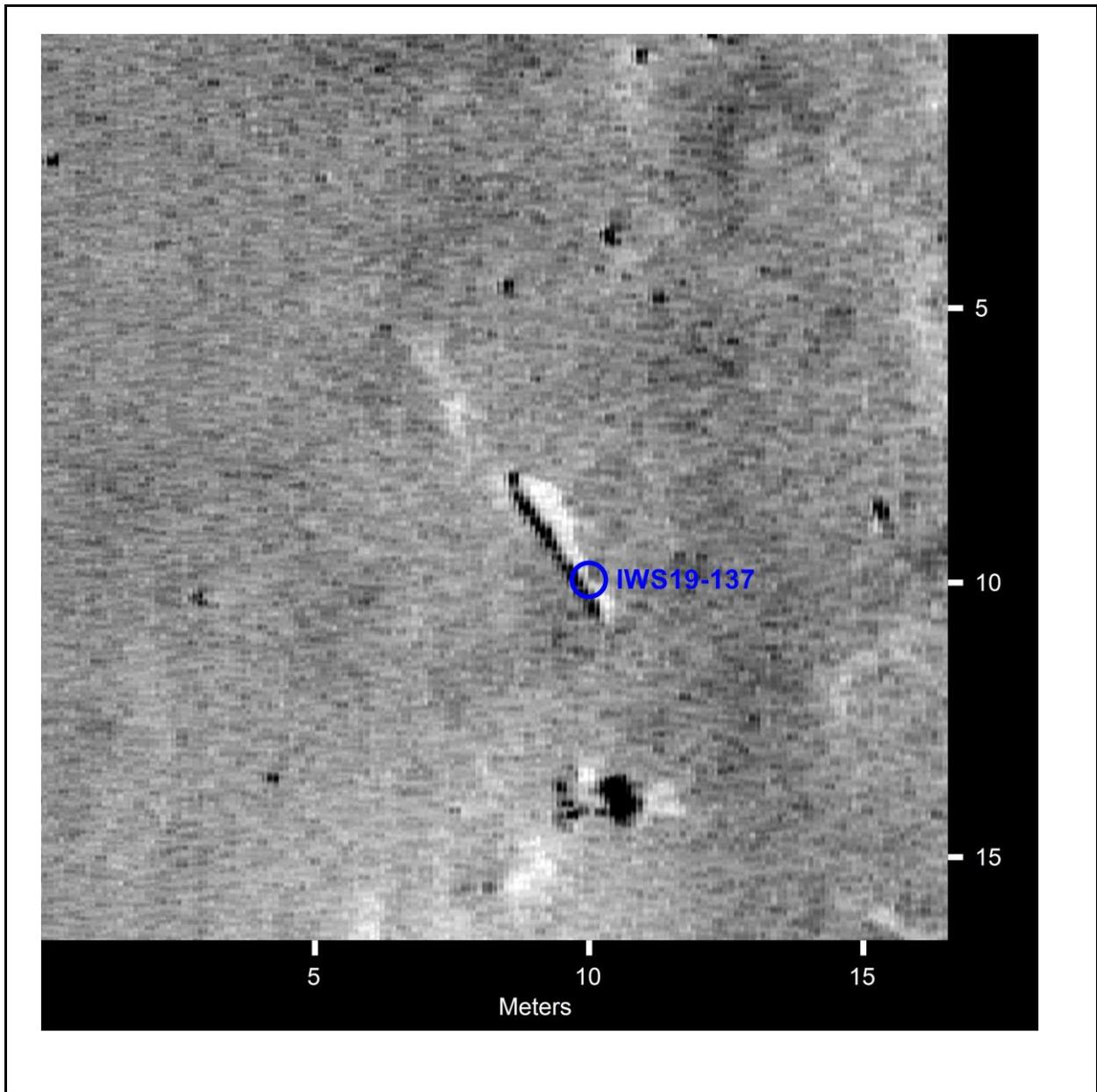
- Sonar Time at Target: 7/1/2019 7:23:12 PM
- Position  
42.4390256312 -70.5907211657 (WGS84)  
(X) 274810.98 (Y) 910232.32 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 41319
- Range to target: 51.44 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.30 Meters
- Target Height: 0.01 Meters
- Target Length: 4.53 Meters
- Target Shadow: 0.49 Meters
- Classification1: debris
- Description:



<p><b>IWS19-136</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:29:33 PM</li><li>• Position 42.4407856418 -70.5841812315 (WGS84) (X) 275346.93 (Y) 910433.57 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 60323</li><li>• Range to target: 62.53 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 3.49 Meters</li><li>• Target Height: 0.04 Meters</li><li>• Target Length: 4.33 Meters</li><li>• Target Shadow: 1.25 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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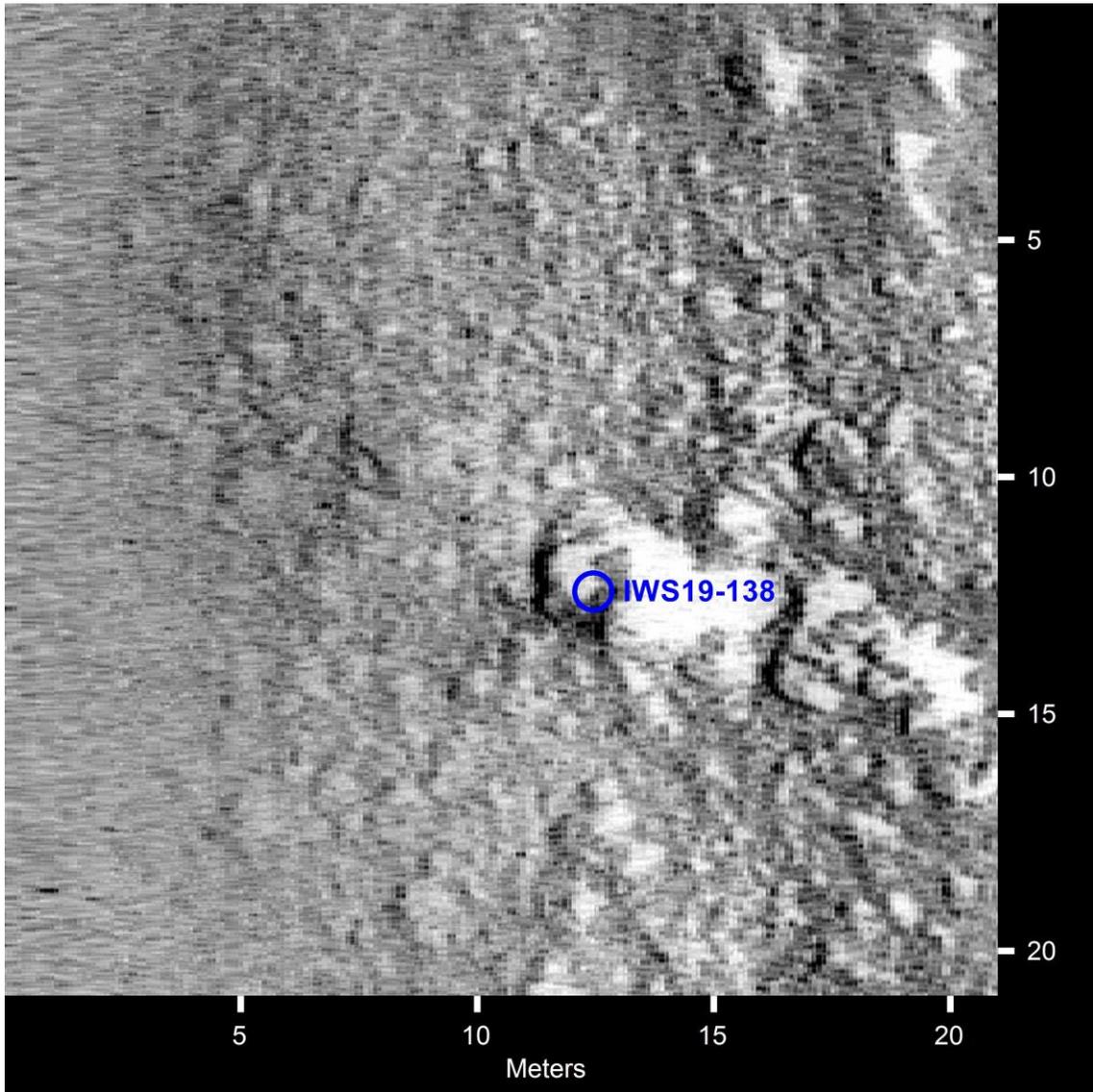
Appendix C – IWS Contact Report

**IWS19-137**

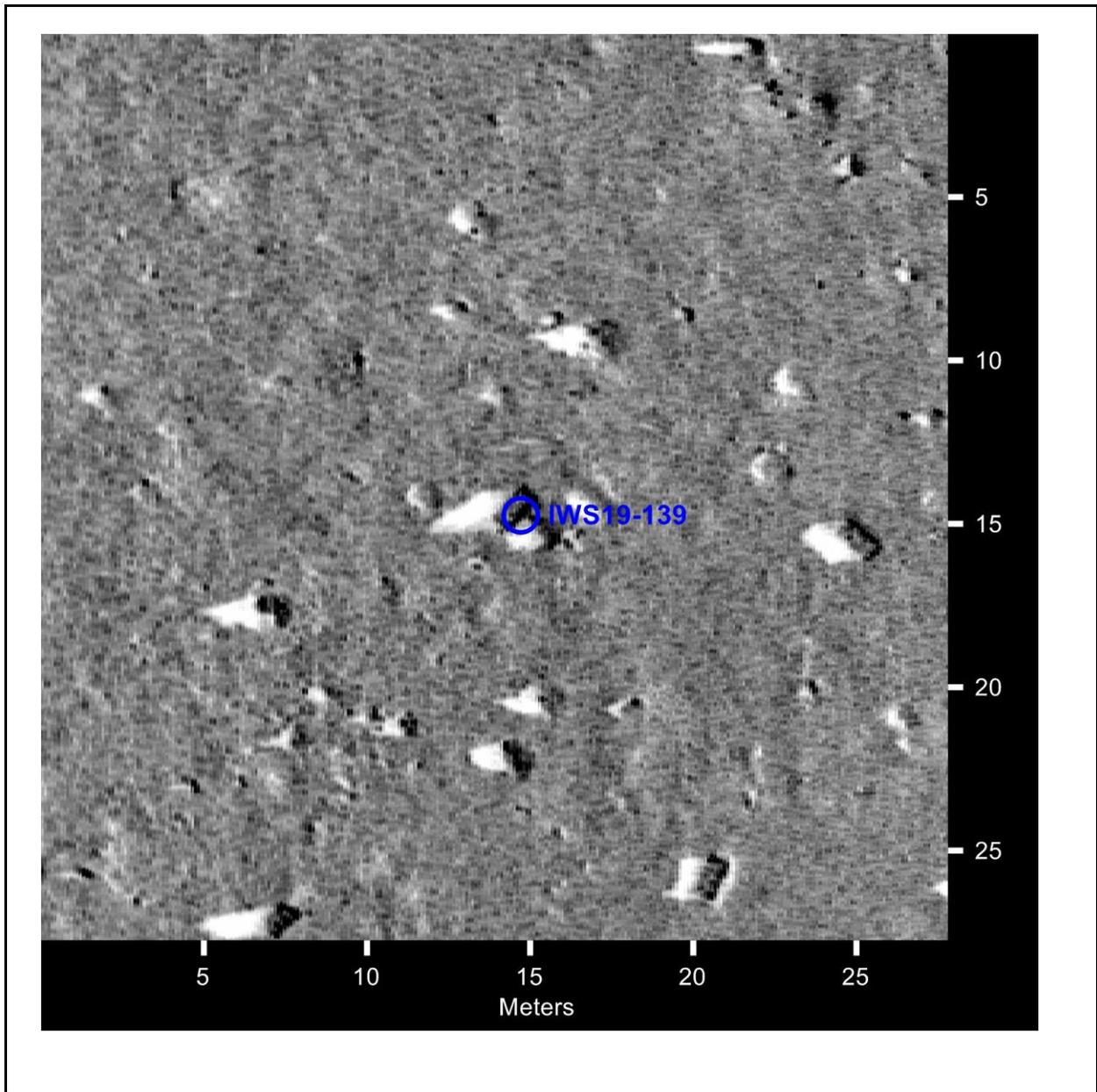
- Sonar Time at Target: 7/1/2019 7:29:36 PM
- Position  
42.4410711437 -70.5842674886 (WGS84)  
(X) 275339.49 (Y) 910465.20 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 60485
- Range to target: 30.41 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.28 Meters
- Target Height: 0.04 Meters
- Target Length: 3.01 Meters
- Target Shadow: 0.64 Meters
- Classification1: debris
- Description:



<p><b>IWS19-138</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:35:20 PM</li><li>• Position 42.4428691711 -70.5785264800 (WGS84) (X) 275809.64 (Y) 910670.00 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 77512</li><li>• Range to target: 14.06 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 2.25 Meters</li><li>• Target Height: 0.38 Meters</li><li>• Target Length: 2.92 Meters</li><li>• Target Shadow: 3.36 Meters</li><li>• Classification1: debris</li><li>• Description: Low confidence.</li></ul>
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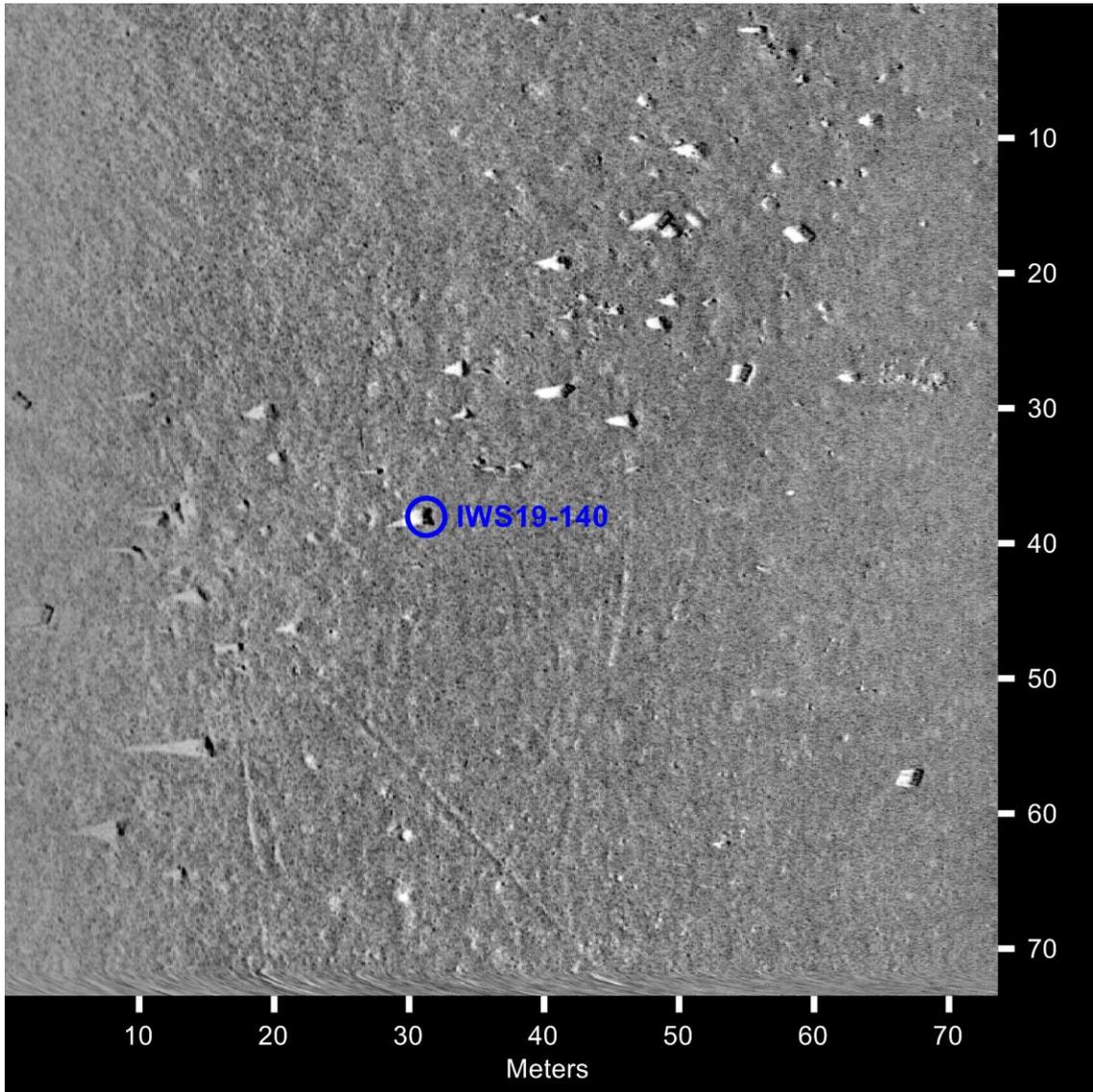


**IWS19-139**

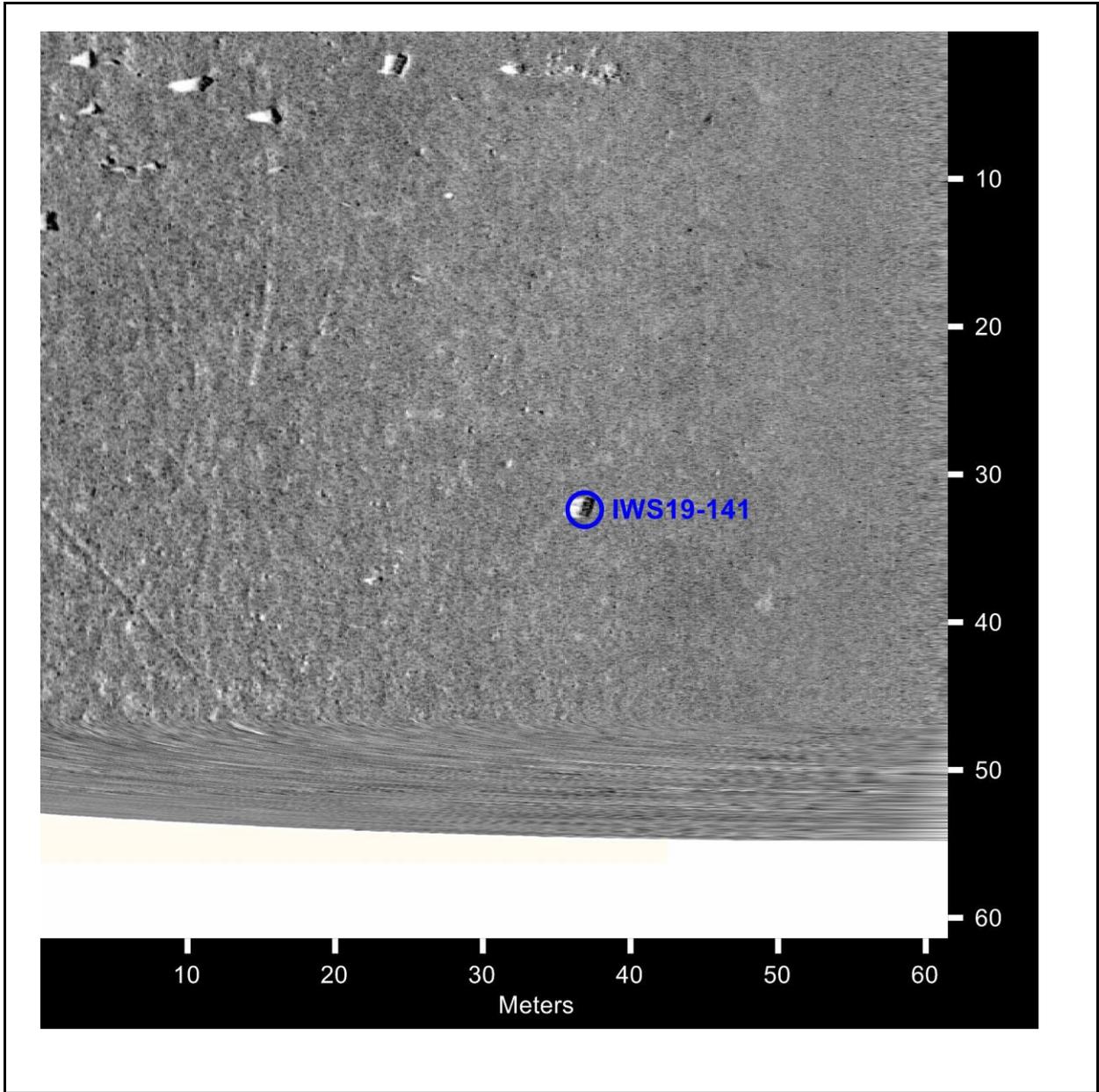
- Sonar Time at Target: 7/1/2019 7:37:51 PM
- Position  
42.4440798441 -70.5762435503 (WGS84)  
(X) 275996.00 (Y) 910806.51 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 84951
- Range to target: 43.67 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.60 Meters
- Target Height: 0.08 Meters
- Target Length: 1.36 Meters
- Target Shadow: 1.87 Meters
- Classification1: Trap
- Description: Trap cluster



<p><b>IWS19-140</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:38:06 PM</li><li>• Position 42.4443004281 -70.5760723435 (WGS84) (X) 276009.81 (Y) 910831.16 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 85680</li><li>• Range to target: 61.50 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.79 Meters</li><li>• Target Height: 0.06 Meters</li><li>• Target Length: 1.46 Meters</li><li>• Target Shadow: 2.01 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap cluster</li></ul>
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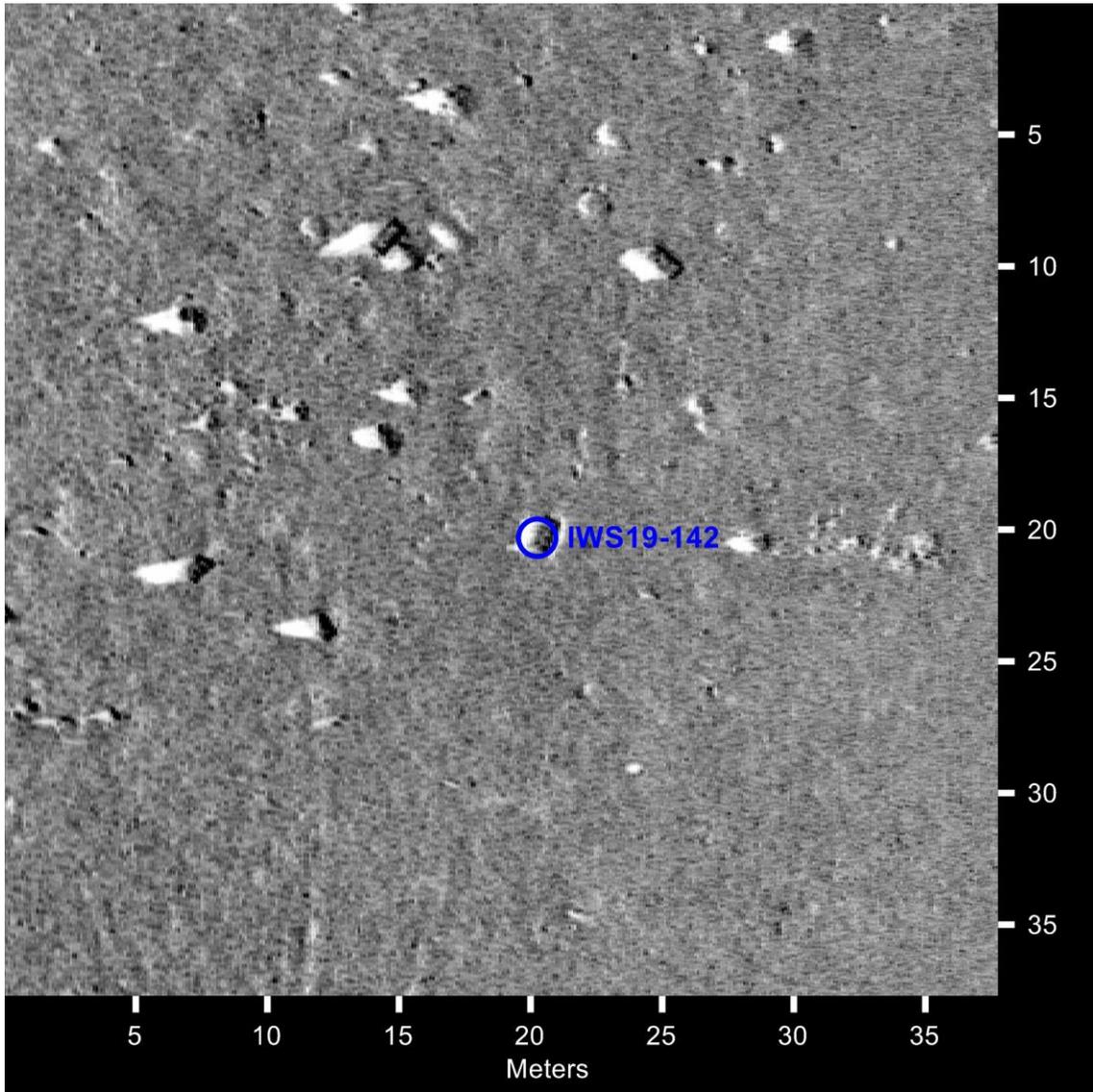


**IWS19-141**

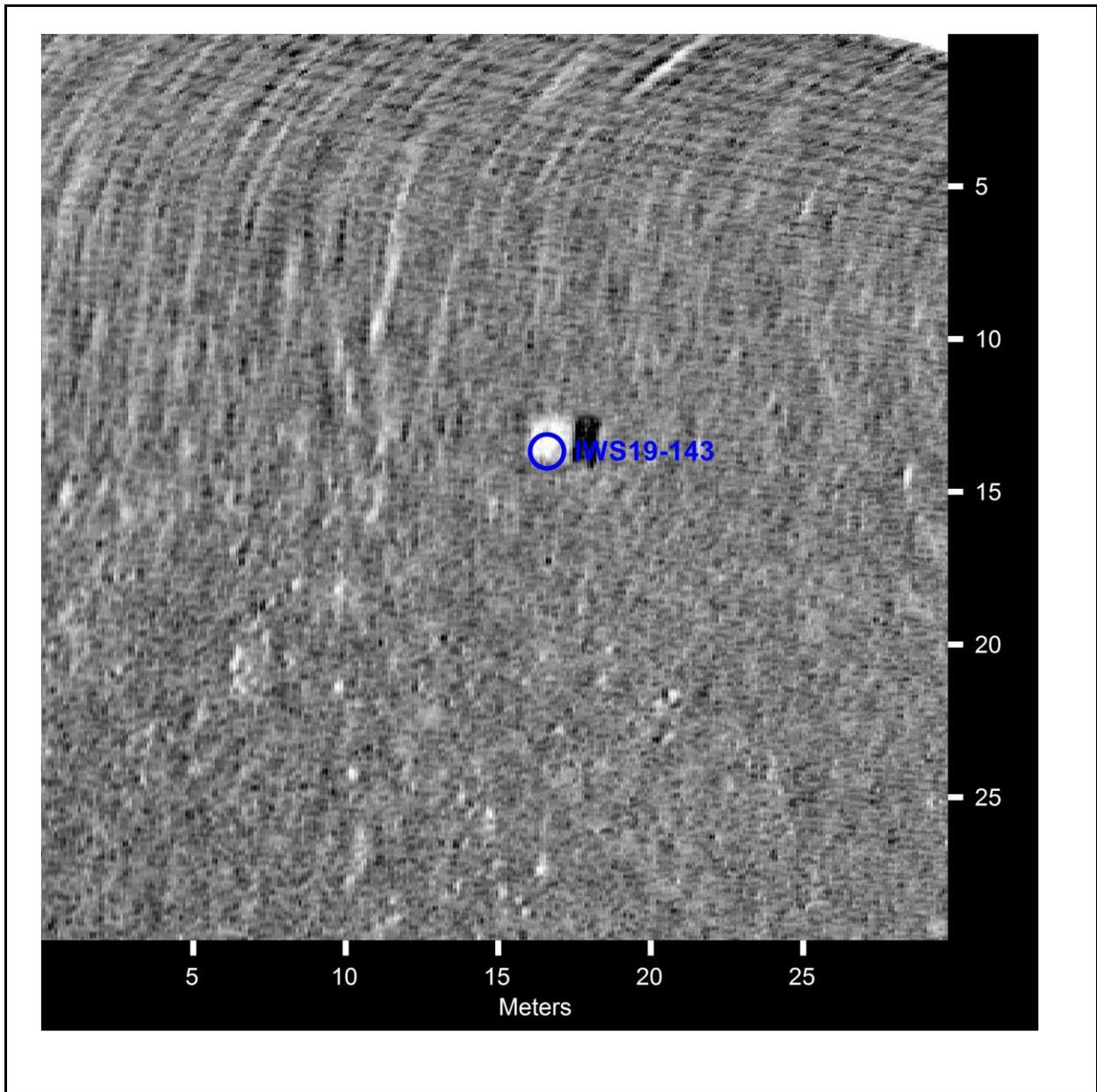
- Sonar Time at Target: 7/1/2019 7:38:19 PM
- Position  
42.4440582138 -70.5756953082 (WGS84)  
(X) 276041.12 (Y) 910804.59 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_191012\_11419.20190702\_000822.xtf
- Ping Number: 86330
- Range to target: 25.26 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.60 Meters
- Target Height: 0.09 Meters
- Target Length: 1.32 Meters
- Target Shadow: 1.33 Meters
- Classification1: Trap
- Description: Trap cluster



<p><b>IWS19-142</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:37:59 PM</li><li>• Position 42.4440700684 -70.5760919584 (WGS84) (X) 276008.48 (Y) 910805.55 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_191012_11419.20190702_000822.xtf</li><li>• Ping Number: 85326</li><li>• Range to target: 38.18 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.78 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.34 Meters</li><li>• Target Shadow: 1.02 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap cluster</li></ul>
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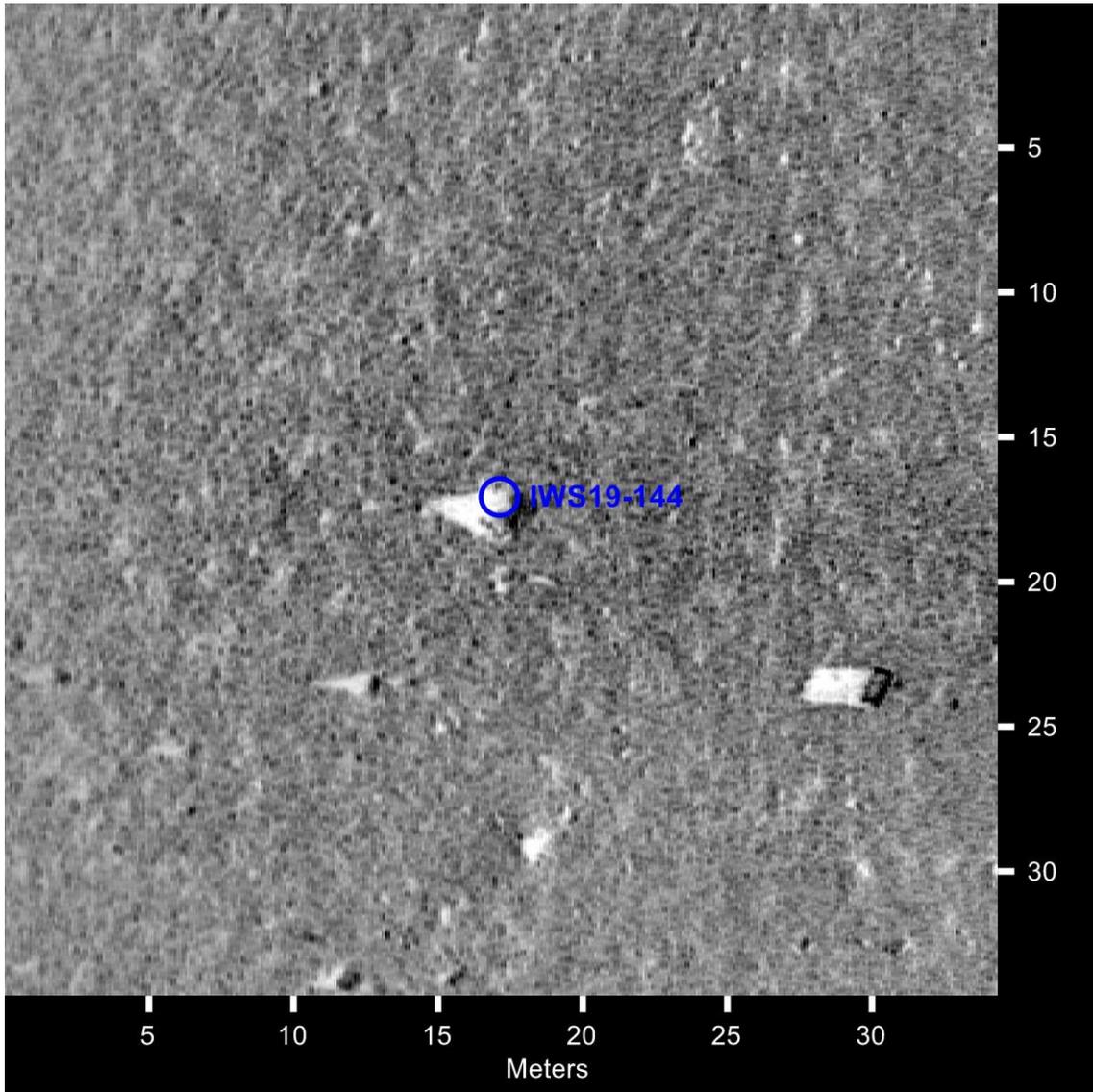


**IWS19-143**

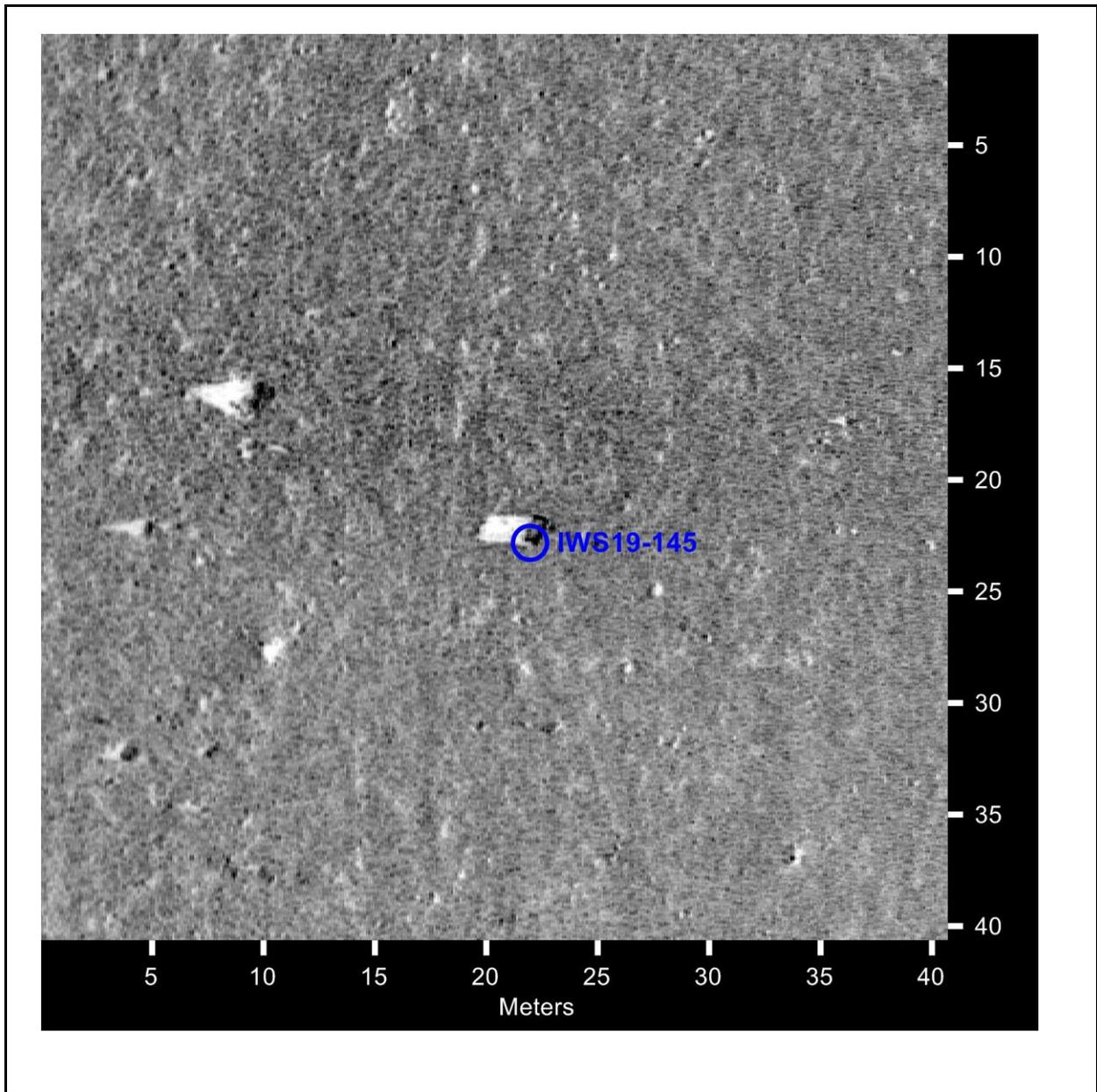
- Sonar Time at Target: 7/1/2019 7:39:48 PM
- Position  
42.4441369492 -70.5754888591 (WGS84)  
(X) 276058.01 (Y) 910813.52 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 1379
- Range to target: 45.95 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.73 Meters
- Target Height: 0.06 Meters
- Target Length: 1.73 Meters
- Target Shadow: 1.51 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-144</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:40:00 PM</li><li>• Position 42.4439512909 -70.5755733898 (WGS84) (X) 276051.28 (Y) 910792.82 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 2034</li><li>• Range to target: 62.64 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.86 Meters</li><li>• Target Height: 0.06 Meters</li><li>• Target Length: 1.53 Meters</li><li>• Target Shadow: 2.12 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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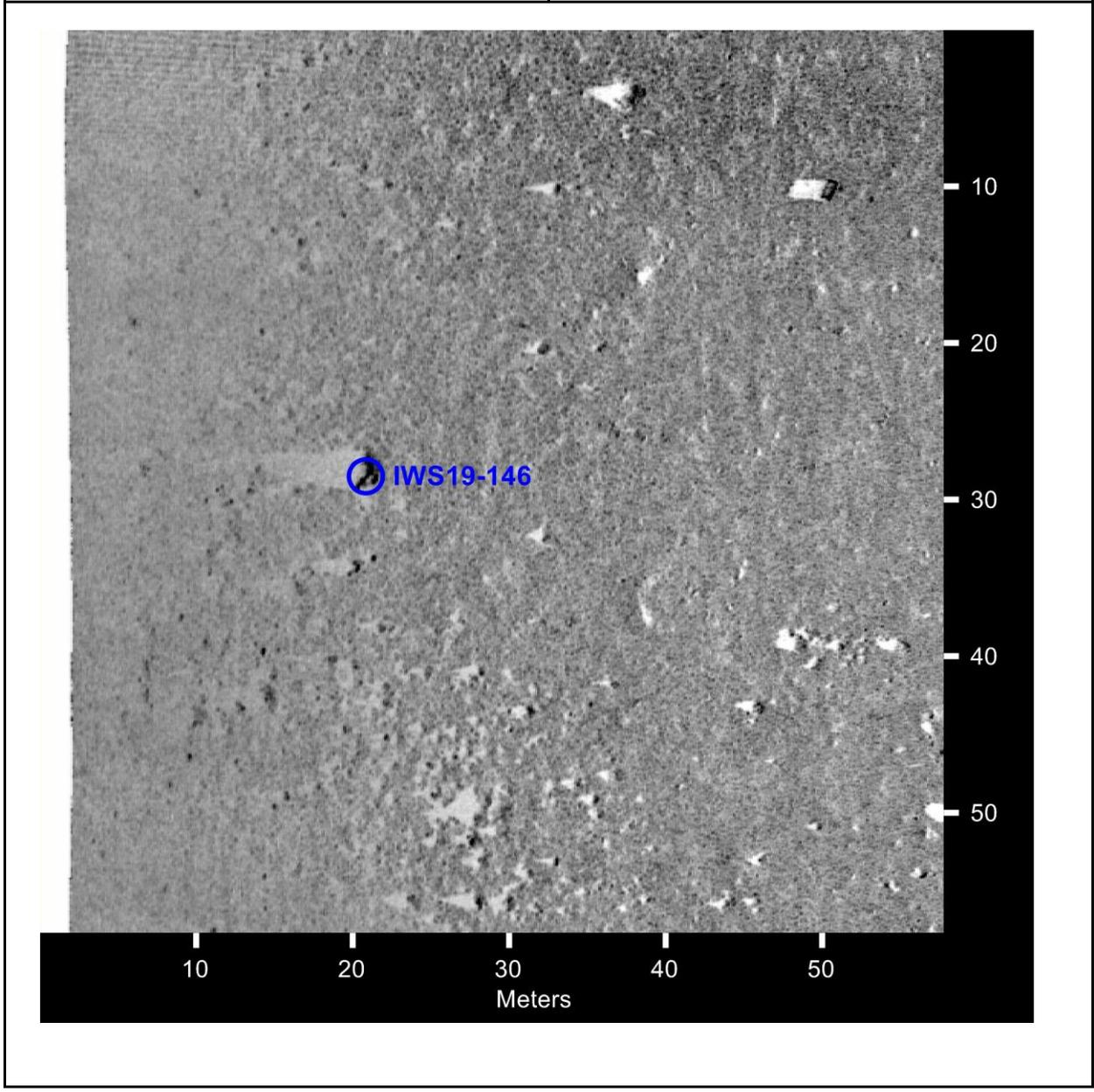


**IWS19-145**

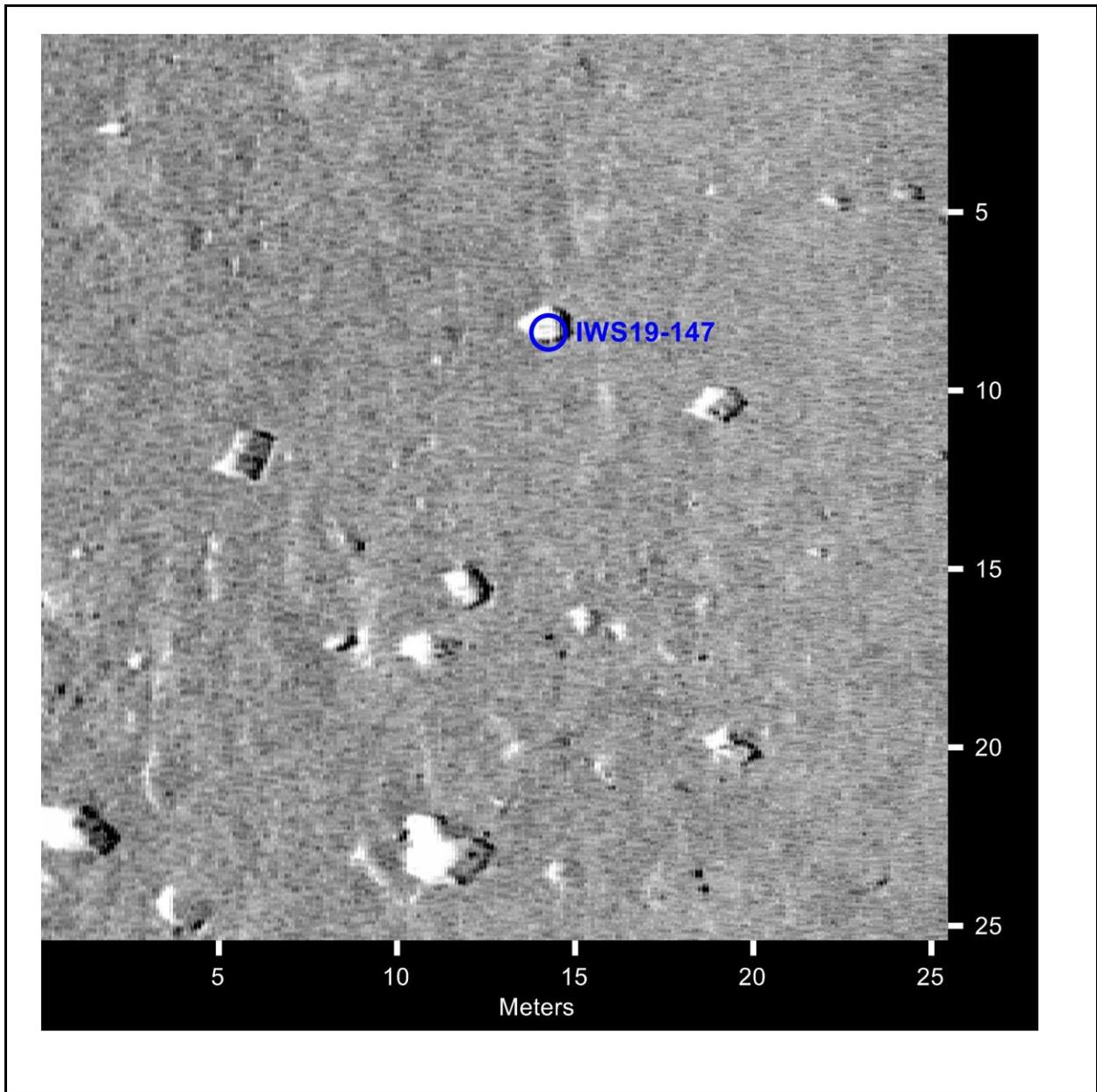
- Sonar Time at Target: 7/1/2019 7:40:05 PM
- Position  
42.4440346631 -70.5757110331 (WGS84)  
(X) 276039.86 (Y) 910801.96 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 2279
- Range to target: 49.84 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.63 Meters
- Target Height: 0.08 Meters
- Target Length: 1.12 Meters
- Target Shadow: 2.20 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-146</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:40:17 PM</li><li>• Position 42.4437272430 -70.5757909245 (WGS84) (X) 276033.66 (Y) 910767.74 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 2884</li><li>• Range to target: 79.22 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.12 Meters</li><li>• Target Height: 0.11 Meters</li><li>• Target Length: 2.90 Meters</li><li>• Target Shadow: 4.90 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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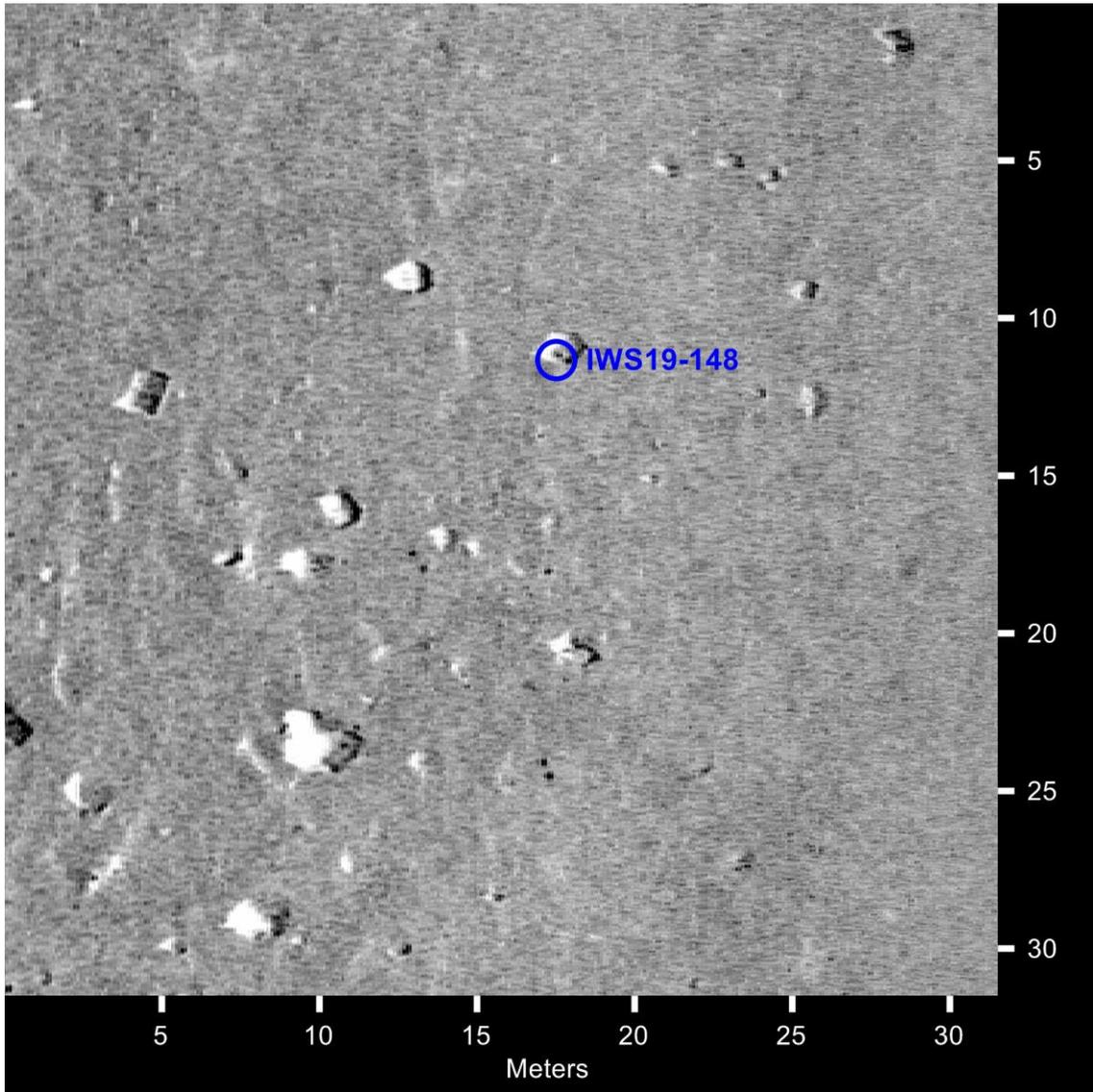


**IWS19-147**

- Sonar Time at Target: 7/1/2019 7:40:22 PM
- Position  
42.4441271451 -70.5760977629 (WGS84)  
(X) 276007.93 (Y) 910811.89 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 3144
- Range to target: 28.69 Meters
- Fish Height: 1.95 Meters

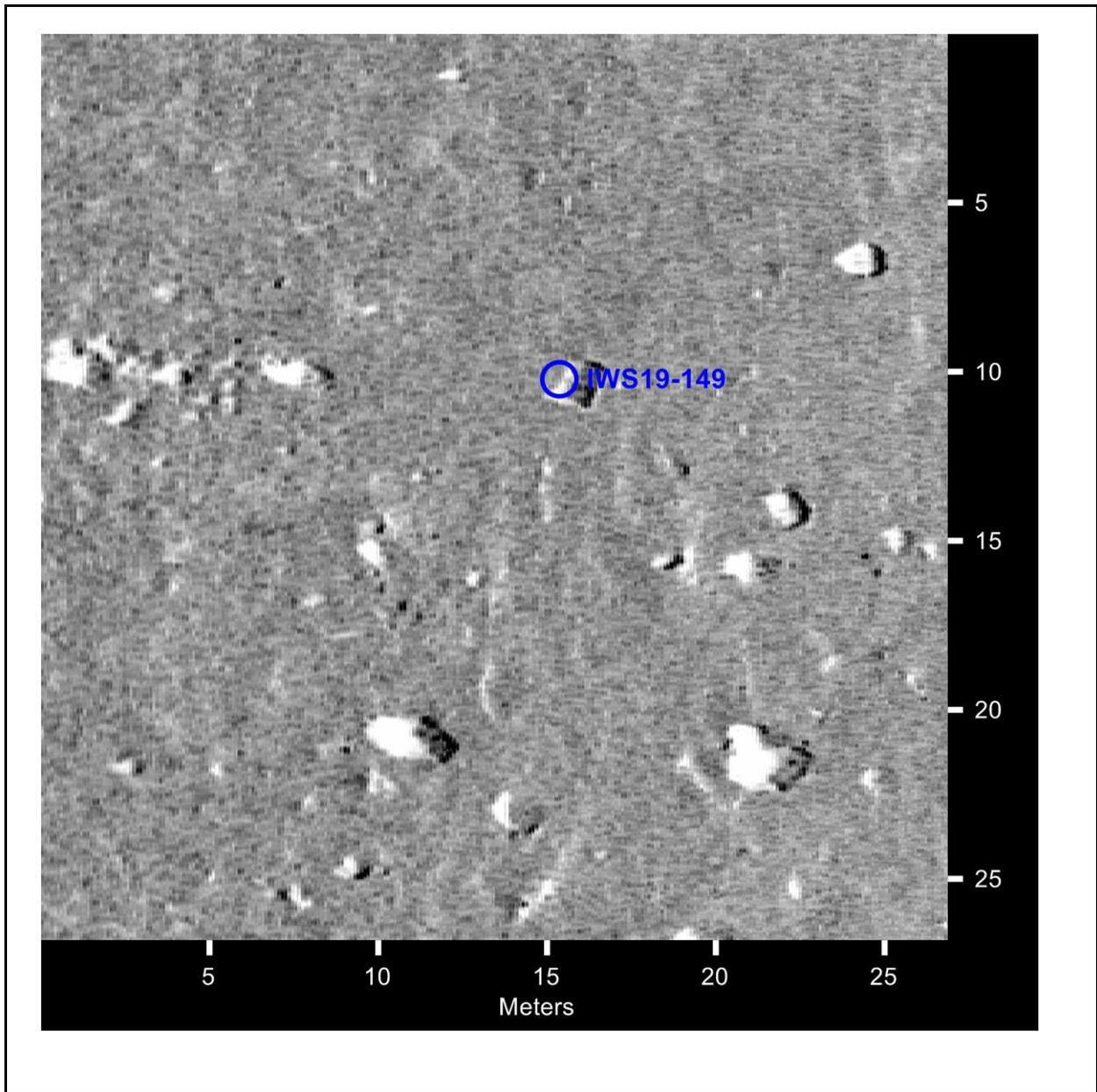
**Dimensions and attributes**

- Target Width: 0.44 Meters
- Target Height: 0.07 Meters
- Target Length: 1.06 Meters
- Target Shadow: 1.14 Meters
- Classification1: Trap
- Description: Trap cluster



Appendix C – IWS Contact Report

<p><b>IWS19-148</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:40:23 PM</li><li>• Position 42.4441578539 -70.5761446326 (WGS84) (X) 276004.04 (Y) 910815.26 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 3225</li><li>• Range to target: 24.12 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.77 Meters</li><li>• Target Height: 0.04 Meters</li><li>• Target Length: 1.31 Meters</li><li>• Target Shadow: 0.58 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap cluster</li></ul>
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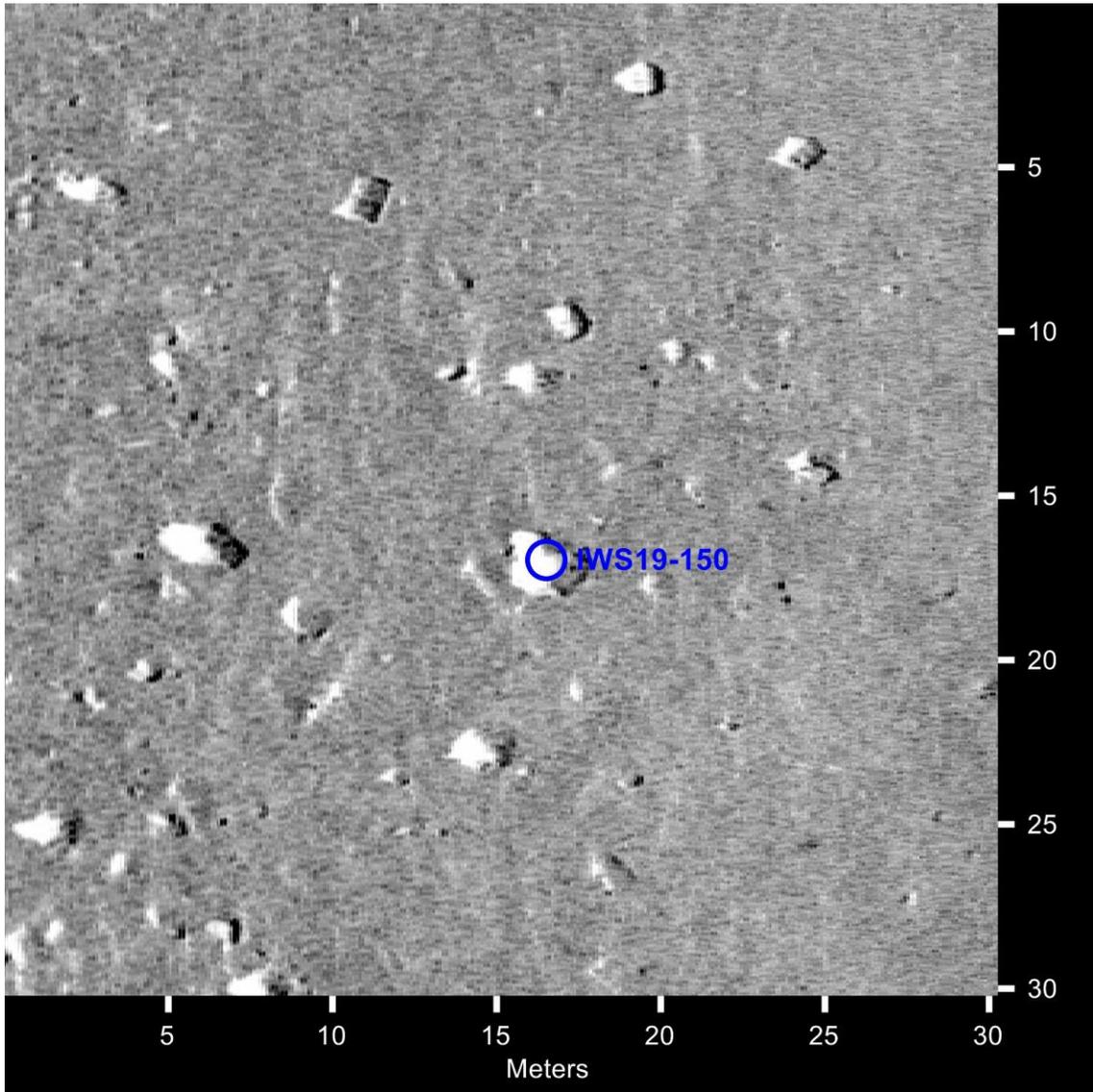


**IWS19-149**

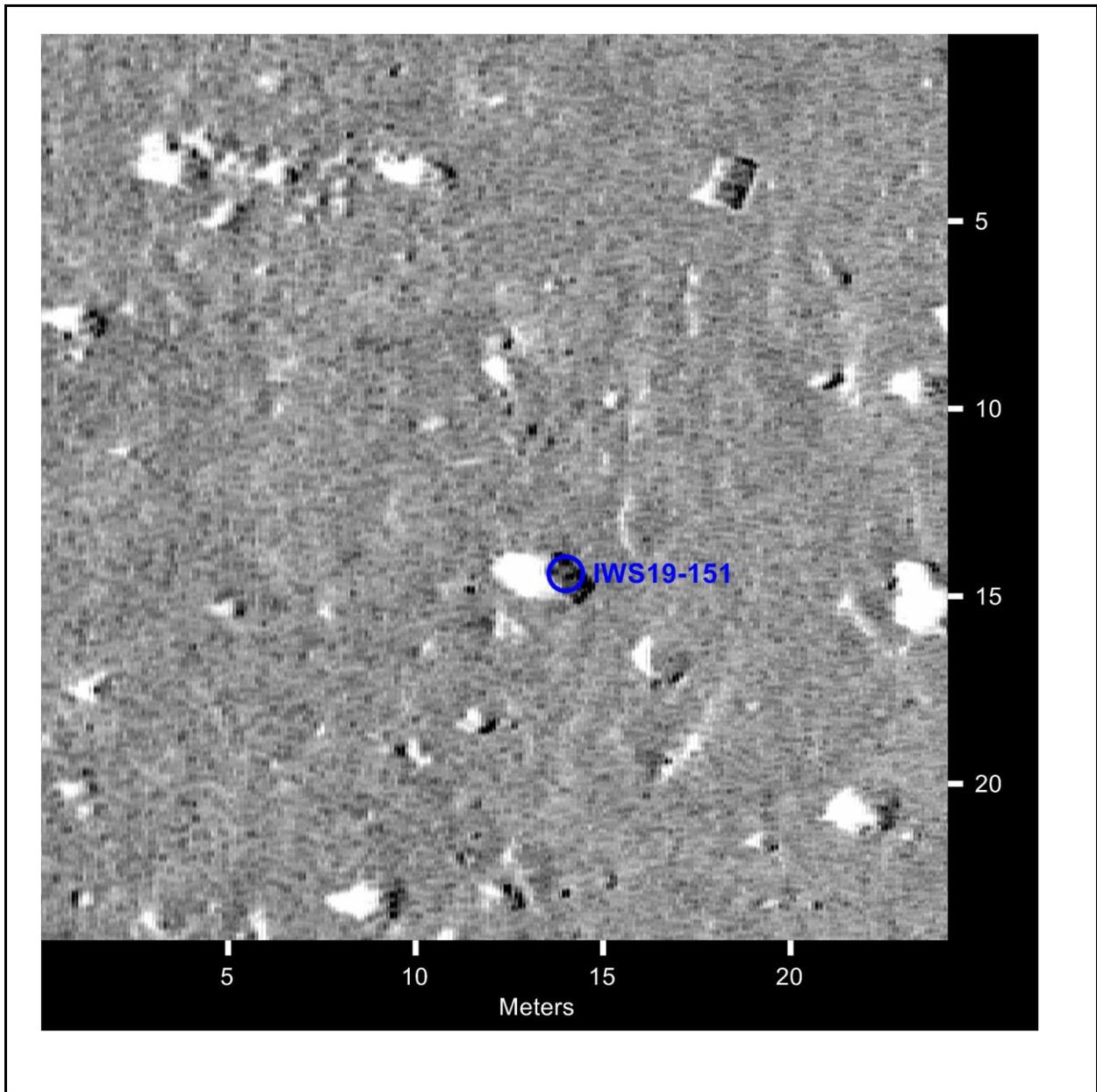
- Sonar Time at Target: 7/1/2019 7:40:24 PM
- Position  
42.4440407312 -70.5760951211 (WGS84)  
(X) 276008.25 (Y) 910802.29 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 3256
- Range to target: 37.72 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.90 Meters
- Target Height: 0.03 Meters
- Target Length: 1.54 Meters
- Target Shadow: 0.60 Meters
- Classification1: Trap
- Description: Trap cluster



<p><b>IWS19-150</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:40:31 PM</li><li>• Position 42.4440558273 -70.5762452848 (WGS84) (X) 275995.88 (Y) 910803.84 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 3633</li><li>• Range to target: 31.66 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.68 Meters</li><li>• Target Height: 0.07 Meters</li><li>• Target Length: 1.35 Meters</li><li>• Target Shadow: 1.28 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap cluster</li></ul>
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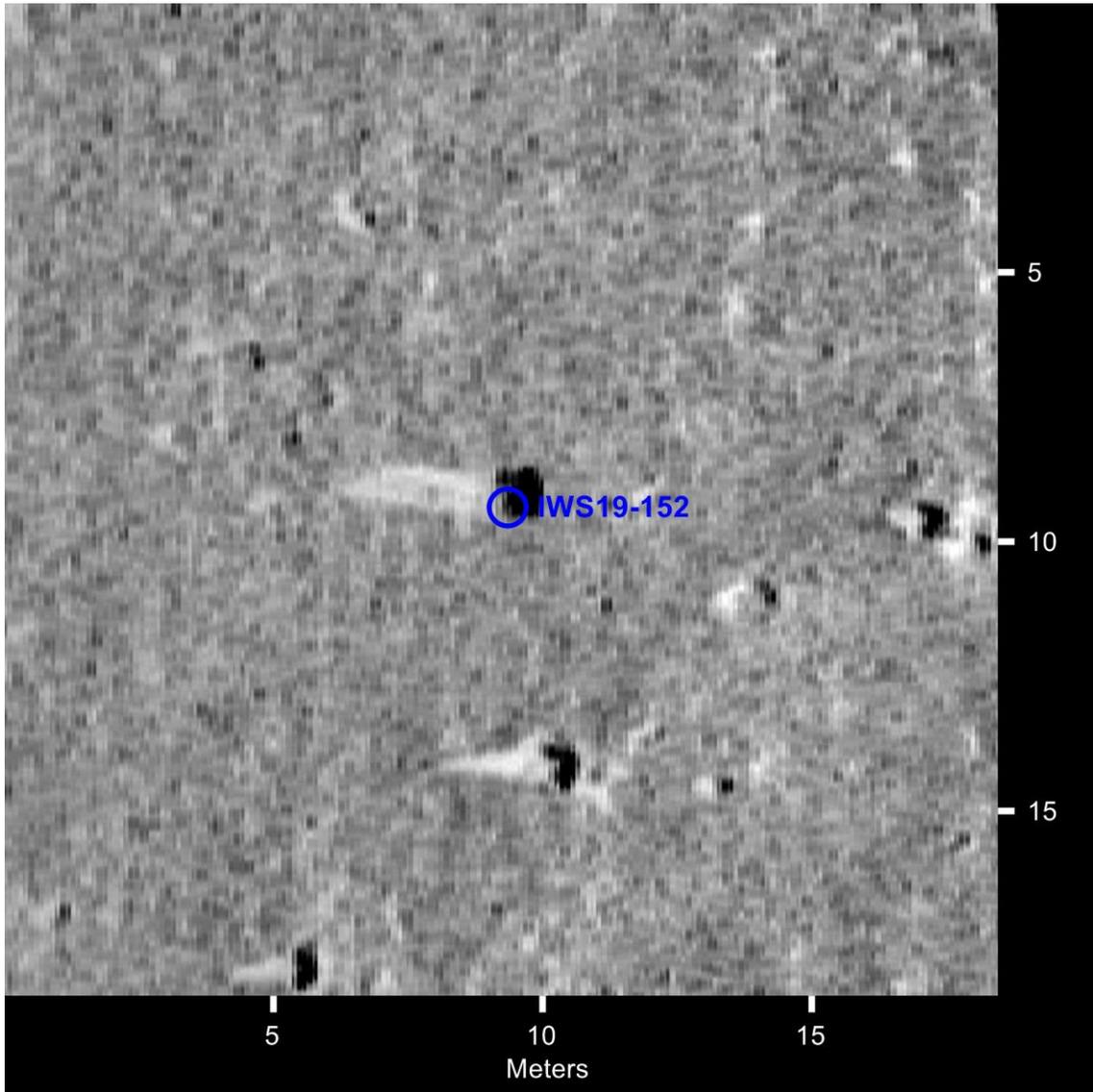


**IWS19-151**

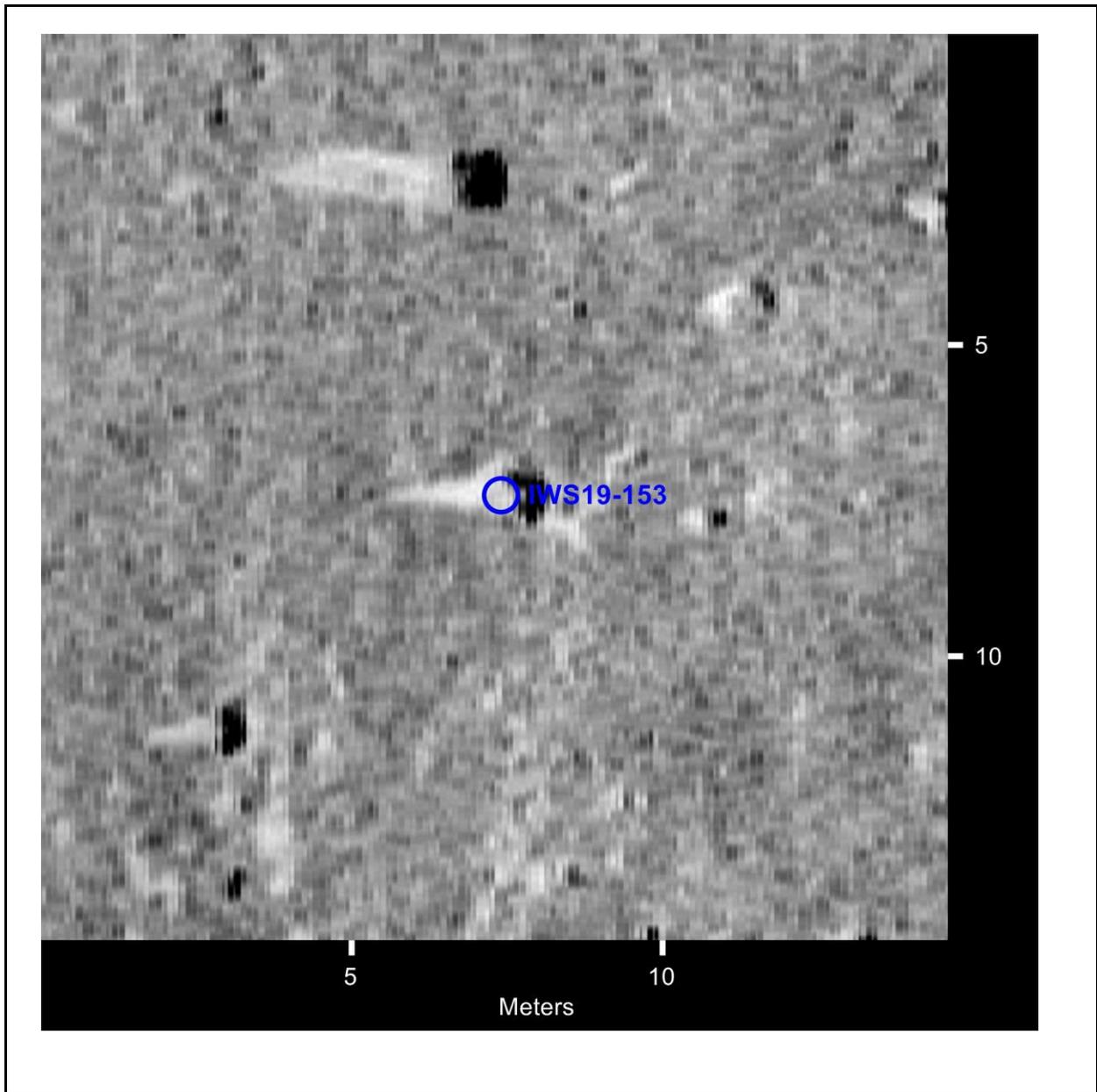
- Sonar Time at Target: 7/1/2019 7:40:31 PM
- Position  
42.4439752938 -70.5761952915 (WGS84)  
(X) 276000.09 (Y) 910794.94 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 3614
- Range to target: 41.49 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.91 Meters
- Target Height: 0.08 Meters
- Target Length: 1.49 Meters
- Target Shadow: 1.72 Meters
- Classification1: Trap
- Description: Trap cluster



<p><b>IWS19-152</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:40:45 PM</li><li>• Position 42.4436814920 -70.5763317079 (WGS84) (X) 275989.22 (Y) 910762.18 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 4380</li><li>• Range to target: 67.67 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.69 Meters</li><li>• Target Height: 0.07 Meters</li><li>• Target Length: 1.02 Meters</li><li>• Target Shadow: 2.73 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap cluster</li></ul>
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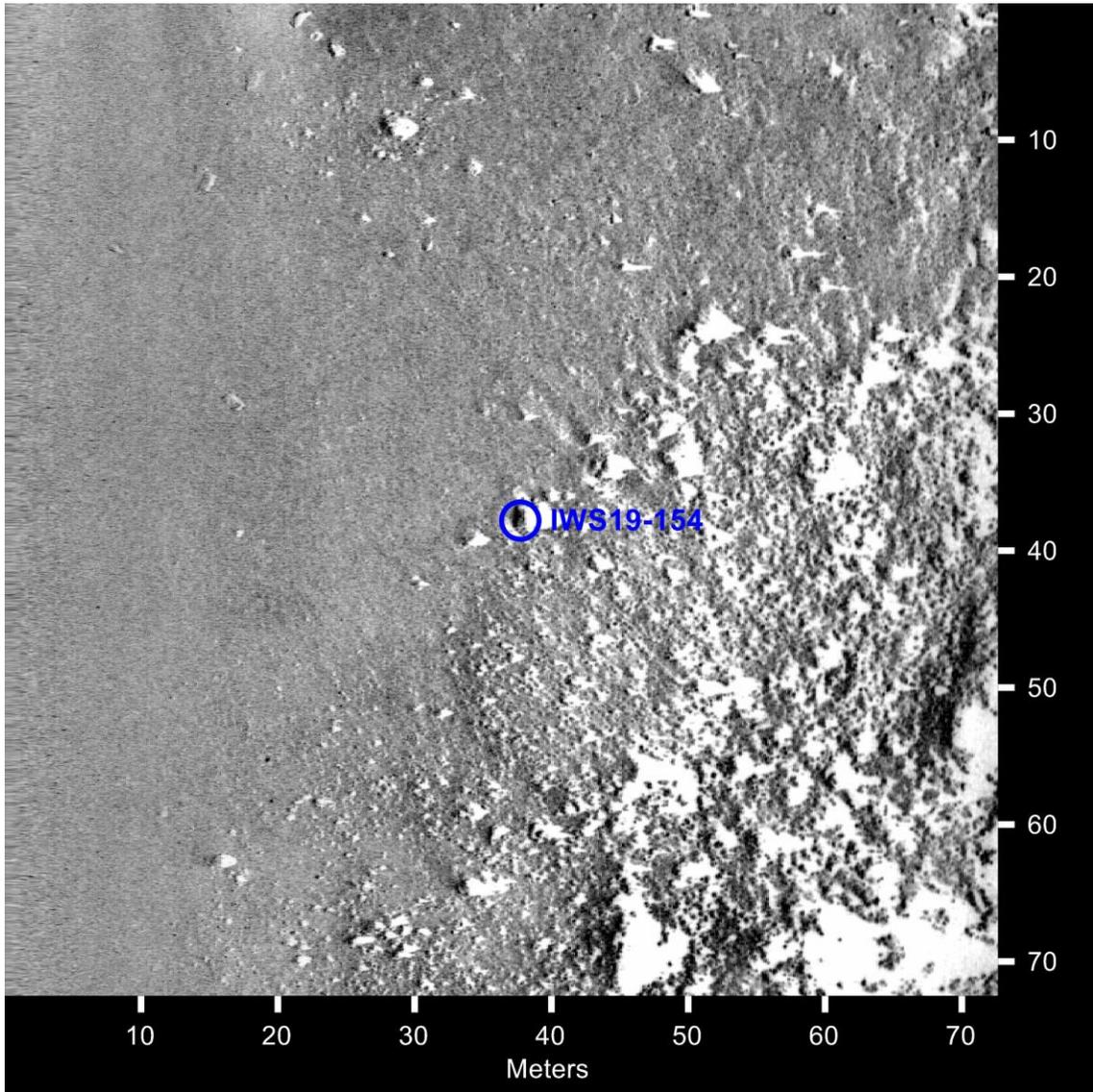


**IWS19-153**

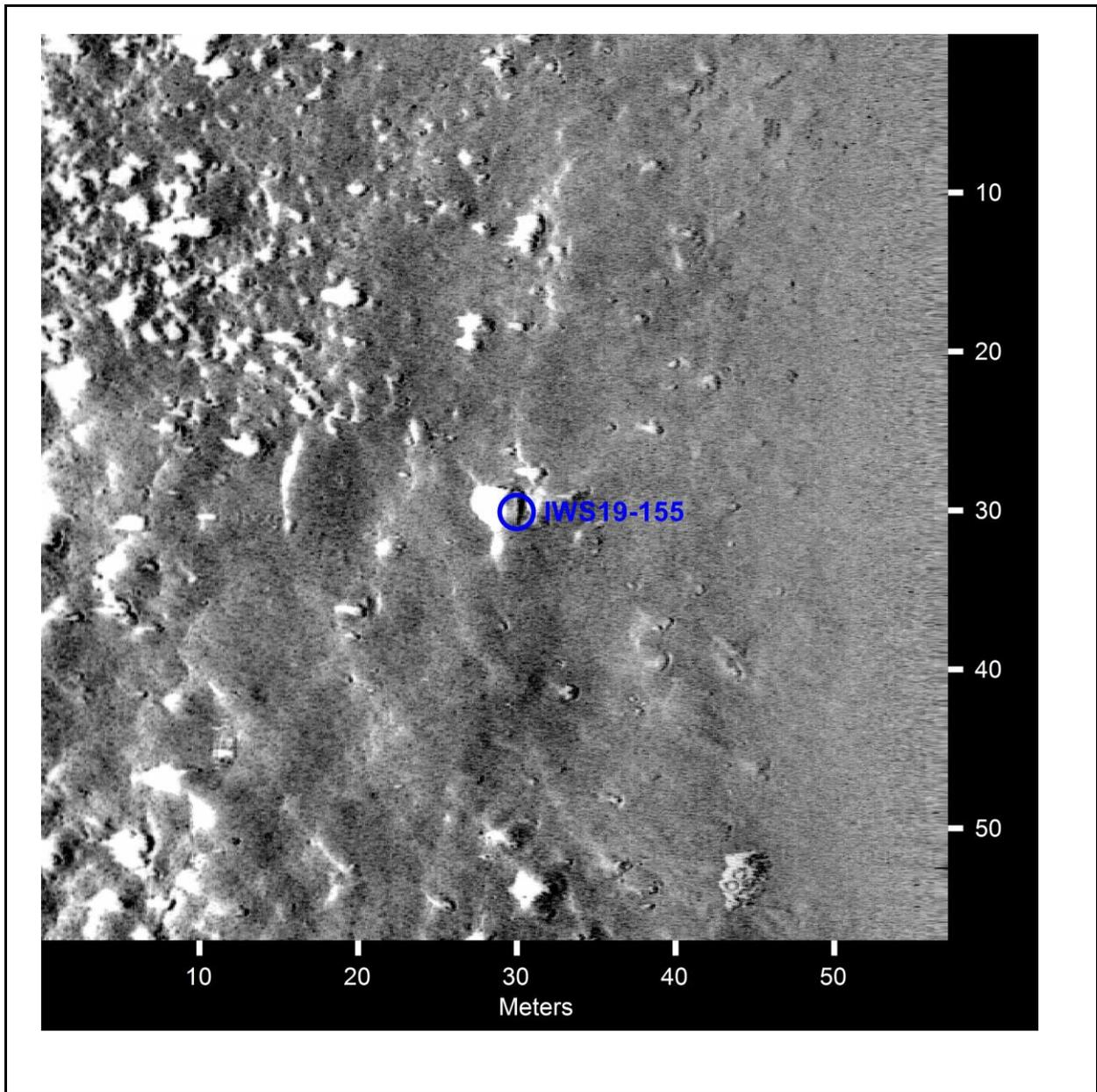
- Sonar Time at Target: 7/1/2019 7:40:48 PM
- Position  
42.4436699538 -70.5763898603 (WGS84)  
(X) 275984.45 (Y) 910760.85 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 4542
- Range to target: 67.10 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.85 Meters
- Target Height: 0.05 Meters
- Target Length: 0.97 Meters
- Target Shadow: 1.45 Meters
- Classification1: Trap
- Description: Trap cluster. Appears partially buried.



<p><b>IWS19-154</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:40:28 PM</li><li>• Position 42.4446545751 -70.5765015938 (WGS84) (X) 275974.08 (Y) 910870.11 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 3474</li><li>• Range to target: 37.95 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.11 Meters</li><li>• Target Height: 0.14 Meters</li><li>• Target Length: 1.32 Meters</li><li>• Target Shadow: 3.07 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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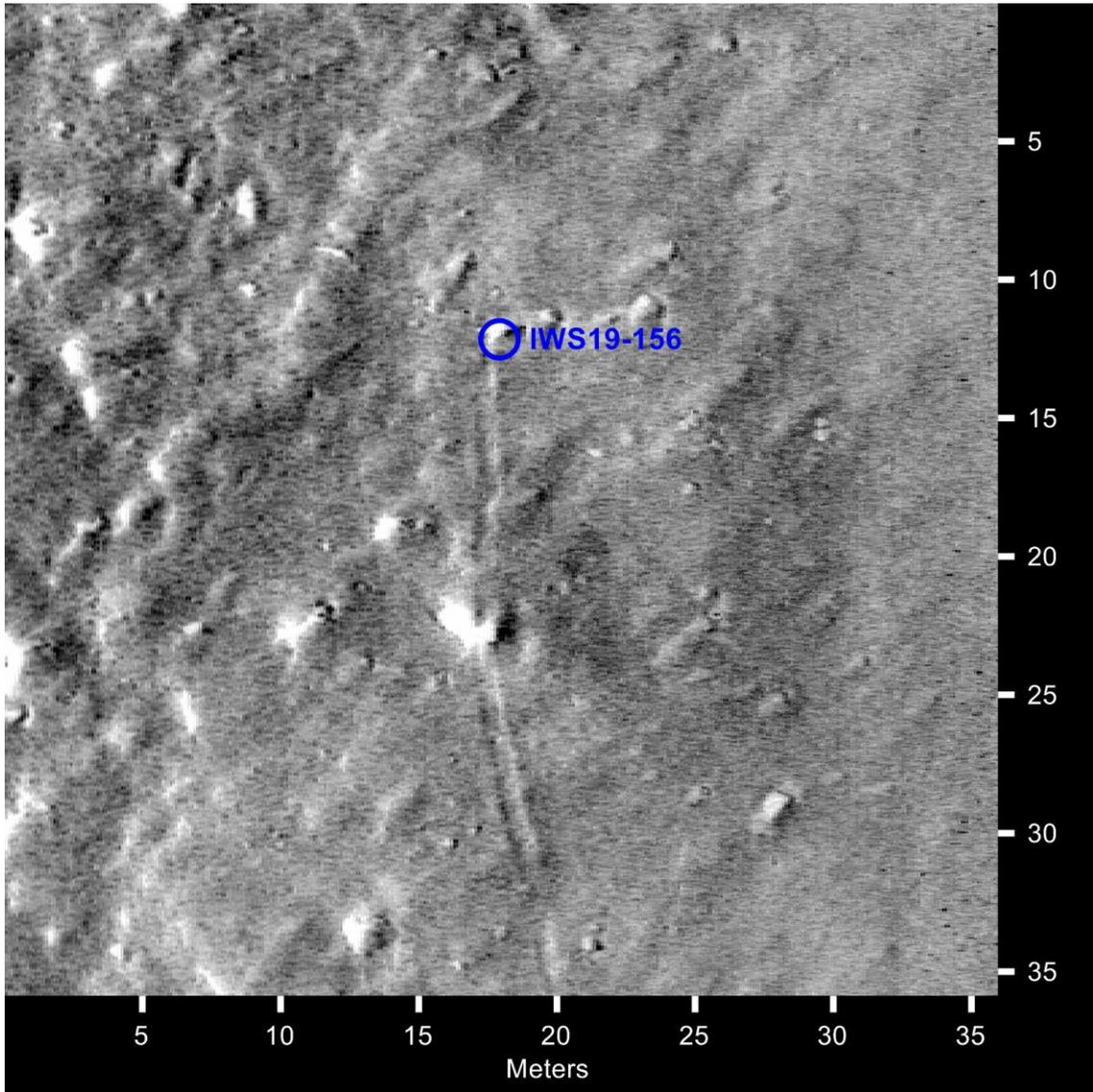
Appendix C – IWS Contact Report

**IWS19-155**

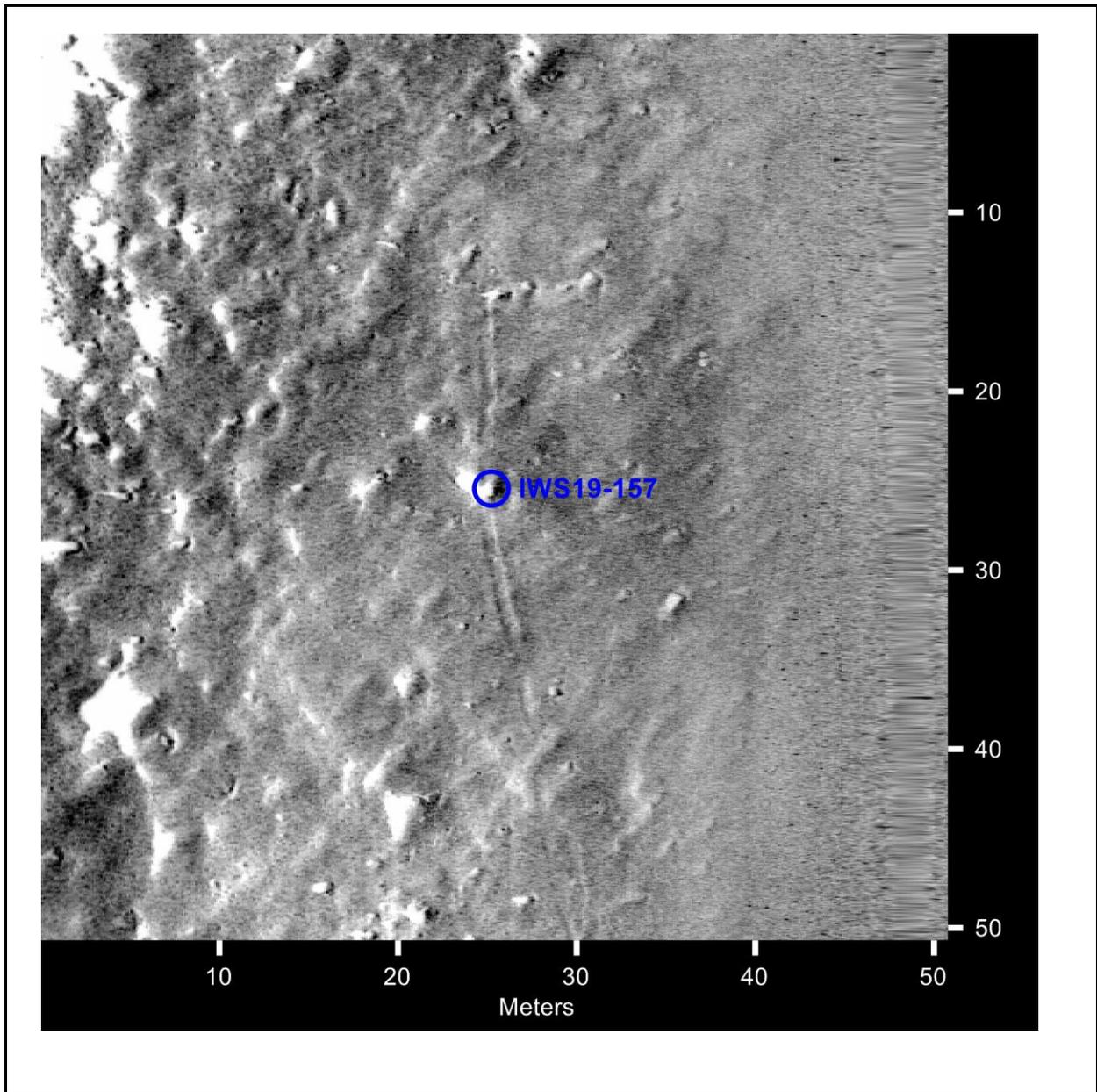
- Sonar Time at Target: 7/1/2019 7:42:06 PM
- Position  
42.4436069133 -70.5779424508 (WGS84)  
(X) 275856.80 (Y) 910752.46 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 8596
- Range to target: 27.66 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.52 Meters
- Target Height: 0.15 Meters
- Target Length: 2.23 Meters
- Target Shadow: 2.34 Meters
- Classification1: debris
- Description: Possibly cylindrical. Appears partially buried.



<p><b>IWS19-156</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:43:59 PM</li><li>• Position 42.4430792174 -70.5799464176 (WGS84) (X) 275692.58 (Y) 910692.07 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 14412</li><li>• Range to target: 23.20 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.64 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 0.94 Meters</li><li>• Target Shadow: 0.72 Meters</li><li>• Classification1: Trap</li><li>• Description: Low confidence. Appears partially buried.</li></ul>
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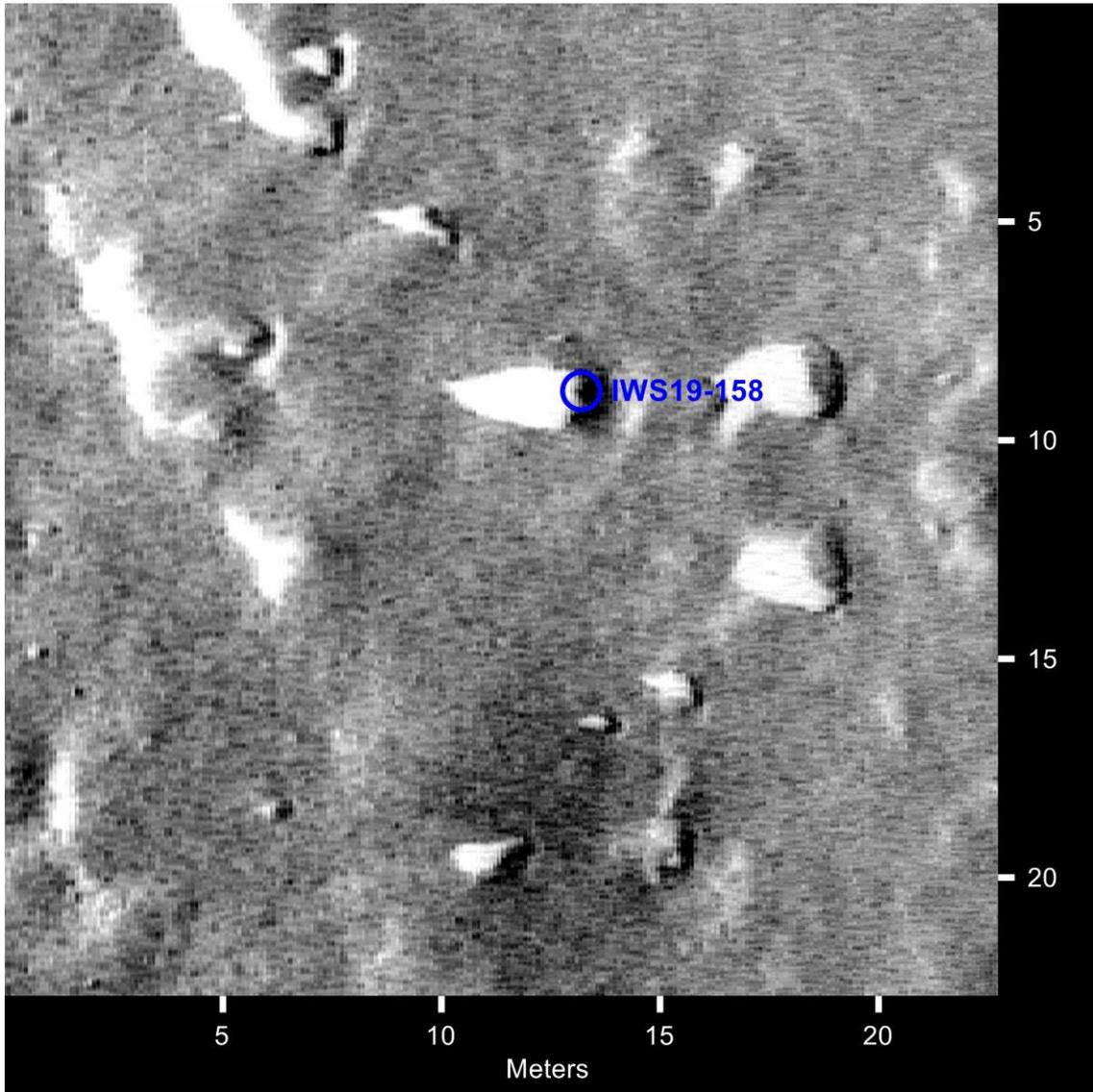


**IWS19-157**

- Sonar Time at Target: 7/1/2019 7:44:06 PM
- Position  
42.4430430121 -70.5800637622 (WGS84)  
(X) 275682.97 (Y) 910687.95 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 14764
- Range to target: 23.43 Meters
- Fish Height: 1.95 Meters

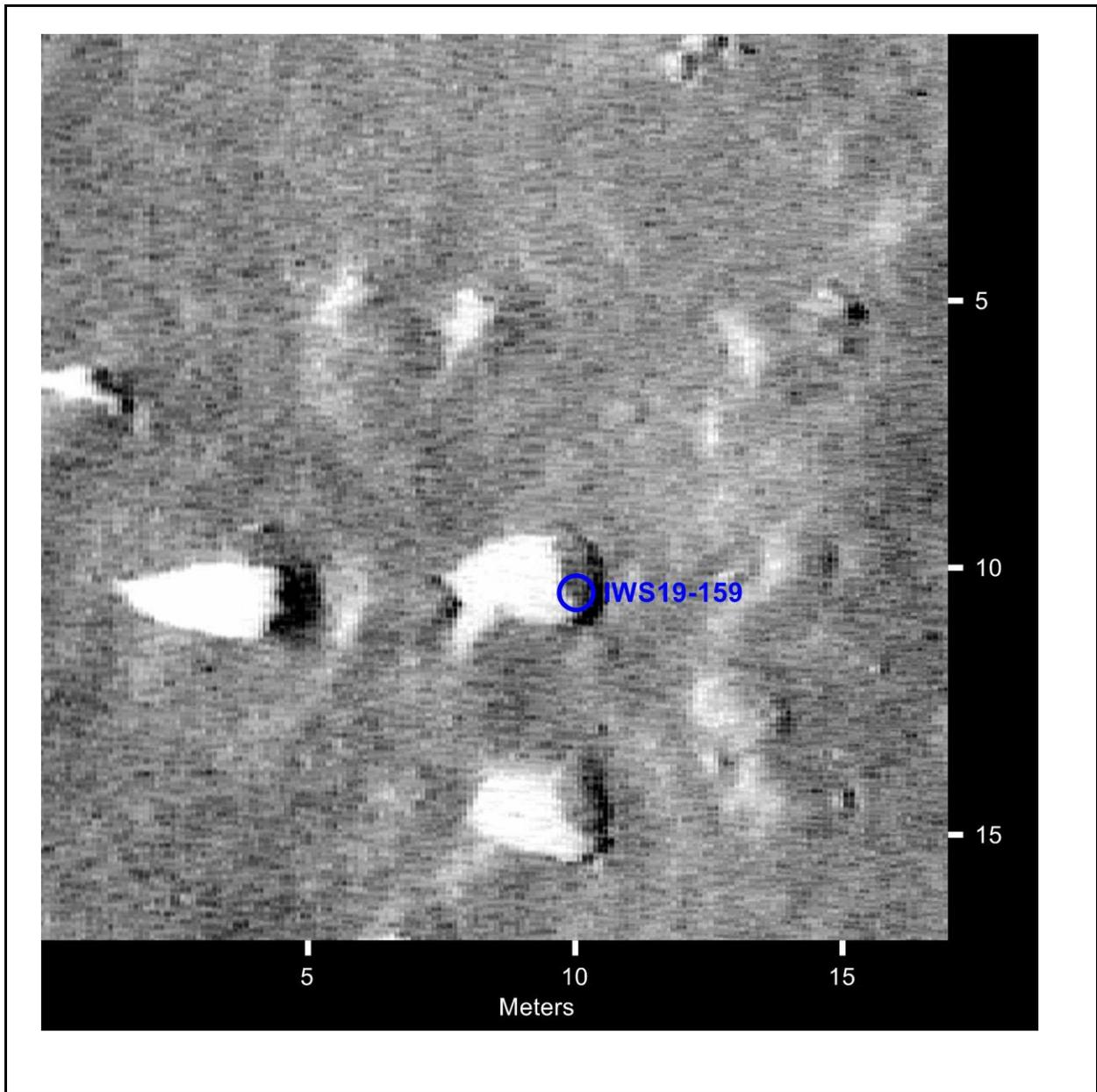
**Dimensions and attributes**

- Target Width: 0.90 Meters
- Target Height: 0.15 Meters
- Target Length: 1.06 Meters
- Target Shadow: 1.95 Meters
- Classification1: Trap
- Description: Low confidence. Appears partially buried.



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<p><b>IWS19-158</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:44:50 PM</li><li>• Position 42.4428138433 -70.5808292968 (WGS84) (X) 275620.26 (Y) 910661.81 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 17027</li><li>• Range to target: 24.23 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.89 Meters</li><li>• Target Height: 0.18 Meters</li><li>• Target Length: 1.36 Meters</li><li>• Target Shadow: 2.44 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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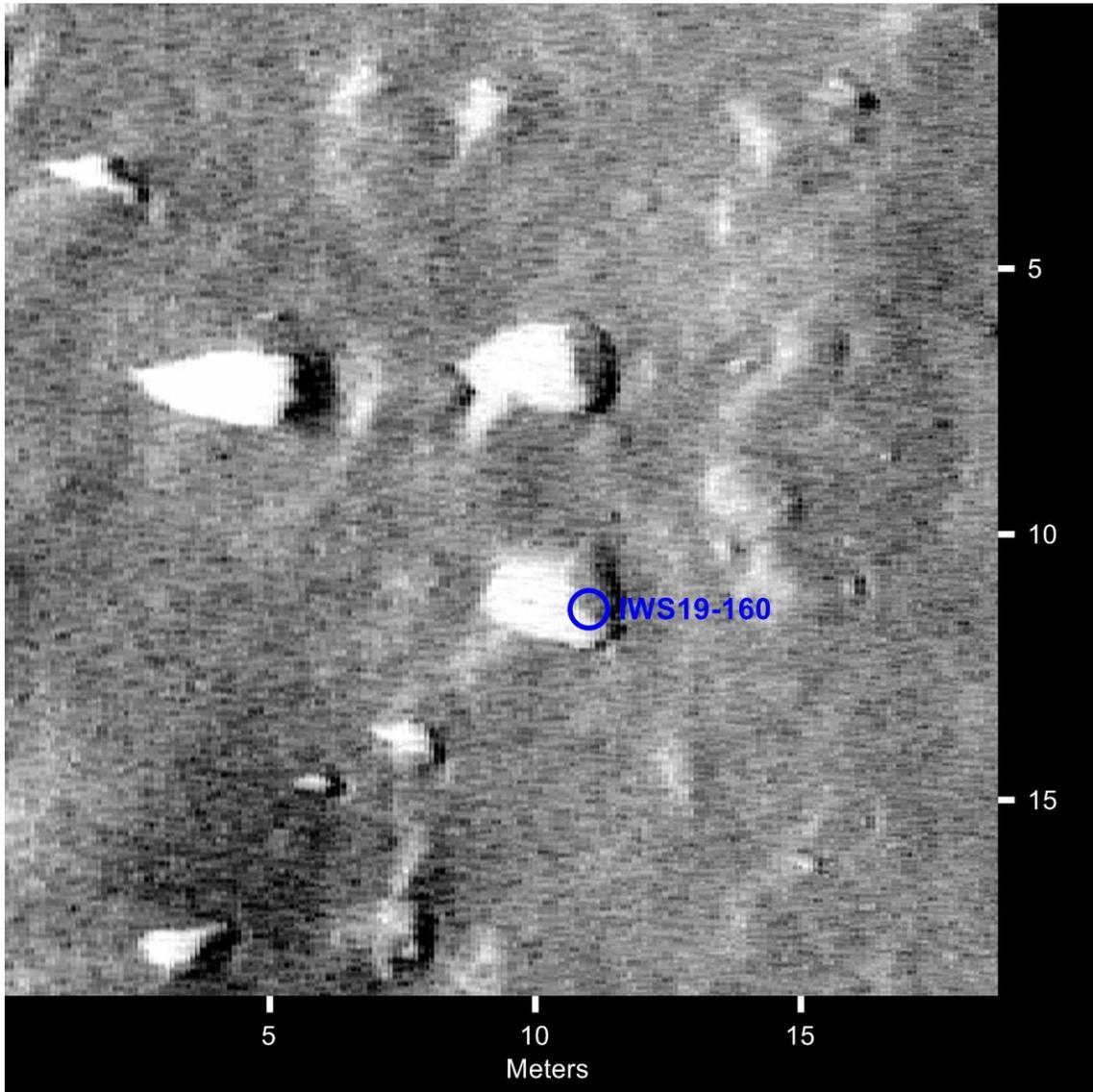


**IWS19-159**

- Sonar Time at Target: 7/1/2019 7:44:50 PM
- Position  
42.4428599654 -70.5808531711 (WGS84)  
(X) 275618.24 (Y) 910666.91 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 17027
- Range to target: 18.75 Meters
- Fish Height: 1.95 Meters

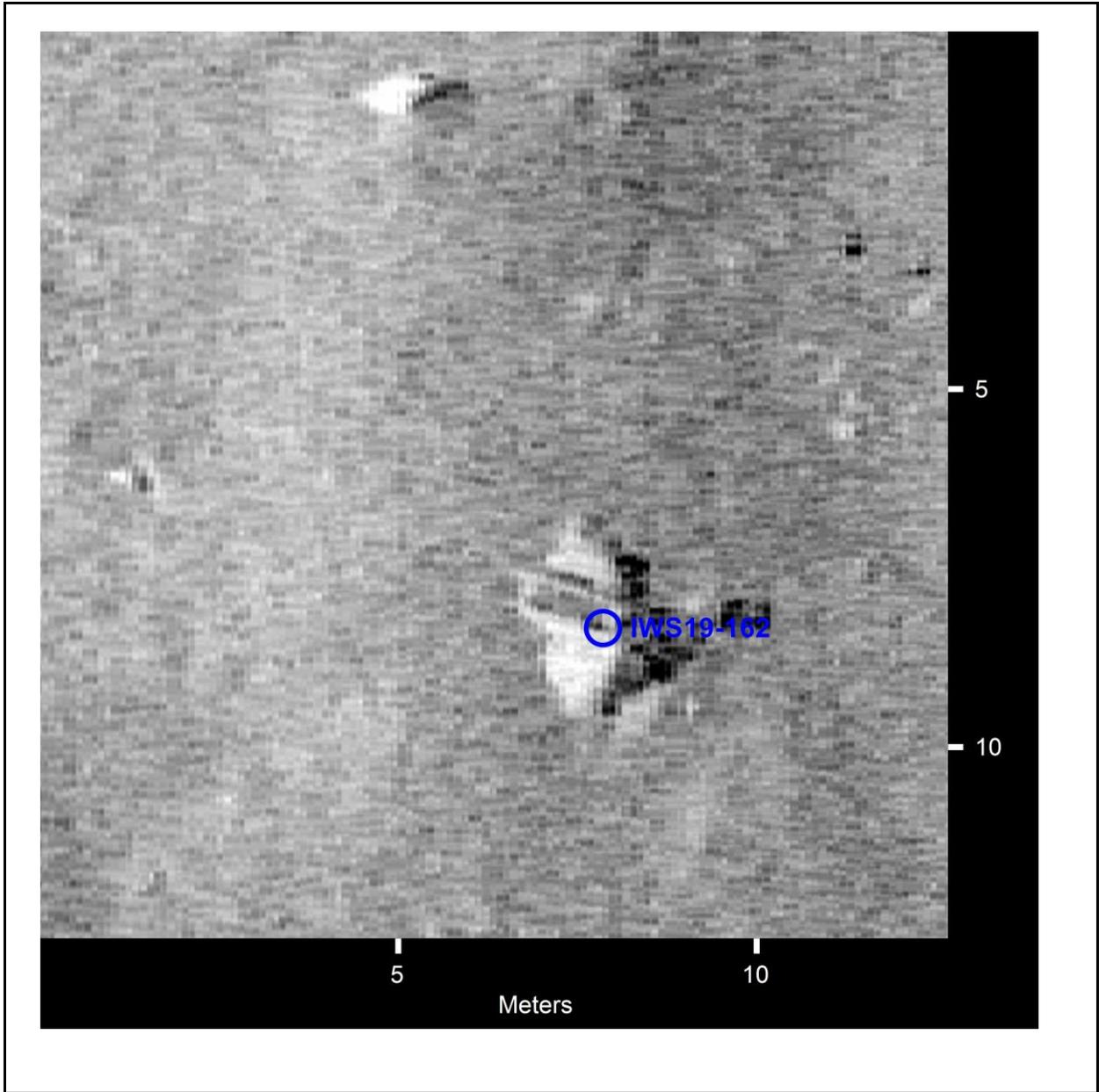
**Dimensions and attributes**

- Target Width: 1.04 Meters
- Target Height: 0.21 Meters
- Target Length: 1.94 Meters
- Target Shadow: 2.31 Meters
- Classification1: debris
- Description: Debris or trap. Possibly cylindrical.



Appendix C – IWS Contact Report

<p><b>IWS19-160</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:44:52 PM</li><li>• Position 42.4428460181 -70.5809023276 (WGS84) (X) 275614.22 (Y) 910665.32 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 17171</li><li>• Range to target: 18.75 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.02 Meters</li><li>• Target Height: 0.21 Meters</li><li>• Target Length: 1.92 Meters</li><li>• Target Shadow: 2.20 Meters</li><li>• Classification1: debris</li><li>• Description: Debris or trap. Possibly cylindrical.</li></ul>
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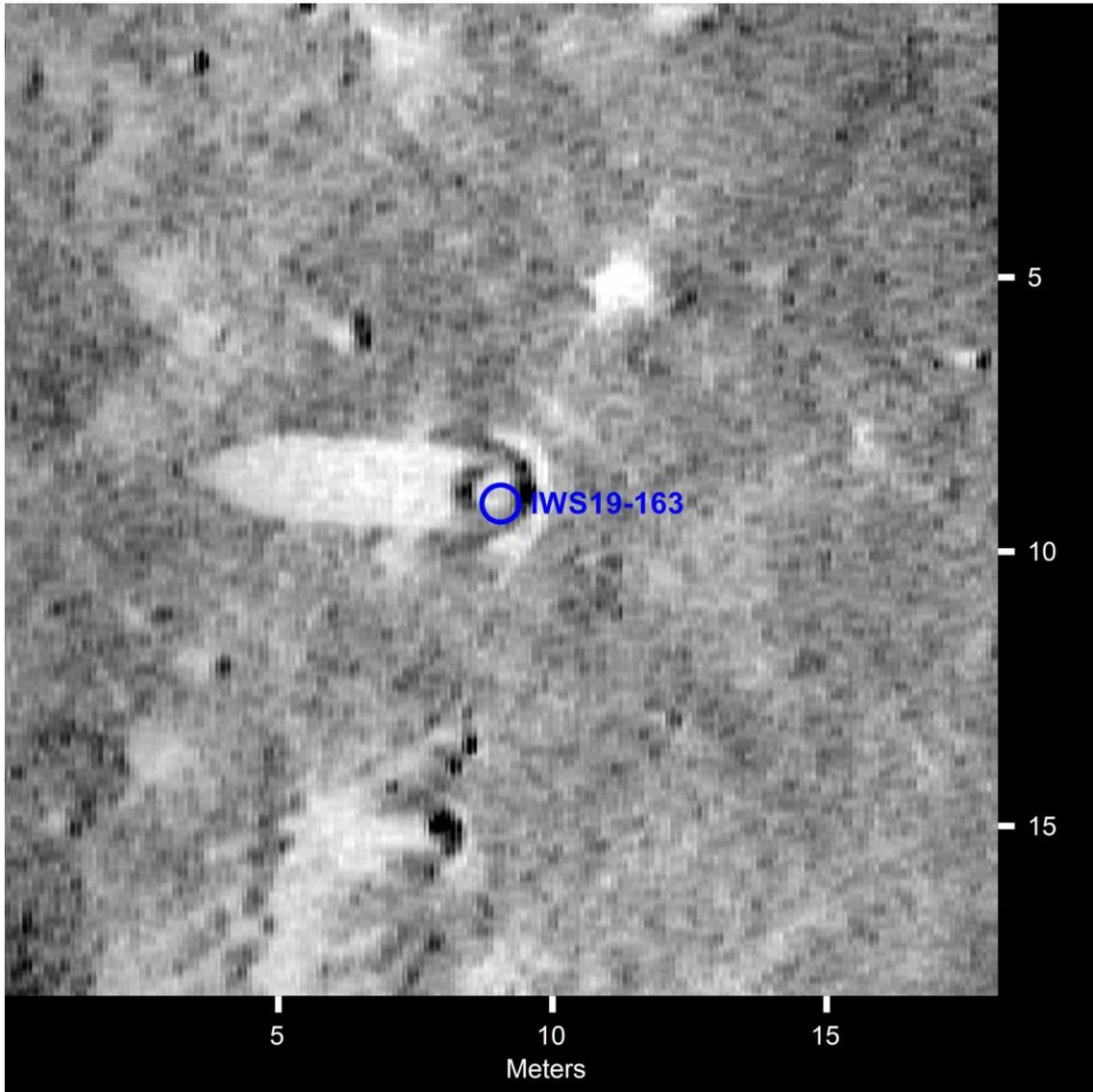


**IWS19-162**

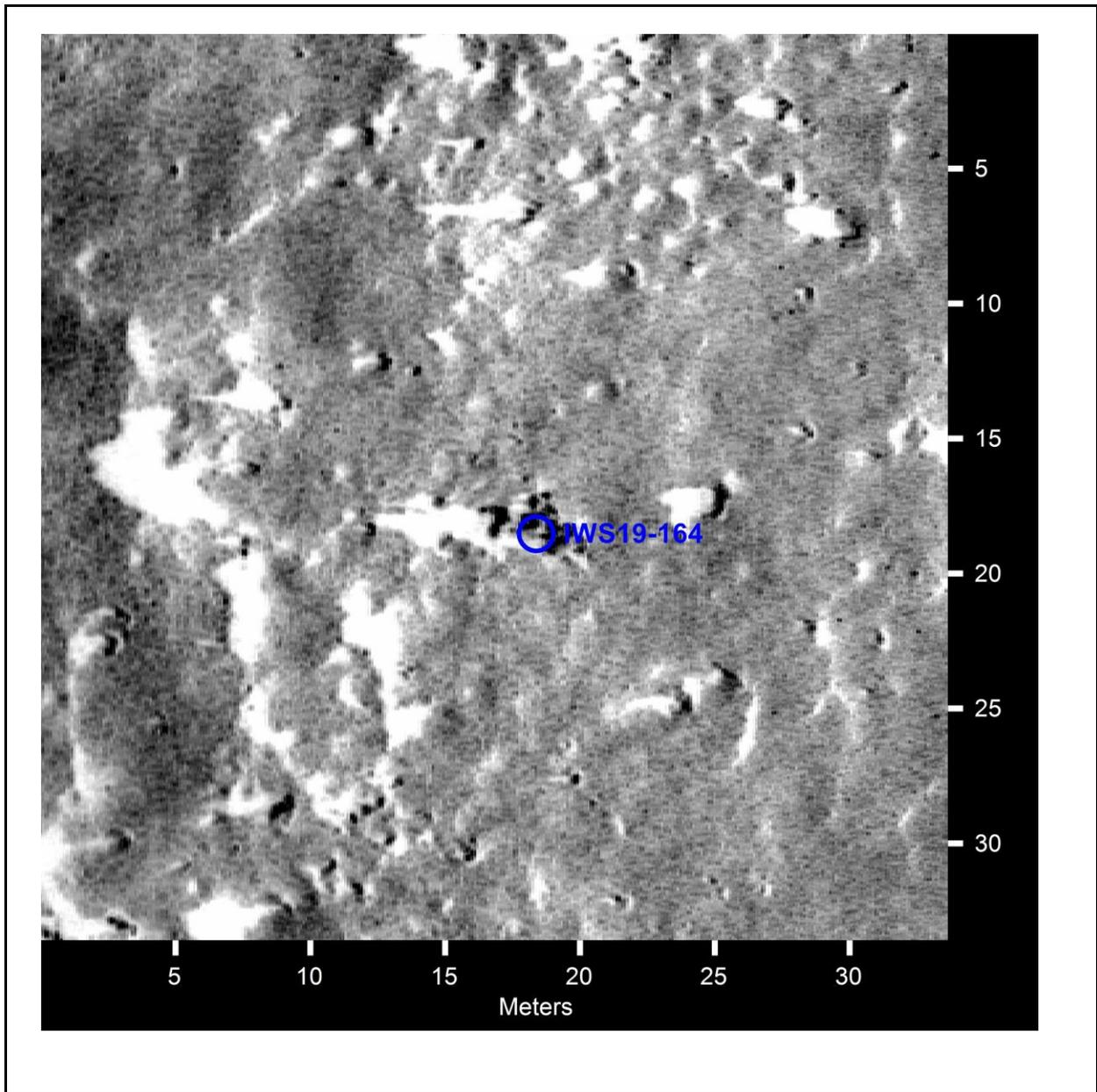
- Sonar Time at Target: 7/1/2019 7:45:19 PM
- Position  
42.4426975277 -70.5813667925 (WGS84)  
(X) 275576.18 (Y) 910648.42 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 18559
- Range to target: 20.46 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.52 Meters
- Target Height: 0.10 Meters
- Target Length: 2.41 Meters
- Target Shadow: 1.11 Meters
- Classification1: debris
- Description: Debris and trap.



<p><b>IWS19-163</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:52:34 PM</li><li>• Position 42.4401370709 -70.5888756960 (WGS84) (X) 274961.49 (Y) 910357.39 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 41009</li><li>• Range to target: 63.44 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.77 Meters</li><li>• Target Height: 0.18 Meters</li><li>• Target Length: 2.58 Meters</li><li>• Target Shadow: 6.18 Meters</li><li>• Classification1: debris</li><li>• Description: Possibly cylindrical.</li></ul>
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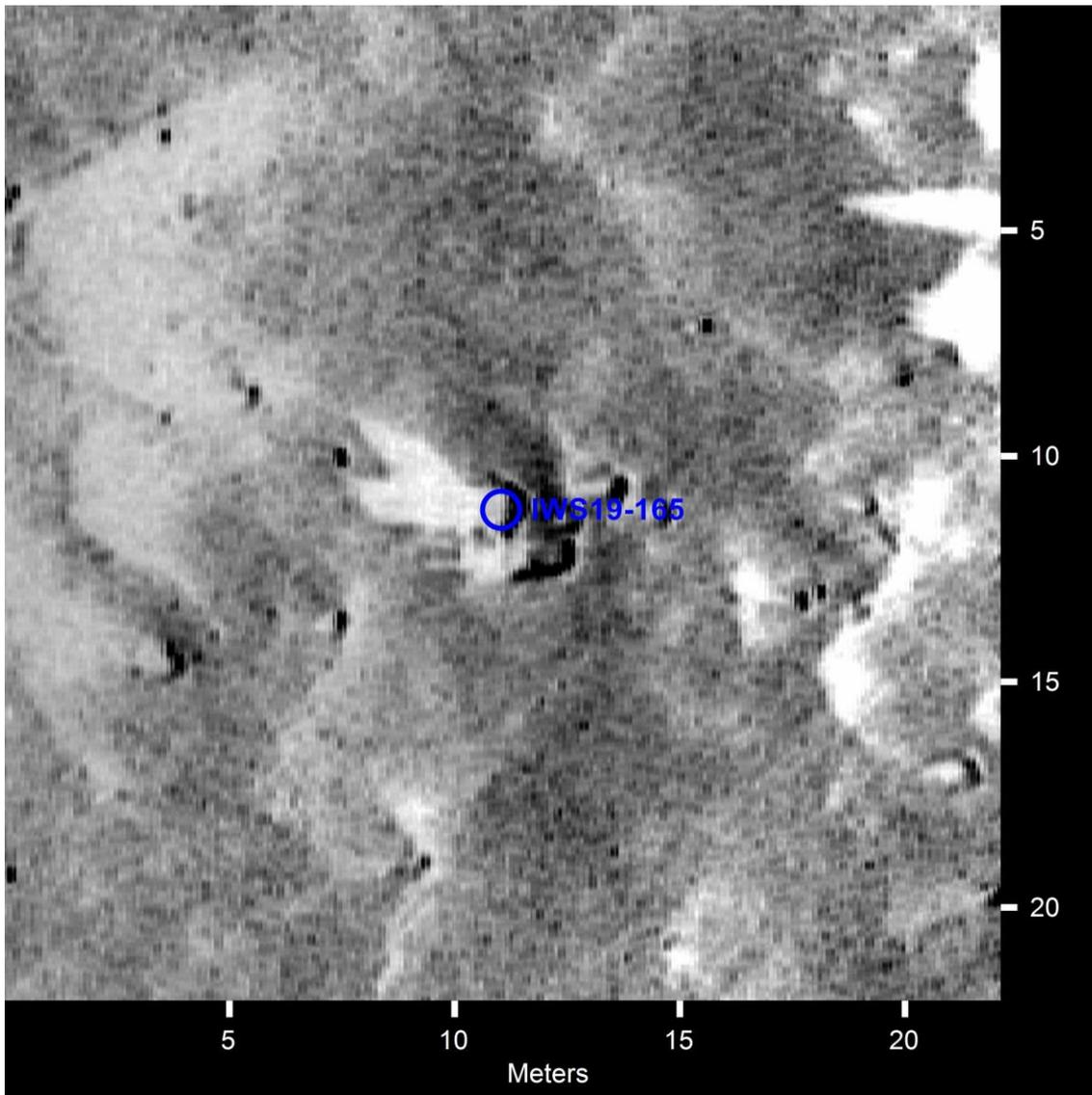


**IWS19-164**

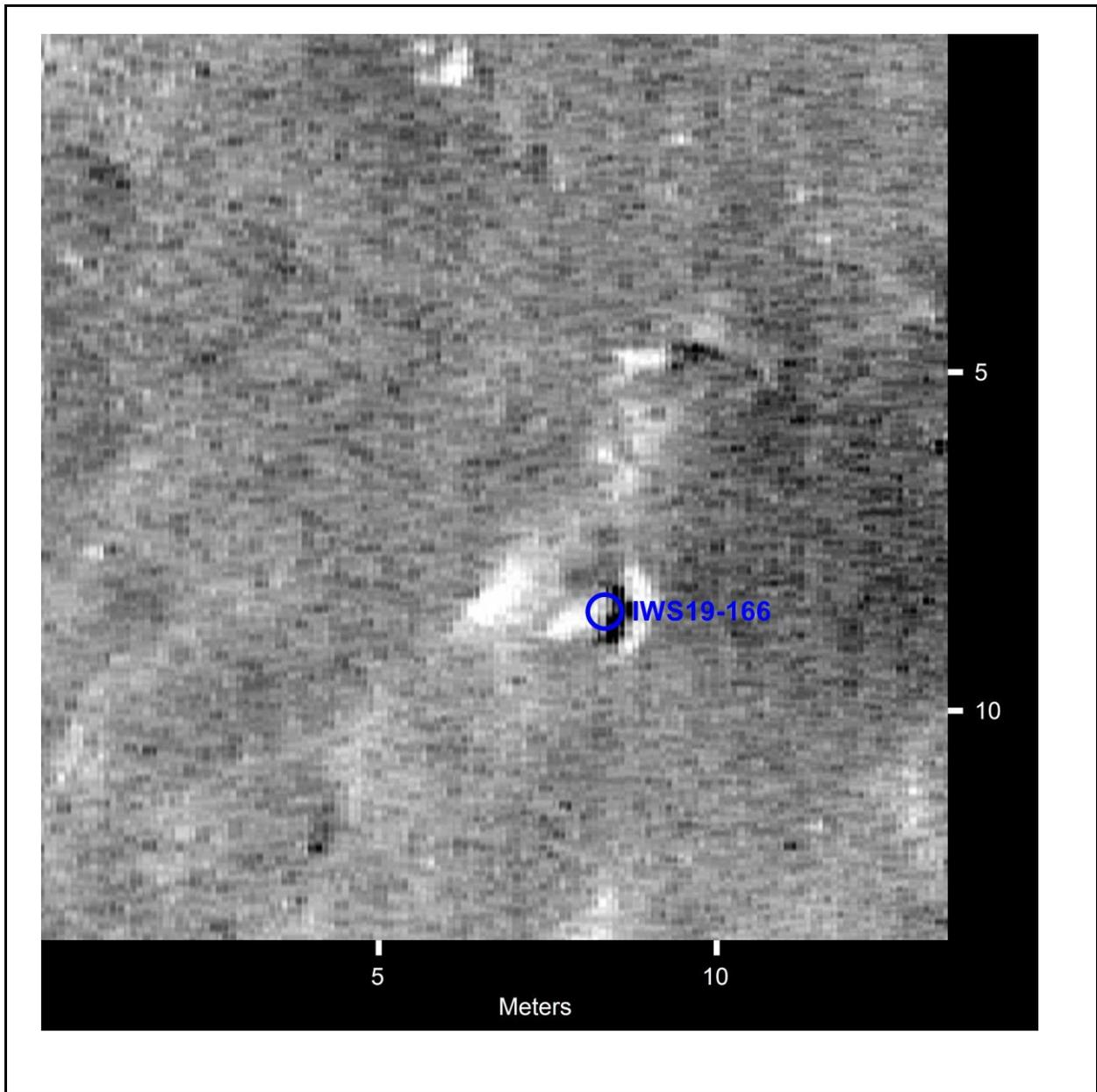
- Sonar Time at Target: 7/1/2019 7:53:57 PM
- Position  
42.4398723144 -70.5903999177 (WGS84)  
(X) 274836.40 (Y) 910326.65 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 45273
- Range to target: 45.72 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.57 Meters
- Target Height: 0.21 Meters
- Target Length: 3.27 Meters
- Target Shadow: 5.39 Meters
- Classification1: debris
- Description:



<p><b>IWS19-165</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 7:55:16 PM</li><li>• Position 42.4393237158 -70.5916732239 (WGS84) (X) 274732.30 (Y) 910264.60 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 49259</li><li>• Range to target: 64.93 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.91 Meters</li><li>• Target Height: 0.11 Meters</li><li>• Target Length: 1.81 Meters</li><li>• Target Shadow: 3.72 Meters</li><li>• Classification1: debris</li><li>• Description: Debris or trap cluster.</li></ul>
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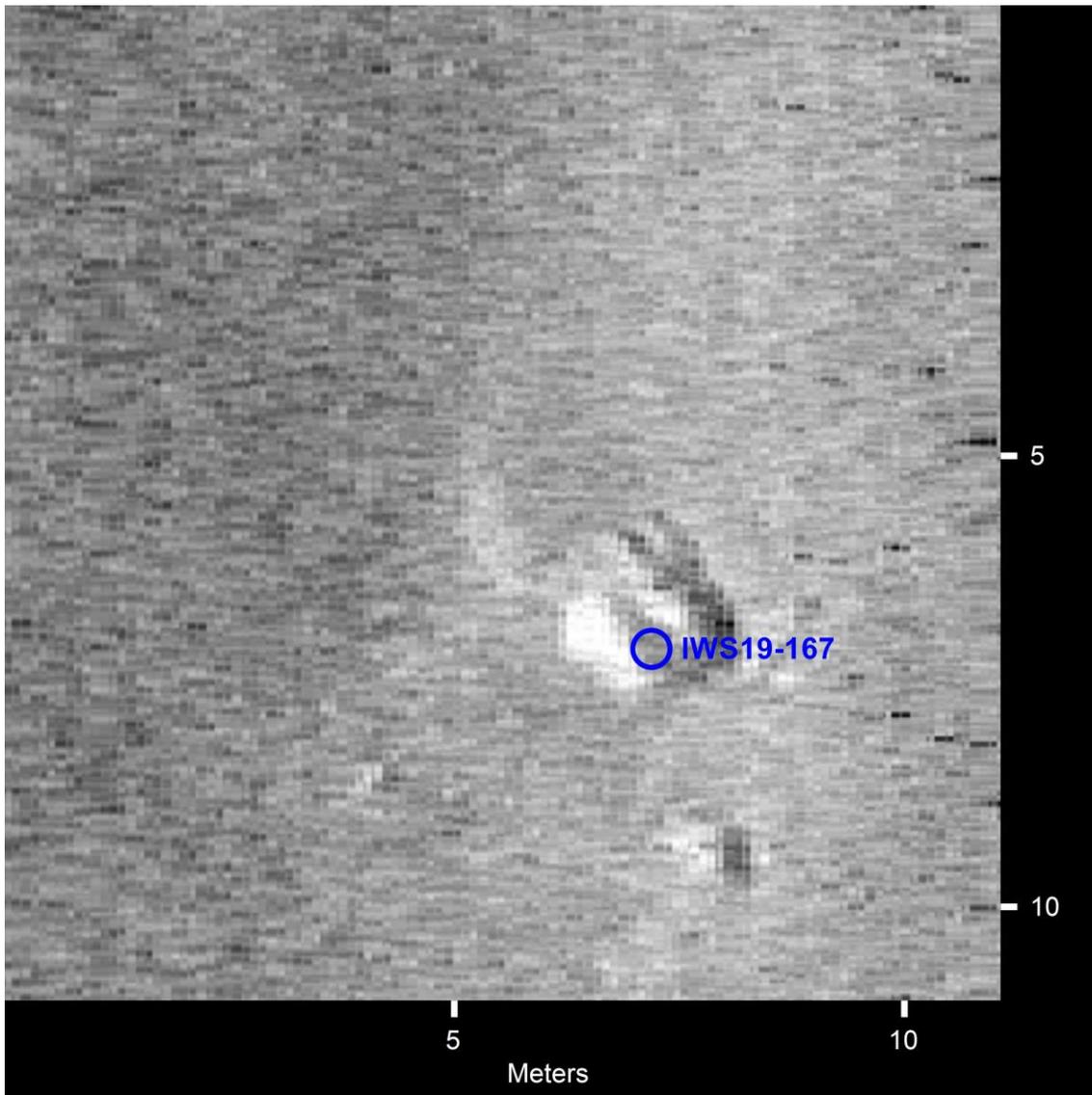


**IWS19-166**

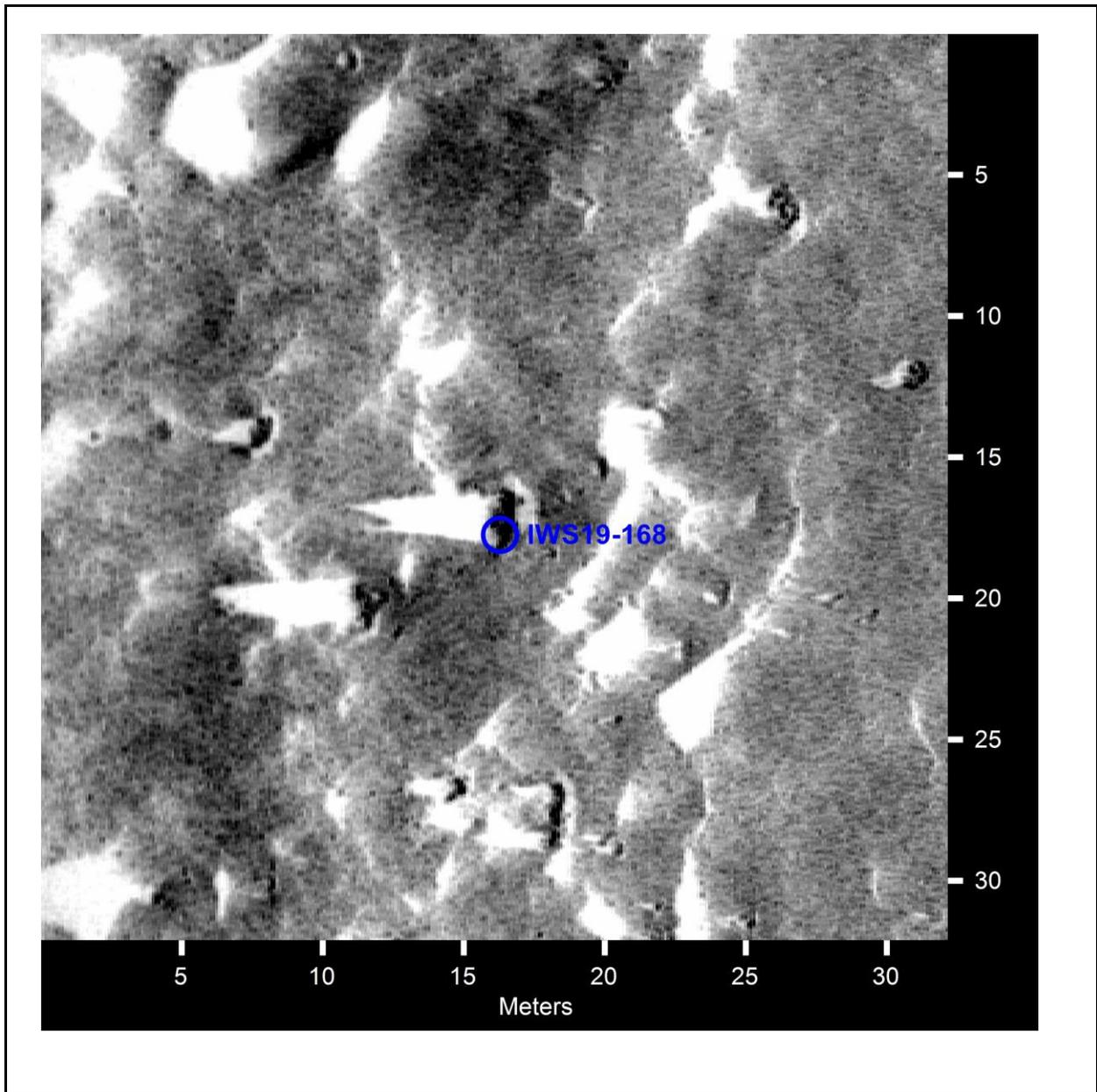
- Sonar Time at Target: 7/1/2019 8:00:52 PM
- Position  
42.4380093286 -70.5974917141 (WGS84)  
(X) 274255.14 (Y) 910113.52 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 65810
- Range to target: 28.81 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.41 Meters
- Target Height: 0.00 Meters
- Target Length: 1.10 Meters
- Target Shadow: 0.00 Meters
- Classification1: Trap
- Description: Appears partially buried.



<p><b>IWS19-167</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:02:32 PM</li><li>• Position 42.4376531241 -70.5992565482 (WGS84) (X) 274110.36 (Y) 910072.42 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 70759</li><li>• Range to target: 13.37 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.01 Meters</li><li>• Target Height: 0.09 Meters</li><li>• Target Length: 1.93 Meters</li><li>• Target Shadow: 0.70 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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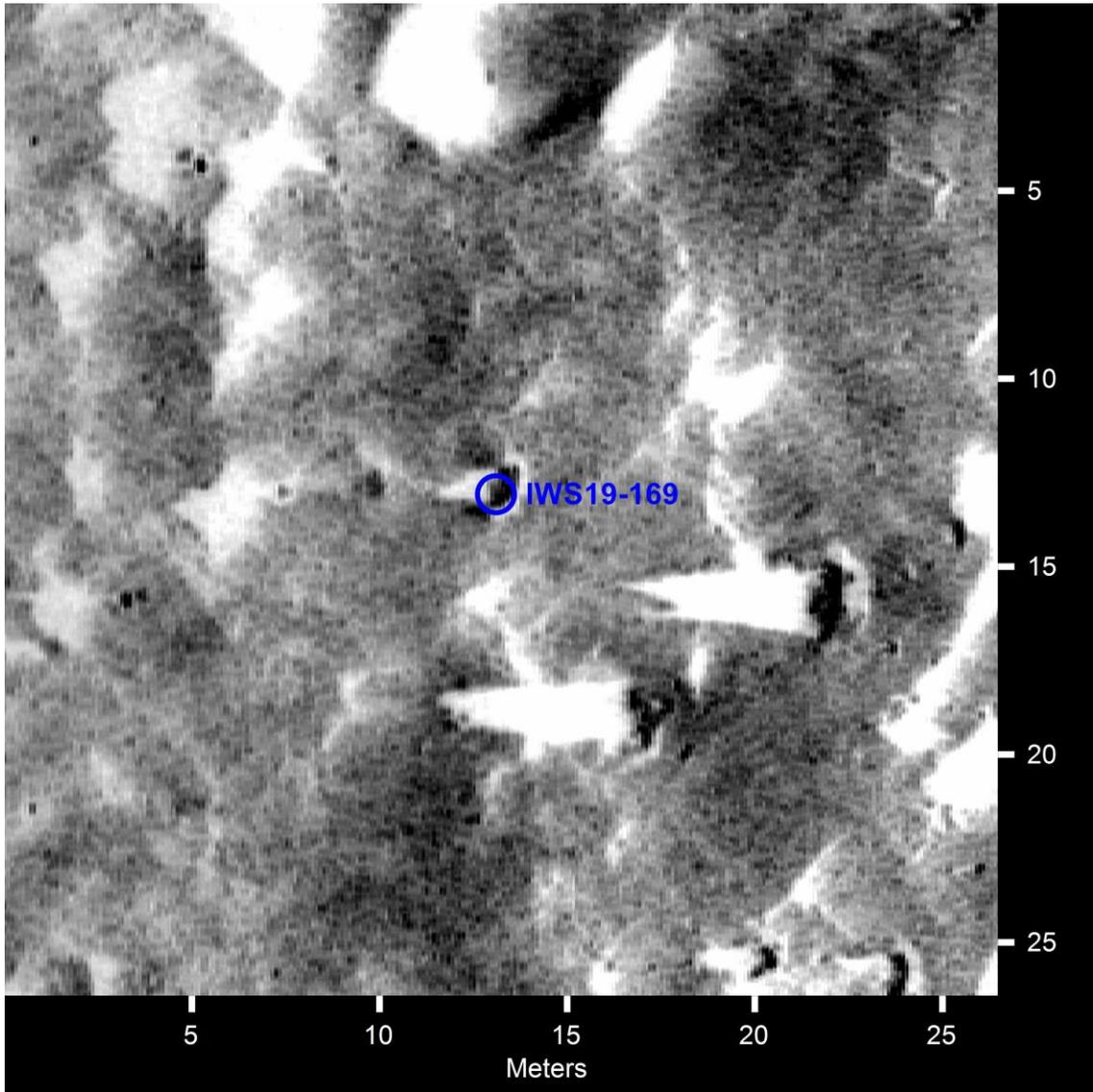
Appendix C – IWS Contact Report

**IWS19-168**

- Sonar Time at Target: 7/1/2019 8:02:37 PM
- Position  
42.4373104131 -70.5991746416 (WGS84)  
(X) 274117.50 (Y) 910034.43 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 71003
- Range to target: 51.32 Meters
- Fish Height: 1.95 Meters

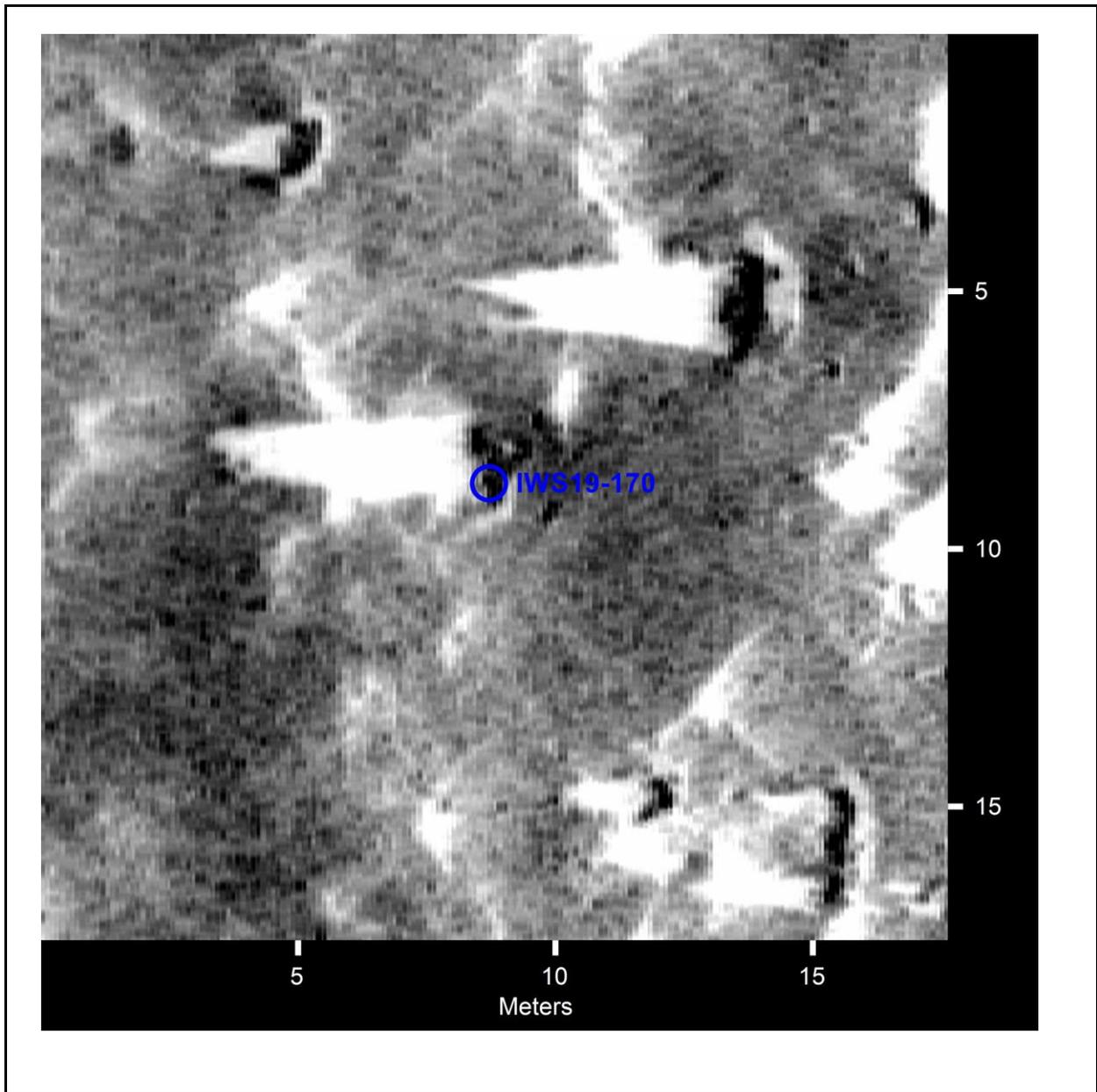
**Dimensions and attributes**

- Target Width: 1.47 Meters
- Target Height: 0.16 Meters
- Target Length: 2.28 Meters
- Target Shadow: 4.44 Meters
- Classification1: debris
- Description: Possibly cylindrical.



*Appendix C – IWS Contact Report*

<p><b>IWS19-169</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:02:35 PM</li><li>• Position 42.4372485481 -70.5990975950 (WGS84) (X) 274123.91 (Y) 910027.62 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 70889</li><li>• Range to target: 60.01 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.91 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.83 Meters</li><li>• Target Shadow: 1.52 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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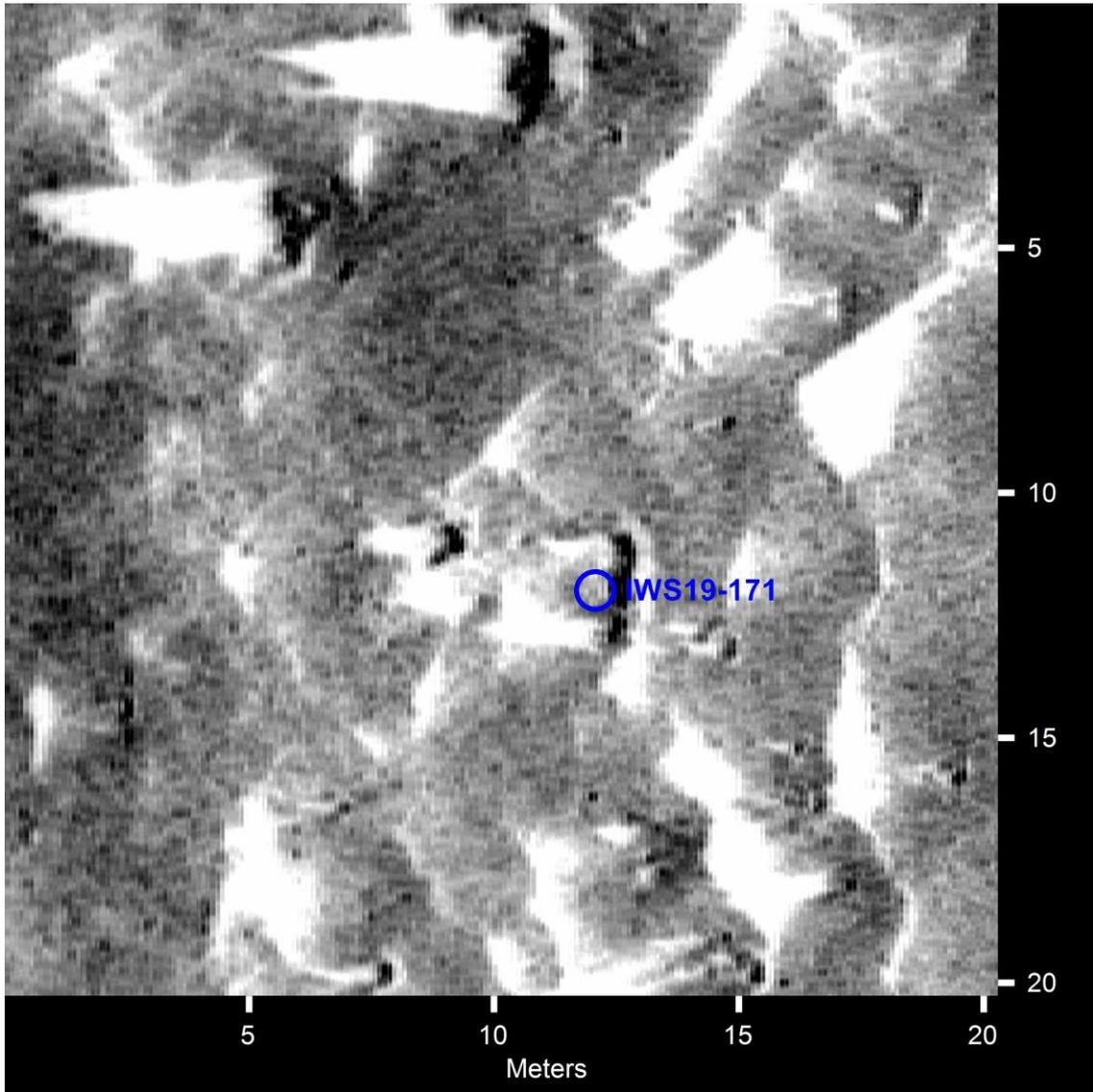
Appendix C – IWS Contact Report

**IWS19-170**

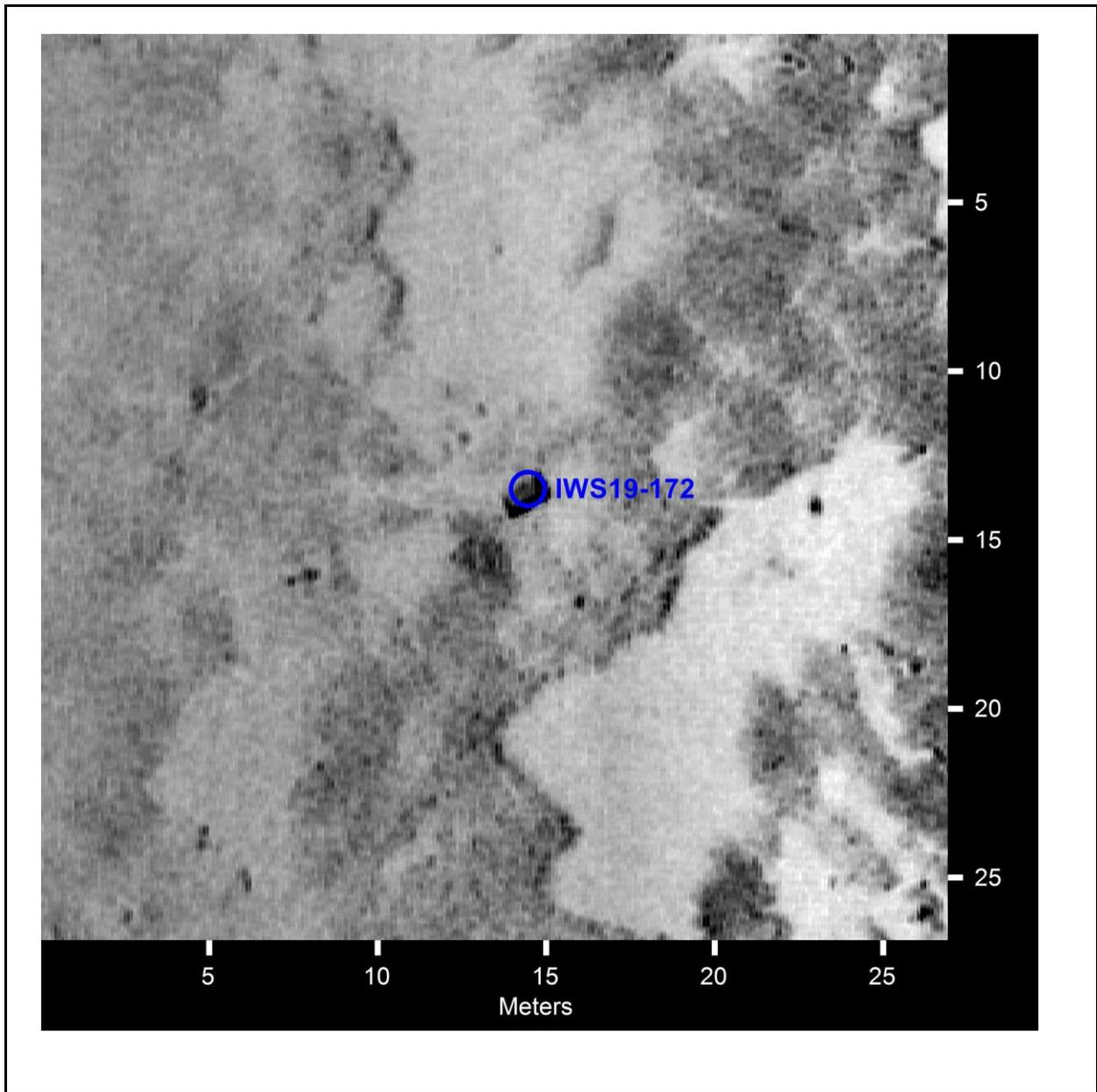
- Sonar Time at Target: 7/1/2019 8:02:39 PM
- Position  
42.4372608146 -70.5991863049 (WGS84)  
(X) 274116.60 (Y) 910028.91 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 71098
- Range to target: 56.13 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.43 Meters
- Target Height: 0.16 Meters
- Target Length: 1.79 Meters
- Target Shadow: 4.94 Meters
- Classification1: debris
- Description:



<p><b>IWS19-171</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:02:44 PM</li><li>• Position 42.4372908305 -70.5992941540 (WGS84) (X) 274107.69 (Y) 910032.15 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 71334</li><li>• Range to target: 49.84 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.71 Meters</li><li>• Target Height: 0.08 Meters</li><li>• Target Length: 2.58 Meters</li><li>• Target Shadow: 2.22 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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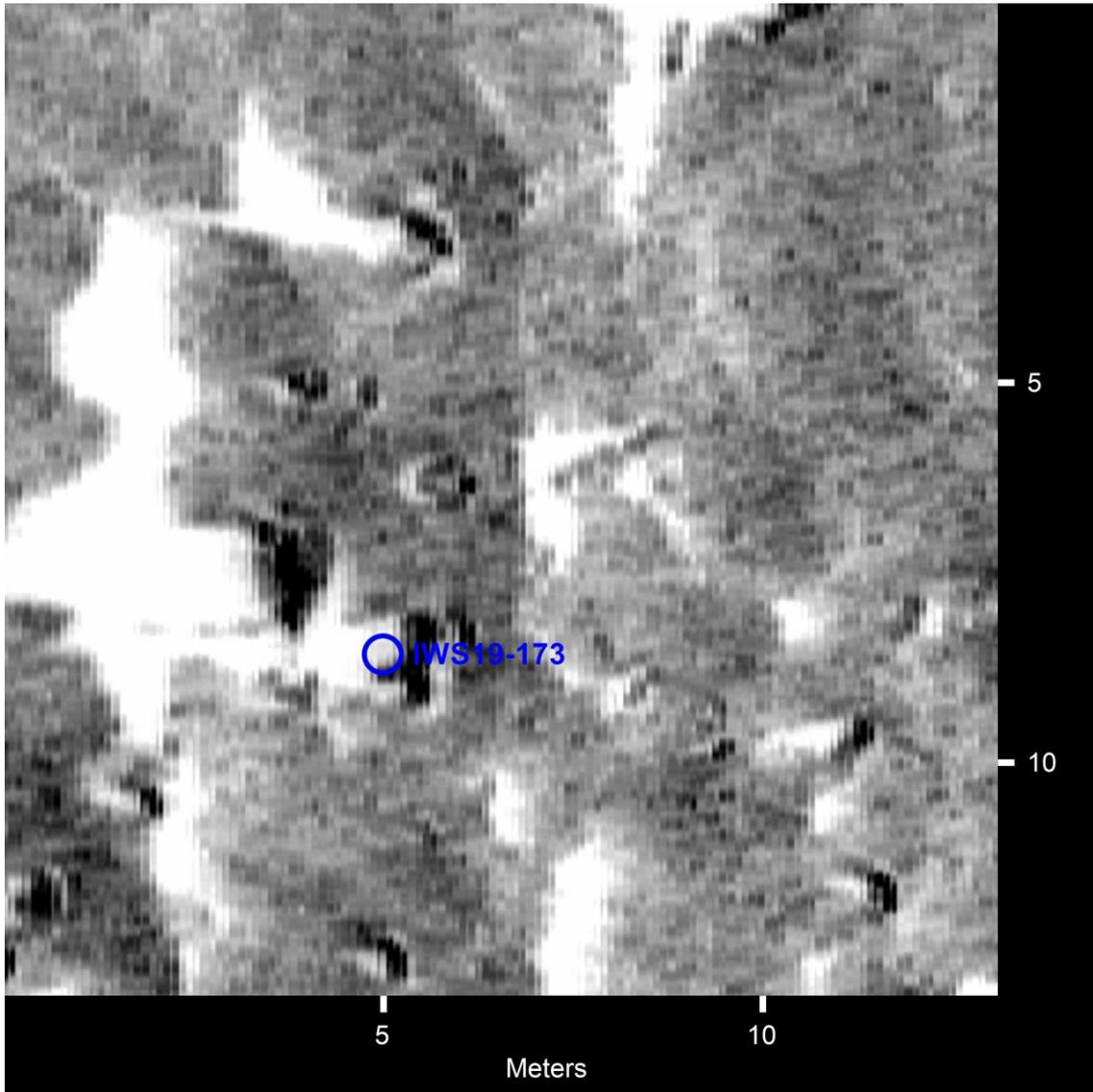


**IWS19-172**

- Sonar Time at Target: 7/1/2019 8:02:57 PM
- Position  
42.4369906126 -70.5993963864 (WGS84)  
(X) 274099.63 (Y) 909998.72 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 72000
- Range to target: 77.96 Meters
- Fish Height: 1.95 Meters

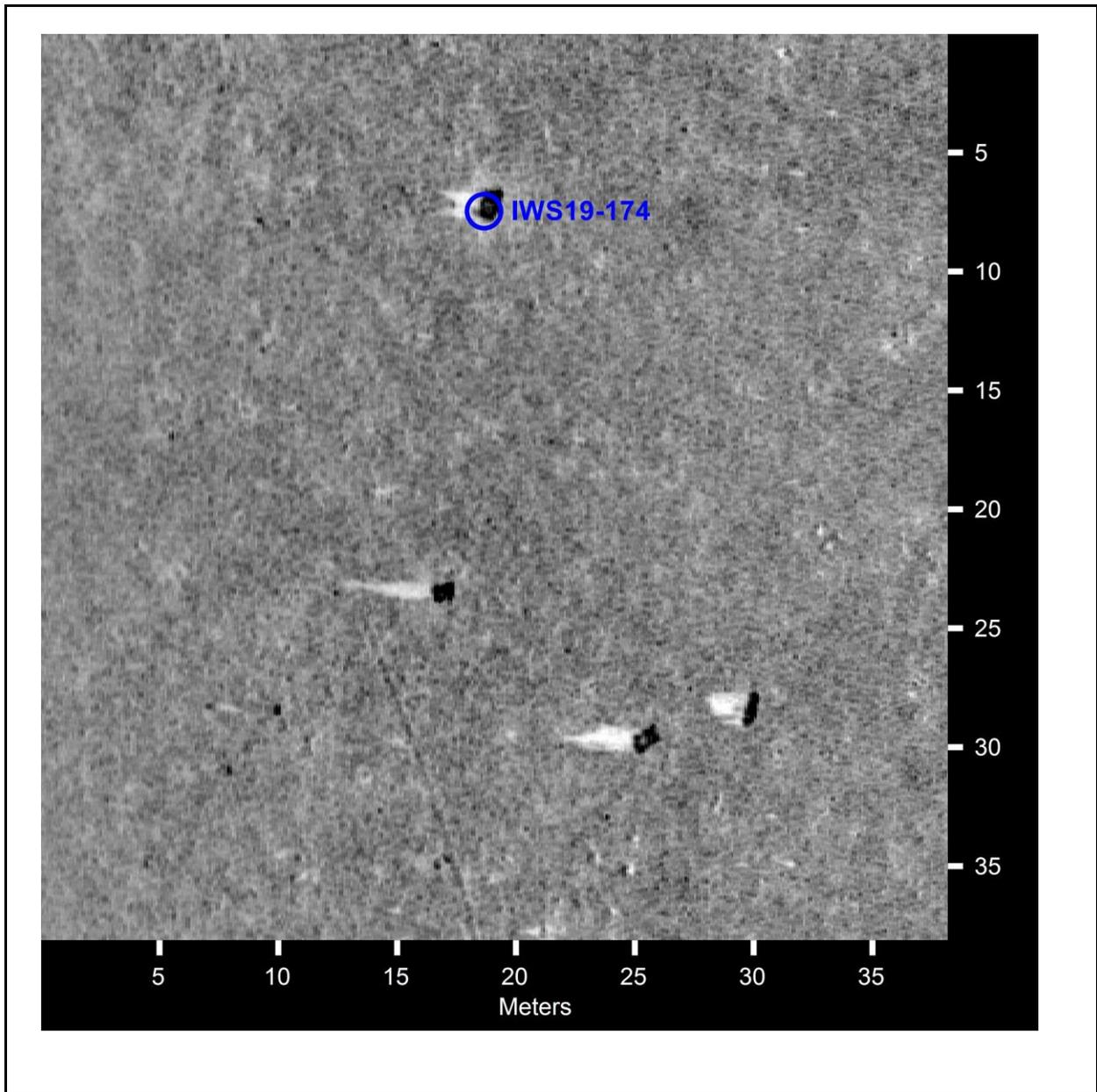
**Dimensions and attributes**

- Target Width: 0.92 Meters
- Target Height: 0.10 Meters
- Target Length: 1.31 Meters
- Target Shadow: 4.06 Meters
- Classification1: Trap
- Description:



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<p><b>IWS19-173</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:03:00 PM</li><li>• Position 42.4371820845 -70.5995601598 (WGS84) (X) 274085.94 (Y) 910019.84 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 72167</li><li>• Range to target: 53.27 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.59 Meters</li><li>• Target Height: 0.07 Meters</li><li>• Target Length: 1.25 Meters</li><li>• Target Shadow: 2.02 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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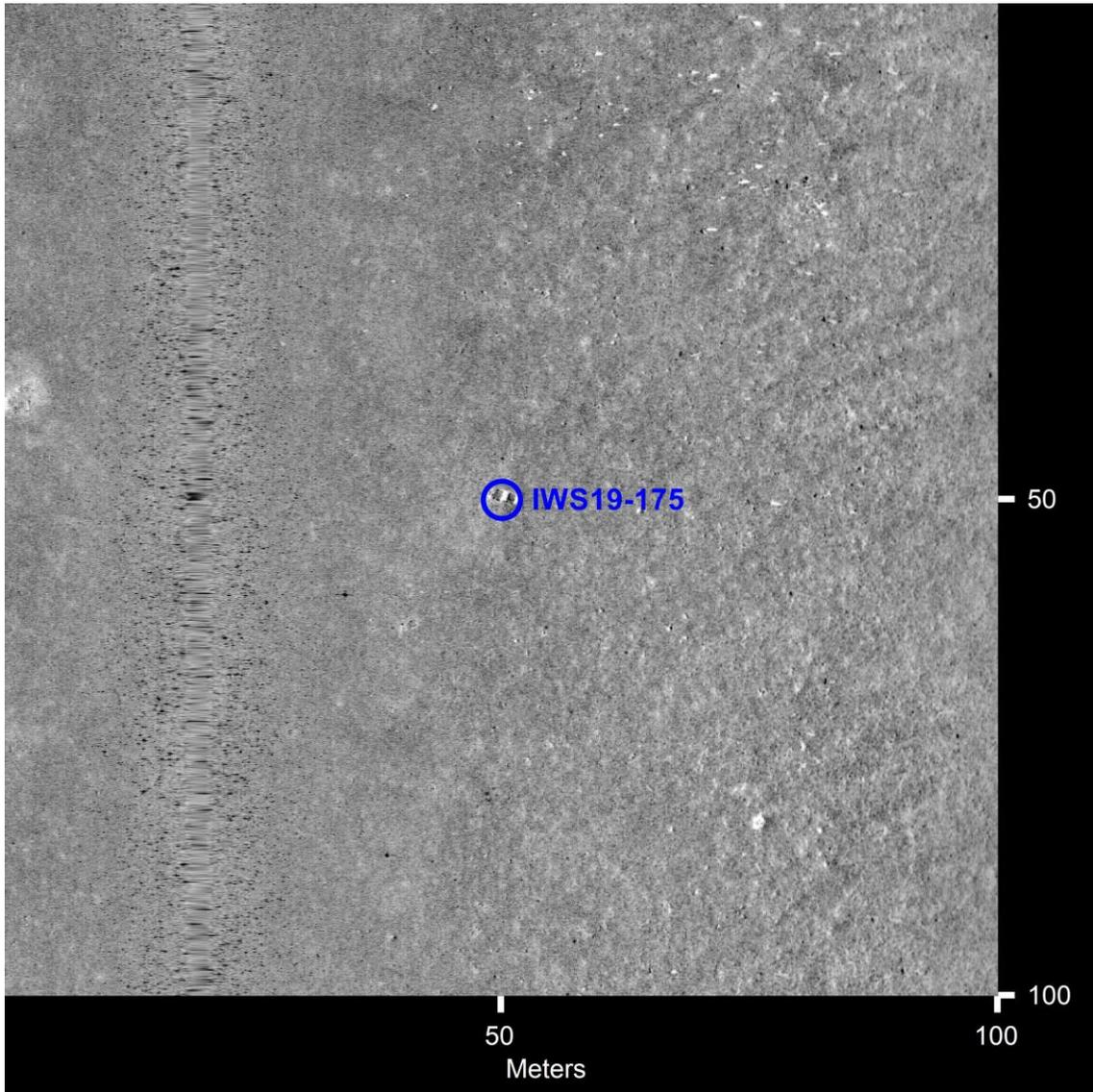


**IWS19-174**

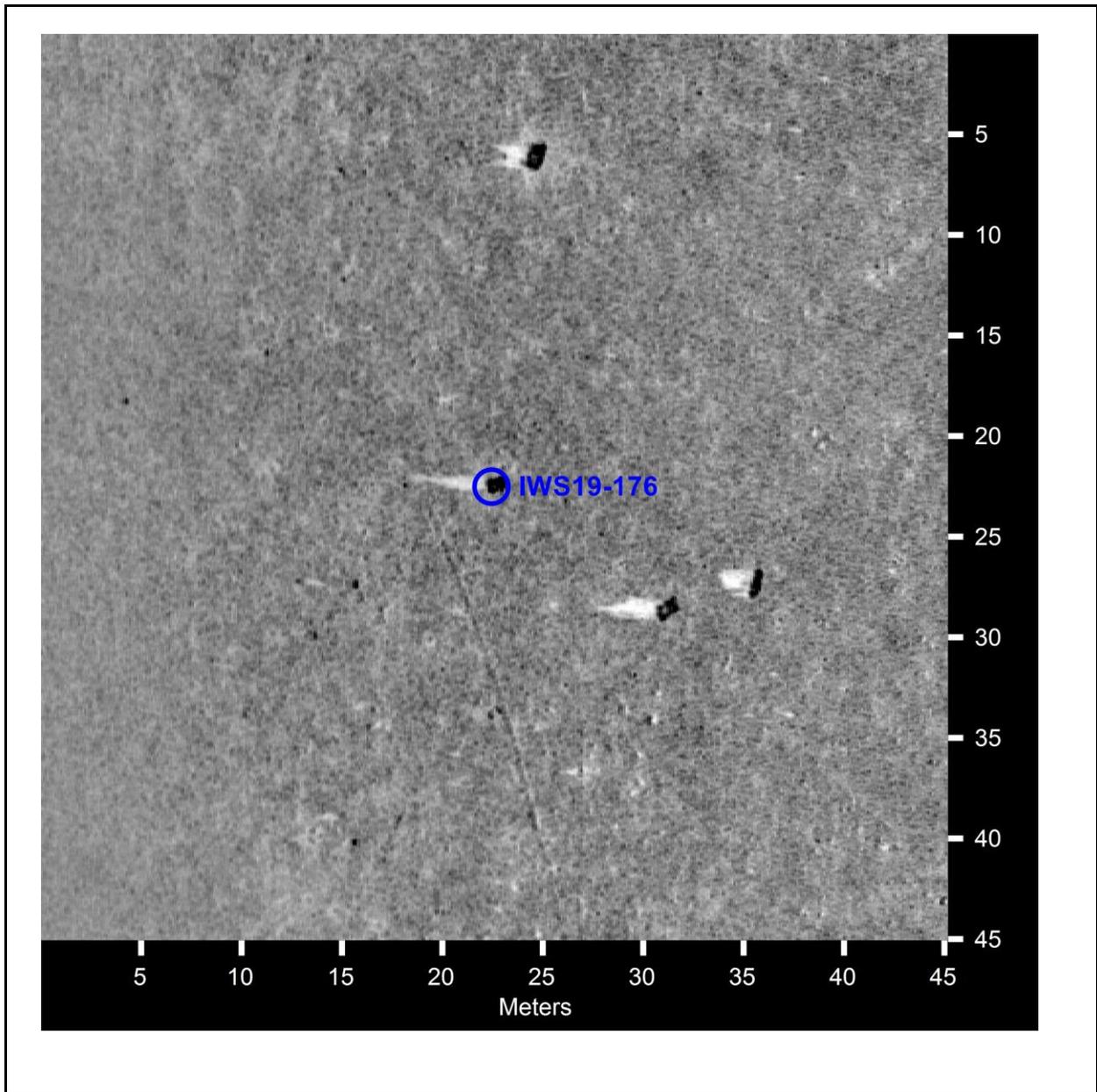
- Sonar Time at Target: 7/1/2019 8:07:02 PM
- Position  
42.4359027551 -70.6036498345 (WGS84)  
(X) 273750.95 (Y) 909874.20 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 84271
- Range to target: 64.58 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.81 Meters
- Target Height: 0.05 Meters
- Target Length: 1.34 Meters
- Target Shadow: 1.69 Meters
- Classification1: Trap
- Description: Trap cluster



<p><b>IWS19-175</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:07:12 PM</li><li>• Position 42.4366540417 -70.6042317890 (WGS84) (X) 273702.20 (Y) 909957.14 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 84753</li><li>• Range to target: 30.52 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.00 Meters</li><li>• Target Height: 0.00 Meters</li><li>• Target Length: 0.00 Meters</li><li>• Target Shadow: 0.00 Meters</li><li>• Classification1:</li><li>• Description:</li></ul>
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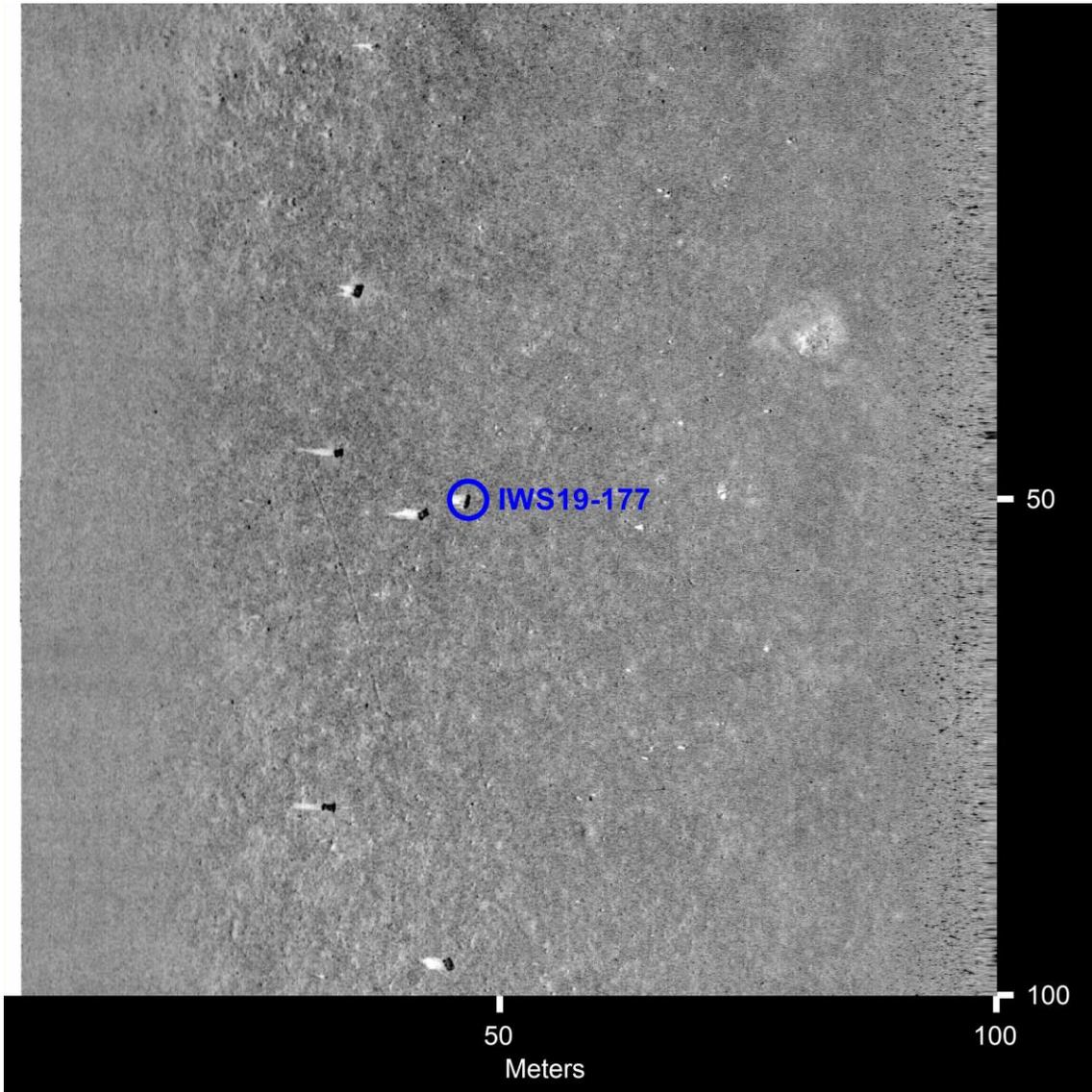


**IWS19-176**

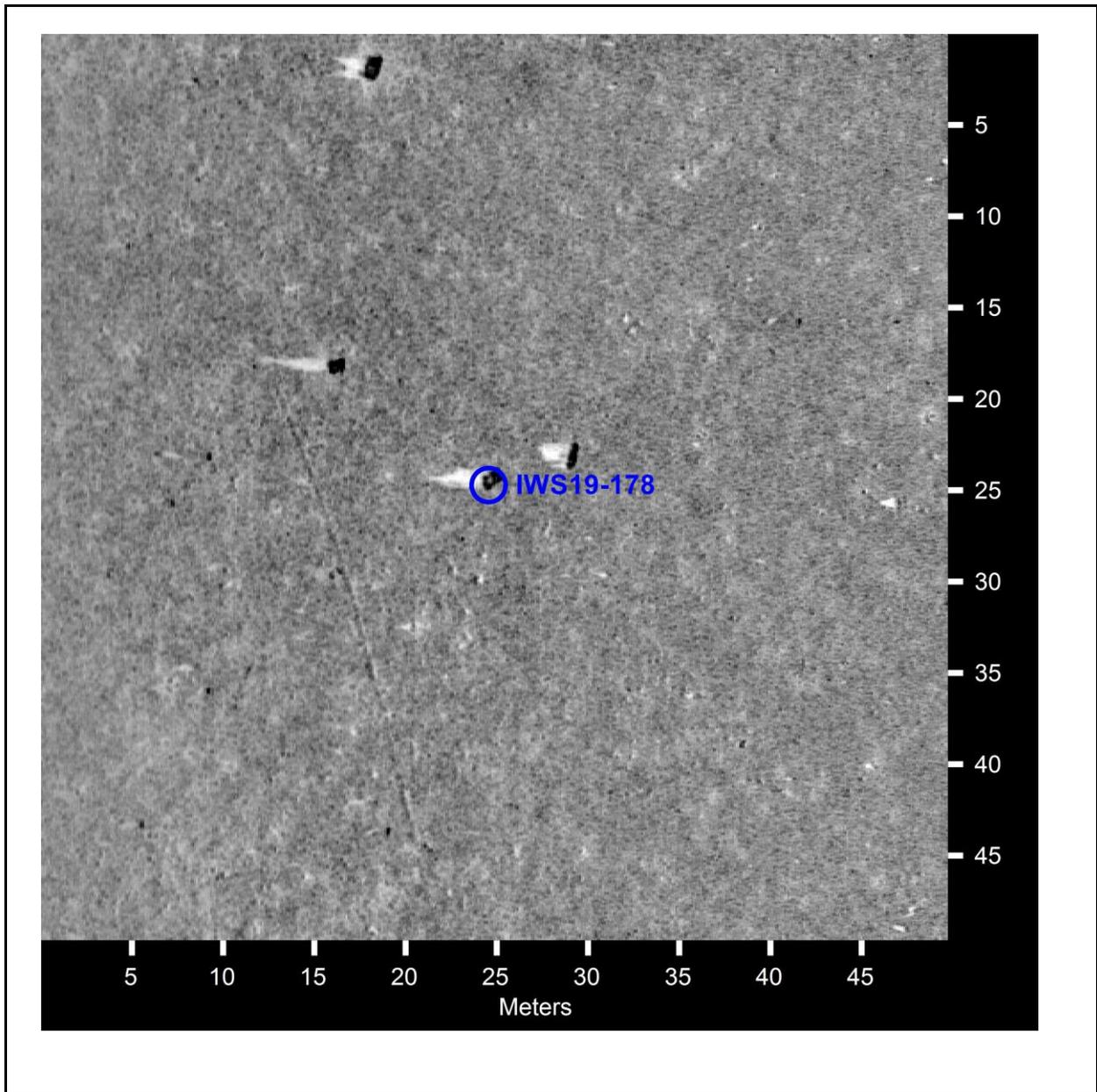
- Sonar Time at Target: 7/1/2019 8:07:13 PM
- Position  
42.4358333668 -70.6038267192 (WGS84)  
(X) 273736.48 (Y) 909866.34 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 84806
- Range to target: 66.53 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.70 Meters
- Target Height: 0.10 Meters
- Target Length: 0.92 Meters
- Target Shadow: 3.53 Meters
- Classification1: Trap
- Description: Trap cluster



<p><b>IWS19-177</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:07:16 PM</li><li>• Position 42.4359300023 -70.6039365287 (WGS84) (X) 273727.33 (Y) 909876.98 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 84957</li><li>• Range to target: 53.27 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.41 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.37 Meters</li><li>• Target Shadow: 1.63 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap cluster</li></ul>
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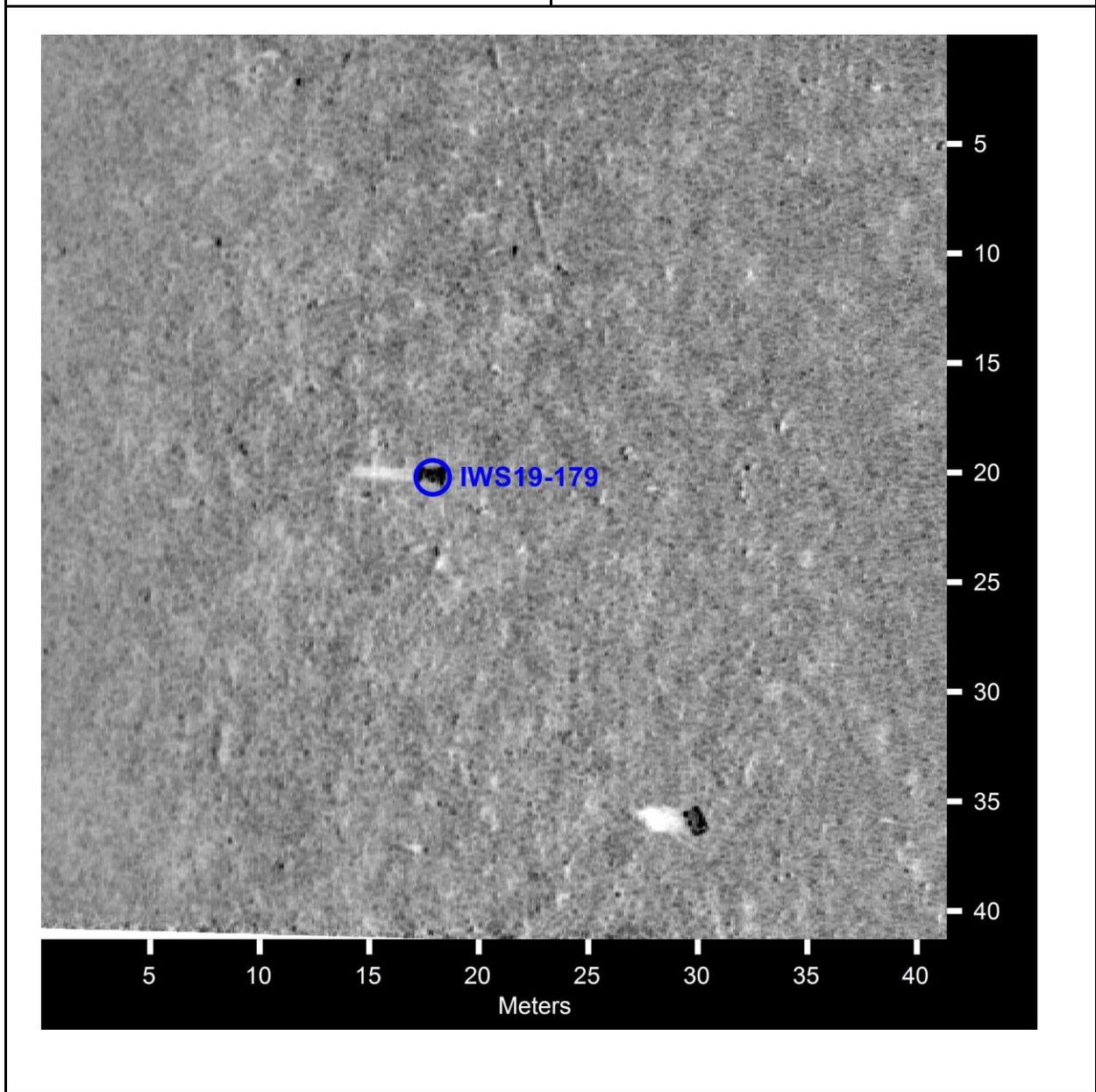


**IWS19-178**

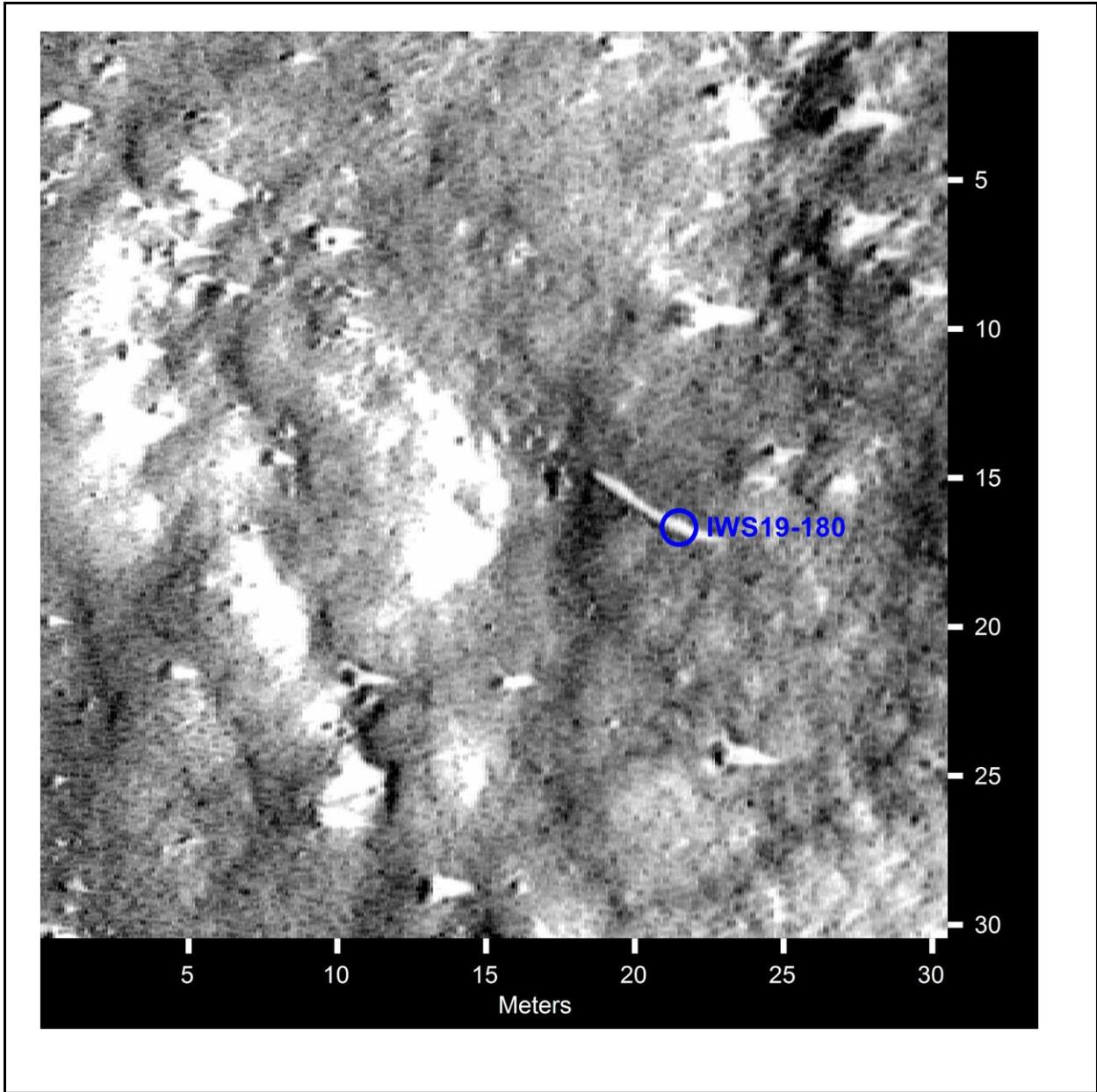
- Sonar Time at Target: 7/1/2019 8:07:17 PM
- Position  
42.4358846917 -70.6039369409 (WGS84)  
(X) 273727.35 (Y) 909871.94 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 85018
- Range to target: 57.95 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.75 Meters
- Target Height: 0.09 Meters
- Target Length: 1.15 Meters
- Target Shadow: 2.75 Meters
- Classification1: Trap
- Description: Trap cluster



<p><b>IWS19-179</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:07:36 PM</li><li>• Position 42.4357124481 -70.6042286105 (WGS84) (X) 273703.56 (Y) 909852.56 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 85987</li><li>• Range to target: 67.21 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.75 Meters</li><li>• Target Height: 0.08 Meters</li><li>• Target Length: 1.24 Meters</li><li>• Target Shadow: 2.87 Meters</li><li>• Classification1: Trap</li><li>• Description: Trap cluster</li></ul>
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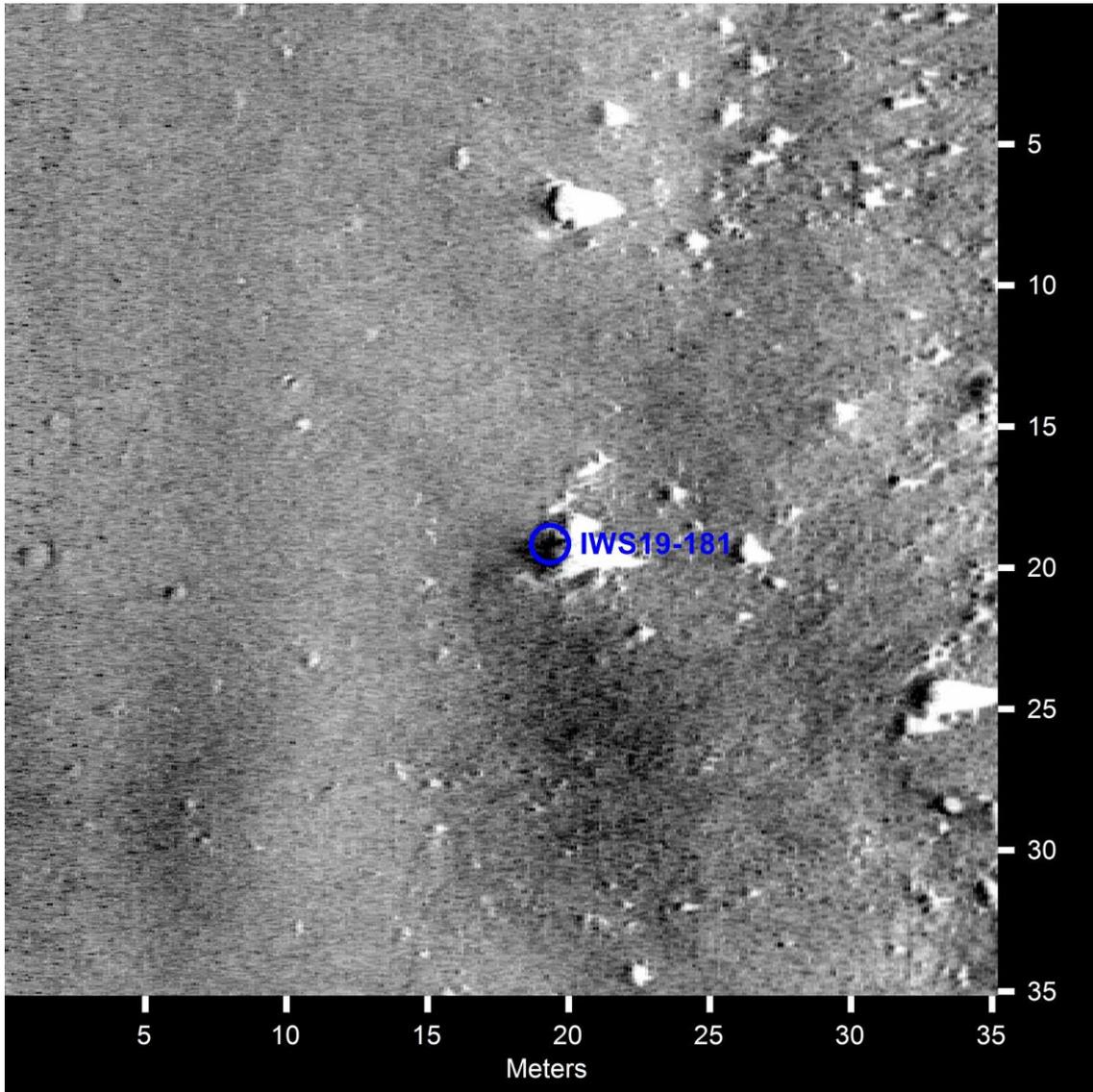


**IWS19-180**

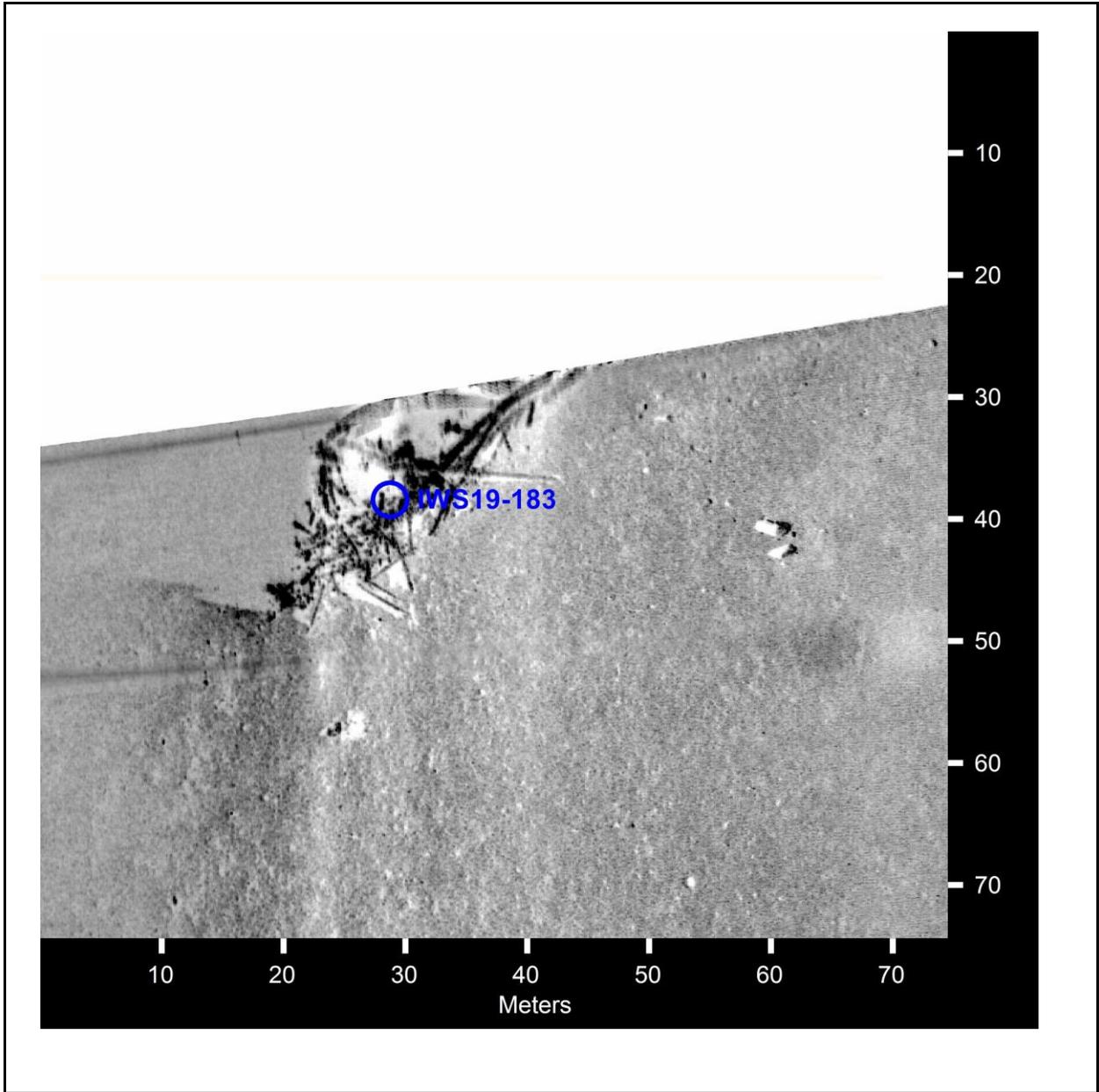
- Sonar Time at Target: 7/1/2019 8:01:40 PM
- Position  
42.4384786979 -70.5986652689 (WGS84)  
(X) 274158.04 (Y) 910164.64 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_193930\_11454.20190702\_003128.xtf
- Ping Number: 68162
- Range to target: 54.75 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.38 Meters
- Target Height: 0.00 Meters
- Target Length: 3.78 Meters
- Target Shadow: 0.19 Meters
- Classification1: debris
- Description:



<p><b>IWS19-181</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:02:41 PM</li><li>• Position 42.4379380512 -70.5995841915 (WGS84) (X) 274083.07 (Y) 910103.79 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_193930_11454.20190702_003128.xtf</li><li>• Ping Number: 71220</li><li>• Range to target: 25.83 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.38 Meters</li><li>• Target Height: 0.18 Meters</li><li>• Target Length: 2.21 Meters</li><li>• Target Shadow: 2.58 Meters</li><li>• Classification1: debris</li><li>• Description: Low confidence.</li></ul>
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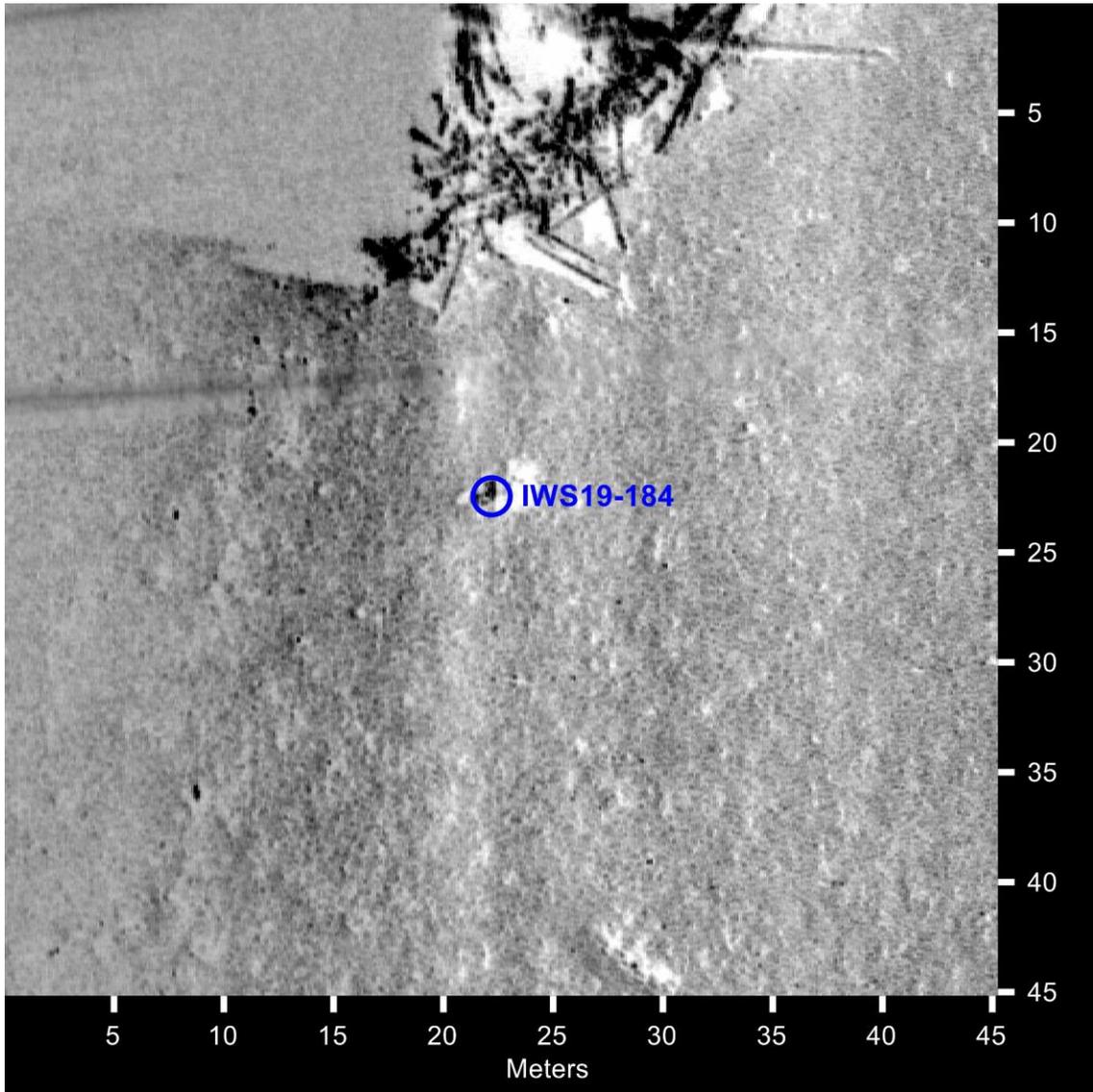
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**IWS19-183**

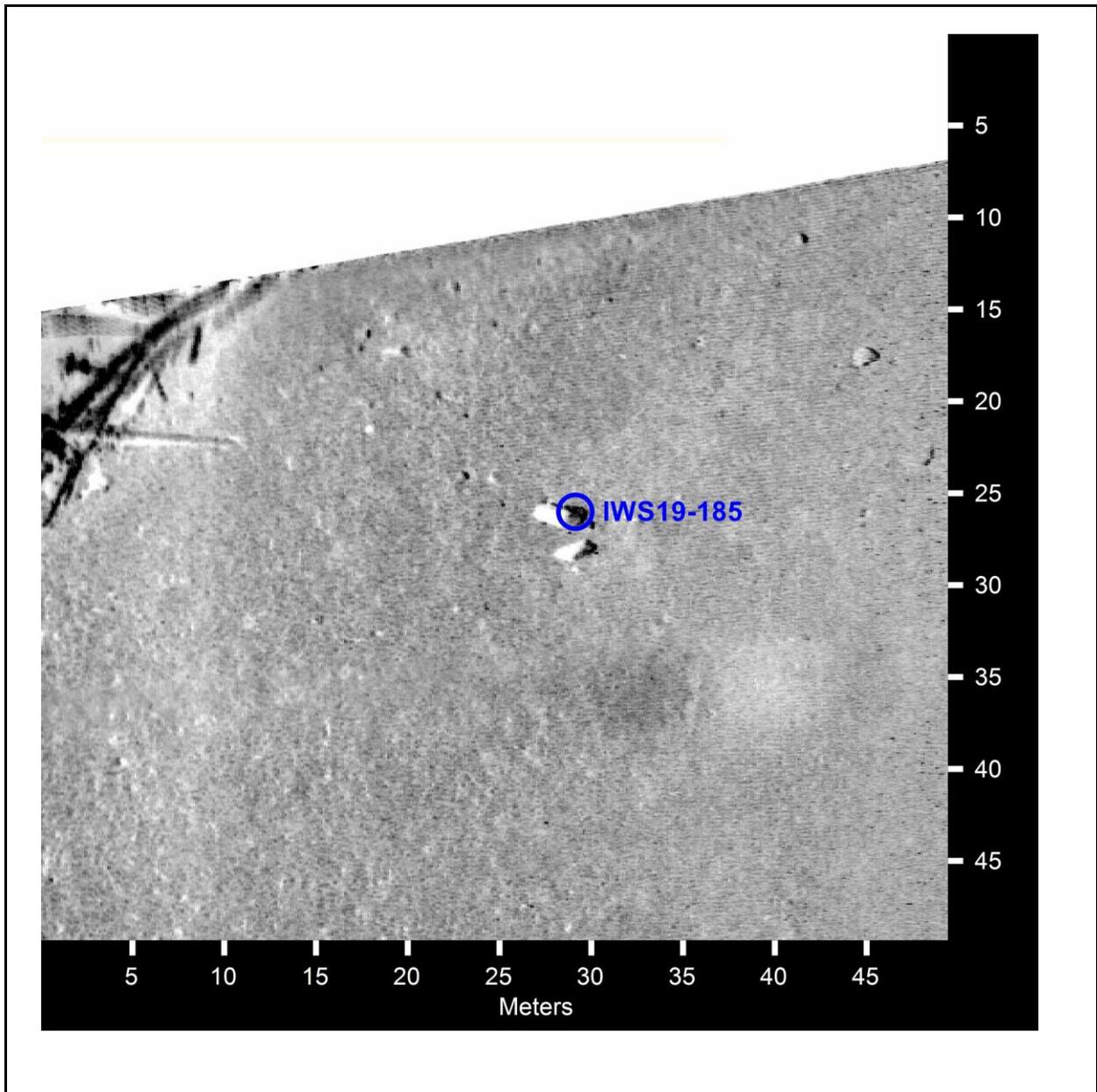
- Sonar Time at Target: 7/1/2019 8:10:22 PM
- Position  
42.4381519059 -70.6057448922 (WGS84)  
(X) 273575.96 (Y) 910122.21 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_200956\_11415.20190702\_005458.xtf
- Ping Number: 1809
- Range to target: 60.13 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 12.42 Meters
- Target Height: 0.16 Meters
- Target Length: 29.93 Meters
- Target Shadow: 5.44 Meters
- Classification1: wreck
- Description:



<p><b>IWS19-184</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:10:34 PM</li><li>• Position 42.4382465963 -70.6055502909 (WGS84) (X) 273591.86 (Y) 910132.89 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_200956_11415.20190702_005458.xtf</li><li>• Ping Number: 2436</li><li>• Range to target: 64.36 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.89 Meters</li><li>• Target Height: 0.02 Meters</li><li>• Target Length: 1.32 Meters</li><li>• Target Shadow: 0.69 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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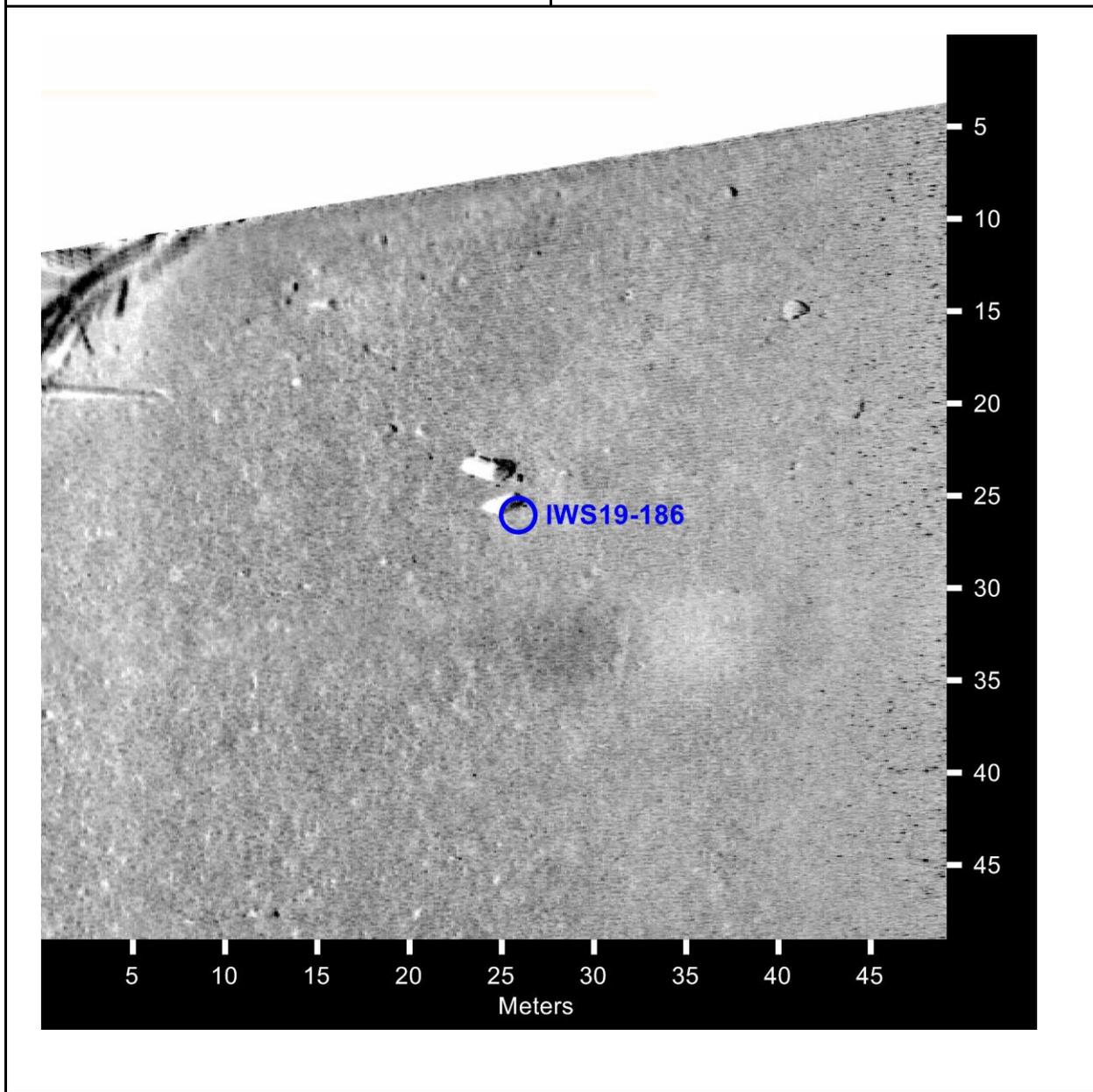


**IWS19-185**

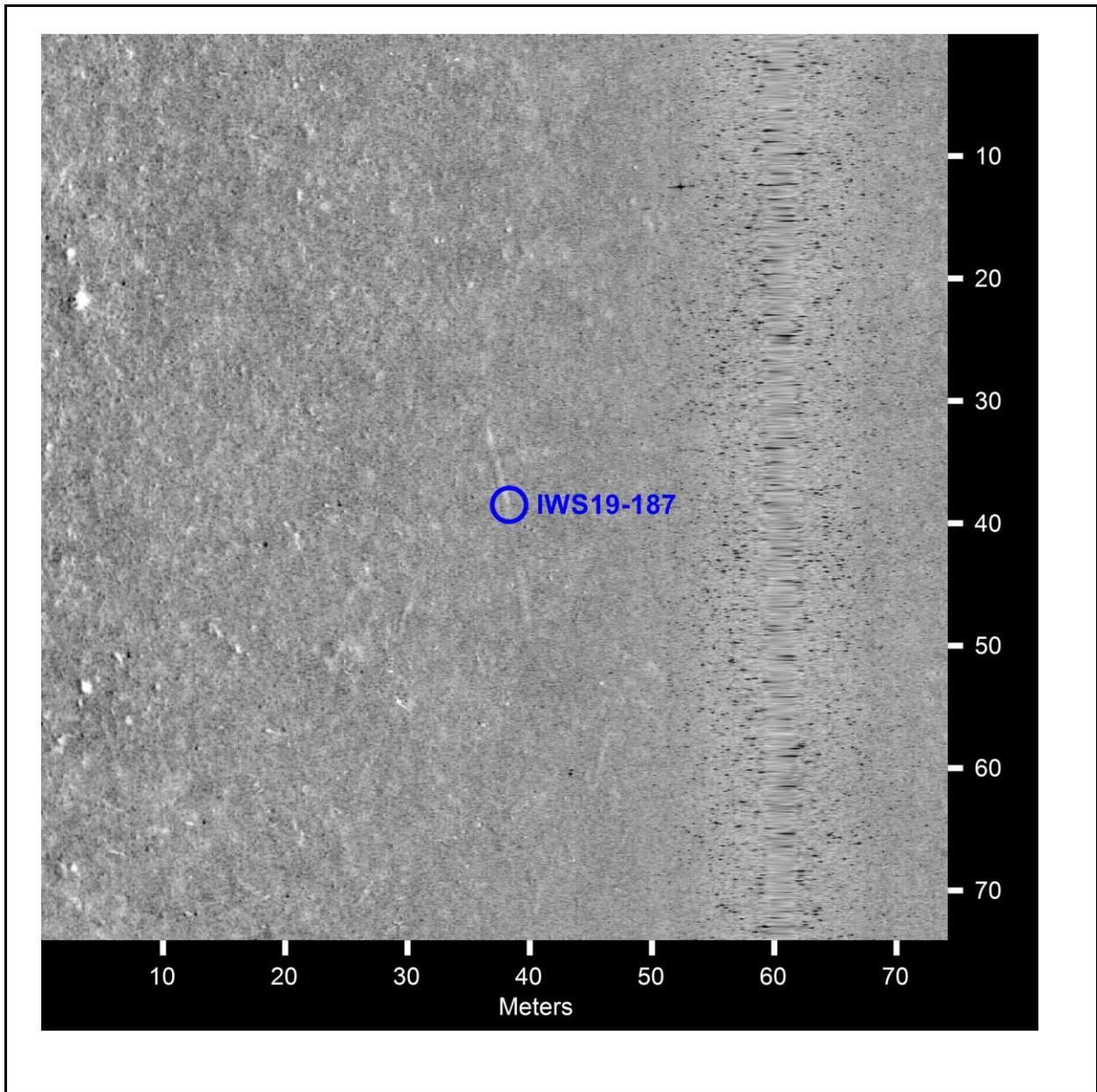
- Sonar Time at Target: 7/1/2019 8:10:23 PM
- Position  
42.4378855167 -70.6055880072 (WGS84)  
(X) 273589.18 (Y) 910092.75 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_200956\_11415.20190702\_005458.xtf
- Ping Number: 1878
- Range to target: 27.89 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 1.30 Meters
- Target Height: 0.12 Meters
- Target Length: 1.85 Meters
- Target Shadow: 1.85 Meters
- Classification1: debris
- Description:



<p><b>IWS19-186</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:10:25 PM</li><li>• Position 42.4378871337 -70.6055547801 (WGS84) (X) 273591.91 (Y) 910092.96 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_200956_11415.20190702_005458.xtf</li><li>• Ping Number: 1969</li><li>• Range to target: 27.09 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.75 Meters</li><li>• Target Height: 0.13 Meters</li><li>• Target Length: 1.50 Meters</li><li>• Target Shadow: 1.88 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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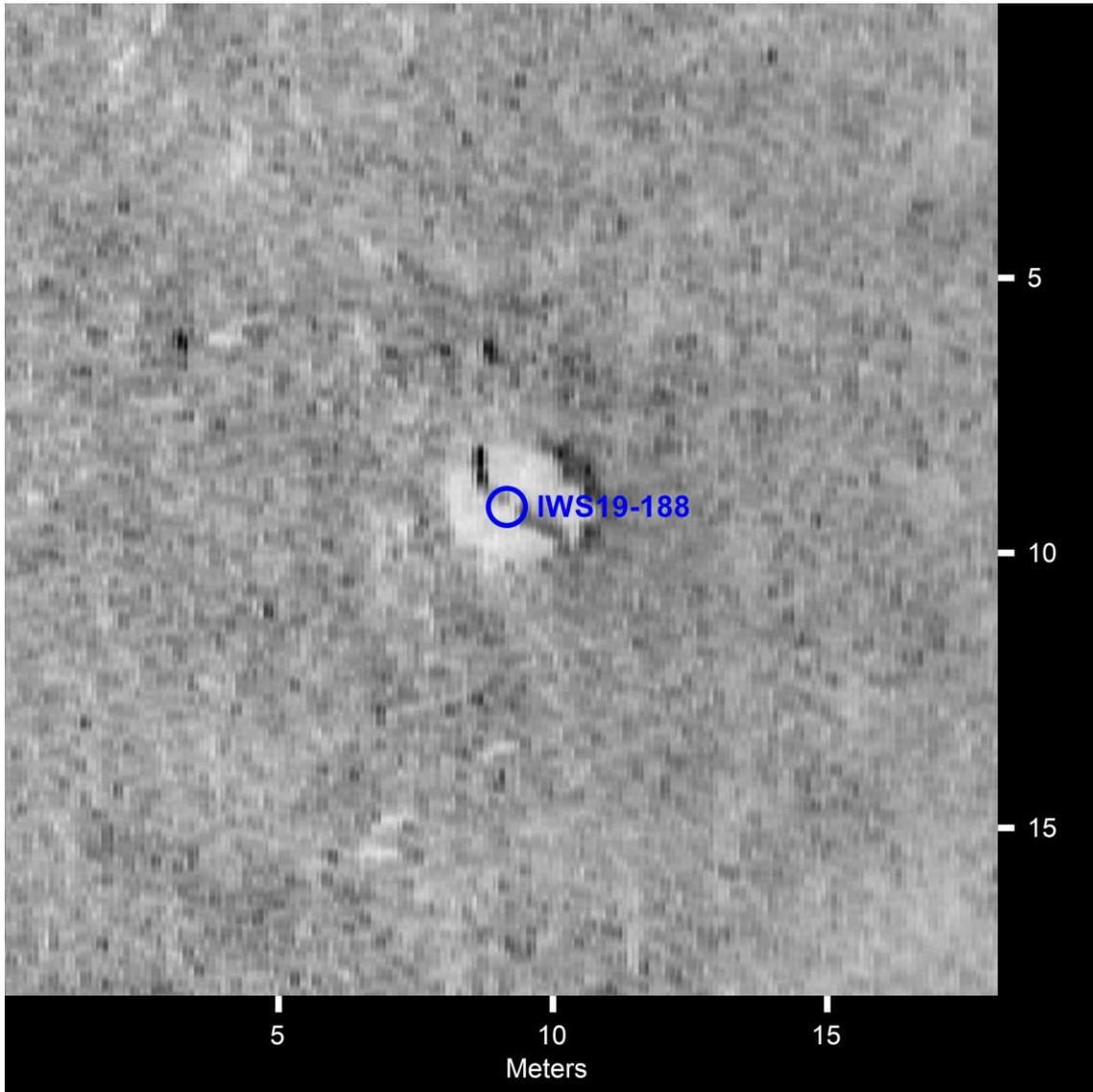


**IWS19-187**

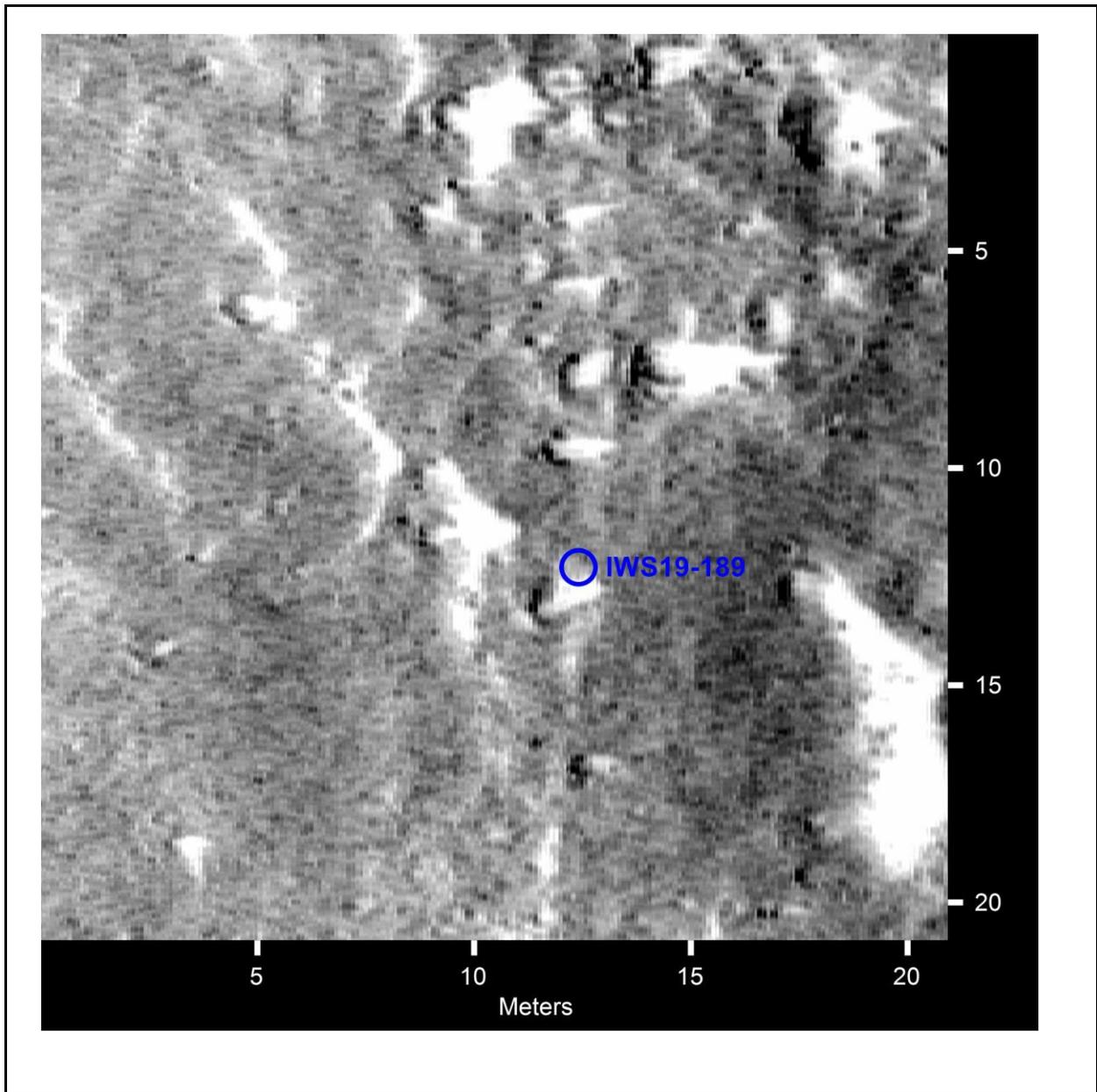
- Sonar Time at Target: 7/1/2019 8:11:39 PM
- Position  
42.4382175955 -70.6042210890 (WGS84)  
(X) 273701.25 (Y) 910130.82 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_200956\_11415.20190702\_005458.xtf
- Ping Number: 5824
- Range to target: 22.18 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.74 Meters
- Target Height: 0.00 Meters
- Target Length: 16.46 Meters
- Target Shadow: 0.00 Meters
- Classification1: Typical intermittent scour
- Description:



<p><b>IWS19-188</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 8:11:48 PM</li><li>• Position 42.4374644029 -70.6036488802 (WGS84) (X) 273749.21 (Y) 910047.66 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_200956_11415.20190702_005458.xtf</li><li>• Ping Number: 6288</li><li>• Range to target: 72.81 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.35 Meters</li><li>• Target Height: 0.03 Meters</li><li>• Target Length: 2.53 Meters</li><li>• Target Shadow: 1.32 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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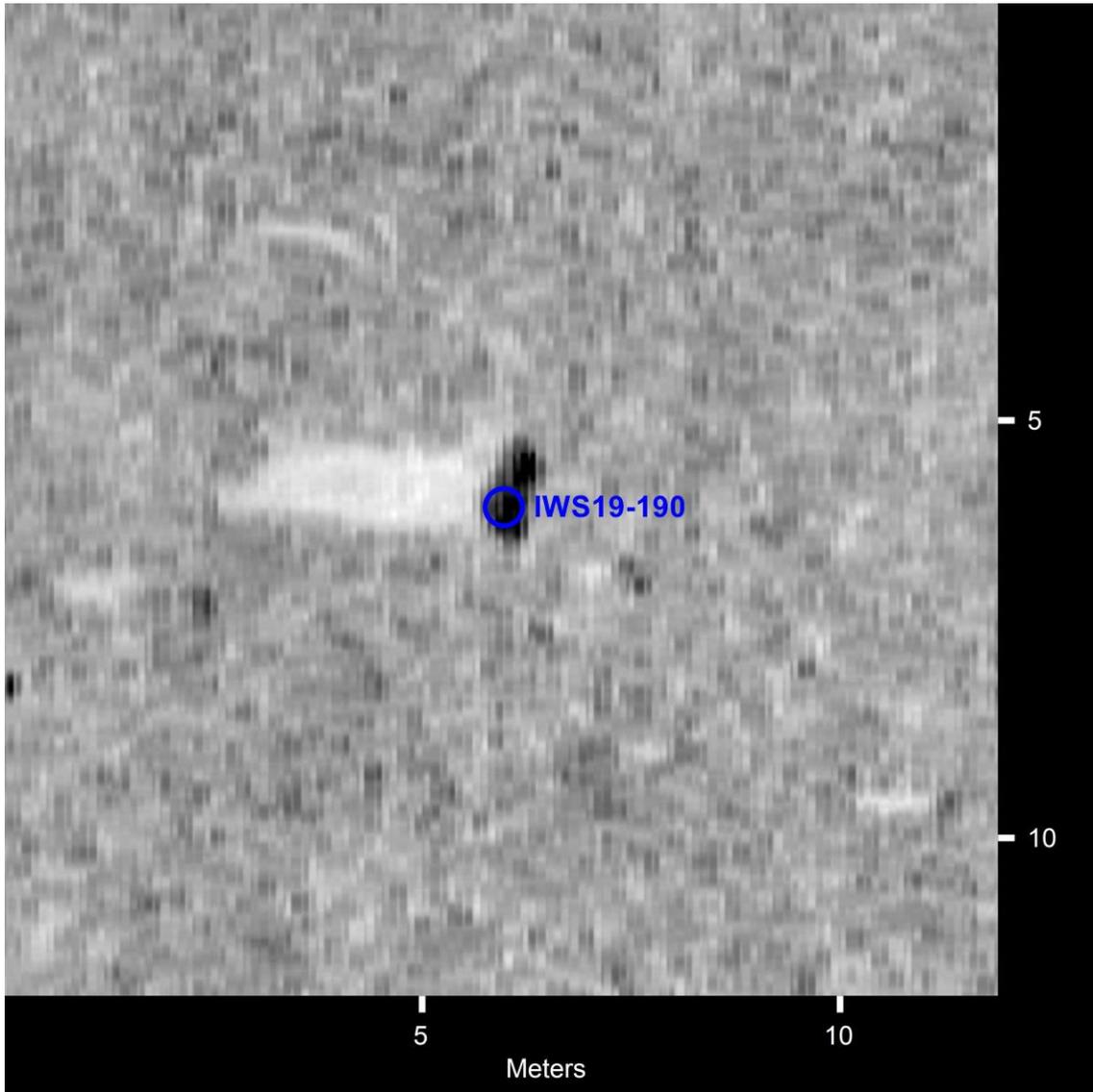


**IWS19-189**

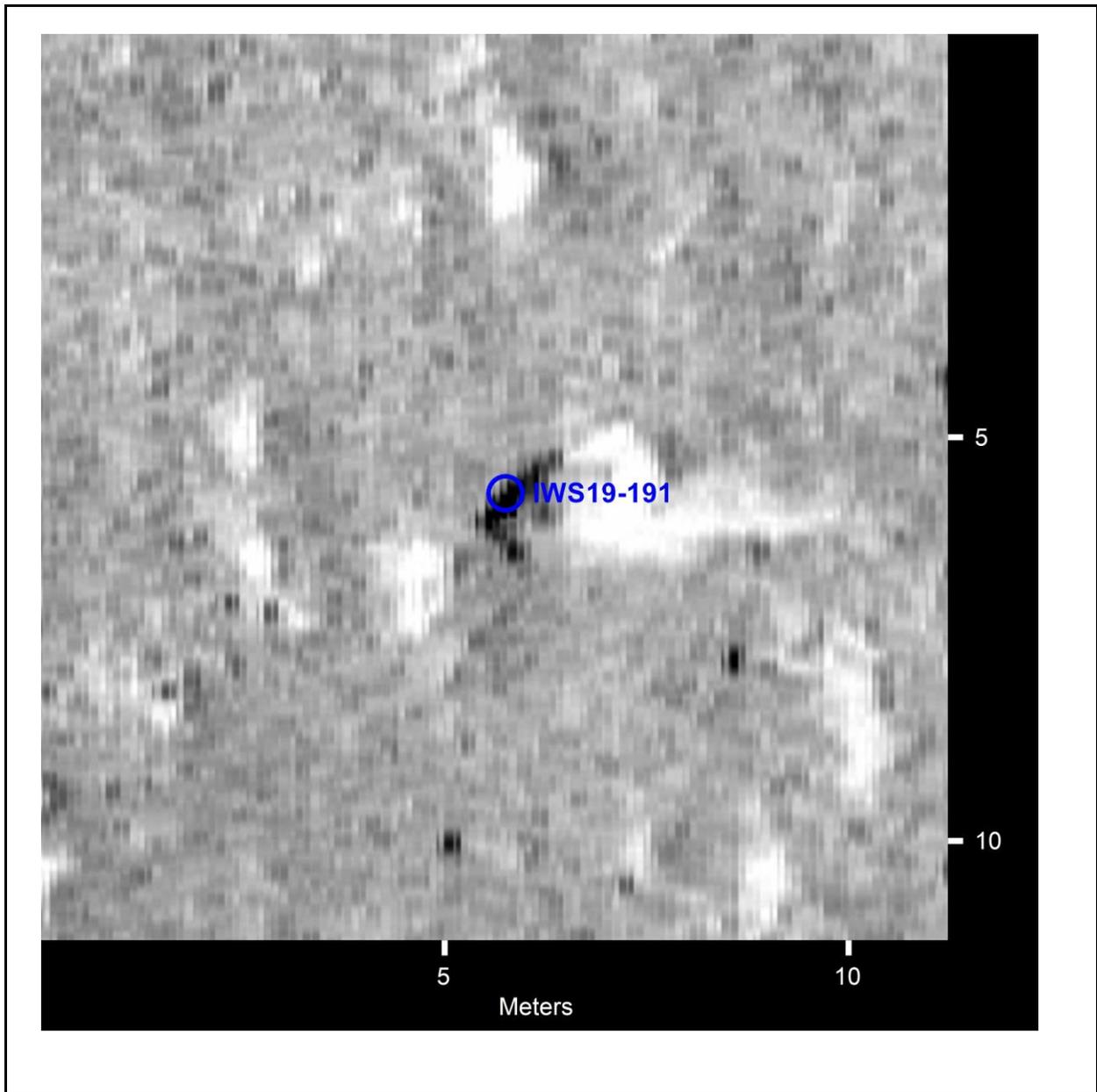
- Sonar Time at Target: 7/1/2019 8:36:36 PM
- Position  
42.4448513632 -70.5787152753 (WGS84)  
(X) 275791.73 (Y) 910890.00 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_200956\_11415.20190702\_005458.xtf
- Ping Number: 79629
- Range to target: 45.61 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.70 Meters
- Target Height: 0.05 Meters
- Target Length: 1.41 Meters
- Target Shadow: 1.27 Meters
- Classification1: debris
- Description: Low confidence. Debris, trap or deposited dredged material.



<p><b>IWS19-190</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 9:05:52 PM</li><li>• Position 42.4381593005 -70.6036168333 (WGS84) (X) 273751.03 (Y) 910124.87 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_204300_10227.20190702_011637.xtf</li><li>• Ping Number: 75603</li><li>• Range to target: 68.47 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.69 Meters</li><li>• Target Height: 0.08 Meters</li><li>• Target Length: 1.15 Meters</li><li>• Target Shadow: 2.92 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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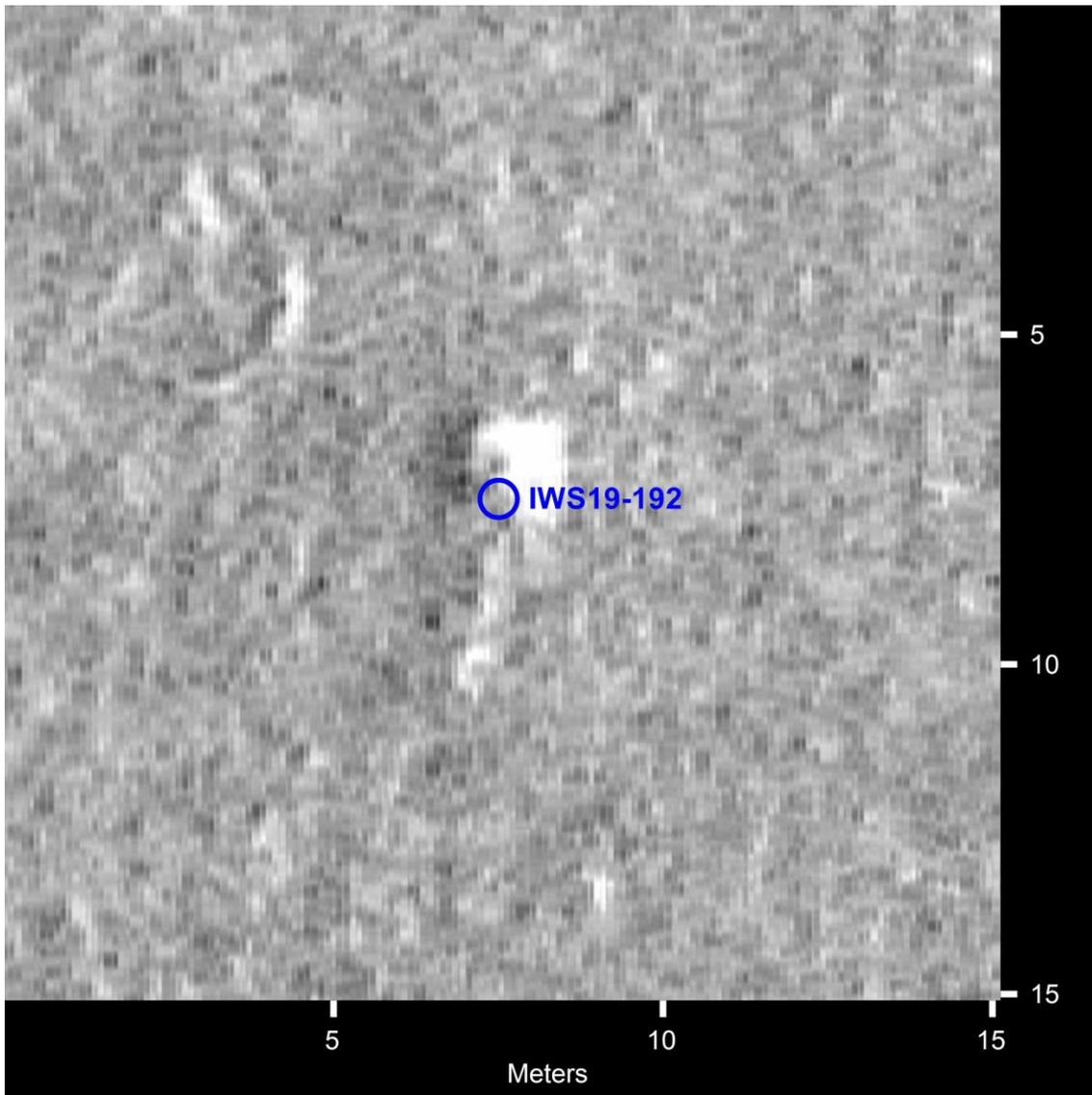
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**IWS19-191**

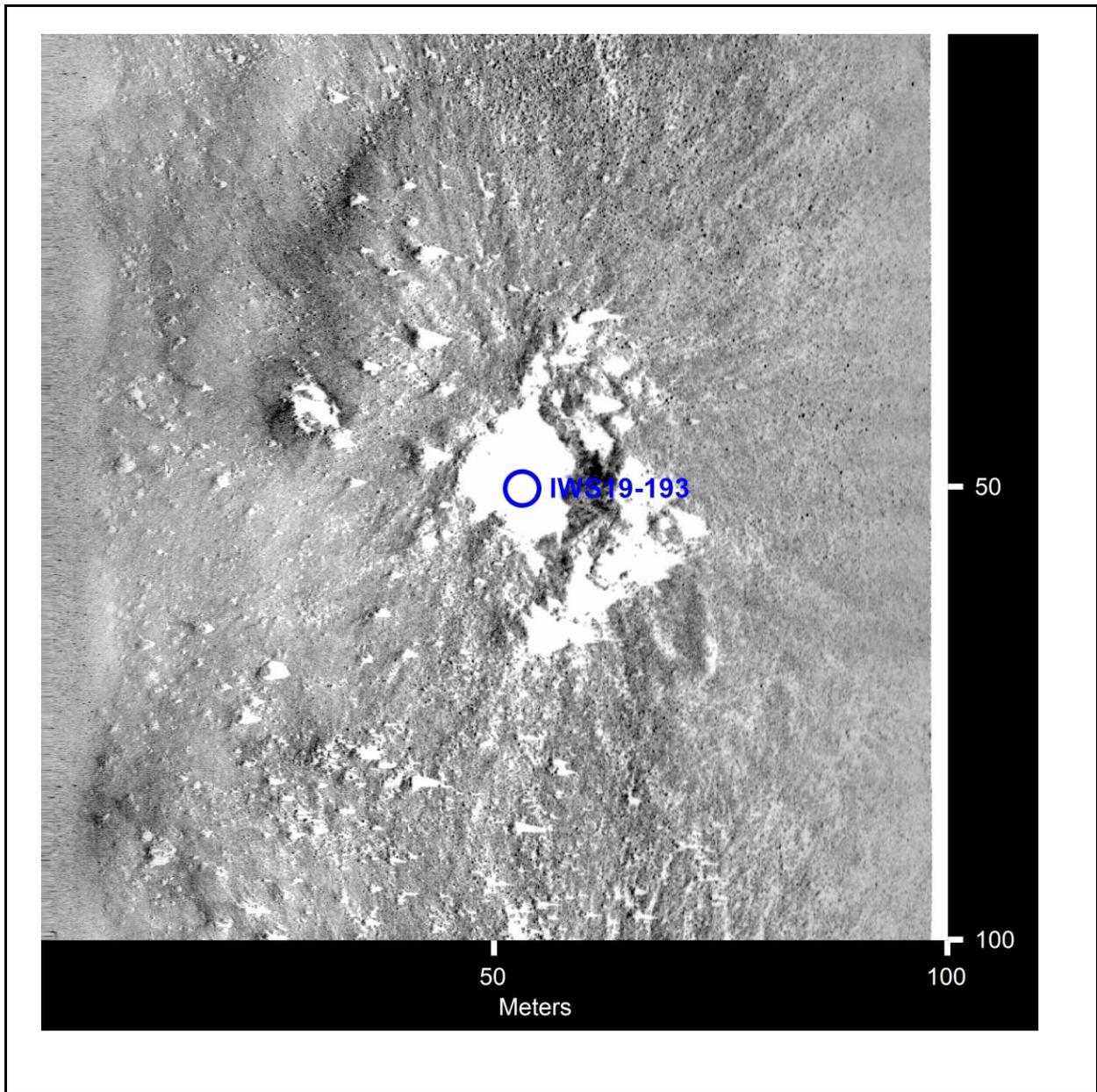
- Sonar Time at Target: 7/1/2019 9:05:37 PM
- Position  
42.4393472366 -70.6039445795 (WGS84)  
(X) 273722.68 (Y) 910256.53 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_204300\_10227.20190702\_011637.xtf
- Ping Number: 74847
- Range to target: 64.24 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.84 Meters
- Target Height: 0.10 Meters
- Target Length: 1.40 Meters
- Target Shadow: 3.53 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-192</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 9:06:51 PM</li><li>• Position 42.4379429829 -70.6047229311 (WGS84) (X) 273660.28 (Y) 910099.88 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_204300_10227.20190702_011637.xtf</li><li>• Ping Number: 78674</li><li>• Range to target: 58.18 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.80 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 1.83 Meters</li><li>• Target Shadow: 1.47 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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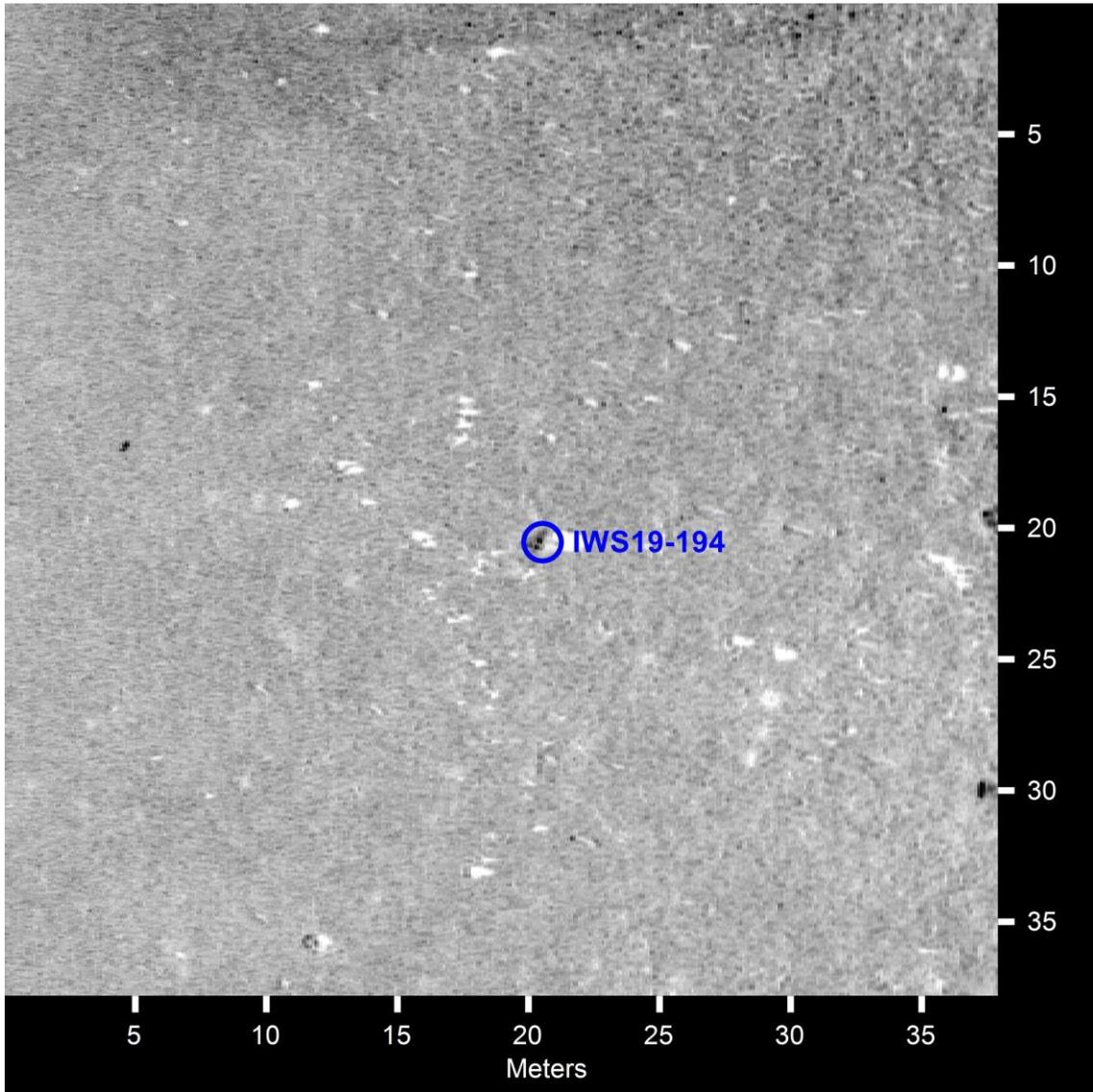


**IWS19-193**

- Sonar Time at Target: 7/1/2019 8:58:32 PM
- Position  
42.4413999743 -70.5963842495 (WGS84)  
(X) 274342.27 (Y) 910491.10 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_204300\_10227.20190702\_011637.xtf
- Ping Number: 52916
- Range to target: 53.04 Meters
- Fish Height: 1.95 Meters

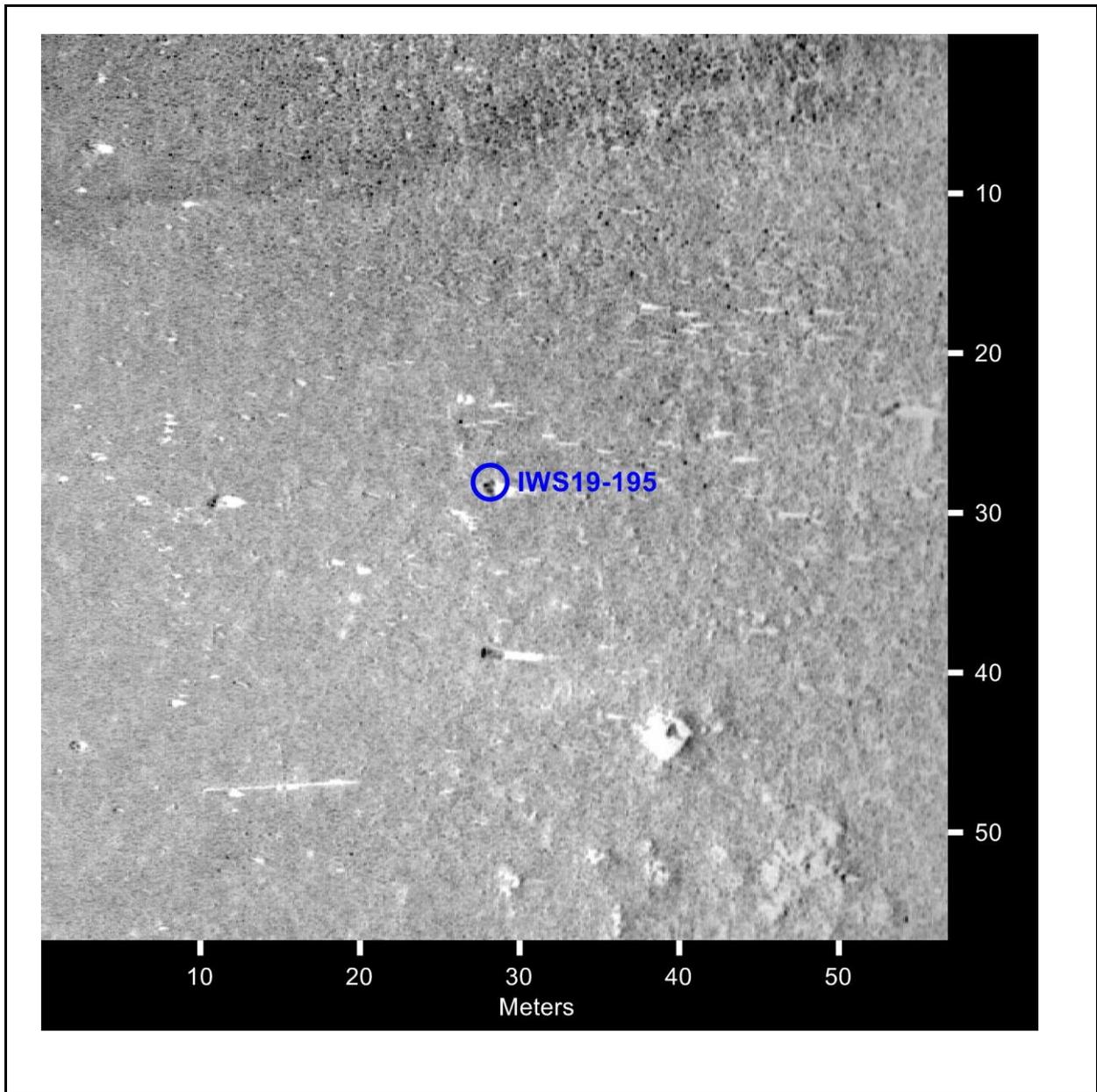
**Dimensions and attributes**

- Target Width: 26.20 Meters
- Target Height: 0.26 Meters
- Target Length: 38.56 Meters
- Target Shadow: 8.21 Meters
- Classification1: Disposal crater
- Description: Impact crater



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<p><b>IWS19-194</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 9:05:13 PM</li><li>• Position 42.4392747047 -70.6033987164 (WGS84) (X) 273767.68 (Y) 910248.95 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_204300_10227.20190702_011637.xtf</li><li>• Ping Number: 73556</li><li>• Range to target: 40.58 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.44 Meters</li><li>• Target Height: 0.05 Meters</li><li>• Target Length: 0.98 Meters</li><li>• Target Shadow: 1.16 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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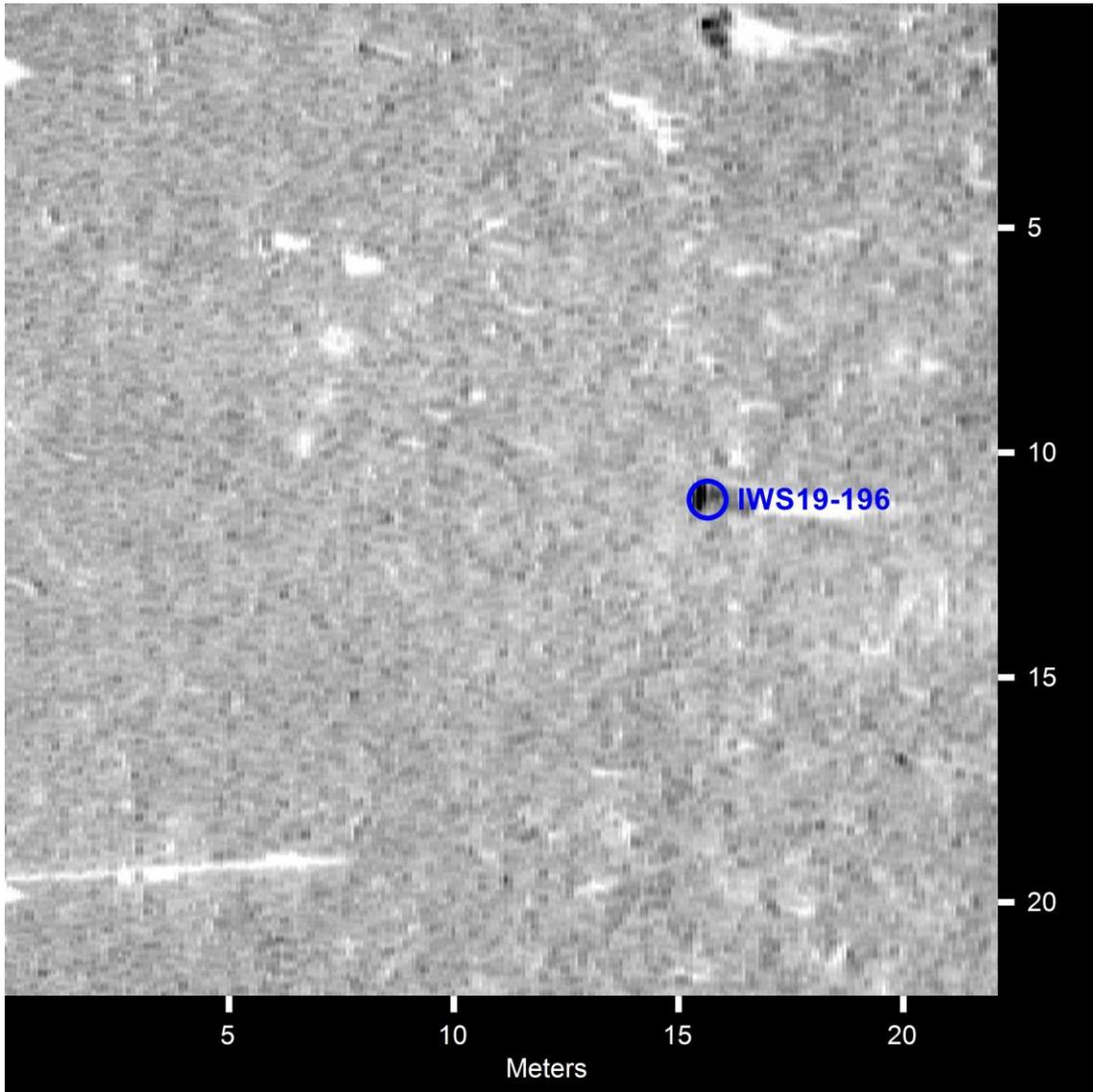


**IWS19-195**

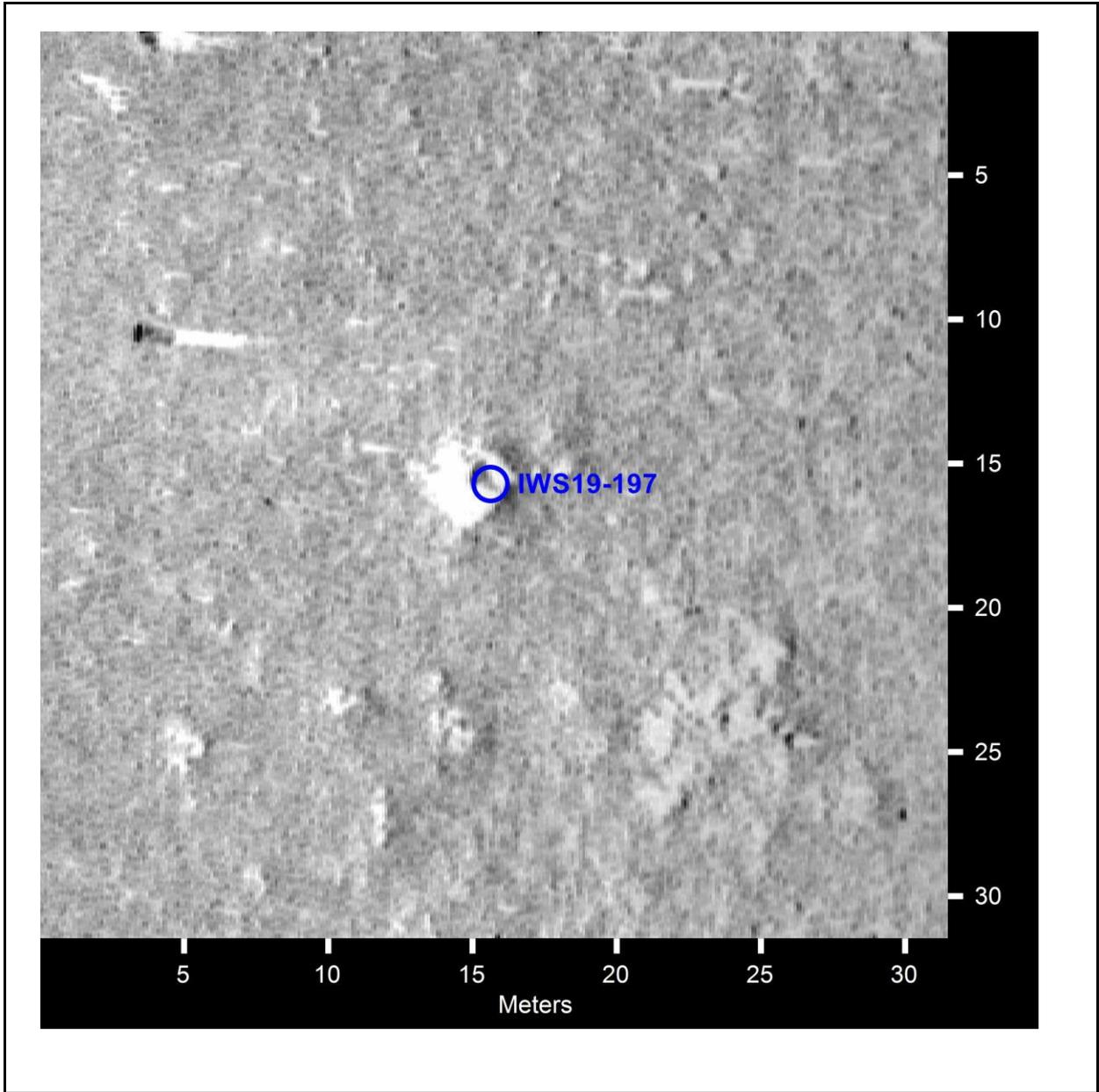
- Sonar Time at Target: 7/1/2019 9:05:12 PM
- Position  
42.4394228809 -70.6034591044 (WGS84)  
(X) 273762.54 (Y) 910265.35 (Projected Coordinates)
- Map Projection: MA83
- Acoustic Source File:  
Bluefin.20190701\_204300\_10227.20190702\_011637.xtf
- Ping Number: 73514
- Range to target: 57.73 Meters
- Fish Height: 1.95 Meters

**Dimensions and attributes**

- Target Width: 0.90 Meters
- Target Height: 0.07 Meters
- Target Length: 1.19 Meters
- Target Shadow: 2.25 Meters
- Classification1: Trap
- Description:



<p><b>IWS19-196</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 9:05:19 PM</li><li>• Position 42.4393865002 -70.6035793347 (WGS84) (X) 273752.69 (Y) 910261.21 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_204300_10227.20190702_011637.xtf</li><li>• Ping Number: 73871</li><li>• Range to target: 57.50 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 0.76 Meters</li><li>• Target Height: 0.09 Meters</li><li>• Target Length: 1.29 Meters</li><li>• Target Shadow: 2.98 Meters</li><li>• Classification1: Trap</li><li>• Description:</li></ul>
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<p><b>IWS19-197</b></p> <ul style="list-style-type: none"><li>• Sonar Time at Target: 7/1/2019 9:05:22 PM</li><li>• Position 42.4394707630 -70.6036901942 (WGS84) (X) 273743.47 (Y) 910270.47 (Projected Coordinates)</li><li>• Map Projection: MA83</li><li>• Acoustic Source File: Bluefin.20190701_204300_10227.20190702_011637.xtf</li><li>• Ping Number: 74043</li><li>• Range to target: 69.50 Meters</li><li>• Fish Height: 1.95 Meters</li></ul>	<p><b>Dimensions and attributes</b></p> <ul style="list-style-type: none"><li>• Target Width: 1.40 Meters</li><li>• Target Height: 0.06 Meters</li><li>• Target Length: 2.24 Meters</li><li>• Target Shadow: 2.23 Meters</li><li>• Classification1: debris</li><li>• Description:</li></ul>
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