



Rampion Offshore Wind Farm



ES Section 13 – Marine Archaeology - Appendix 13.1

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E.ON Climate & Renewables UK Rampion Offshore Wind Limited

**ARCHAEOLOGICAL ASSESSMENT
OF GEOPHYSICAL DATA
RAMPION WINDFARM MET MAST
ON BEHALF OF
RSK GROUP**



Moore Marine Services

Job Number: M12WS01

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TABLE OF CONTENTS

1	SCOPE OF WORKS	5
1.1	Introduction.....	5
1.2	Archaeological Impact Assessment	5
2.	PROJECT DESCRIPTION	6
2.1	Proposed Development.....	6
3.	GEOPHYSICAL SURVEY.....	6
4.	ARCHAEOLOGICAL ASSESSMENT OF GEOPHYSICAL DATA.....	7
4.1.	Bathymetry	7
4.2	Side Scan Sonar.....	7
4.3	Marine Magnetometer	11
4.4	Sub Bottom Profiler	13
5.	ARCHAEOLOGICAL INTERPRETATION OF GEOPHYSICAL DATA	14
APPENDIX 1.	SIDE SCAN SONAR CONTACTS.....	15
APPENDIX 2.	BIBLIOGRAPHY	133

TABLE OF PLATES

Plate 1.	Side Scan Sonar mosaic of site with contacts	8
Plate 2.	Magnetometer survey results (contacts highlighted in colour)	12
Plate 3.	Additional Magnetometer Survey Result	13
Plate 4.	Sub Bottom Profiler trace with palaeo-channel.	14

TABLE OF TABLES

Table 1.	Table of Side Scan Sonar and Marine Magnetometer contacts	11
Table 2.	Table of identified magnetic anomalies	13

NON TECHNICAL SUMMARY

Moore Marine was commissioned by the RSK Group to carry out an archaeological assessment of high resolution geophysical data acquired in the vicinity of a proposed Met Mast associated with the Rampion Round 3 wind farm site, located 10 miles off Shoreham, West Sussex (Figure 1). The assessment comprised a review of side scan sonar, marine magnetometer and sub bottom profiler data with the aim of identifying the location of any cultural heritage deposits or features which may be contained within the footprint of the proposed met mast development.

The assessment sought to identify and address the location, nature, character, condition and extent of any cultural heritage, which may be affected by both primary and secondary impact resultant from the construction of the met mast. It details the survey methodology, the results of archaeological interpretation of the geophysical data and the identification of the possible impacts of the proposed works.

The data analysis comprised investigation and review of multibeam bathymetric data, side scan sonar, marine magnetometer and sub bottom profiler data.

Bathymetric data, both single beam and multibeam are of limited use for archaeological assessment purposes. None the less, a review of the bathymetric data acquired during the site survey around BH13 was carried out. No potential archaeological features were identified in the bathymetric data.

A total of 112 sonar contacts were identified during the review of the side scan sonar data. This is a larger number than identified by Osiris Projects, however this can be accounted for by the fact that all small scale features were identified and measured in this review where only more large scale features appear to have been identified by Osiris Projects.

Of the 112 identified contacts most were considered to be boulders and boulder clusters. Seven were indistinguishable, most likely boulders and four appeared to be associated with recorded magnetometer contacts. These may indicate the presence of man-made debris or boulders which have a high ferro-magnetic content. All were located outside the immediate development area. The data indicated that there was a boulder cluster

concentration in the southern and southeastern corner of the survey area. The review of the side scan sonar data did not record the presence of any potential cultural heritage deposits in the survey area.

The review of the marine magnetometer data identified six discernible magnetic anomalies on the subject site. Five of the recorded magnetic anomalies appear to be related to side scan sonar targets, none of which were archaeological in nature. A single buried anomaly (MAG1) could potentially represent buried cultural heritage. It will not be possible to discern the nature of this magnetic anomaly without direct visual investigation.

The review of the sub bottom profiler data indicated that a shallow buried channel feature was identified in the northwest of the site. The bedrock surface lies at a maximum of 5m below sea level within this feature. There is potential that this feature may contain cultural heritage deposits within the channel infill sediments.

The results of the archaeological interpretation of geophysical data noted that whilst there were no clearly discernible cultural heritage deposits or features on the subject site, there was potential for the recovery of archaeological material. The two areas of highest archaeological potential were:

1. Unknown magnetic feature recorded as MAG1. This feature may be archaeological.
2. The palaeo-channel noted in the northwestern end of the site. This quaternary feature may contain cultural heritage deposits and any impact of the channel may negatively impact these features.

Should any further investigative works be carried out in these areas, the results should be forwarded to the archaeological contractor for analysis.

1 SCOPE OF WORKS

1.1 Introduction

Moore Marine was commissioned by the RSK Group to carry out an archaeological assessment of high resolution geophysical data acquired in the vicinity of a proposed Met Mast associated with the Rampion Round 3 wind farm site, located 10 miles off Shoreham, West Sussex (Figure 1). The assessment comprised a review of side scan sonar, marine magnetometer and sub bottom profiler data with the aim of identifying the location of any cultural heritage deposits or features which may be contained within the footprint of the proposed met mast development.

The assessment sought to identify and address the location, nature, character, condition and extent of any cultural heritage, which may be affected by both primary and secondary impact resultant from the construction of the met mast. It details the survey methodology, the results of archaeological interpretation of the geophysical data and the identification of the possible impacts of the proposed works.

The objective of the report is to identify whether further enabling works will have the potential to impact on either known or unknown cultural heritage which may be contained within the proposed development zone.

1.2 Archaeological Impact Assessment

The principle aim of assessment is to anticipate and avoid impacts on the archaeological resource. Archaeological assessment may be required as part of the planning process in response to developments which may be located in the vicinity of archaeological monuments

The purpose of the impact assessment is: (i) to ascertain the character, condition and extent of any archaeological areas, features or objects likely to be affected by the proposed works, including any associated temporary works and to ascertain the potential impact of the works on archaeological remains outside the immediate area of the proposed works as these may be vulnerable to impacts arising from consequent changes in hydrology and sediment formation, (ii) to accurately locate these archaeological areas, features and objects and present the findings in map form, (iii) to describe same and discuss their likely provenance, (iv) to ascertain the likely impact of the proposed works on these remains, (v) to recommend appropriate measures for the avoidance of these remains or, where this cannot be achieved, to recommend measures to mitigate the impact of the works and (vi) to incorporate all the above in a report.

2. PROJECT DESCRIPTION

2.1 Proposed Development

The survey of the area surrounding the proposed met mast area was undertaken by Osiris projects between 15th and 25th September 2011. It was undertaken as an adjunct to their previous and larger site survey carried out from May to August 2010. The 2010 survey covered the landfall cable route (approx. 79 square km); and the northern and shallower part of the site (<50 CD and estimated at approximately 138 square km); Sections 1 & 2 respectively.

The 2011 survey comprised an area within section 3, at a coarser line spacing and covering an area generally shallower than 50m CD, with the addition of a UXO investigation site of the proposed met mast (BH13) located within the northwest corner of section 2. Borehole 13 was located at 687654.38mE, 5618494.45mN (50°41'16.704"N, 0°20'35.856"W). Unless stated otherwise, all co-ordinates quoted in this report are referenced to the WGS84 Datum. Grid co-ordinates are the UTM Projection, Zone 30N, Central Meridian 3°W.

3. GEOPHYSICAL SURVEY

The Geophysical survey was undertaken using Osiris Projects own dedicated survey vessel, MV Chartwell, a 24hr operations vessel, on the 24th September 2011, during daylight hours.

The mobilisation of MV Chartwell began on the 15th September 2011 in Brighton Marina. During the mobilisation phase, navigation checks, gyro, multibeam and USBL calibrations were completed. The mobilisation, calibrations and full wet test was completed by 12:00 BST on the 17th September 2011.

Data acquisition comprised simultaneous recording of Reson 7101 multi-beam echo sounder and Klein 3000 high resolution side scan sonar data, with piggy-backed marine magnetometer and 'Boomer' sub-bottom profiler. The settings of the boomer and multi beam were modified to increase data resolution. The UXO investigation comprised a 200m box area, with 41 main lines spaced at 5m and orientated at 71°/251°, together with 3 cross lines orientated perpendicular to the main lines. The objective of the survey was to locate any potential obstructions (natural or anthropogenic) to the installation of a met mast. The magnetometer was flown as close to the seabed as possible, with flying height controlled generally between 0m and 2m above seabed.

A Fisheries Industry Representative (FIR) was assigned to the project for the duration of the survey to ease any conflict between active fisheries parties and Osiris Projects.

The project was carried out under CDM Regulations 2007, with Osiris Projects appointed Principal Contractor and Designer. The Client was appointed Client and CDM Co-ordinator.

4. ARCHAEOLOGICAL ASSESSMENT OF GEOPHYSICAL DATA

4.1. Bathymetry

Bathymetric data, both single beam and multibeam are of limited use for archaeological assessment purposes. The spot point nature of the techniques does not provide a capability to determine detailed bottom form and shape like those of side scan sonar. In addition single beam and multibeam sonars do not easily provide differentiation between substrate types. Consequently, these techniques do not easily distinguish smaller features and so are only useful in the identification of large structures such as shipwrecks. None the less, a review of the bathymetric data acquired during the site survey around BH13 was carried out. The data was analysed using Hypack 2012 (Hysweep) and Surfer software. It was investigated for the presence of subtle vertical features which may represent cultural heritage deposits. None were identified. The review of the bathymetric data indicated that seabed levels ranged from 18.1m below LAT in the north of the area, to 19.6m below LAT, close to the southern extents of the site.

4.2 Side Scan Sonar

Side scan sonar, marine magnetometer and sub bottom profiler are the geophysical survey techniques best suited to the identification of cultural heritage. Moore Marine used a combination of SonarWiz 5 and Coda data processing software to interrogate side scan sonar data for archaeological signatures.

During interrogation slant range correction is not applied. Applying slant range correction distorts the true sonar trace image and can sometimes lead to incorrect feature measurements. Thus for archaeological assessment purposes, slant range correction is always turned off.

Each survey line is interrogated using the software, any potential cultural heritage is assigned an individual identification number (SSA in this case), measured and described. A scaled snap shot of the feature is also recorded. These are then collated into a feature report which is produced at the end of the exercise.

The side scan sonar survey of the subject area identified that the seabed materials comprised mainly sandy gravel, with poorly defined bed forms. A band of gravelly sand with mega ripples ran northeast - southwest across the southerly portion of the site and there was an area of sandy gravel towards the north eastern extents of the site. A number of trawls scars were evident towards the western portion of the site and these generally ran in a northwest to south easterly direction.

A total of 112 sonar contacts were identified during the review of the side scan sonar data. This is a larger number than identified by Osiris Projects, however this can be accounted for by the fact that all small scale features were identified and measured in this review where only more large scale features appear to have been identified by Osiris Projects.

Of the 112 identified contacts most were considered to be boulders and boulder clusters. Seven were indistinguishable, most likely boulders and four appeared to be associated with recorded magnetometer contacts. These may indicate the presence of man-made debris or boulders which have a high ferro-magnetic content. All were located outside the immediate development area. The data indicated that there was a boulder cluster concentration in the southern and southeastern corner of the survey area. The review of the side scan sonar data did not record the presence of any potential cultural heritage deposits in the survey area.

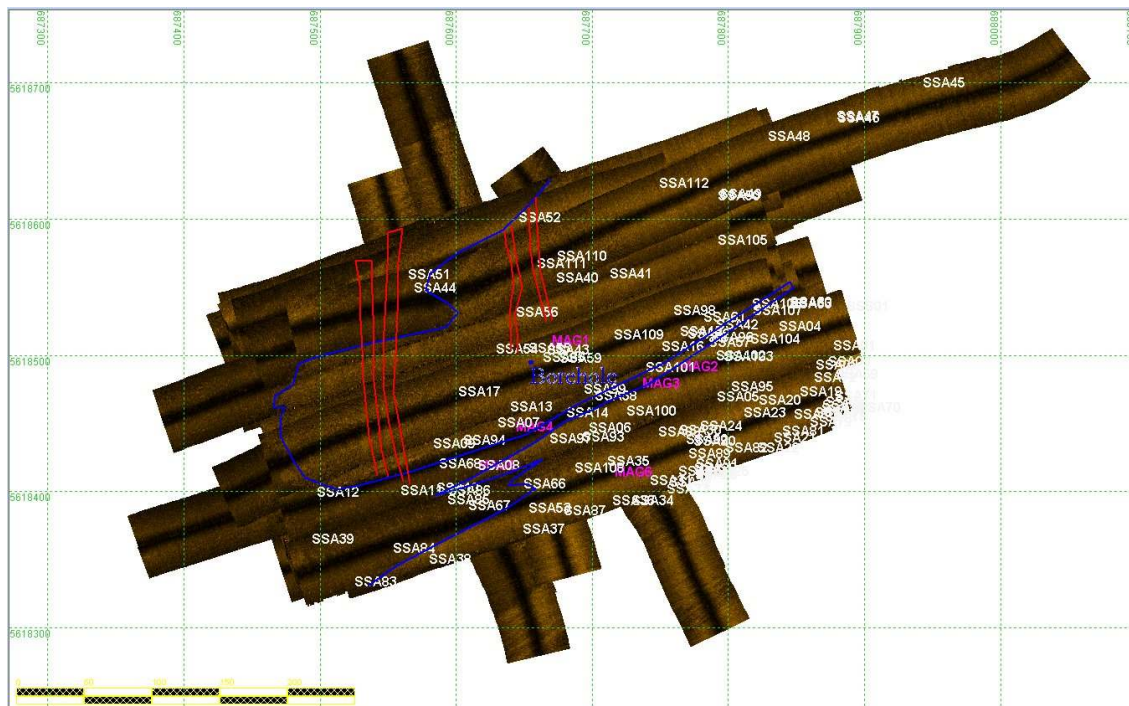


Plate 1. Side Scan Sonar mosaic of site with contacts

Name	Easting	Northing	Description	Height	Length	Shadow
MAG1	687663.8	5618510	Magnetic Anomaly 1	0	0	0
MAG2	687758.7	5618490	Magnetic Anomaly 2	0	0	0
MAG3	687730.6	5618478	Magnetic Anomaly 3	0	0	0
MAG4	687637.3	5618446	Magnetic Anomaly 4	0	0	0
MAG5	687609.8	5618418	Magnetic Anomaly 5	0	0	0
MAG6	687709.5	5618413	Magnetic Anomaly 6	0	0	0
SSA01	687870.6	5618506	boulder	0.164151	0.721508	0.418231
SSA02	687857.5	5618492	boulder	0.125449	1.551269	0.57754
SSA03	687866.6	5618494	boulder	0.100742	0.669807	0.478723
SSA04	687830.6	5618520	boulder	0.227887	0.684913	0.650407
SSA05	687785	5618468	Possible Boulder	0.096614	1.684975	0.450402
SSA06	687690.7	5618445	boulders	0.16713	0.743359	0.47619
SSA07	687623.4	5618449	Indistinguishable	0	0.470389	0

SSA08	687608.7	5618418	Probable Man Made Debris	0.288255	0.744621	0.709677
SSA09	687576.2	5618434	Probable Boulder	0.142289	0.441617	0.473684
SSA10	687578.7	5618401	Boulder	0.227473	0.415341	0.884211
SSA100	687718.2	5618457	Boulder	0.24531	0.978317	0.502793
SSA101	687732.8	5618490	Possible Man Made Debris	0.438701	0.448266	1.724138
SSA102	687784.7	5618499	Boulder	0.315181	0.862567	0.754286
SSA103	687789.8	5618498	Boulder	0.38759	0.693872	0.756447
SSA104	687809.8	5618511	Boulder	0.143708	0.817014	0.409091
SSA105	687786	5618583	Boulder	0.184265	0.553277	0.71579
SSA106	687810.8	5618537	Small Boulder	0.134944	0.280925	0.32107
SSA107	687811.9	5618532	Small Boulder	0.119953	0.488317	0.402685
SSA108	687680.1	5618416	Indistinguishable	0	2.687383	0
SSA109	687708.9	5618514	Hollow	0	2.948398	0
SSA11	687552.5	5618399	Probable Boulder	0.159807	0.476758	0.438642
SSA110	687667.1	5618572	Small Boulder	0.095616	0.372799	0.474576
SSA111	687652.3	5618567	Small Boulder	0.097228	0.508346	0.474576
SSA112	687742.7	5618625	Small Boulder	0.103967	0.552456	0.492537
SSA12	687491	5618398	Indistinguishable	0.125705	0.771752	0.246787
SSA13	687632.6	5618460	Boulder	0.075109	0.527321	0.373057
SSA14	687674.1	5618456	Hollow	0.445514	1.590551	0.601583
SSA15	687758.4	5618517	boulder	0.451505	0.833552	1.546392
SSA16	687744.4	5618506	Possible Man Made Debris	0.145897	1.293513	0.713178
SSA17	687594.6	5618472	Hollow	0	1.783905	0
SSA18	687861.9	5618460	Boulder	0.246308	0.421522	0.416185
SSA19	687845.8	5618472	Boulder	0.155165	0.638881	0.335196
SSA20	687815.9	5618466	Indistinguishable	0.180428	0.450659	0.546917
SSA21	687826.9	5618438	Boulder	0.165914	0.522589	0.482574
SSA22	687814.7	5618431	Boulder	0.066181	0.981316	0.224599
SSA23	687804.7	5618456	Probable Boulder	0.302587	0.675455	0.673797
SSA24	687773.1	5618446	Boulder	0.216099	0.785223	0.571429
SSA25	687777.6	5618414	Boulder	0.363622	0.898015	1.691489
SSA26	687769.3	5618411	Boulder	0.400022	1.603707	1.764706
SSA27	687769.3	5618413	Boulder	0.204569	0.737945	0.802139
SSA28	687768.9	5618416	Boulder	0.267732	1.026309	0.898396
SSA29	687757	5618413	Boulder	0.272865	0.844171	0.806452
SSA30	687757.4	5618444	Probable Boulder	0.158161	0.417868	0.513369
SSA31	687735.8	5618406	Possible Boulder	0.212377	0.846186	0.614555
SSA32	687750	5618406	Boulder	0.272117	0.779123	1.07027
SSA33	687748.6	5618401	Boulder	0.151967	0.84001	0.713514
SSA34	687722.1	5618392	Probable Boulder	0	1.285206	0
SSA35	687703.8	5618421	Possible man made debris	0.206201	0.254854	0.443272
SSA36	687707.5	5618392	Boulder	0.174152	0.451598	0.663158

SSA37	687642.1	5618371	Indistinguishable	0.153459	0.89424	0.574468
SSA38	687573.6	5618349	Indistinguishable	0.146629	1.288465	0.545455
SSA39	687487.7	5618364	Probable Boulder	0	1.21984	0
SSA40	687666.6	5618556	Boulder	0.176341	0.360215	0.468468
SSA41	687706.3	5618559	Probable Boulder	0.14802	0.44002	0.733945
SSA42	687784.7	5618522	Boulder	0.166736	0.369822	0.402235
SSA43	687659.9	5618503	Boulder	0.142012	0.469372	0.436975
SSA44	687562.2	5618549	Probable Boulder	0.103016	0.511295	0.212766
SSA45	687936.1	5618699	Probable Boulder	0.22724	1.510021	0.842105
SSA46	687873.9	5618673	boulder	0.089801	0.29614	0.251748
SSA47	687873.1	5618675	Boulder	0.207741	0.254758	0.671329
SSA48	687822.9	5618660	Boulder	0.136061	0.346149	0.505263
SSA49	687787	5618617	Boulder	0.202882	0.475452	0.431655
SSA50	687786	5618616	Boulder	0.153714	0.687957	0.344086
SSA51	687557.9	5618558	Boulder	0.193101	0.435323	0.321839
SSA52	687639.3	5618600	Possible Boulder	0.242866	0.606461	0.420233
SSA53	687646.6	5618387	Probable Boulder	0.12732	0.763867	0.46332
SSA54	687622.2	5618504	Boulder	0.246201	0.865289	0.470588
SSA55	687646.2	5618505	Boulder	0	0.465803	0
SSA56	687637.4	5618531	Boulder	0.250207	0.454203	0.772727
SSA57	687779.4	5618509	Boulder	0.191971	0.696554	0.506203
SSA58	687695.1	5618469	Boulder	0.135847	1.087568	0.544081
SSA59	687669.2	5618497	Boulder	0.035363	0.477168	0.118519
SSA60	687838.6	5618538	Possible Boulder	0.130466	1.839792	0.452055
SSA61	687775.3	5618527	Boulder	0.404122	0.802199	0.8
SSA62	687763.6	5618515	Boulder	0.323136	1.2557	1.062295
SSA63	687838.5	5618537	Probable Boulder	0.164766	1.378057	0.657534
SSA65	687657	5618497	Indistinguishable	0	4.462639	0
SSA66	687643	5618404	Probable Boulder	0	0.976324	0
SSA67	687602	5618389	Boulder	0	0.757438	0
SSA68	687580.6	5618419	Boulder	0.115975	0.88735	0.381503
SSA69	687872.5	5618485	Boulder	0.251043	0.519647	0.428571
SSA70	687889	5618460	Boulder	0.105915	0.429038	0.520408
SSA71	687872.1	5618469	Boulder	0.195594	0.743192	0.428571
SSA72	687856.2	5618482	Boulder	0.187293	0.611327	0.426396
SSA73	687857.1	5618457	Boulder	0.096291	0.579155	0.334177
SSA74	687864.9	5618465	Boulder	0.242069	0.763045	0.609137
SSA75	687862.3	5618462	Boulder	0.145238	0.4324	0.395939
SSA76	687861.9	5618459	Boulder	0.158929	0.425341	0.517767
SSA77	687863.8	5618457	Boulder	0.1204	0.616352	0.456853
SSA78	687864.3	5618454	Boulder	0.217535	0.799391	1.005076
SSA79	687853.5	5618450	Boulder	0.264435	0.817182	1.272727

SSA80	687841.5	5618455	Boulder	0.270127	0.967638	0.757576
SSA81	687833.3	5618443	Boulder	0.174164	0.90831	0.791878
SSA82	687791.6	5618431	Probable Boulder	0.180876	0.993505	0.75
SSA83	687518.7	5618333	Boulder	0.145699	1.76049	0.663158
SSA84	687546.8	5618357	Boulder	0.242838	1.111552	0.533333
SSA85	687586.8	5618393	Possible Boulder	0.22897	0.985401	0.81
SSA86	687587.6	5618399	Boulder	0	2.118213	0
SSA87	687672	5618385	Possible Boulder	0.303304	2.197864	1.610127
SSA88	687742.1	5618442	Possible Boulder	0.19509	1.127774	0.398977
SSA89	687764.1	5618426	Boulder	0.175481	1.287461	0.55102
SSA90	687767.9	5618435	Boulder	0.309418	0.752869	0.57868
SSA91	687769.6	5618419	Boulder	0.113115	1.296605	0.55102
SSA92	687762.5	5618437	Probable Boulder	0.271259	1.314207	0.367347
SSA93	687685.5	5618439	Boulder	0.180145	0.525562	0.243655
SSA94	687598.7	5618436	Boulder	0.171605	0.909896	0.668354
SSA95	687795.9	5618476	Boulder	0.100417	0.704304	0.417112
SSA96	687781	5618513	Boulder	0.134069	0.82094	0.579088
SSA97	687661.8	5618437	Boulder	0	0.373938	0
SSA98	687753.6	5618532	Small hollow	0	1.608944	0
SSA99	687686.9	5618474	Small Boulder	0.226549	0.475049	0.813559
SSS01	687880.4	5618535	Boulder	0.131456	0.620459	0.359673

Table 1. Table of Side Scan Sonar and Marine Magnetometer contacts

4.3 Marine Magnetometer

Review of the marine magnetometer data was carried out using two software programs, Hypack 2012 and Surfer. They identified the location and strength of all magnetic contacts. The review of the data identified six discernible magnetic anomalies on the subject site. Five of the recorded magnetic anomalies appear to be related to side scan sonar targets (see below table). It was not possible to discern if the recorded magnetic and side scan anomalies were man-made debris or simply boulders with a high ferro-magnetic content. Magnetic Anomaly 1 appears to be buried and so its exact nature cannot be defined.

The review of the magnetic data appears to indicate that none of the side scan identified magnetic anomalies were archaeological in nature. The single buried anomaly (MAG1) could potentially represent buried cultural heritage. It will not be possible to discern the nature of this magnetic anomaly without direct visual investigation.

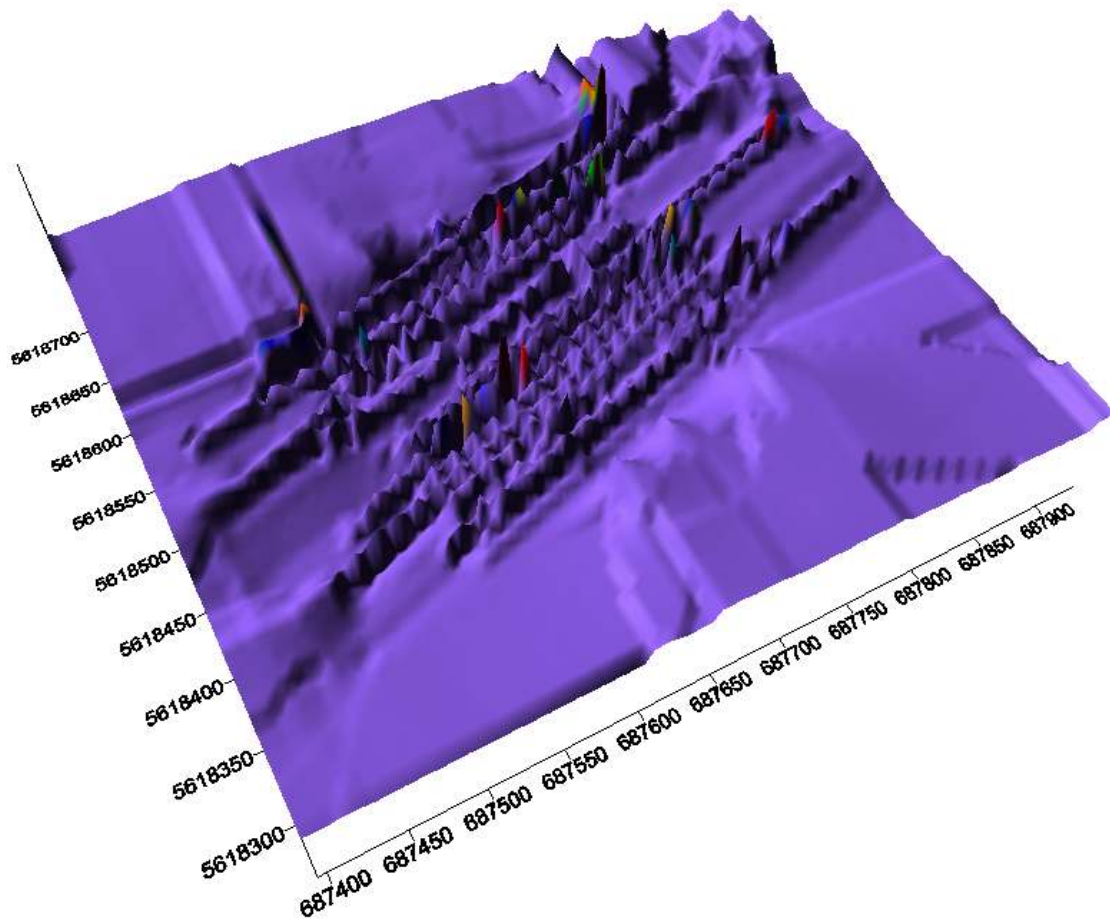


Plate 2. Magnetometer survey results (contacts highlighted in colour)

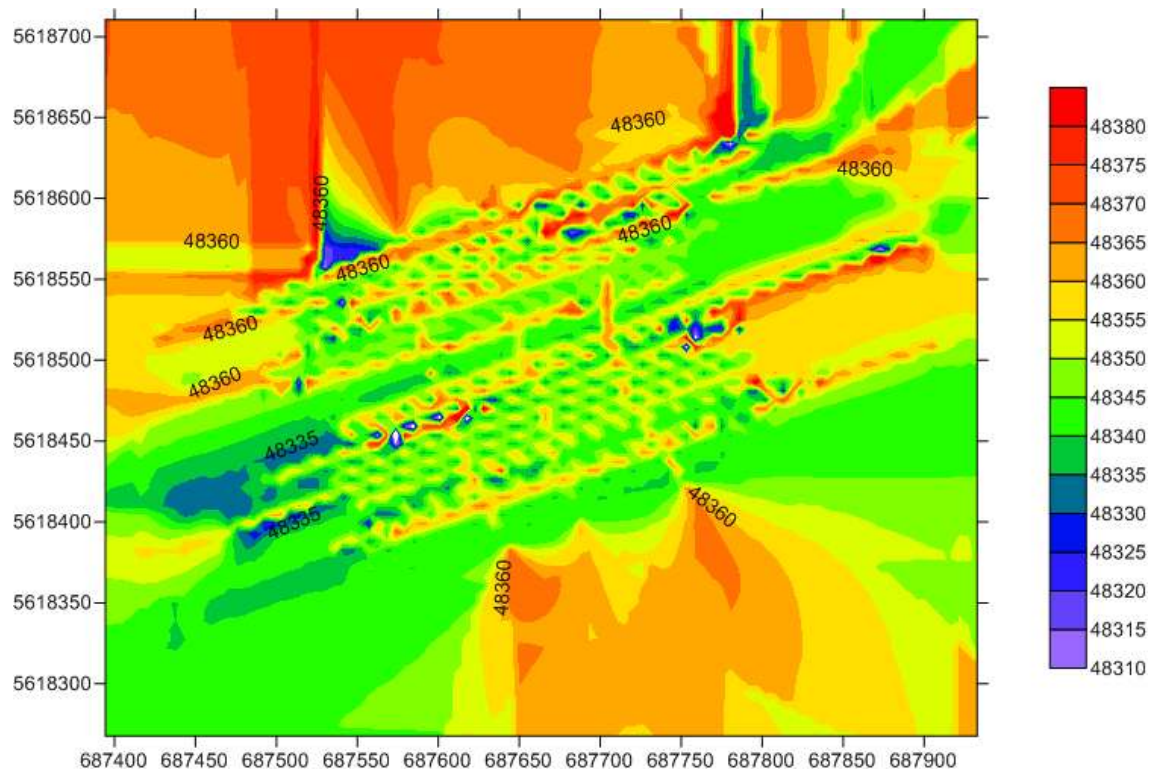


Plate 3. Additional Magnetometer Survey Result

ID	Eastings (m)	Northings (m)	Width (m)	Amplitude (nT)	Type	Associated Sonar Contact
M1	687663.8	5618510	4.78	1.5	Positive Monopole	
M2	687758.6	5618490	12.49	3.3	Positive Monopole	SSA16
M3	687730.5	5618478	10.48	3.9	Positive Monopole	S101
M4	687637.2	5618445	13.03	3.2	Negative Monopole	SSA07
M5	687609.9	5618417	11.82	6.4	Positive Monopole	SSA0 8
M6	687709.3	5618412	6.26	3.7	Positive Monopole	SSA35

Table 2. Table of identified magnetic anomalies

4.4 Sub Bottom Profiler

All sub bottom profiler data was reviewed using Sonarwiz 5 and Coda software. The software allowed for identification of particular stratigraphic horizons which may be indicative of the presence of heritage sensitive materials such as palaeo-landscapes. The sub bottom profiler technique used during this survey was boomer. Boomer data is very coarse in its acquisition and definition of subtle sediment

horizons often found in palaeo-landscapes is often difficult using this technique. Notwithstanding that, the entire boomer data set was reviewed. It indicated that bedrock is covered by a thin veneer (0-2m) of sandy gravels and gravelly sands over the majority of the site.

A shallow buried channel feature was identified in the northwest of the site. The bedrock surface lies at a maximum of 5m below sea level within this feature. There is potential that this feature may contain cultural heritage deposits within the channel infill sediments.

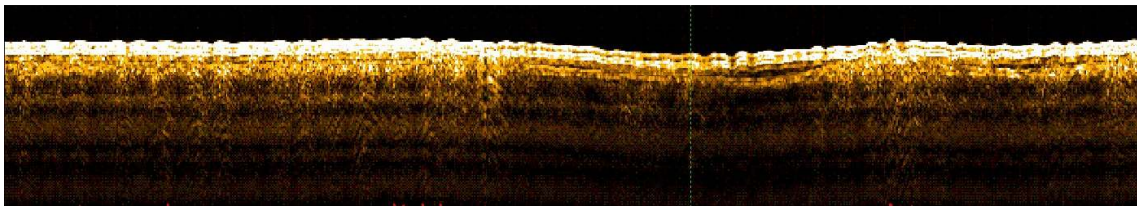


Plate 4. Sub Bottom Profiler trace with palaeo-channel.

5. ARCHAEOLOGICAL INTERPRETATION OF GEOPHYSICAL DATA

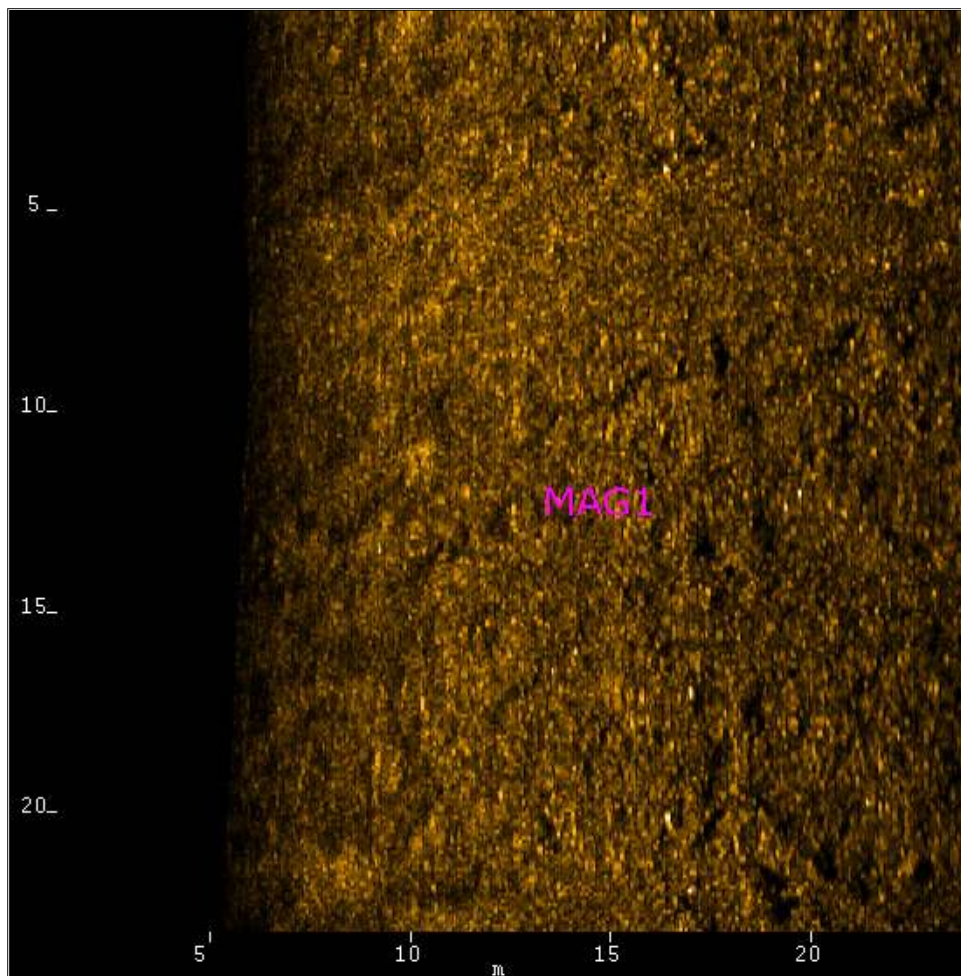
The results of the archaeological interpretation of geophysical data noted that whilst there were no clearly discernible cultural heritage deposits or features on the subject site, there was potential for the recovery of archaeological material. The two areas of highest archaeological potential were:

1. Unknown magnetic feature recorded as MAG1. This feature may be archaeological.
2. The palaeo-channel noted in the northwestern end of the site. This quaternary feature may contained cultural heritage deposits and any impact of the channel may negatively impact these features.

Should any further investigative works be carried out in these areas, the results should be forwarded to the archaeological contractor for analysis.

APPENDIX 1. SIDE SCAN SONAR CONTACTS

MAG1

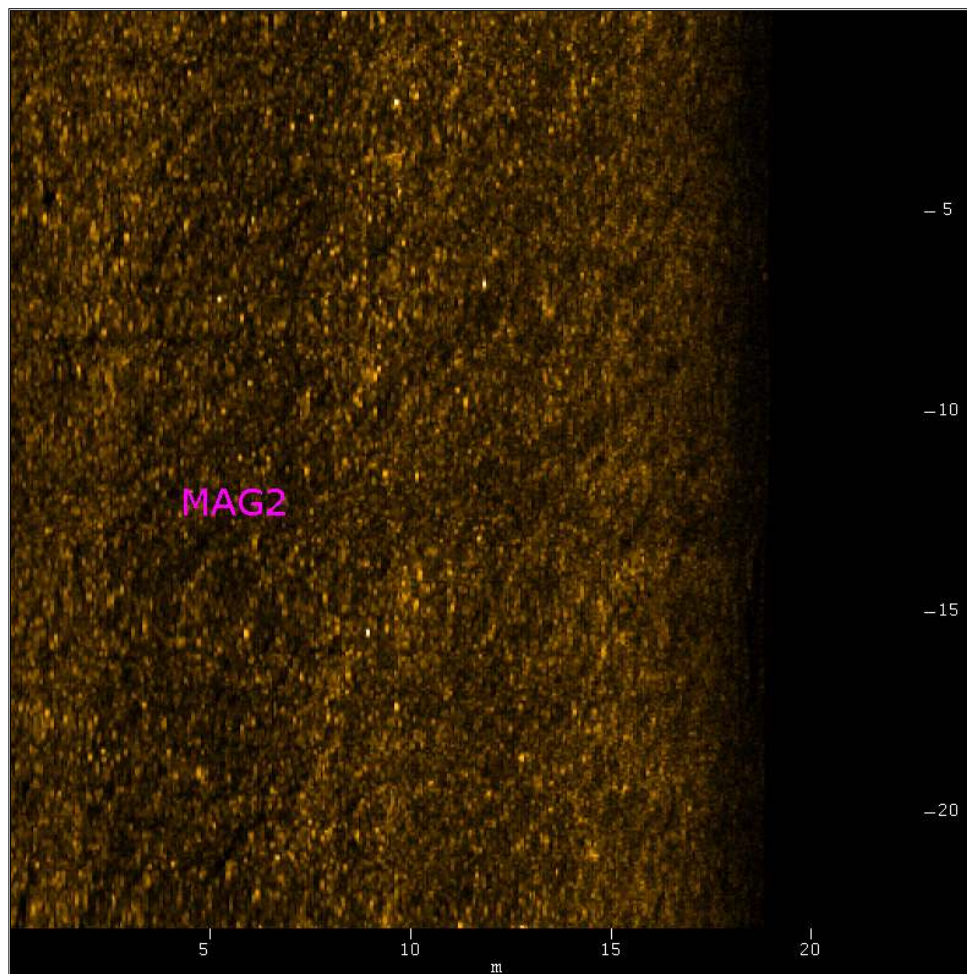
**Contact Info: MAG1**

- Sonar Time at Target: 09/24/2011 18:08:02
- Click Position (Lat/Lon Coordinates)
50.6881103516 -0.3431519866 (WGS84)
- Click Position (Projected Coordinates)
(X) 687663.81 (Y) 5618510.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924180700.xtf
- Ping Number: 781782
- Range to Target: 12.70 Meters
- Fish Height: 5.85 Meters
- Heading: 65.300 degrees
- Event Number: 0
- Line Name: C11030_110924180700

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG1
 Avoidance Area:
 Classification 1: Magnetic Anomaly 1
 Classification 2:
 Area:
 Block:
 Description: Magnetic Anomaly 1

MAG2

**Contact Info: MAG2**

- Sonar Time at Target: 09/24/2011 16:48:32
- Click Position (Lat/Lon Coordinates)
50.6879005432 -0.3418200016 (WGS84)
- Click Position (Projected Coordinates)
(X) 687758.69 (Y) 5618490.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924164700.xtf
- Ping Number: 642854
- Range to Target: 20.20 Meters
- Fish Height: 5.14 Meters
- Heading: 274.400 degrees
- Event Number: 0
- Line Name: C11030_110924164700

User Entered Info

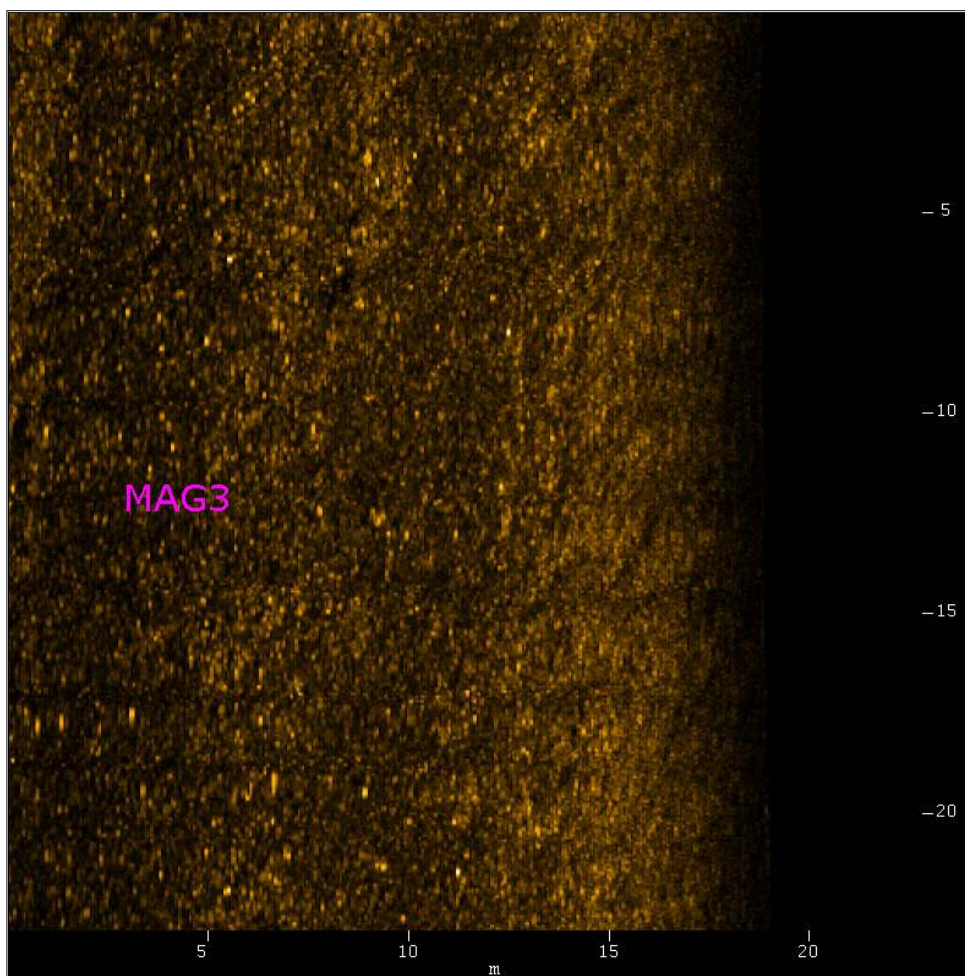
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG2
 Avoidance Area:
 Classification 1: Magnetic Anomaly 2
 Classification 2:
 Area:
 Block:
 Description: Magnetic Anomaly 2

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

MAG3

**Contact Info: MAG3**

- Sonar Time at Target: 09/24/2011 16:48:48
- Click Position (Lat/Lon Coordinates)
50.6878013611 -0.3422240019 (WGS84)
- Click Position (Projected Coordinates)
(X) 687730.56 (Y) 5618478.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924164700.xtf
- Ping Number: 643333
- Range to Target: 21.56 Meters
- Fish Height: 5.22 Meters
- Heading: 273.300 degrees
- Event Number: 0
- Line Name: C11030_110924164700

User Entered Info

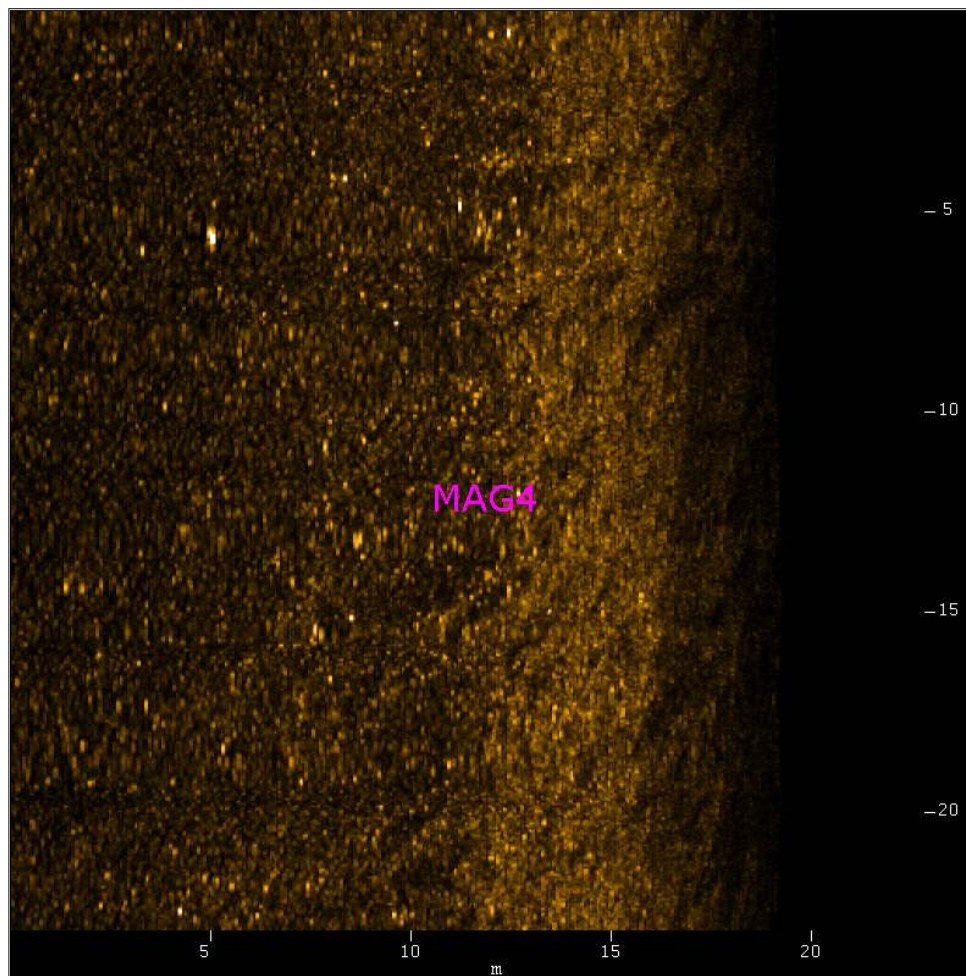
Target Height: = 0 Meters
Target Length: 0 Meters
Target Shadow: 0 Meters
Target Width: 0 Meters
Mag Anomaly: MAG3
Avoidance Area:
Classification 1: Magnetic Anomaly 3
Classification 2:
Area:
Block:
Description: Magnetic Anomaly 3

RAmpion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

MAG4

**Contact Info: MAG4**

- Sonar Time at Target: 09/24/2011 16:31:04
- Click Position (Lat/Lon Coordinates)
50.6875419617 -0.3435600102 (WGS84)
- Click Position (Projected Coordinates)
(X) 687637.31 (Y) 5618445.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924162900.xtf
- Ping Number: 612326
- Range to Target: 13.92 Meters
- Fish Height: 4.85 Meters
- Heading: 273.800 degrees
- Event Number: 0
- Line Name: C11030_110924162900

User Entered Info

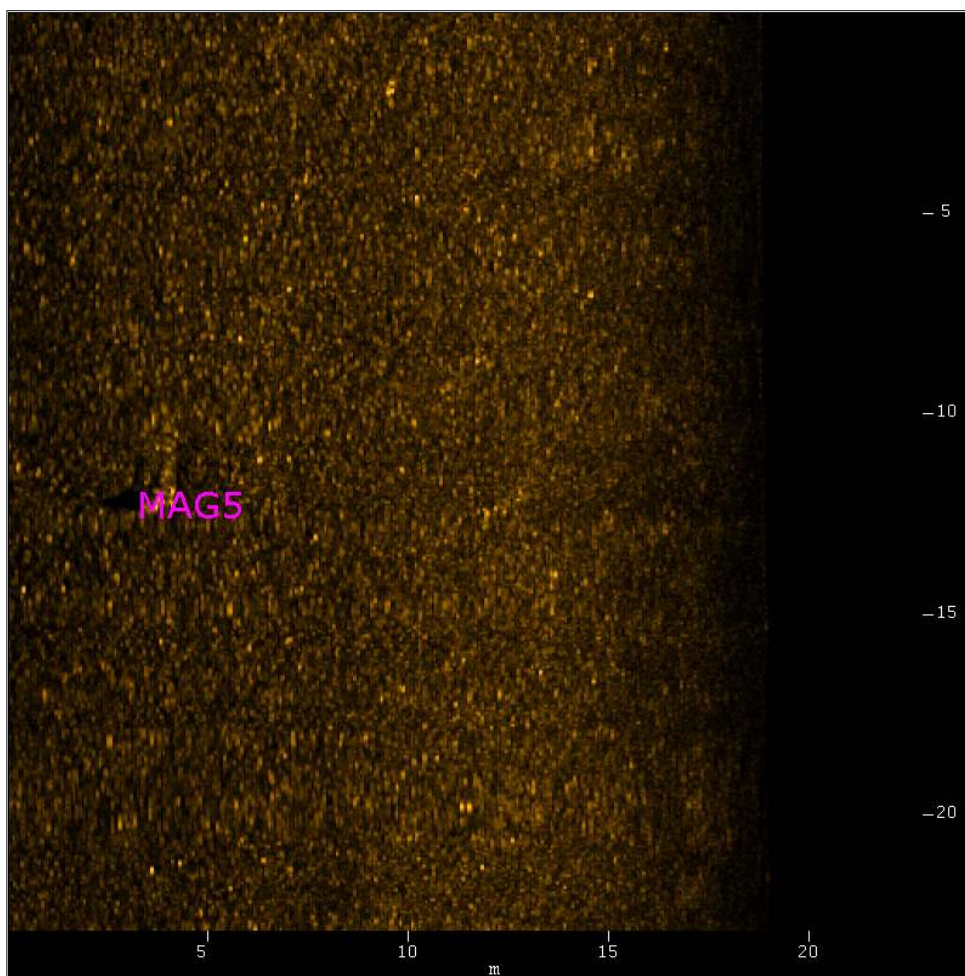
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG4
 Avoidance Area:
 Classification 1: Magnetic Anomaly 4
 Classification 2:
 Area:
 Block:
 Description: Magnetic Anomaly 4

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

MAG5

**Contact Info: MAG5**

- Sonar Time at Target: 09/24/2011 16:13:53
- Click Position (Lat/Lon Coordinates)
50.6872978210 -0.3439629972 (WGS84)
- Click Position (Projected Coordinates)
(X) 687609.81 (Y) 5618417.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924161100.xtf
- Ping Number: 582318
- Range to Target: 21.23 Meters
- Fish Height: 5.16 Meters
- Heading: 276.300 degrees
- Event Number: 0
- Line Name: C11030_110924161100

User Entered Info

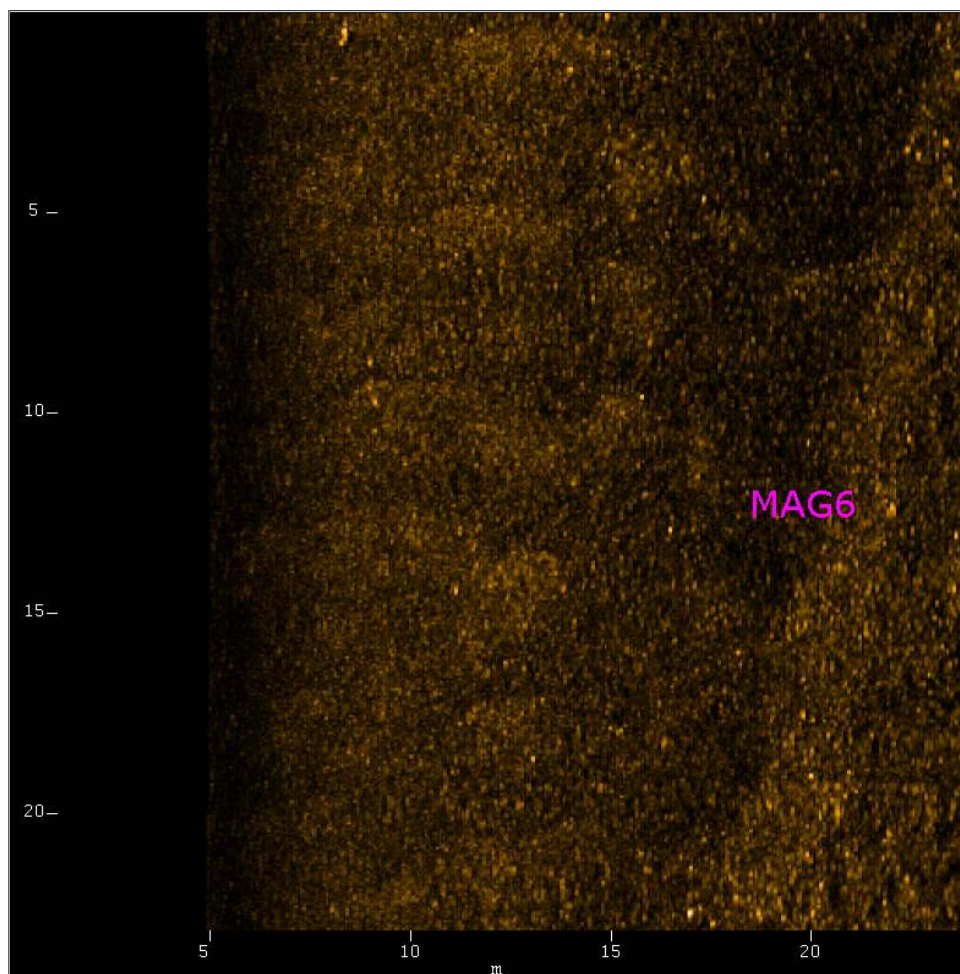
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG5
 Avoidance Area:
 Classification 1: Magnetic Anomaly 5
 Classification 2:
 Area:
 Block:
 Description: Magnetic Anomaly 5

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

MAG6

**Contact Info: MAG6**

- Sonar Time at Target: 09/24/2011 11:54:59
- Click Position (Lat/Lon Coordinates)
50.6872215271 -0.3425559998 (WGS84)
- Click Position (Projected Coordinates)
(X) 687709.50 (Y) 5618412.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924115300.xtf
- Ping Number: 129864
- Range to Target: 17.95 Meters
- Fish Height: 5.00 Meters
- Heading: 62.000 degrees
- Event Number: 0
- Line Name: C11030_110924115300

User Entered Info

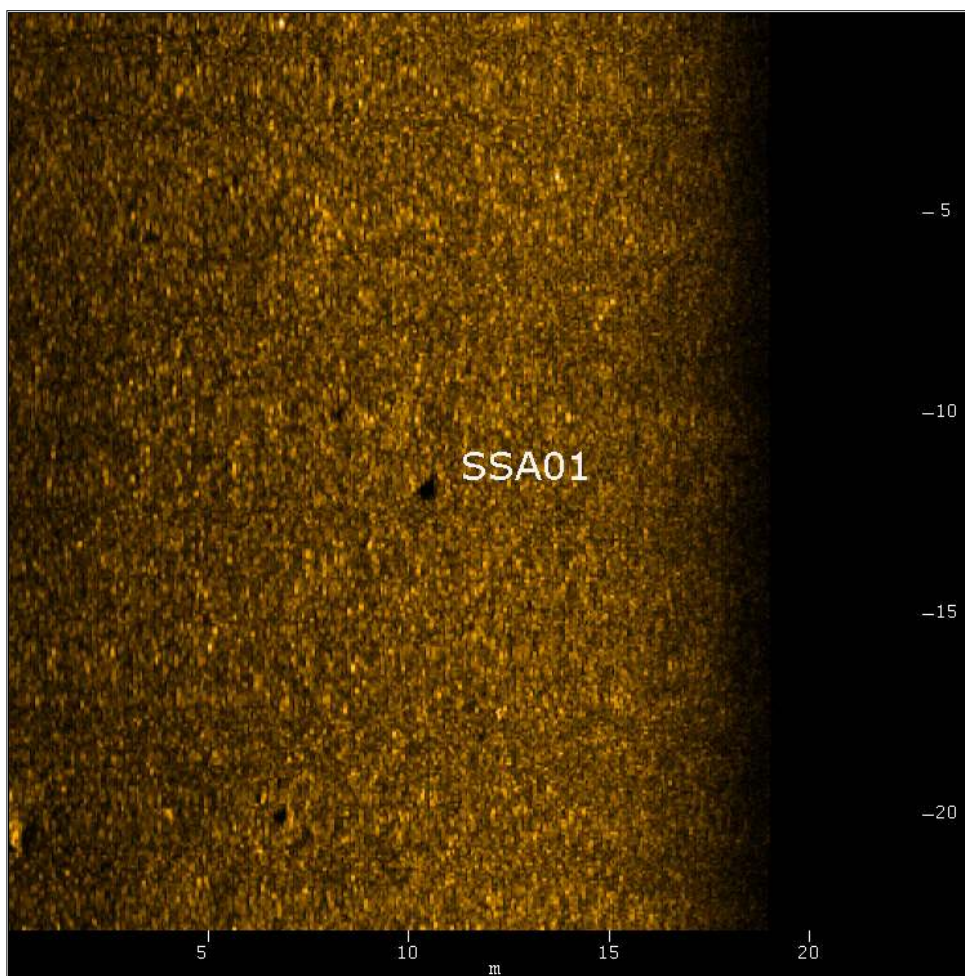
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG6
 Avoidance Area:
 Classification 1: Magnetic Anomaly 6
 Classification 2:
 Area:
 Block:
 Description: Magnetic Anomaly 6

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA01

**Contact Info: SSA01**

- Sonar Time at Target: 09/24/2011 15:53:04
- Click Position (Lat/Lon Coordinates)
50.6880111694 -0.3402290046 (WGS84)
- Click Position (Projected Coordinates)
(X) 687870.63 (Y) 5618506.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 545921
- Range to Target: -13.19 Meters
- Fish Height: 5.01 Meters
- Heading: 275.100 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

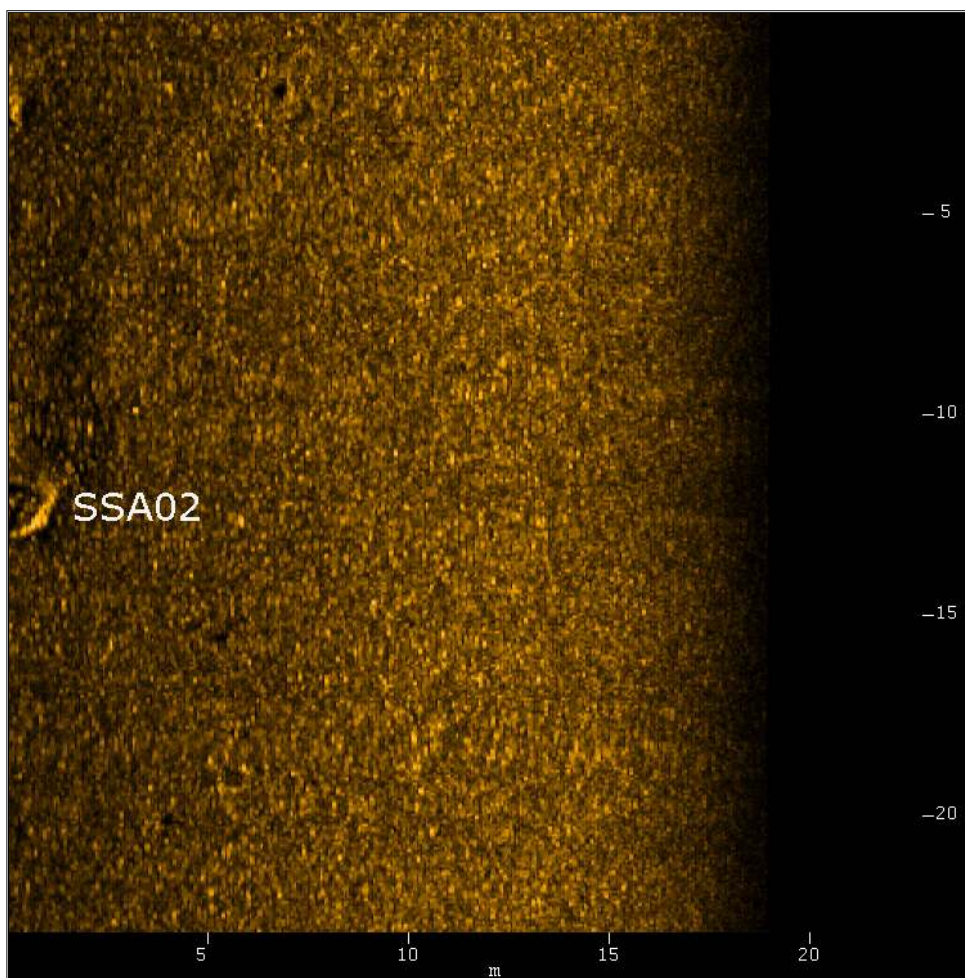
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA02

**Contact Info: SSA02**

- Sonar Time at Target: 09/24/2011 15:53:14
- Click Position (Lat/Lon Coordinates)
50.6878814697 -0.3404229879 (WGS84)
- Click Position (Projected Coordinates)
(X) 687857.50 (Y) 5618491.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 546207
- Range to Target: 22.88 Meters
- Fish Height: 5.09 Meters
- Heading: 274.700 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

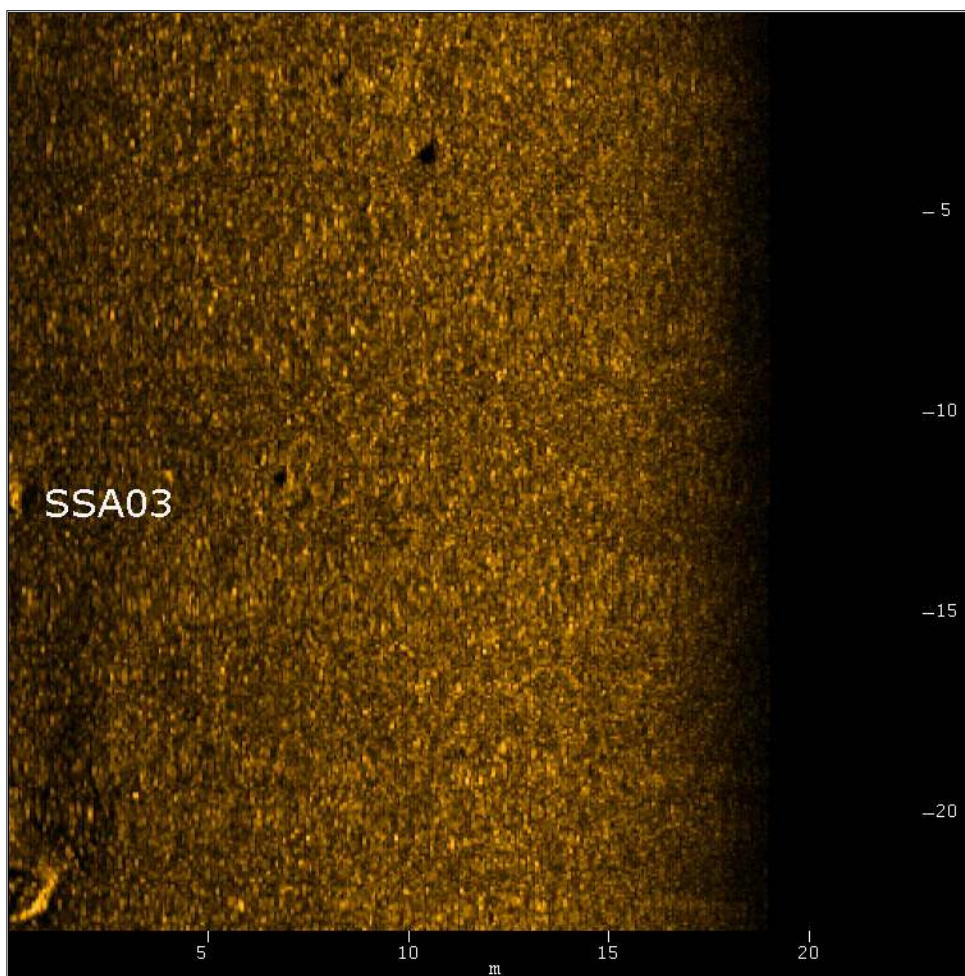
Target Height: = 0 Meters
Target Length: 2 Meters
Target Shadow: 1 Meters
Target Width: 0 Meters
Mag Anomaly:
Avoidance Area:
Classification 1: boulder
Classification 2:
Area:
Block:
Description: Large triangular shaped boulder

RAmpion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA03

**Contact Info: SSA03**

- Sonar Time at Target: 09/24/2011 15:53:08
- Click Position (Lat/Lon Coordinates)
50.6879005432 -0.3402920067 (WGS84)
- Click Position (Projected Coordinates)
(X) 687866.63 (Y) 5618494.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 546055
- Range to Target: 23.58 Meters
- Fish Height: 5.06 Meters
- Heading: 274.900 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

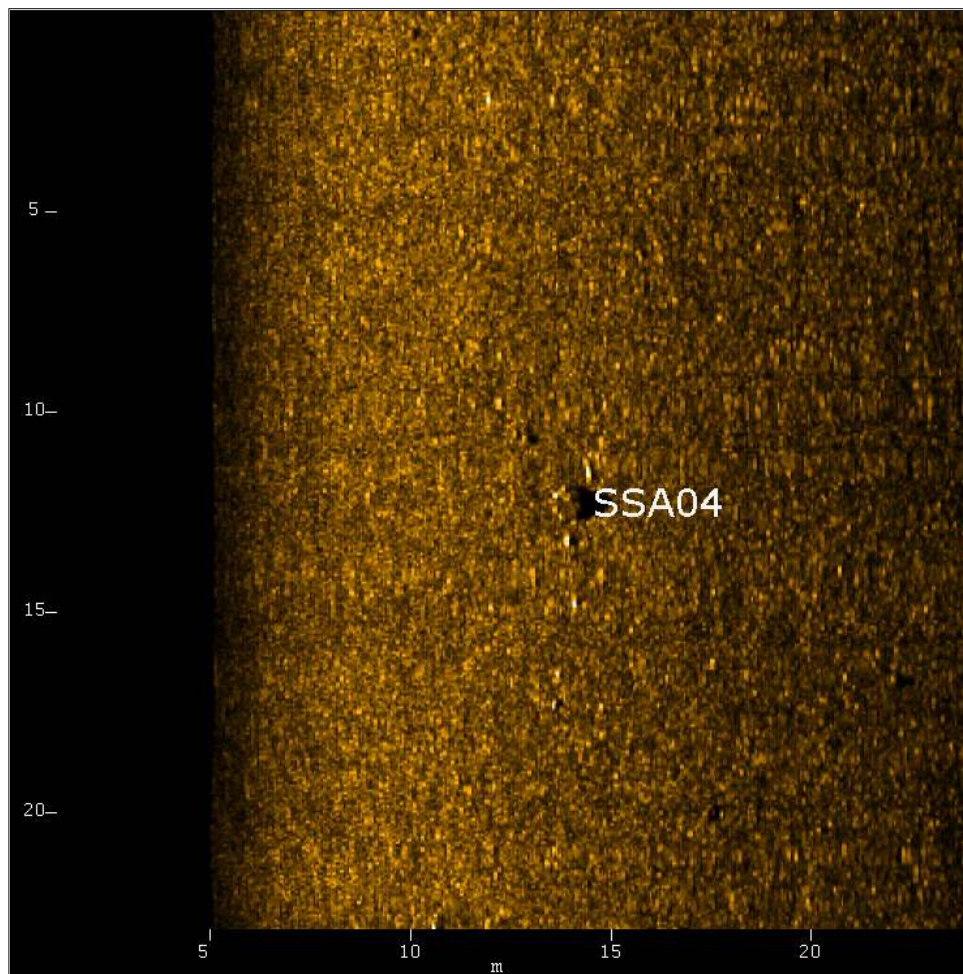
Target Height: = 0 Meters
Target Length: 1 Meters
Target Shadow: 0 Meters
Target Width: 0 Meters
Mag Anomaly:
Avoidance Area:
Classification 1: boulder
Classification 2:
Area:
Block:
Description: Small boulder located near larger SSA02

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA04

**Contact Info: SSA04**

- Sonar Time at Target: 09/24/2011 15:53:23
- Click Position (Lat/Lon Coordinates)
50.6881446838 -0.3407889903 (WGS84)
- Click Position (Projected Coordinates)
(X) 687830.56 (Y) 5618520.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 546466
- Range to Target: 14.02 Meters
- Fish Height: 5.14 Meters
- Heading: 276.700 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

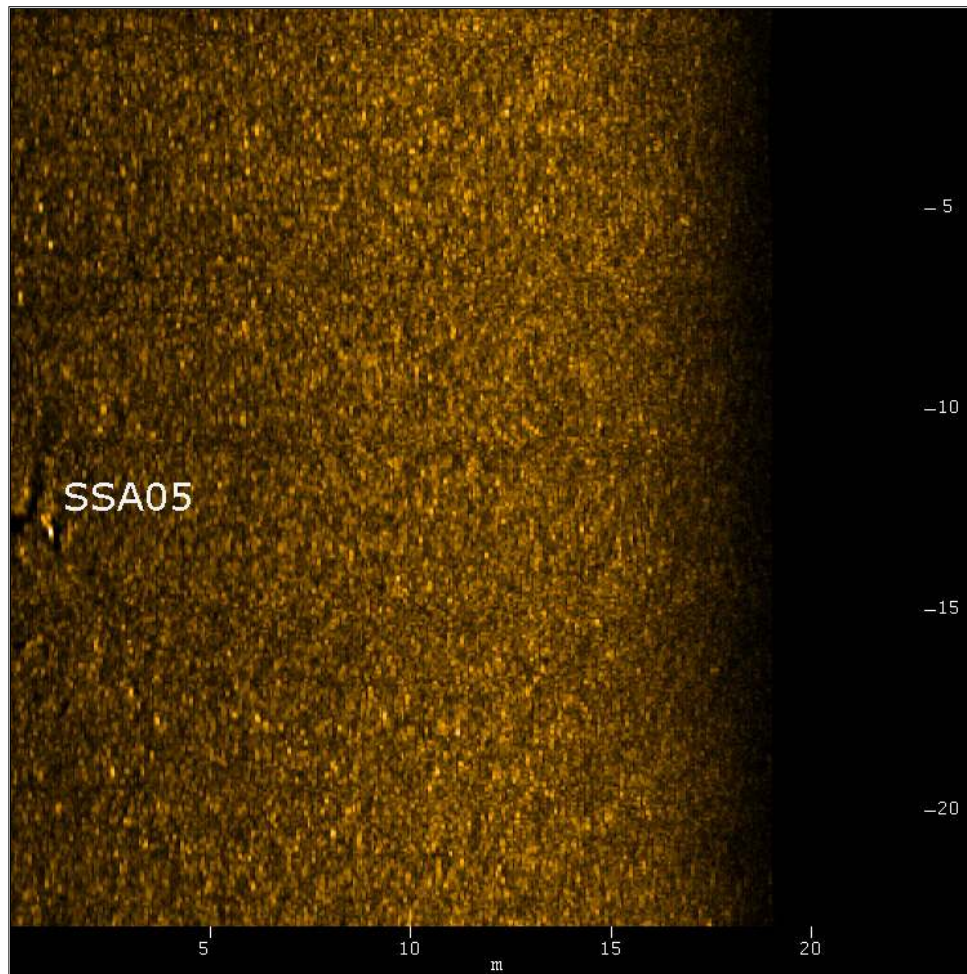
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with a number of smaller stones surrounding

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA05

**Contact Info: SSA05**

- Sonar Time at Target: 09/24/2011 15:53:54
- Click Position (Lat/Lon Coordinates)
50.6876945496 -0.3414590061 (WGS84)
- Click Position (Projected Coordinates)
(X) 687785.00 (Y) 5618468.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 547377
- Range to Target: 23.16 Meters
- Fish Height: 5.06 Meters
- Heading: 276.000 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

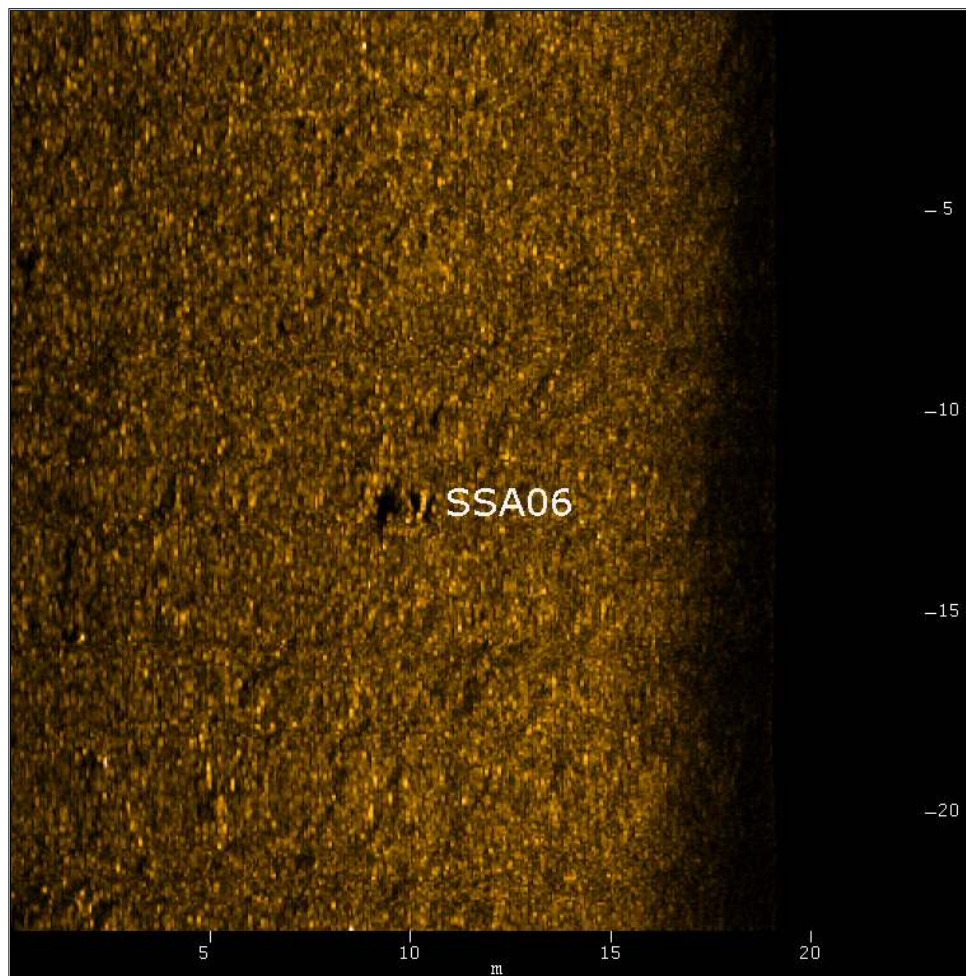
Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Possible Boulder
 Classification 2:
 Area:
 Block:
 Description: Partially buried feature, probably a boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA06

**Contact Info: SSA06**

- Sonar Time at Target: 09/24/2011 15:54:47
- Click Position (Lat/Lon Coordinates)
50.6875228882 -0.3428040147 (WGS84)
- Click Position (Projected Coordinates)
(X) 687690.75 (Y) 5618445.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 548921
- Range to Target: 13.59 Meters
- Fish Height: 4.94 Meters
- Heading: 275.900 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

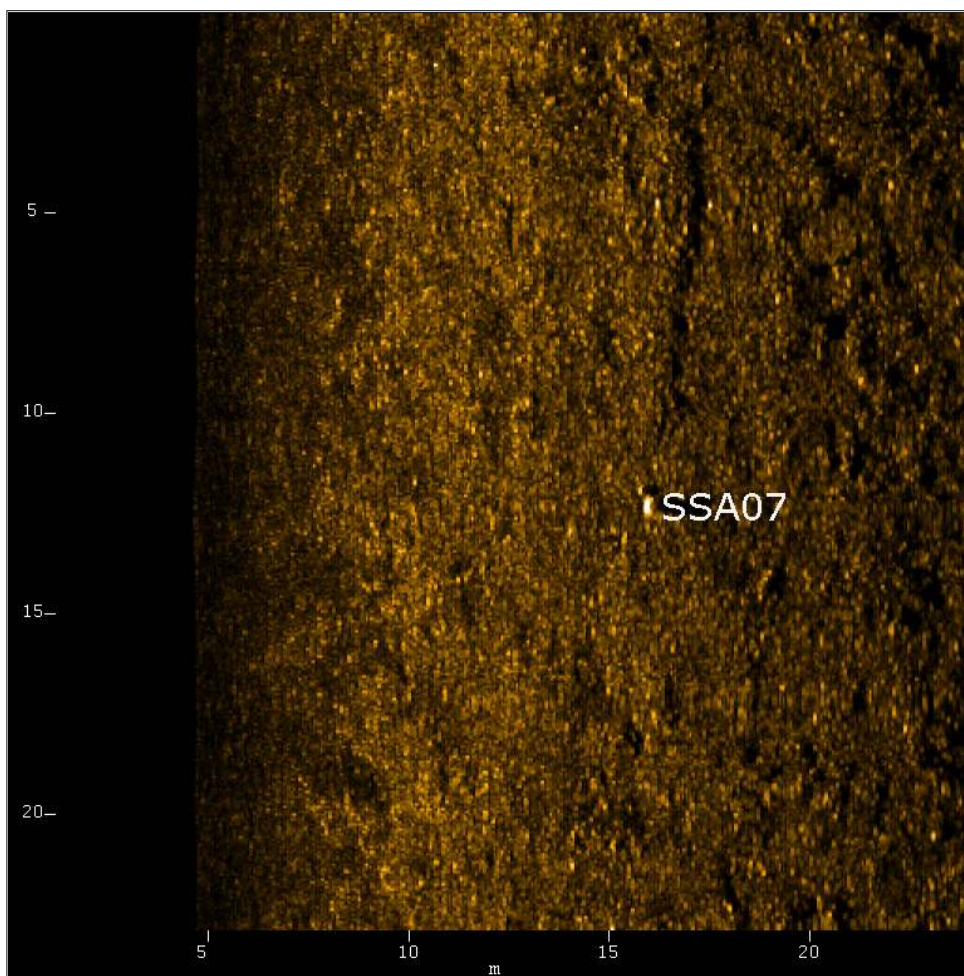
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: boulders
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA07

**Contact Info: SSA07**

- Sonar Time at Target: 09/24/2011 15:55:21
- Click Position (Lat/Lon Coordinates)
50.6875762939 -0.3437539935 (WGS84)
- Click Position (Projected Coordinates)
(X) 687623.44 (Y) 5618449.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 549922
- Range to Target: 15.80 Meters
- Fish Height: 4.74 Meters
- Heading: 275.900 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

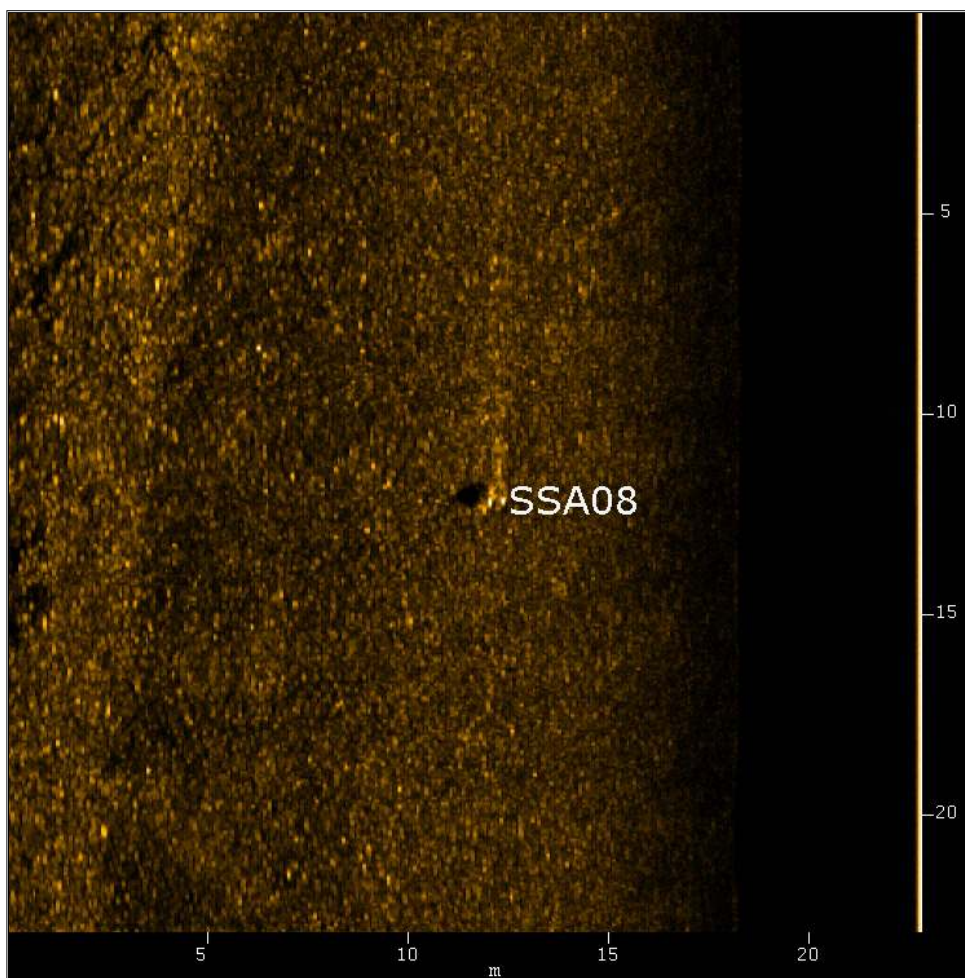
Target Height: = 0 Meters
Target Length: 0 Meters
Target Shadow: 0 Meters
Target Width: 0 Meters
Mag Anomaly: MAG4
Avoidance Area:
Classification 1: Indistinguishable
Classification 2:
Area:
Block:
Description: Small indistinguishable feature, possible boulder,
possible fishing pot, possible barrel, has a recorded magnetic
signature

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA08

**Contact Info: SSA08**

- Sonar Time at Target: 09/24/2011 15:55:34
- Click Position (Lat/Lon Coordinates)
50.6873016357 -0.3439779878 (WGS84)
- Click Position (Projected Coordinates)
(X) 687608.69 (Y) 5618418.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 550290
- Range to Target: 10.92 Meters
- Fish Height: 4.72 Meters
- Heading: 274.300 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

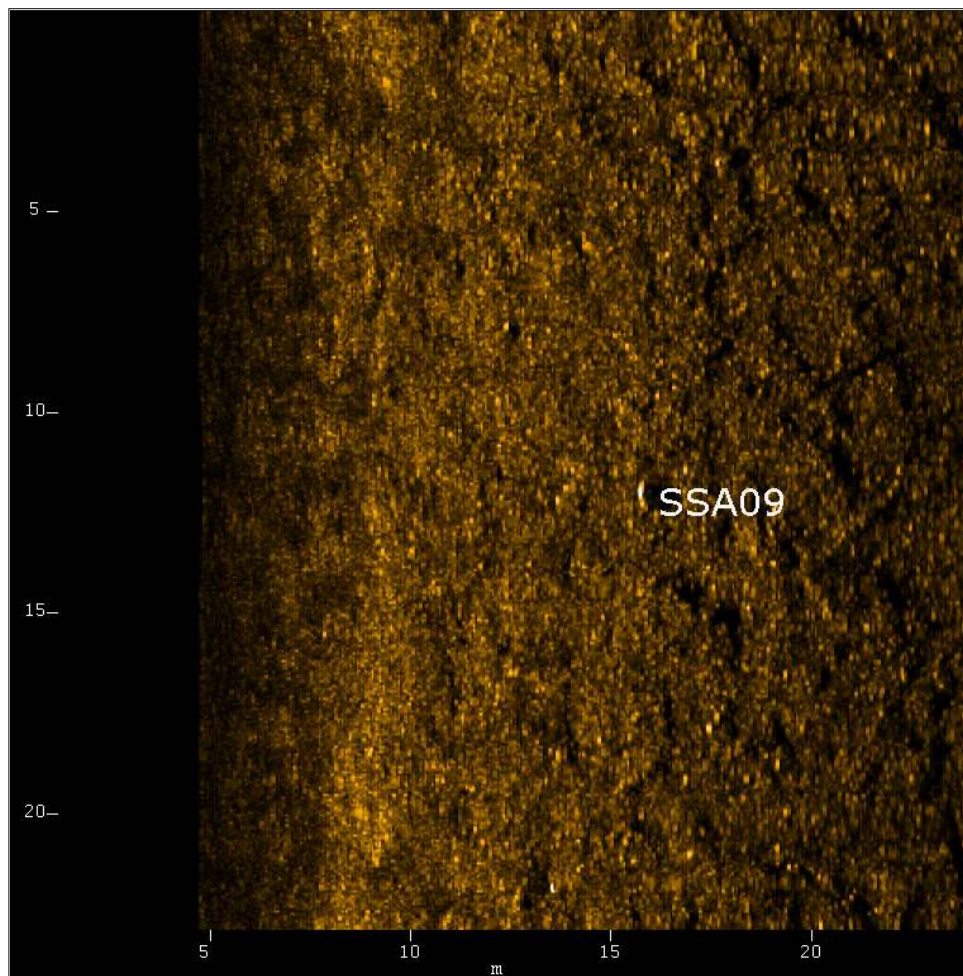
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG5
 Avoidance Area:
 Classification 1: Probable Man Made Debris
 Classification 2:
 Area:
 Block:
 Description: Probable Man Made debris associated with
 Magnetic Anomaly 5

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA09

**Contact Info: SSA09**

- Sonar Time at Target: 09/24/2011 15:55:48
- Click Position (Lat/Lon Coordinates)
50.6874504089 -0.3444299996 (WGS84)
- Click Position (Projected Coordinates)
(X) 687576.19 (Y) 5618433.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 550704
- Range to Target: 15.66 Meters
- Fish Height: 4.85 Meters
- Heading: 274.400 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

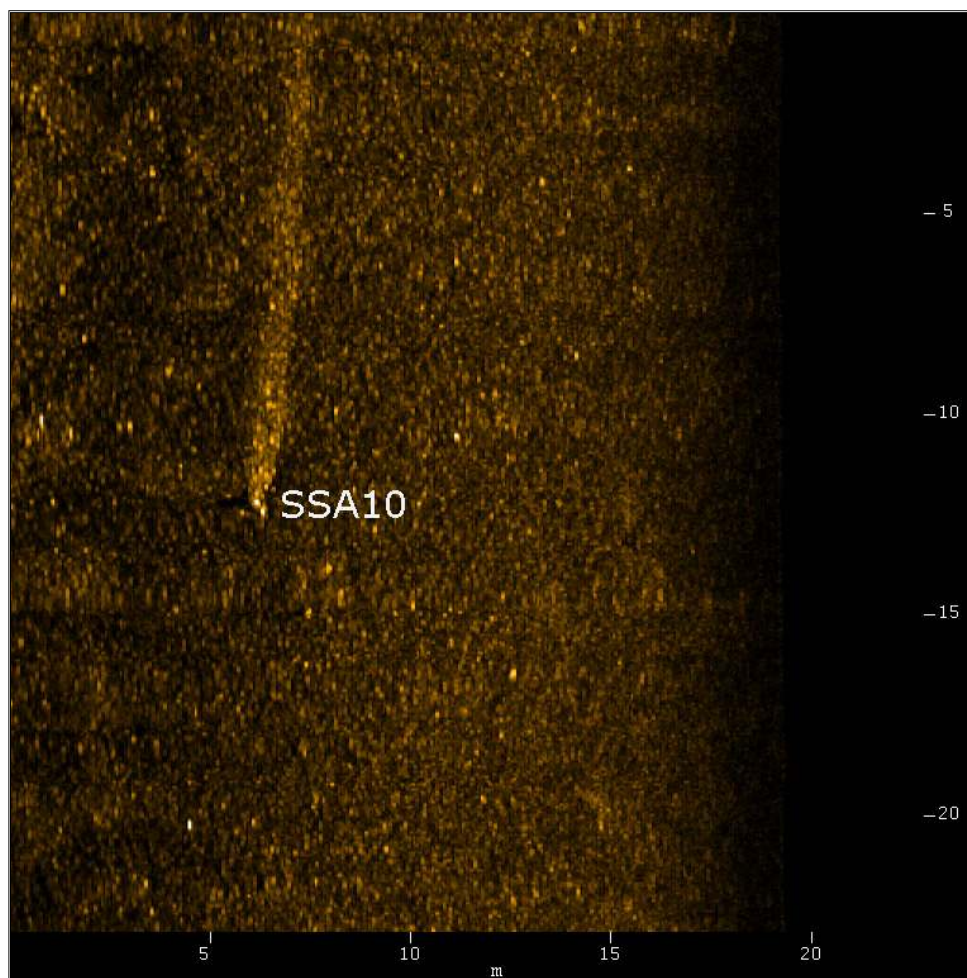
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA10

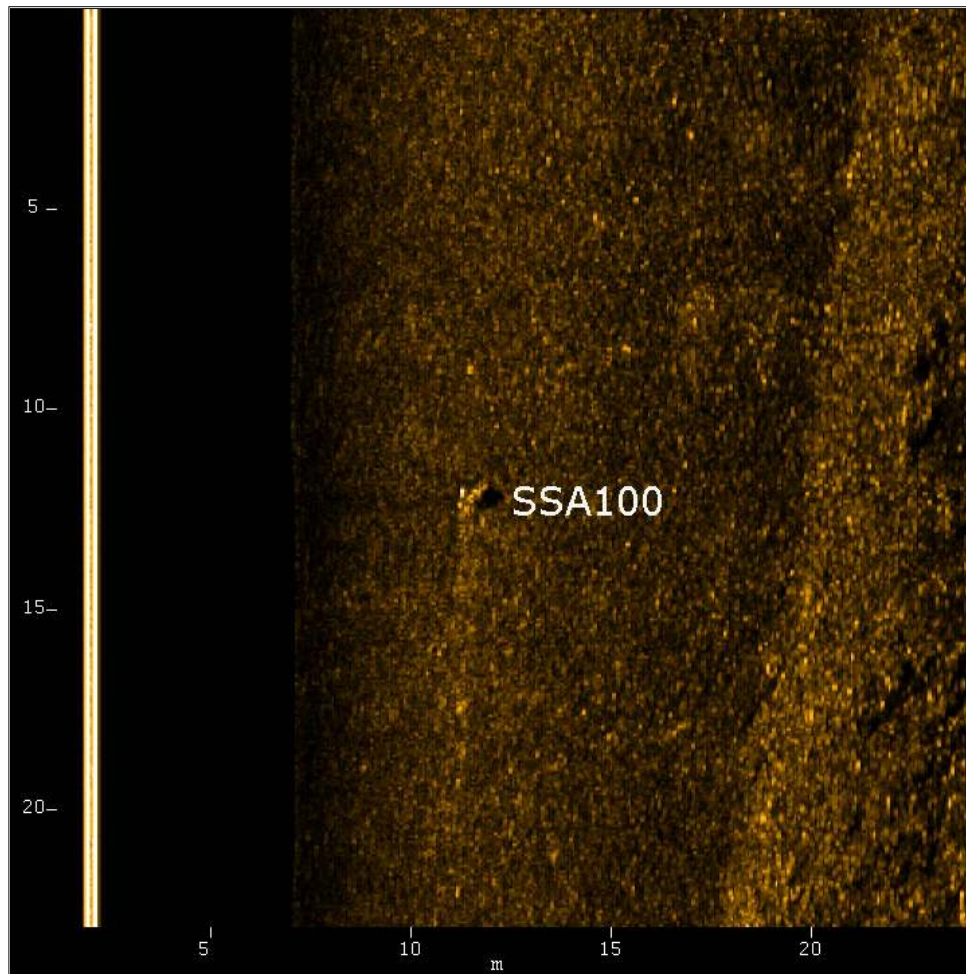
**Contact Info: SSA10**

- Sonar Time at Target: 09/24/2011 15:55:52
- Click Position (Lat/Lon Coordinates)
50.6871566772 -0.3444109857 (WGS84)
- Click Position (Projected Coordinates)
(X) 687578.75 (Y) 5618401.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 550811
- Range to Target: 17.72 Meters
- Fish Height: 4.79 Meters
- Heading: 274.200 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with visible scour trail

SSA100

**Contact Info: SSA100**

- Sonar Time at Target: 09/24/2011 12:51:31
- Click Position (Lat/Lon Coordinates)
50.6876182556 -0.3424099982 (WGS84)
- Click Position (Projected Coordinates)
(X) 687718.19 (Y) 5618457.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924125000.xtf
- Ping Number: 228644
- Range to Target: 9.94 Meters
- Fish Height: 5.09 Meters
- Heading: 61.100 degrees
- Event Number: 0
- Line Name: C11030_110924125000

User Entered Info

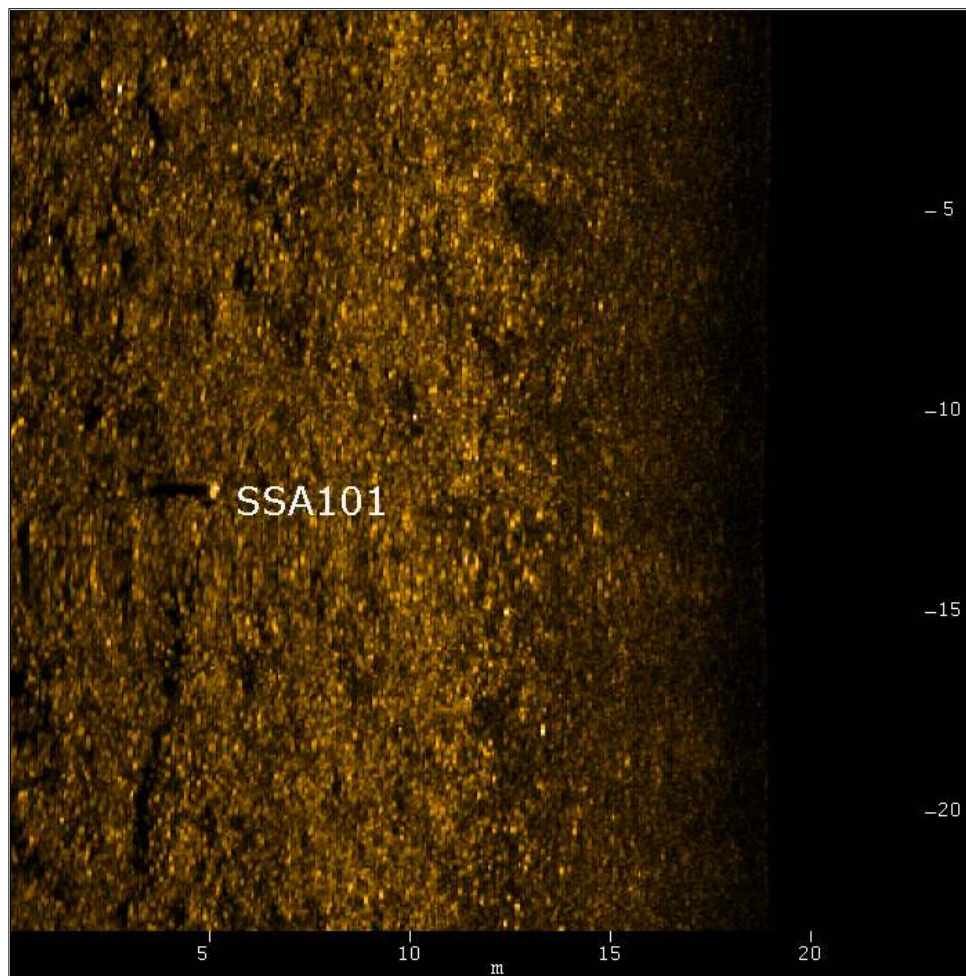
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA101

**Contact Info: SSA101**

- Sonar Time at Target: 09/24/2011 12:51:42
- Click Position (Lat/Lon Coordinates)
50.6879081726 -0.3421869874 (WGS84)
- Click Position (Projected Coordinates)
(X) 687732.75 (Y) 5618490.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924125000.xtf
- Ping Number: 228992
- Range to Target: 18.89 Meters
- Fish Height: 5.25 Meters
- Heading: 64.300 degrees
- Event Number: 0
- Line Name: C11030_110924125000

User Entered Info

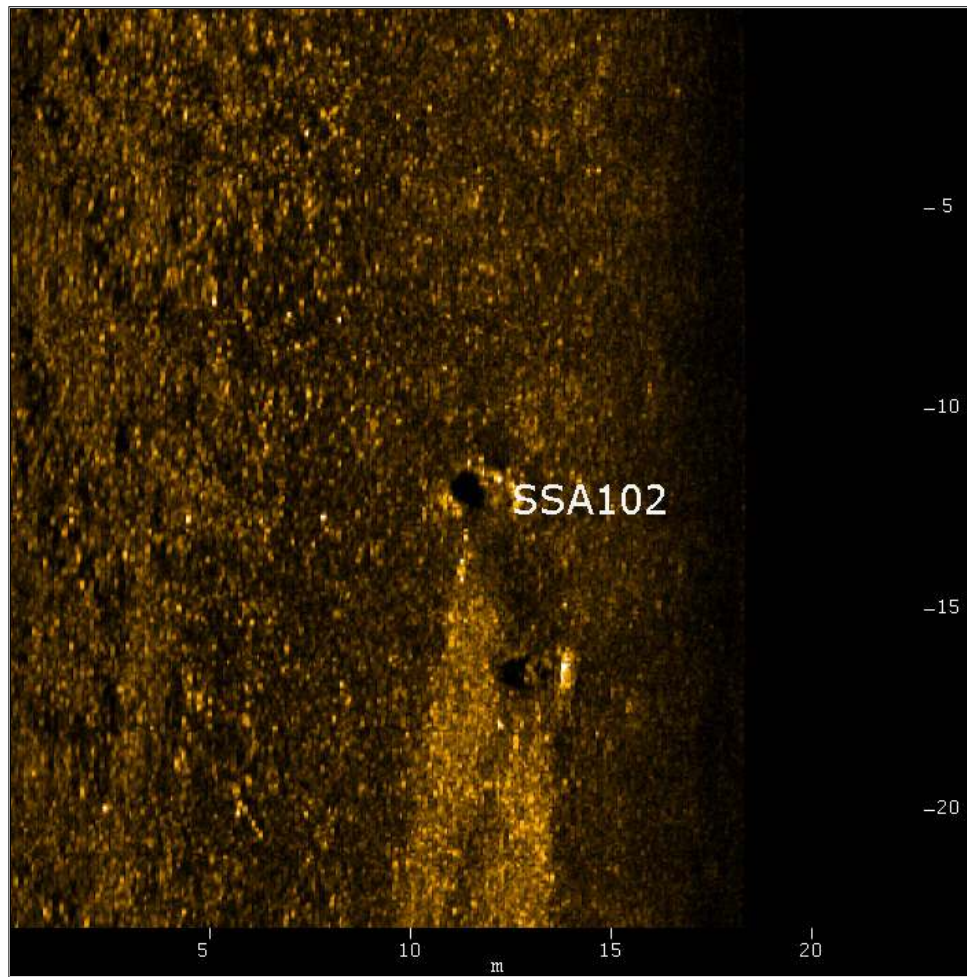
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 2 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG3
 Avoidance Area:
 Classification 1: Possible Man Made Debris
 Classification 2:
 Area:
 Block:
 Description: Possible man made debris associated with
 magnetic anomaly 3

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA102

**Contact Info: SSA102**

- Sonar Time at Target: 09/24/2011 12:52:09
- Click Position (Lat/Lon Coordinates)
50.6879692078 -0.3414480090 (WGS84)
- Click Position (Projected Coordinates)
(X) 687784.75 (Y) 5618499.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924125000.xtf
- Ping Number: 229761
- Range to Target: 11.39 Meters
- Fish Height: 5.07 Meters
- Heading: 61.100 degrees
- Event Number: 0
- Line Name: C11030_110924125000

User Entered Info

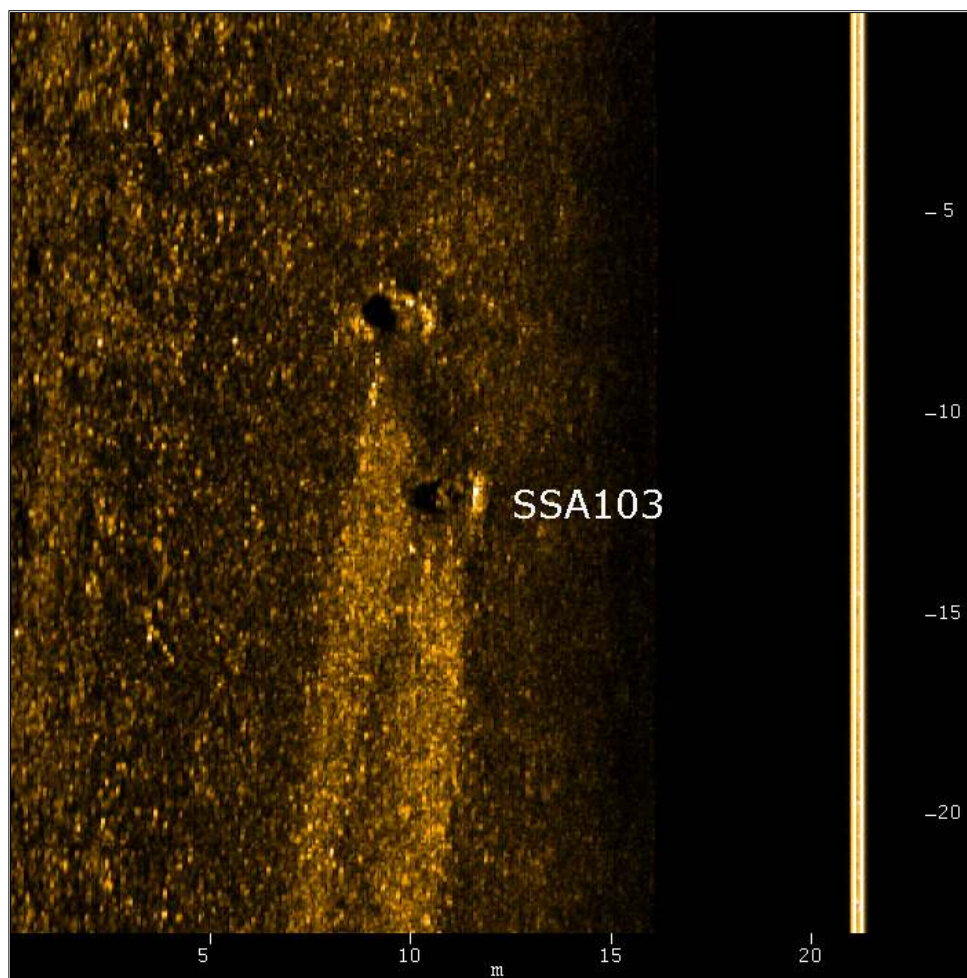
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 1 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA103

**Contact Info: SSA103**

- Sonar Time at Target: 09/24/2011 12:52:11
- Click Position (Lat/Lon Coordinates)
50.6879615784 -0.3413760066 (WGS84)
- Click Position (Projected Coordinates)
(X) 687789.81 (Y) 5618498.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924125000.xtf
- Ping Number: 229827
- Range to Target: 9.19 Meters
- Fish Height: 5.10 Meters
- Heading: 60.700 degrees
- Event Number: 0
- Line Name: C11030_110924125000

User Entered Info

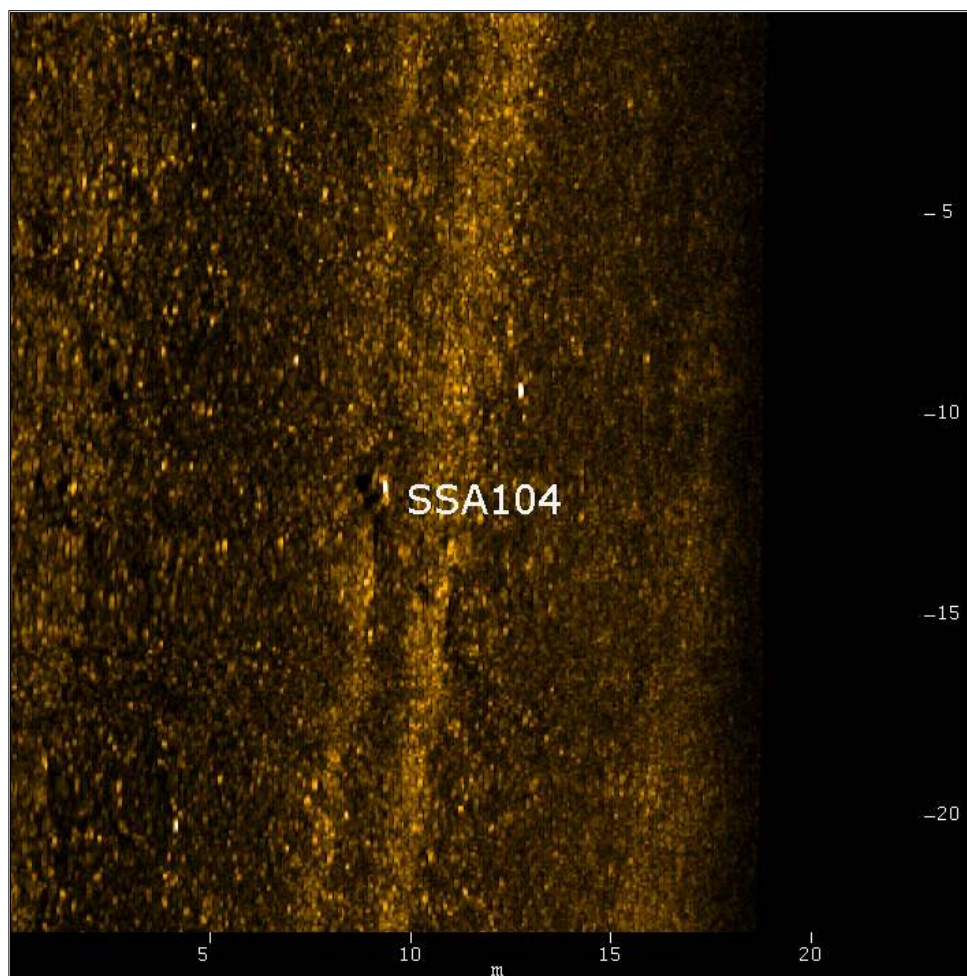
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder adjacent to SSA102

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA104

**Contact Info: SSA104**

- Sonar Time at Target: 09/24/2011 12:52:23
- Click Position (Lat/Lon Coordinates)
50.6880722046 -0.3410870135 (WGS84)
- Click Position (Projected Coordinates)
(X) 687809.81 (Y) 5618511.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924125000.xtf
- Ping Number: 230164
- Range to Target: 14.63 Meters
- Fish Height: 5.28 Meters
- Heading: 60.400 degrees
- Event Number: 0
- Line Name: C11030_110924125000

User Entered Info

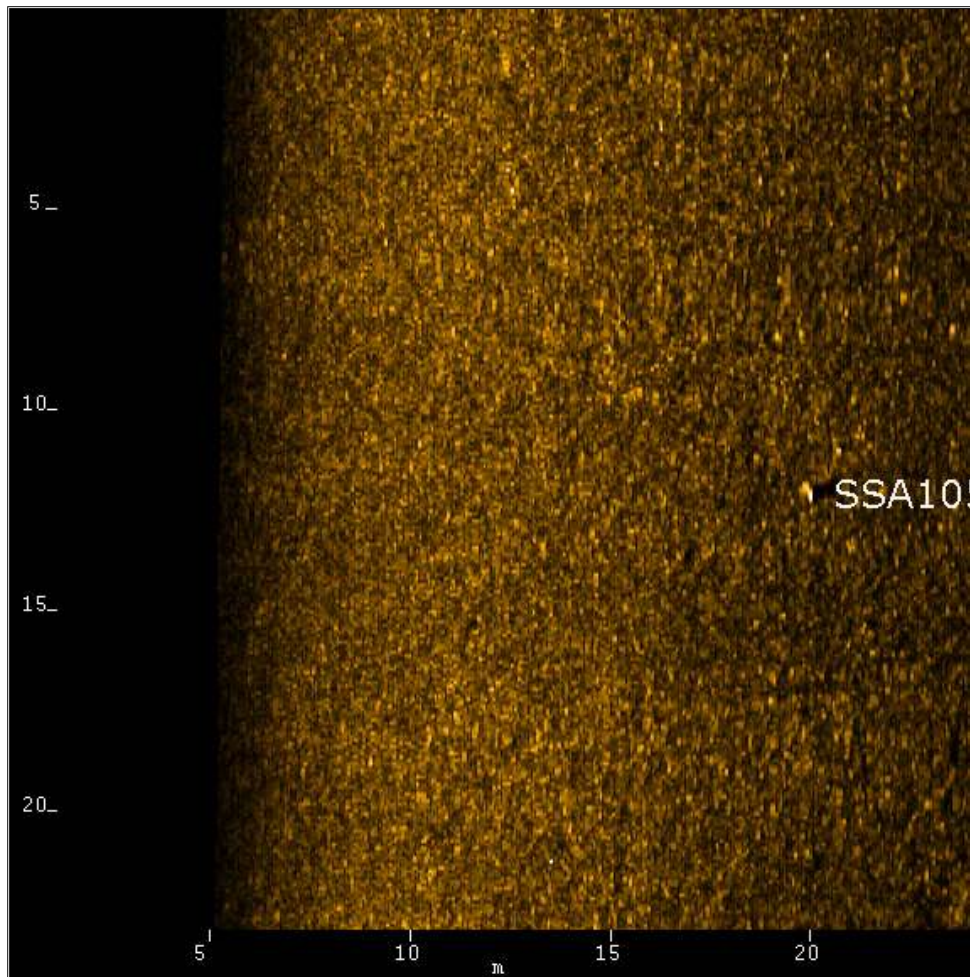
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder in scour field of SSA102 SSA103

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA105

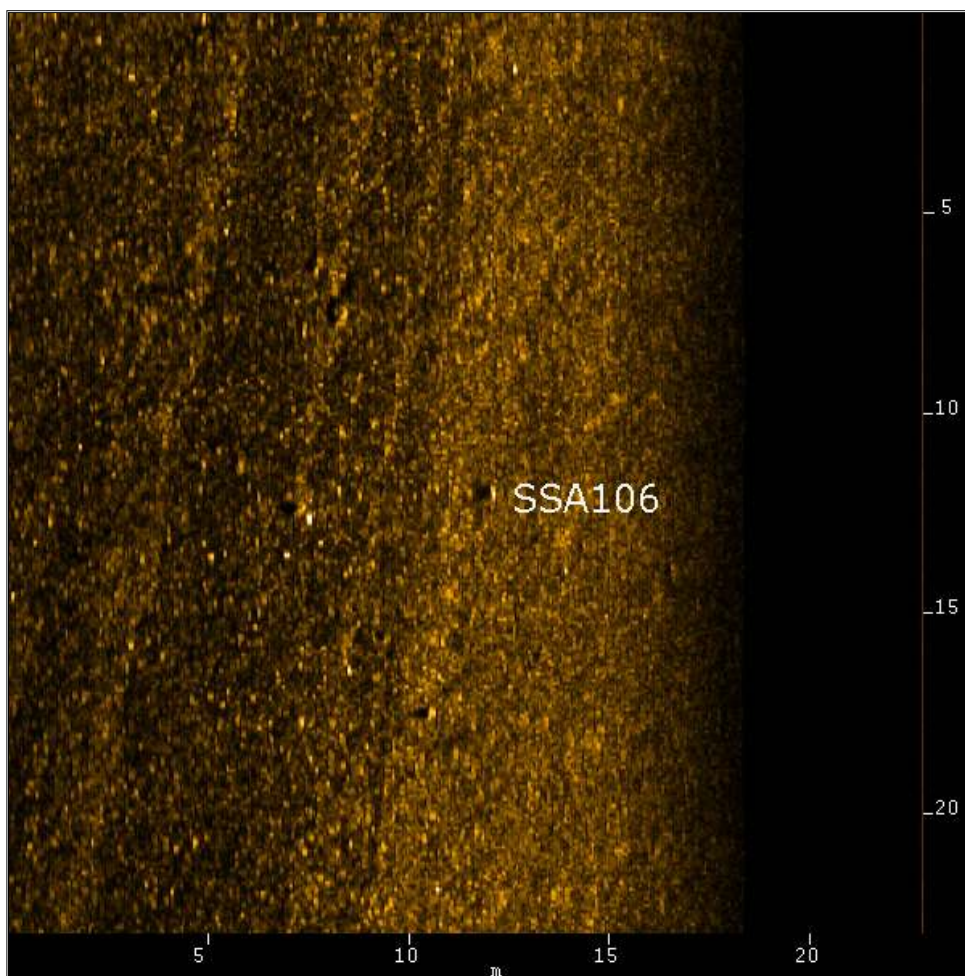
**Contact Info: SSA105**

- Sonar Time at Target: 09/24/2011 16:04:04
- Click Position (Lat/Lon Coordinates)
50.6887321472 -0.3413870037 (WGS84)
- Click Position (Projected Coordinates)
(X) 687786.00 (Y) 5618583.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924160200.xtf
- Ping Number: 565138
- Range to Target: 19.92 Meters
- Fish Height: 5.31 Meters
- Heading: 62.400 degrees
- Event Number: 0
- Line Name: C11030_110924160200

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA106

**Contact Info: SSA106**

- Sonar Time at Target: 09/24/2011 11:25:49
- Click Position (Lat/Lon Coordinates)
50.6883049011 -0.3410600126 (WGS84)
- Click Position (Projected Coordinates)
(X) 687810.75 (Y) 5618537.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924112500.xtf
- Ping Number: 78882
- Range to Target: 11.06 Meters
- Fish Height: 4.78 Meters
- Heading: 276.700 degrees
- Event Number: 0
- Line Name: C11030_110924112500

User Entered Info

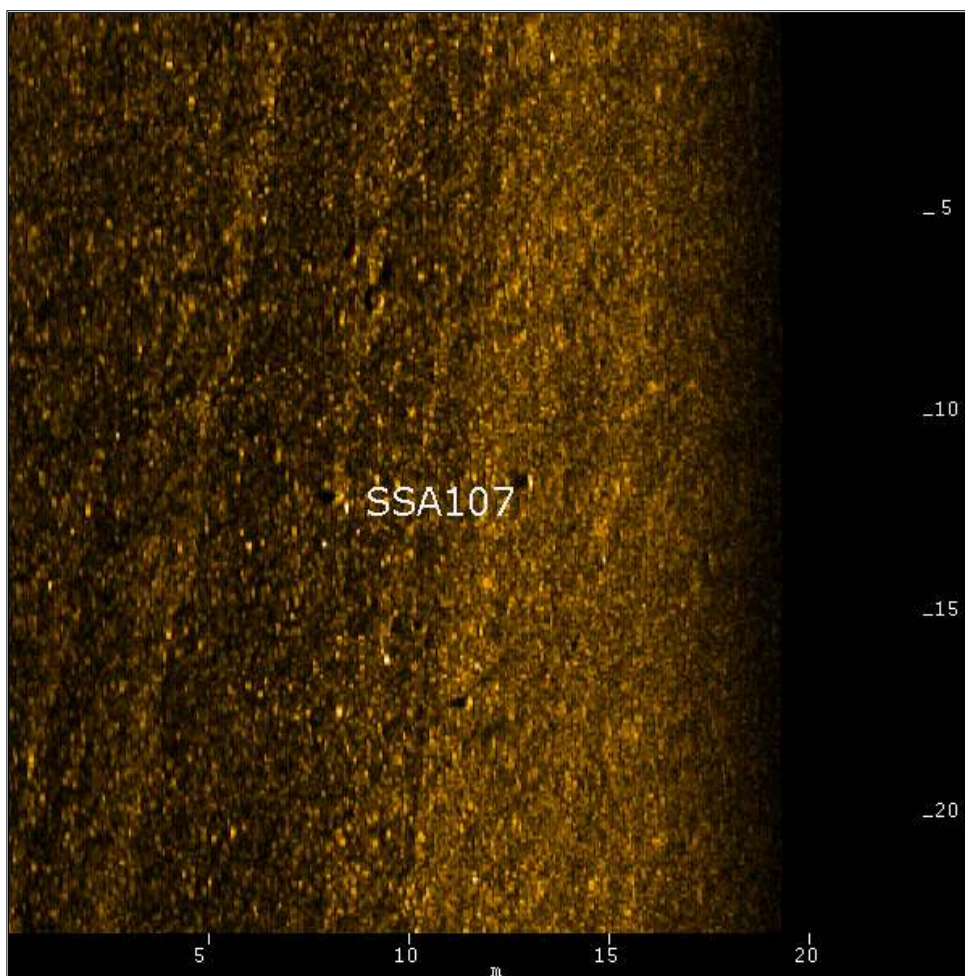
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Small Boulder
 Classification 2:
 Area:
 Block:
 Description: Small boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA107

**Contact Info: SSA107**

- Sonar Time at Target: 09/24/2011 11:25:49
- Click Position (Lat/Lon Coordinates)
50.6882591248 -0.3410469890 (WGS84)
- Click Position (Projected Coordinates)
(X) 687811.88 (Y) 5618532.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924112500.xtf
- Ping Number: 78886
- Range to Target: 15.66 Meters
- Fish Height: 4.78 Meters
- Heading: 275.400 degrees
- Event Number: 0
- Line Name: C11030_110924112500

User Entered Info

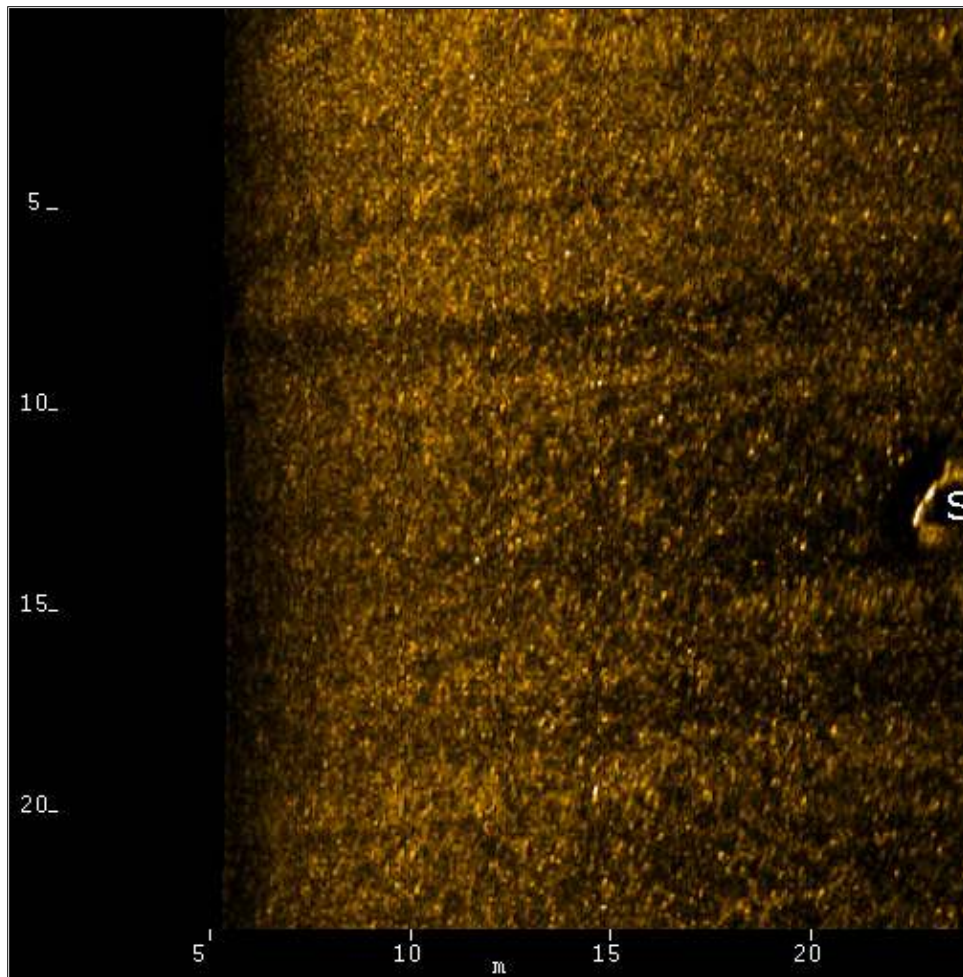
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Small Boulder
 Classification 2:
 Area:
 Block:
 Description: Small Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA108

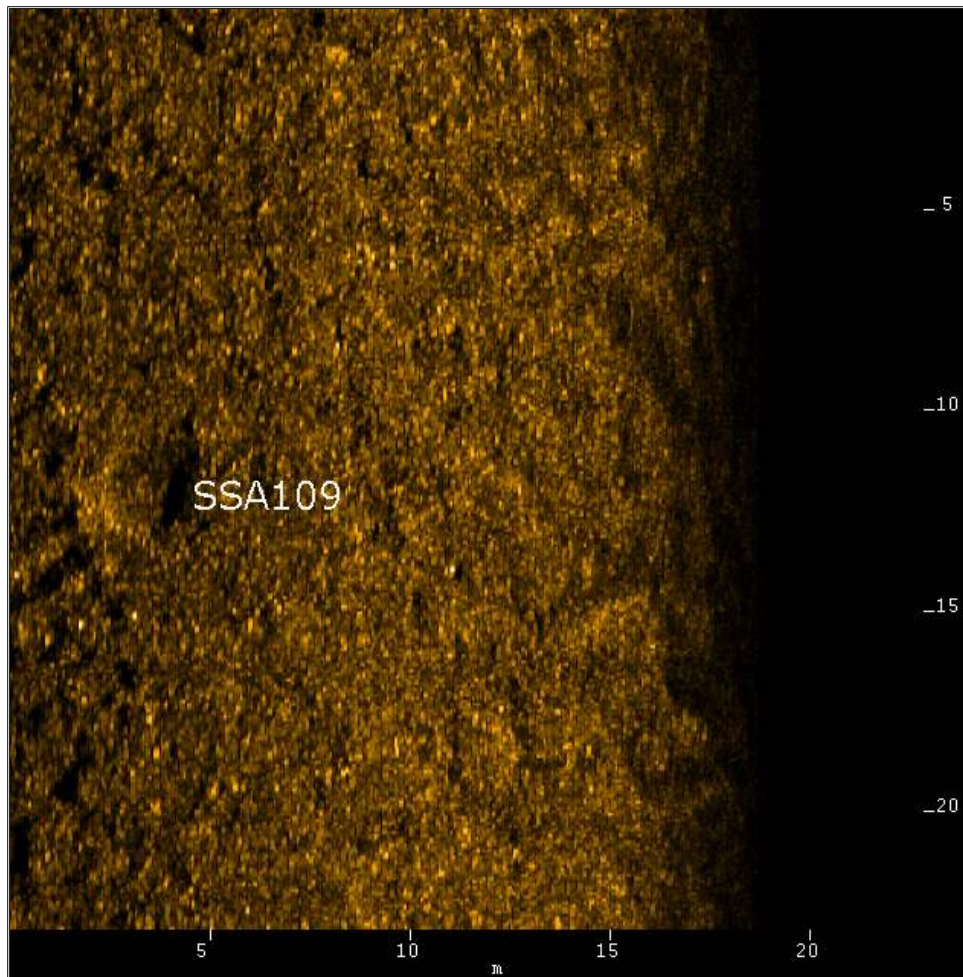
**Contact Info: SSA108**

- Sonar Time at Target: 09/24/2011 17:37:46
- Click Position (Lat/Lon Coordinates)
50.6872596741 -0.3429690003 (WGS84)
- Click Position (Projected Coordinates)
(X) 687680.13 (Y) 5618416.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924173700.xtf
- Ping Number: 728890
- Range to Target: 22.78 Meters
- Fish Height: 5.40 Meters
- Heading: 331.600 degrees
- Event Number: 0
- Line Name: C11030_110924173700

User Entered Info

Target Height: = 0 Meters
 Target Length: 3 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Indistinguishable
 Classification 2:
 Area:
 Block:
 Description: Indistinguishable feature on edge of sonar record

SSA109

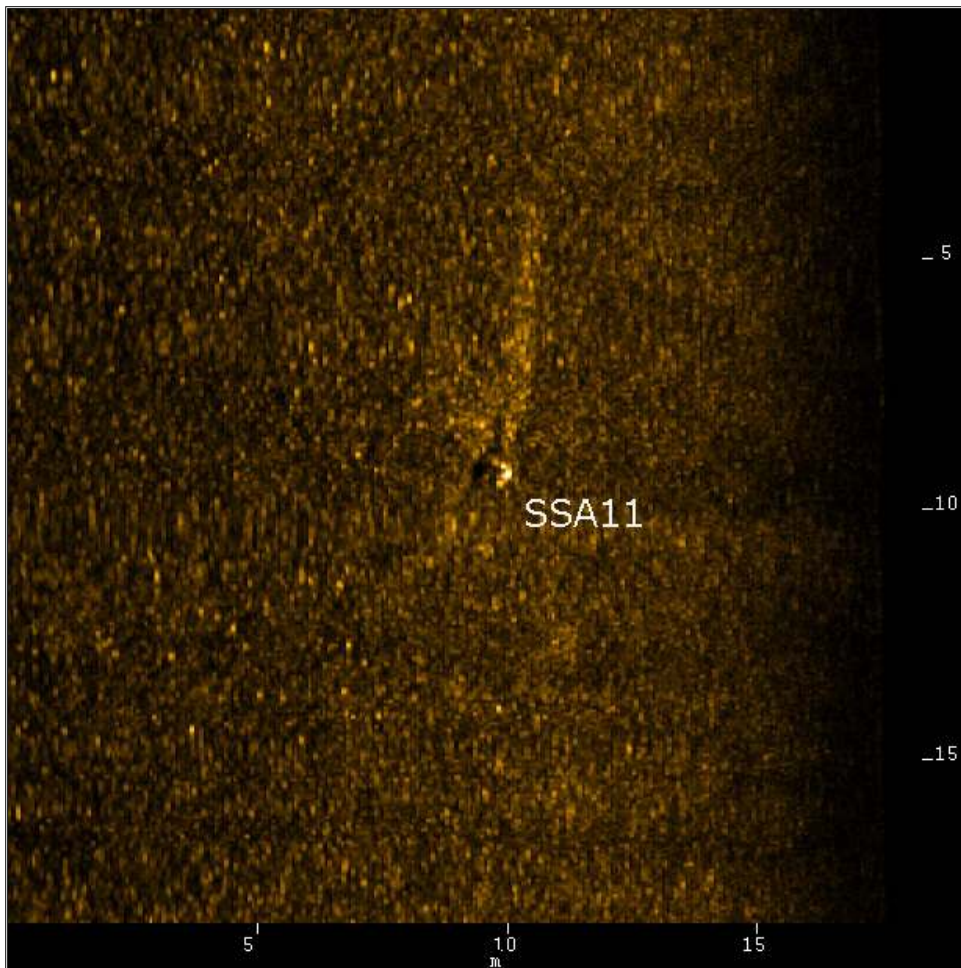
**Contact Info: SSA109**

- Sonar Time at Target: 09/24/2011 13:43:37
- Click Position (Lat/Lon Coordinates)
50.6881332397 -0.3425120115 (WGS84)
- Click Position (Projected Coordinates)
(X) 687708.94 (Y) 5618514.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924134200.xtf
- Ping Number: 319691
- Range to Target: 20.02 Meters
- Fish Height: 5.44 Meters
- Heading: 61.200 degrees
- Event Number: 0
- Line Name: C11030_110924134200

User Entered Info

Target Height: = 0 Meters
 Target Length: 3 Meters
 Target Shadow: 0 Meters
 Target Width: 2 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Hollow
 Classification 2:
 Area:
 Block:
 Description: Seafloor depression

SSA11

**Contact Info: SSA11**

- Sonar Time at Target: 09/24/2011 15:56:06
- Click Position (Lat/Lon Coordinates)
50.6871490479 -0.3447830081 (WGS84)
- Click Position (Projected Coordinates)
(X) 687552.44 (Y) 5618399.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 551227
- Range to Target: 12.19 Meters
- Fish Height: 4.60 Meters
- Heading: 274.200 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

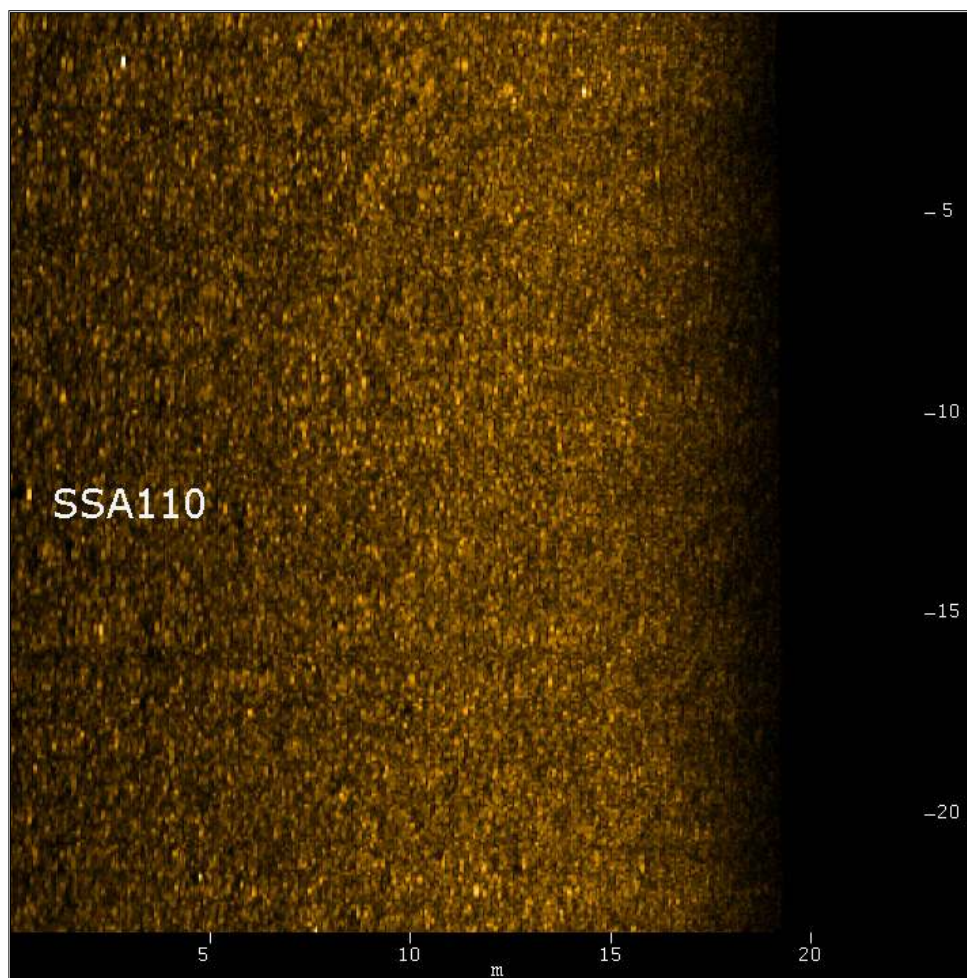
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable boulder with scour trail

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA110

**Contact Info: SSA110**

- Sonar Time at Target: 09/24/2011 18:17:10
- Click Position (Lat/Lon Coordinates)
50.6886634827 -0.3430739939 (WGS84)
- Click Position (Projected Coordinates)
(X) 687667.13 (Y) 5618571.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924181600.xtf
- Ping Number: 797740
- Range to Target: 23.44 Meters
- Fish Height: 4.82 Meters
- Heading: 269.100 degrees
- Event Number: 0
- Line Name: C11030_110924181600

User Entered Info

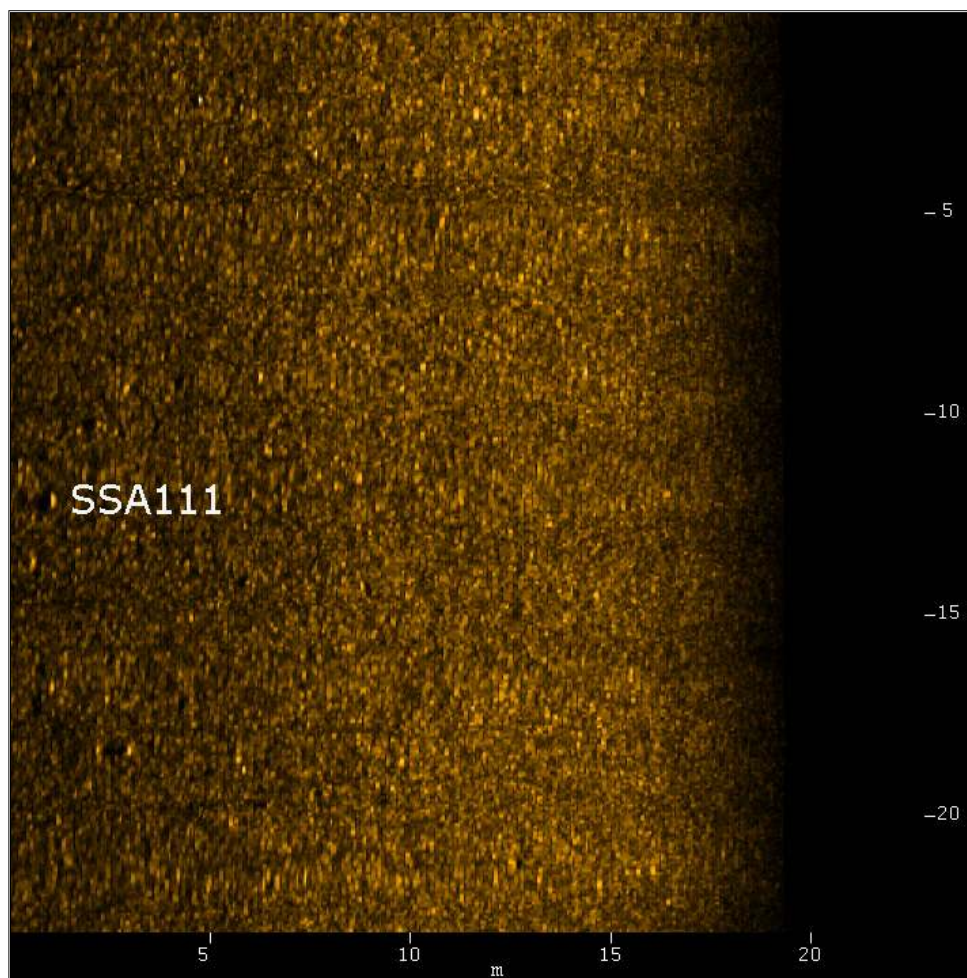
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Small Boulder
 Classification 2:
 Area:
 Block:
 Description: Small Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA111

**Contact Info: SSA111**

- Sonar Time at Target: 09/24/2011 18:17:19
- Click Position (Lat/Lon Coordinates)
50.6886215210 -0.3432860076 (WGS84)
- Click Position (Projected Coordinates)
(X) 687652.31 (Y) 5618566.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924181600.xtf
- Ping Number: 798025
- Range to Target: 23.02 Meters
- Fish Height: 4.81 Meters
- Heading: 276.700 degrees
- Event Number: 0
- Line Name: C11030_110924181600

User Entered Info

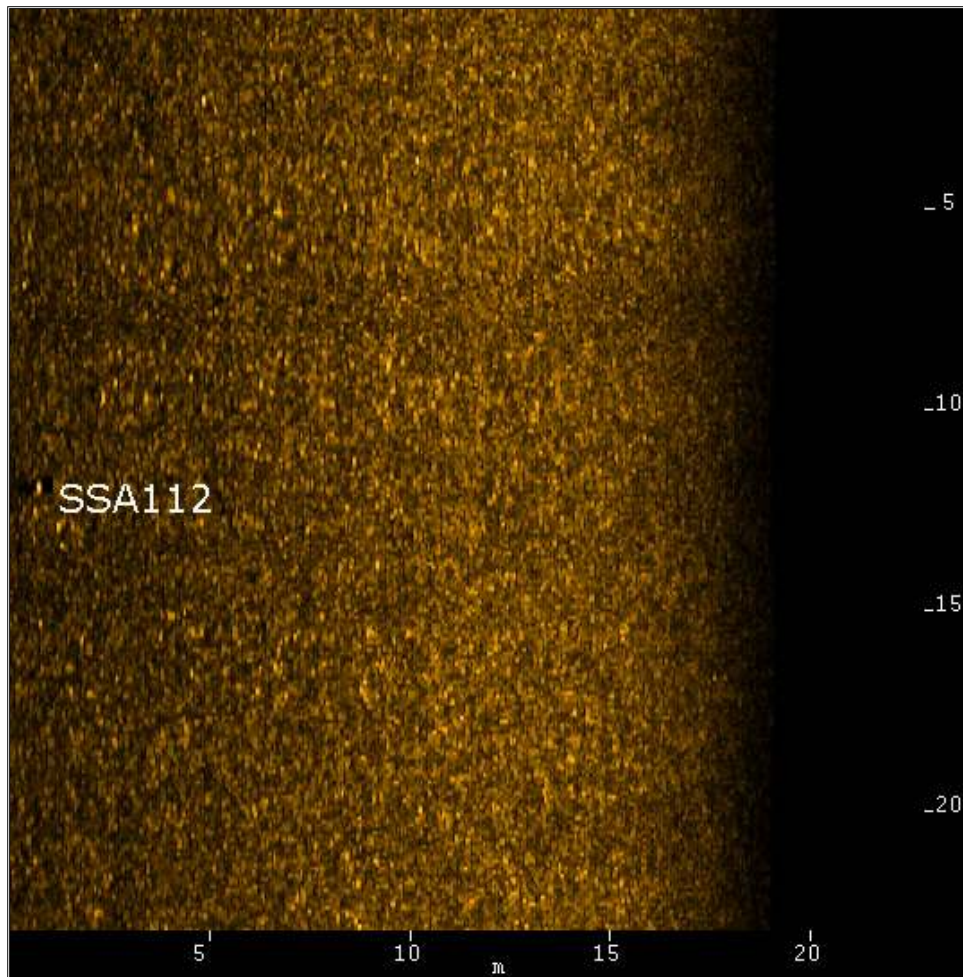
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Small Boulder
 Classification 2:
 Area:
 Block:
 Description: Small Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA112

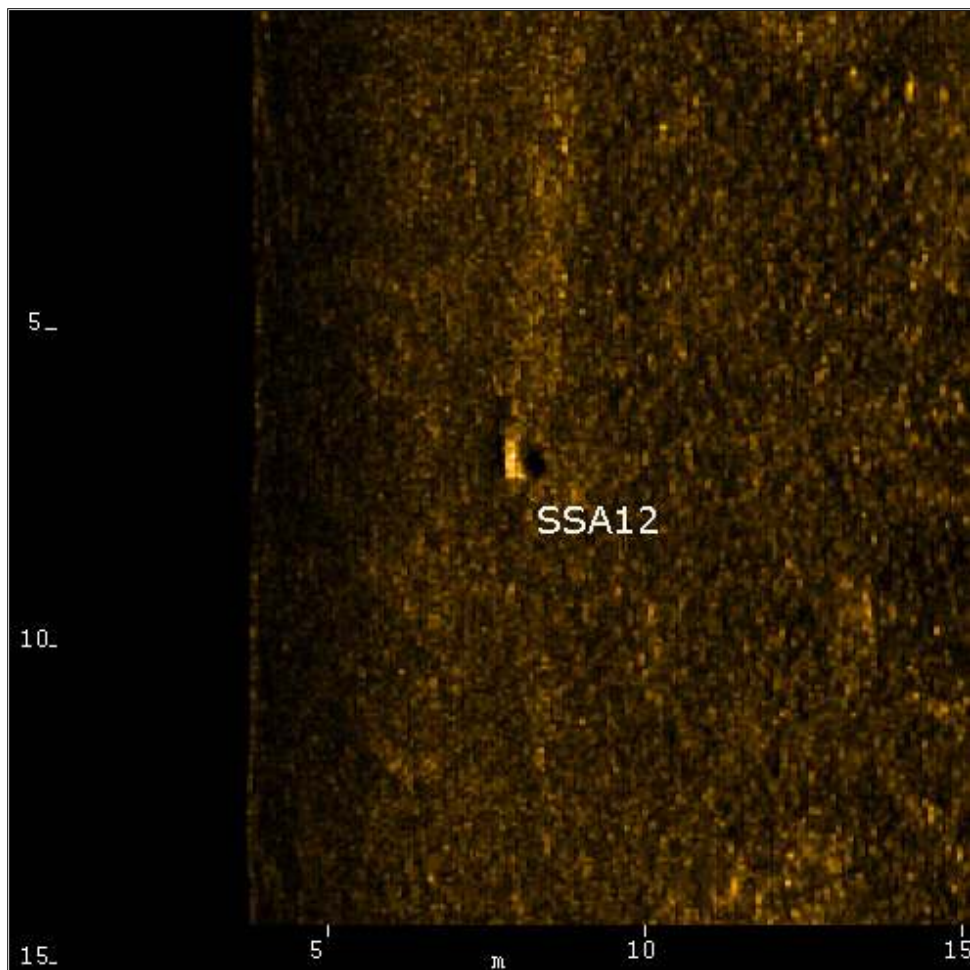
**Contact Info: SSA112**

- Sonar Time at Target: 09/24/2011 16:22:47
- Click Position (Lat/Lon Coordinates)
50.6891212463 -0.3419780135 (WGS84)
- Click Position (Projected Coordinates)
(X) 687742.69 (Y) 5618625.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924162000.xtf
- Ping Number: 597846
- Range to Target: 23.34 Meters
- Fish Height: 5.03 Meters
- Heading: 63.300 degrees
- Event Number: 0
- Line Name: C11030_110924162000

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly: No
 Avoidance Area:
 Classification 1: Small Boulder
 Classification 2:
 Area:
 Block:
 Description: Small Boulder

SSA12

**Contact Info: SSA12**

- Sonar Time at Target: 09/24/2011 15:56:38
- Click Position (Lat/Lon Coordinates)
50.6871604919 -0.3456529975 (WGS84)
- Click Position (Projected Coordinates)
(X) 687491.00 (Y) 5618398.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 552174
- Range to Target: 8.34 Meters
- Fish Height: 4.38 Meters
- Heading: 275.700 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

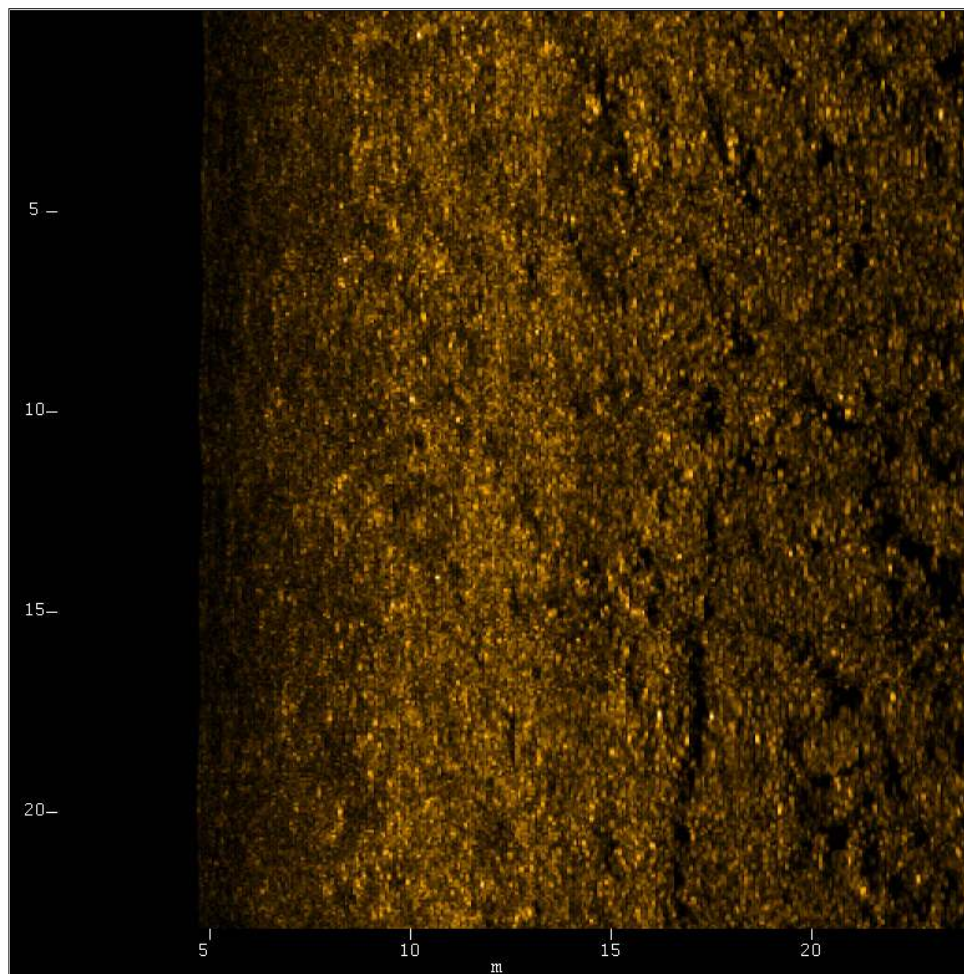
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Indistinguishable
 Classification 2:
 Area:
 Block:
 Description: Indistinguishable but most likely a boulder, linear feature, straight sides with small scour on both long sides

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA13

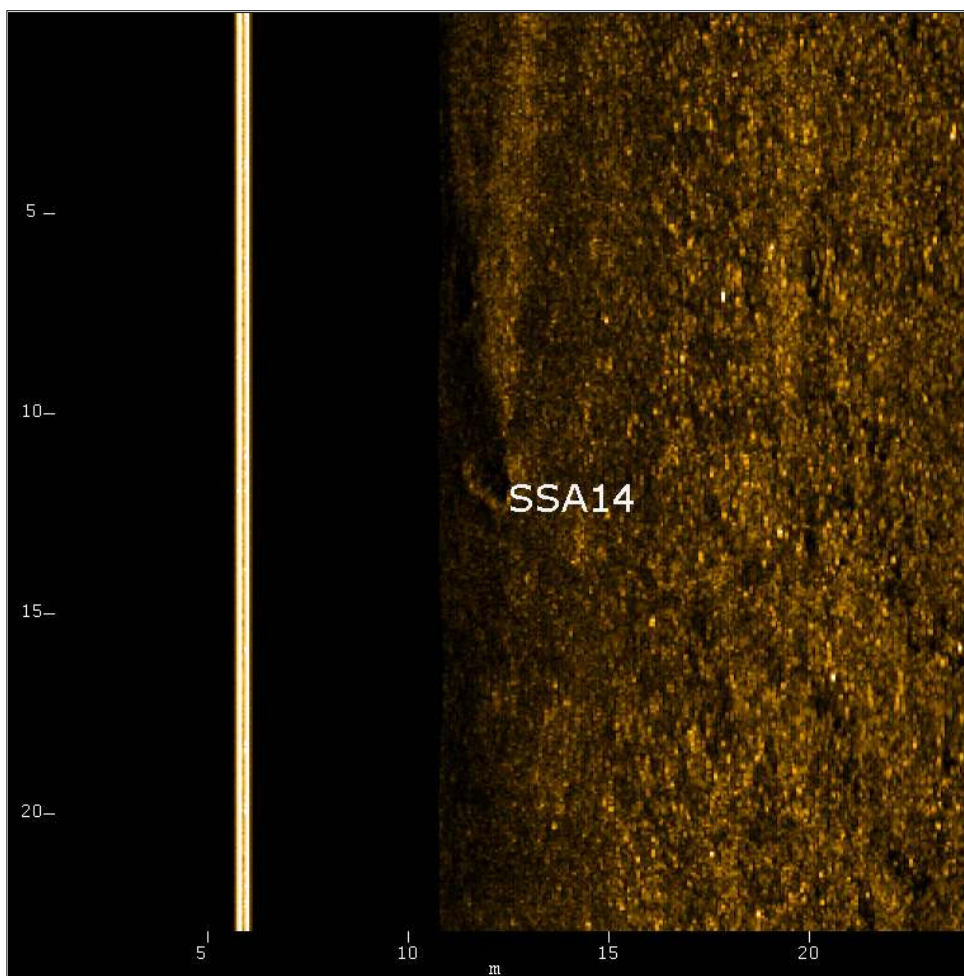
**Contact Info: SSA13**

- Sonar Time at Target: 09/24/2011 15:55:14
- Click Position (Lat/Lon Coordinates)
50.6876754761 -0.3436180055 (WGS84)
- Click Position (Projected Coordinates)
(X) 687632.63 (Y) 5618460.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 549714
- Range to Target: 23.72 Meters
- Fish Height: 4.85 Meters
- Heading: 272.600 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Small Boulder

SSA14

**Contact Info: SSA14**

- Sonar Time at Target: 09/24/2011 15:54:53
- Click Position (Lat/Lon Coordinates)
50.6876258850 -0.3430339992 (WGS84)
- Click Position (Projected Coordinates)
(X) 687674.13 (Y) 5618456.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 549104
- Range to Target: 6.09 Meters
- Fish Height: 4.96 Meters
- Heading: 274.300 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

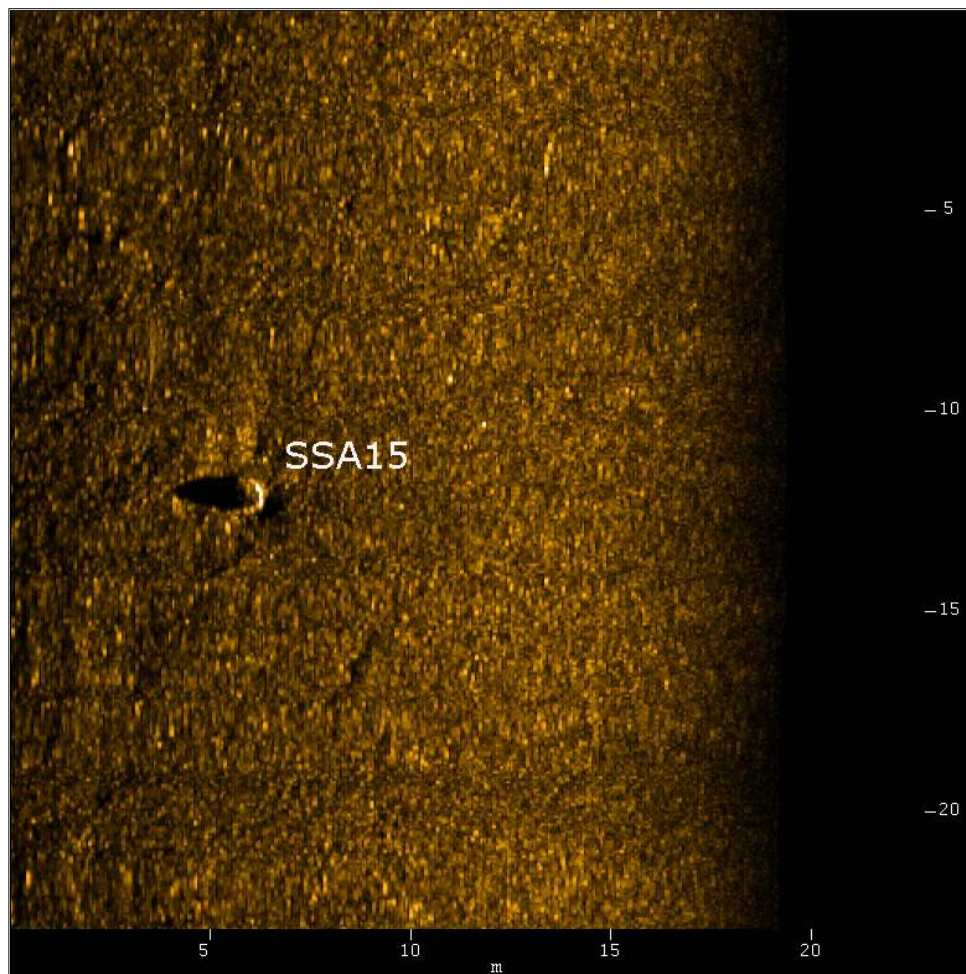
Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 1 Meters
 Target Width: 1 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Hollow
 Classification 2:
 Area:
 Block:
 Description: Curvilinear feature with a small hollowed centre.
 possible anchor scar

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA15

**Contact Info: SSA15**

- Sonar Time at Target: 09/24/2011 17:07:34
- Click Position (Lat/Lon Coordinates)
50.6881408691 -0.3418110013 (WGS84)
- Click Position (Projected Coordinates)
(X) 687758.44 (Y) 5618517.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924170600.xtf
- Ping Number: 676119
- Range to Target: -17.63 Meters
- Fish Height: 4.70 Meters
- Heading: 270.800 degrees
- Event Number: 0
- Line Name: C11030_110924170600

User Entered Info

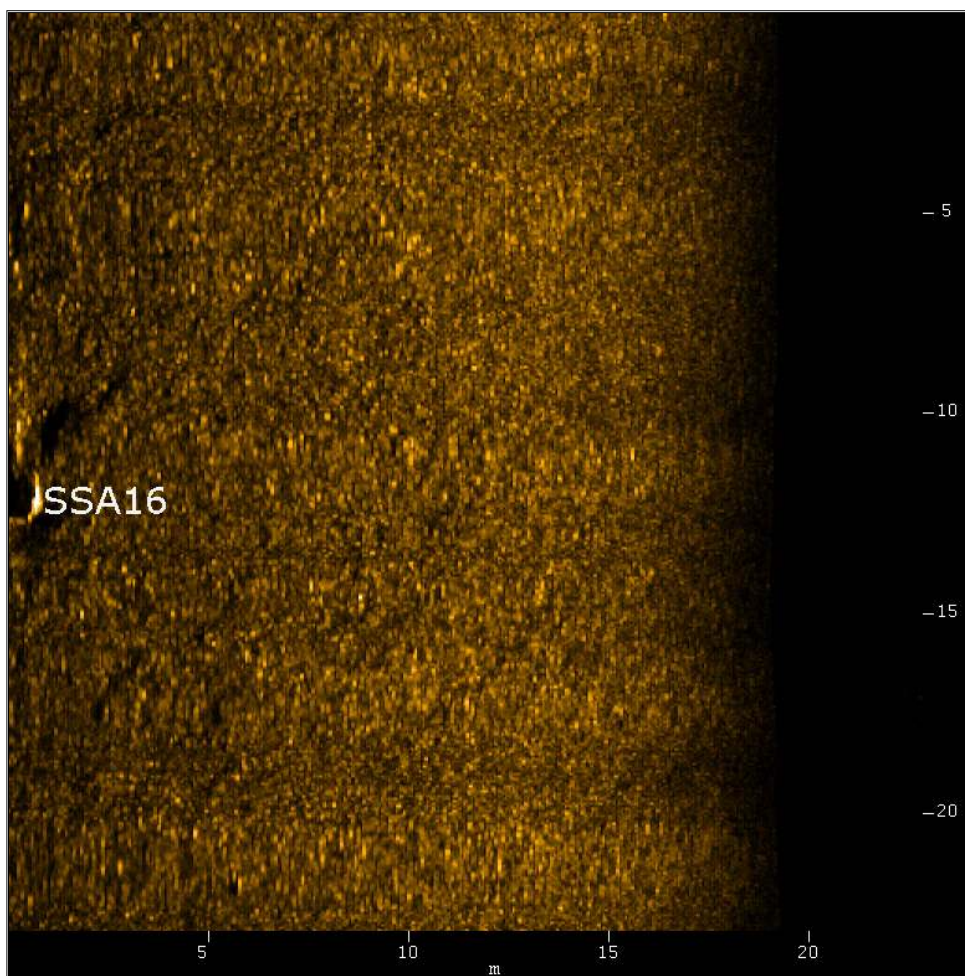
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 2 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

RAmpion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA16

**Contact Info: SSA16**

- Sonar Time at Target: 09/24/2011 17:07:43
- Click Position (Lat/Lon Coordinates)
50.6880455017 -0.3420149982 (WGS84)
- Click Position (Projected Coordinates)
(X) 687744.38 (Y) 5618505.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924170600.xtf
- Ping Number: 676388
- Range to Target: 23.58 Meters
- Fish Height: 4.97 Meters
- Heading: 275.600 degrees
- Event Number: 0
- Line Name: C11030_110924170600

User Entered Info

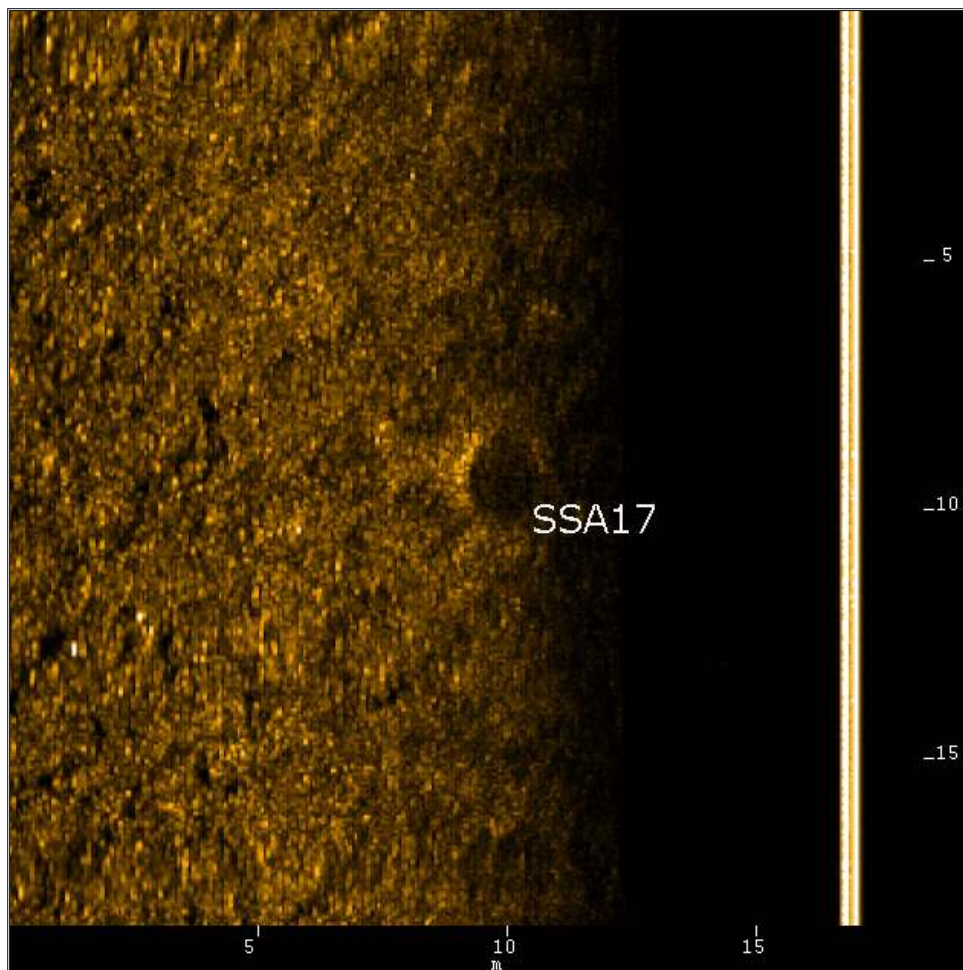
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG2
 Avoidance Area:
 Classification 1: Possible Man Made Debris
 Classification 2:
 Area:
 Block:
 Description: Possible Man Made debris associated with
 magnetic anomaly 2

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA17

**Contact Info: SSA17**

- Sonar Time at Target: 09/24/2011 17:09:08
- Click Position (Lat/Lon Coordinates)
50.6877861023 -0.3441500068 (WGS84)
- Click Position (Projected Coordinates)
(X) 687594.63 (Y) 5618471.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924170600.xtf
- Ping Number: 678864
- Range to Target: 6.89 Meters
- Fish Height: 4.72 Meters
- Heading: 277.600 degrees
- Event Number: 0
- Line Name: C11030_110924170600

User Entered Info

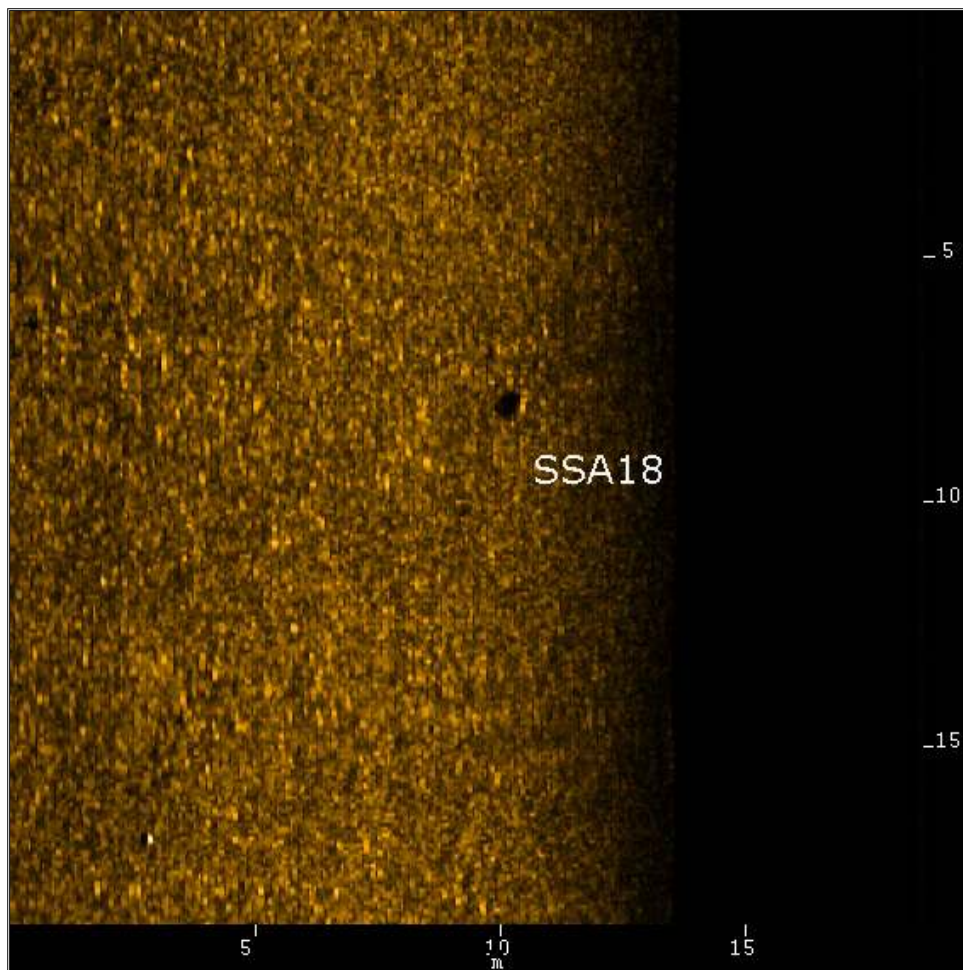
Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 0 Meters
 Target Width: 2 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Hollow
 Classification 2:
 Area:
 Block:
 Description: Circular hollow with raised edges

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA18

**Contact Info: SSA18**

- Sonar Time at Target: 09/24/2011 14:26:45
- Click Position (Lat/Lon Coordinates)
50.6875953674 -0.3403759897 (WGS84)
- Click Position (Projected Coordinates)
(X) 687861.94 (Y) 5618459.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 395069
- Range to Target: 8.72 Meters
- Fish Height: 5.41 Meters
- Heading: 275.300 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

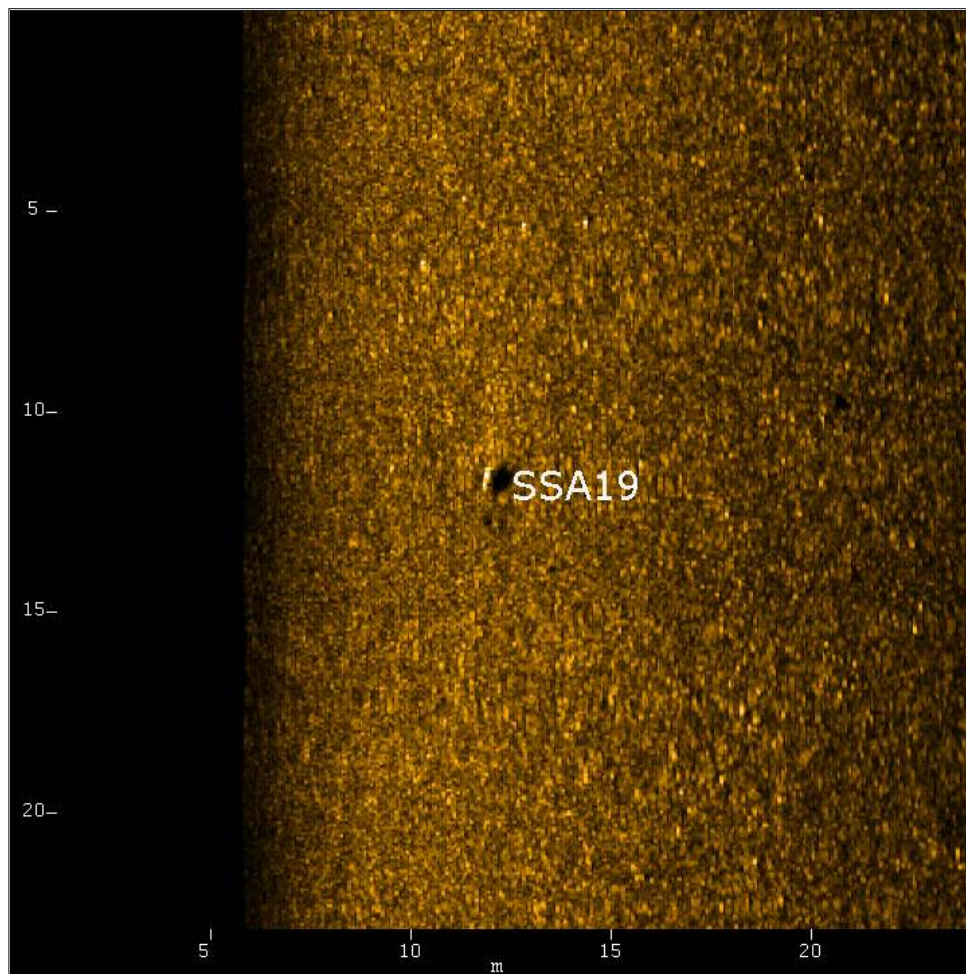
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA19

**Contact Info: SSA19**

- Sonar Time at Target: 09/24/2011 14:26:50
- Click Position (Lat/Lon Coordinates)
50.6877098083 -0.3405979872 (WGS84)
- Click Position (Projected Coordinates)
(X) 687845.75 (Y) 5618472.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 395230
- Range to Target: 11.48 Meters
- Fish Height: 5.47 Meters
- Heading: 275.100 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

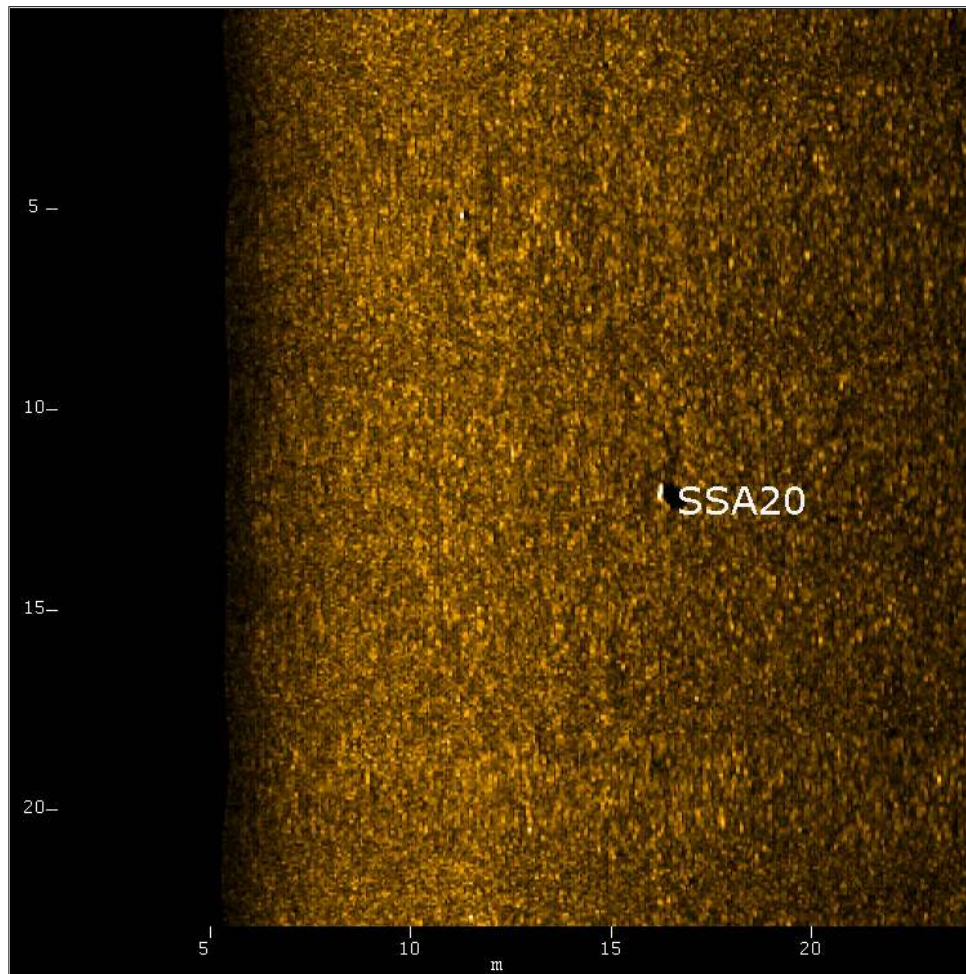
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA20

**Contact Info: SSA20**

- Sonar Time at Target: 09/24/2011 14:27:06
- Click Position (Lat/Lon Coordinates)
50.6876640320 -0.3410249949 (WGS84)
- Click Position (Projected Coordinates)
(X) 687815.88 (Y) 5618466.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 395698
- Range to Target: 16.13 Meters
- Fish Height: 5.50 Meters
- Heading: 277.800 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

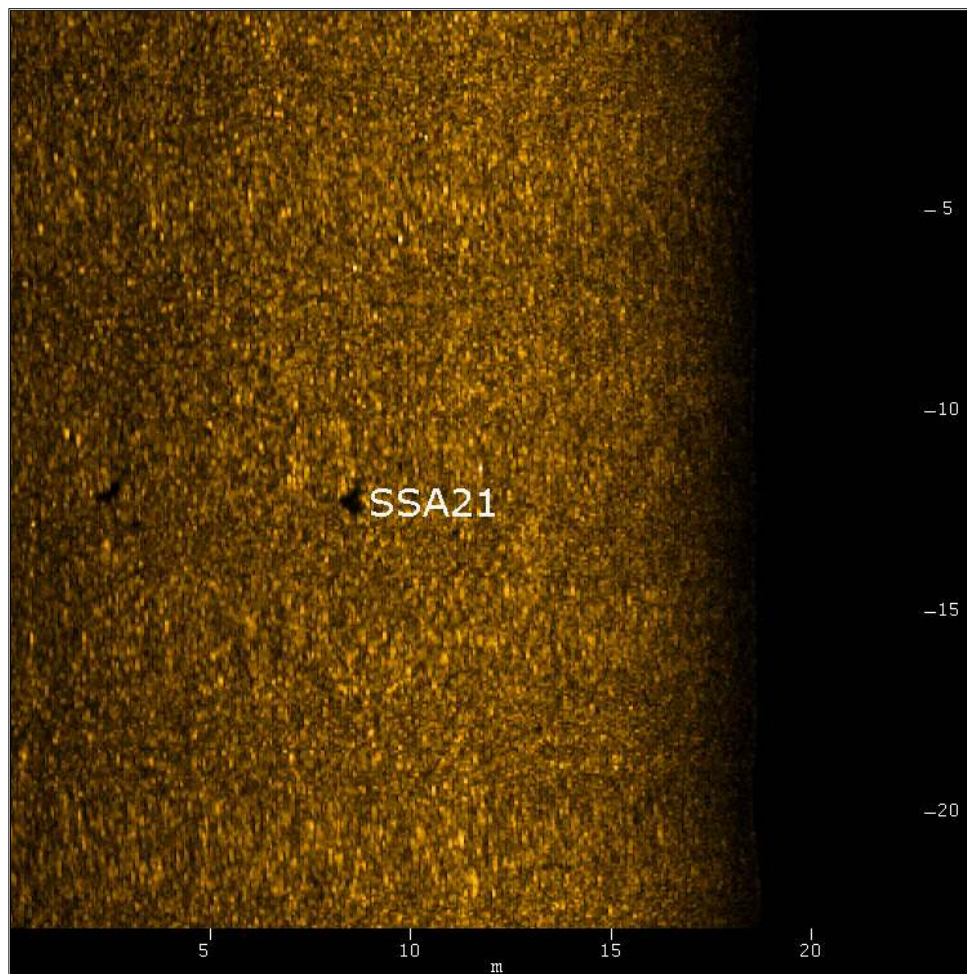
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Indistinguishable
 Classification 2:
 Area:
 Block:
 Description: Small indistinguishable linear feature, appears to have linear sides, may be fishing pot or boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA21

**Contact Info: SSA21**

- Sonar Time at Target: 09/24/2011 14:27:06
- Click Position (Lat/Lon Coordinates)
50.6874122620 -0.3408820033 (WGS84)
- Click Position (Projected Coordinates)
(X) 687826.94 (Y) 5618438.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 395686
- Range to Target: 15.52 Meters
- Fish Height: 5.50 Meters
- Heading: 279.000 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

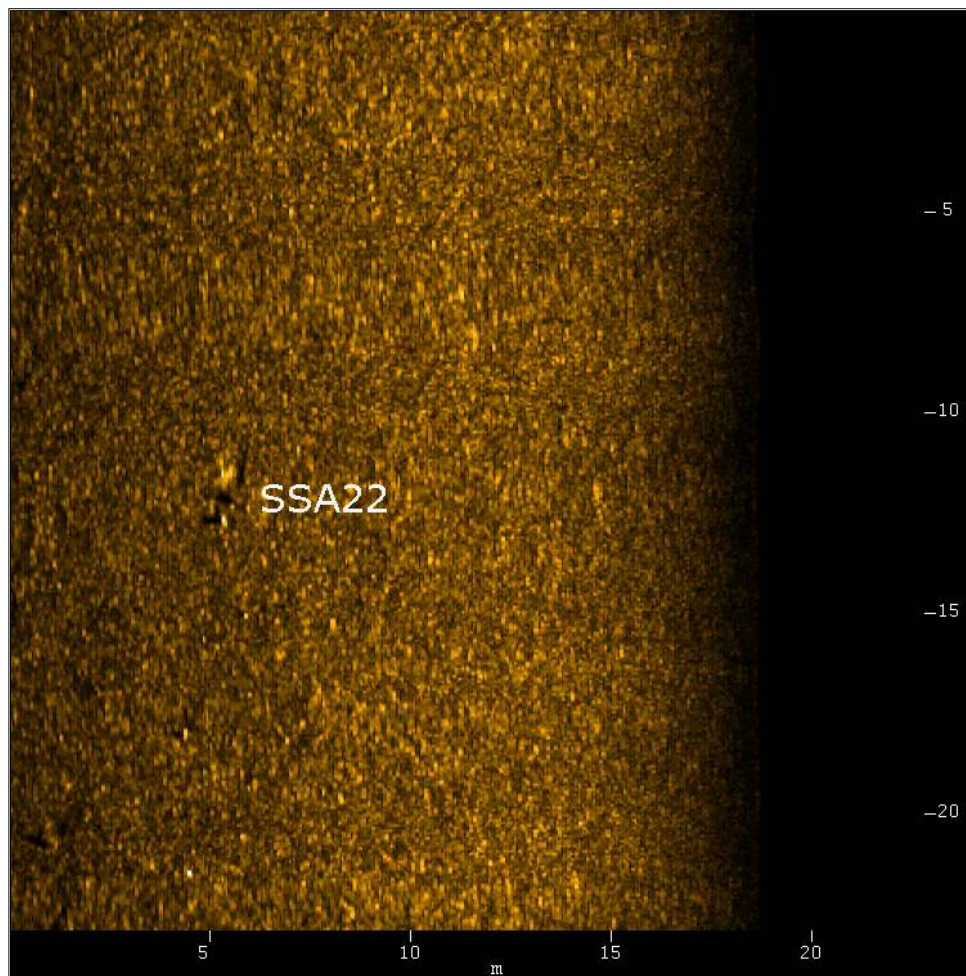
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

RAmpion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA22

**Contact Info: SSA22**

- Sonar Time at Target: 09/24/2011 14:27:13
- Click Position (Lat/Lon Coordinates)
50.6873512268 -0.3410589993 (WGS84)
- Click Position (Projected Coordinates)
(X) 687814.69 (Y) 5618431.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 395897
- Range to Target: 18.23 Meters
- Fish Height: 5.44 Meters
- Heading: 273.900 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

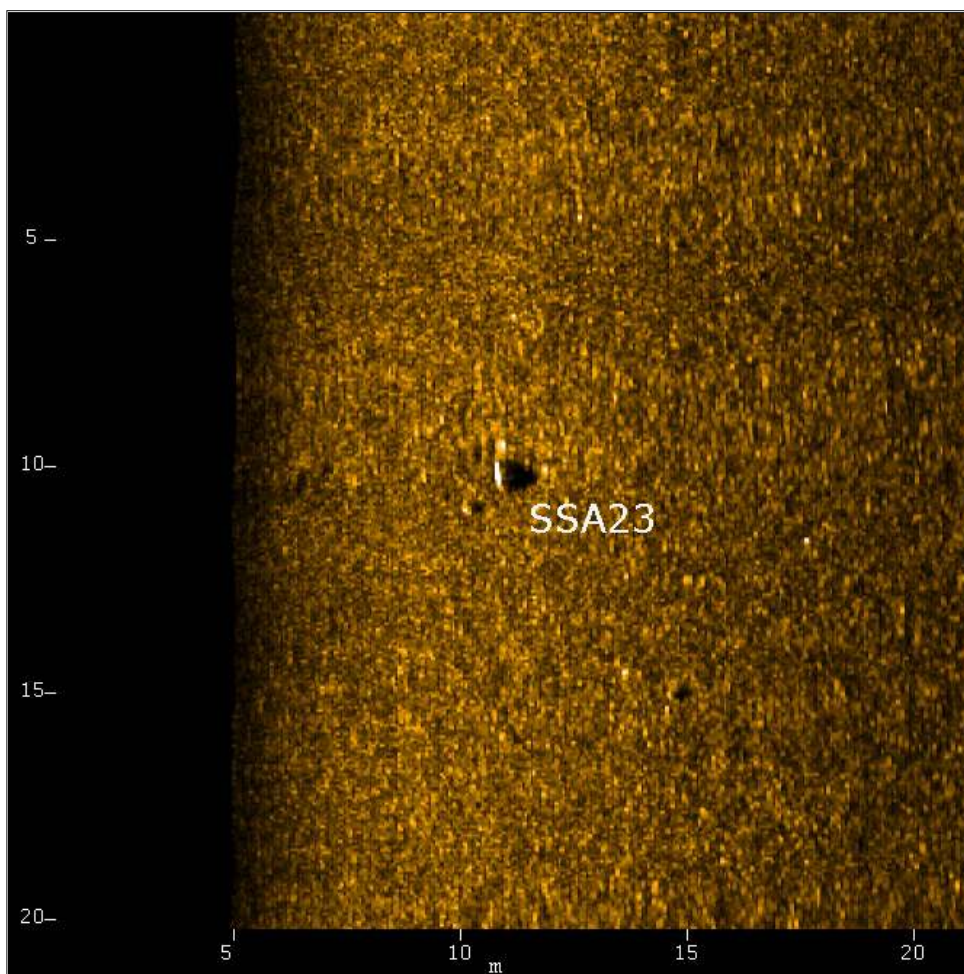
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA23

**Contact Info: SSA23**

- Sonar Time at Target: 09/24/2011 14:27:14
- Click Position (Lat/Lon Coordinates)
50.6875801086 -0.3411870003 (WGS84)
- Click Position (Projected Coordinates)
(X) 687804.75 (Y) 5618456.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 395916
- Range to Target: 11.30 Meters
- Fish Height: 5.38 Meters
- Heading: 275.900 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

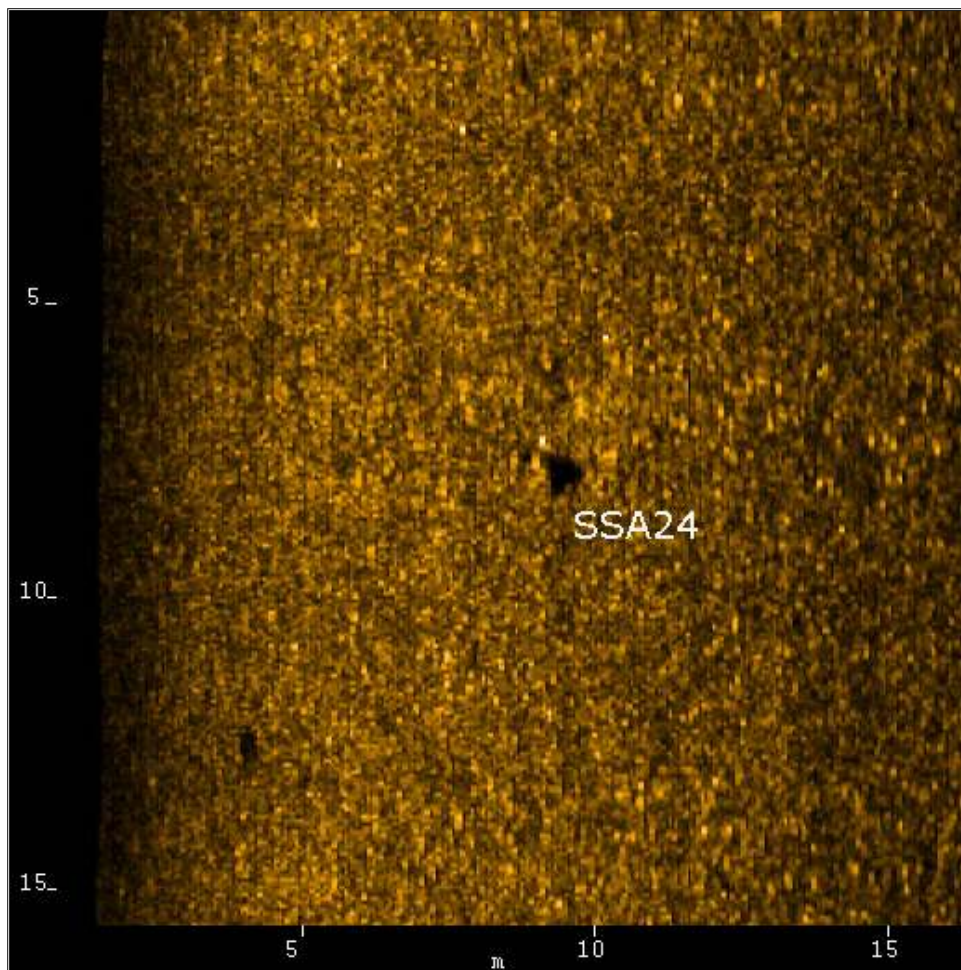
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Small linear target, surrounded by two large stones. Probable boulder however there appears to be a linear side to the feature

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA24

**Contact Info: SSA24**

- Sonar Time at Target: 09/24/2011 14:27:31
- Click Position (Lat/Lon Coordinates)
50.6875038147 -0.3416390121 (WGS84)
- Click Position (Projected Coordinates)
(X) 687773.06 (Y) 5618446.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396427
- Range to Target: 12.61 Meters
- Fish Height: 4.98 Meters
- Heading: 278.300 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

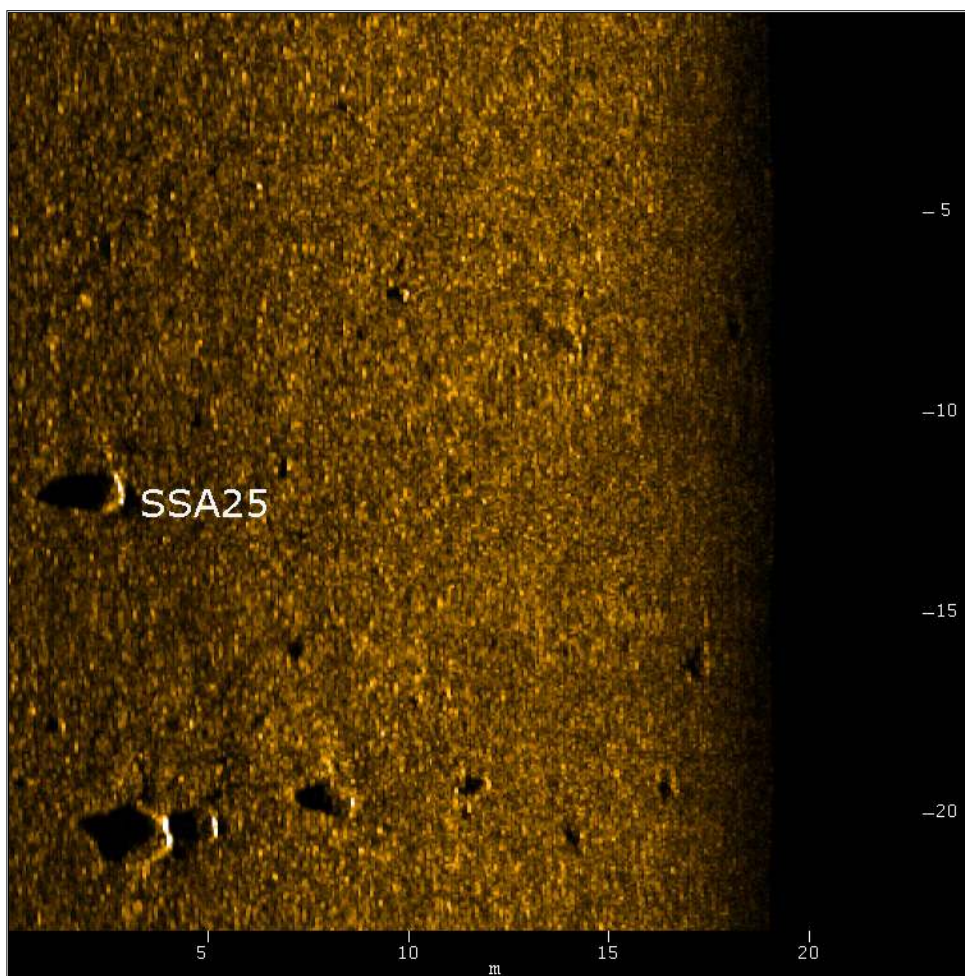
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA25

**Contact Info: SSA25**

- Sonar Time at Target: 09/24/2011 14:27:36
- Click Position (Lat/Lon Coordinates)
50.6872062683 -0.3415920138 (WGS84)
- Click Position (Projected Coordinates)
(X) 687777.63 (Y) 5618413.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396557
- Range to Target: 21.19 Meters
- Fish Height: 4.92 Meters
- Heading: 277.400 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

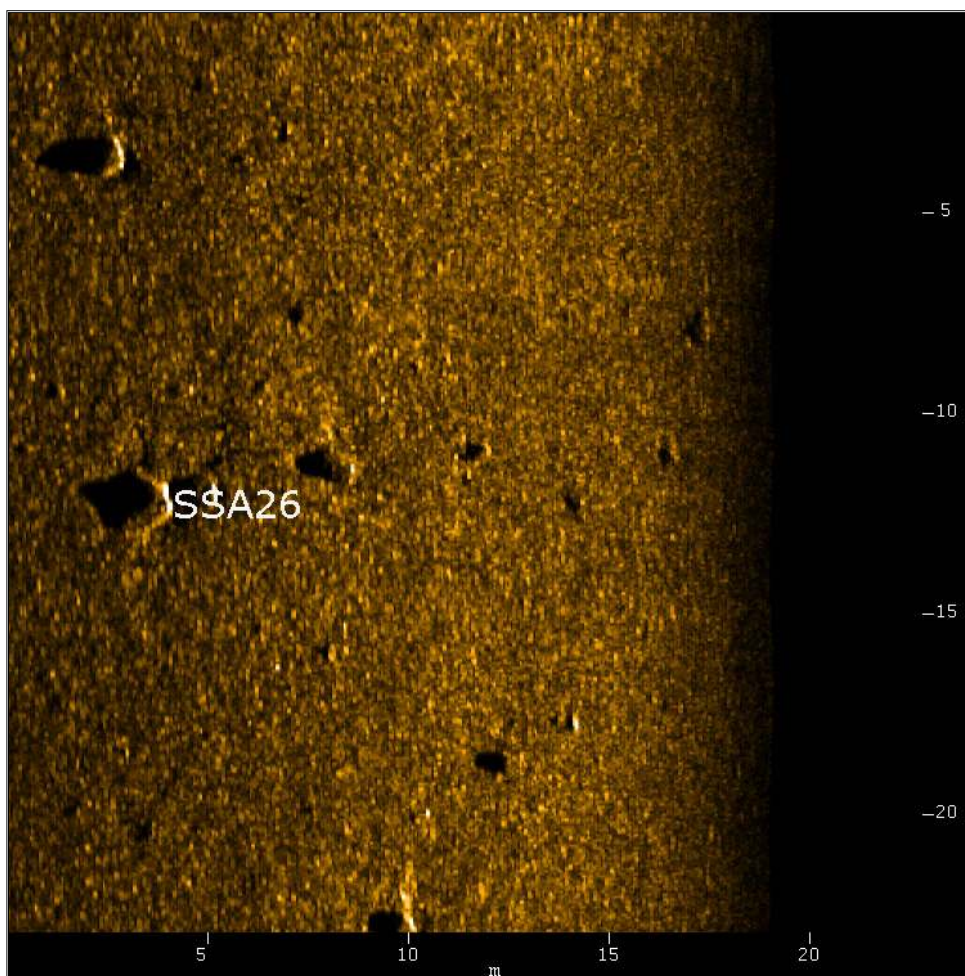
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 2 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder surrounded by others

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA26

**Contact Info: SSA26**

- Sonar Time at Target: 09/24/2011 14:27:40
- Click Position (Lat/Lon Coordinates)
50.6871871948 -0.3417110145 (WGS84)
- Click Position (Projected Coordinates)
(X) 687769.25 (Y) 5618411.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396688
- Range to Target: 20.34 Meters
- Fish Height: 5.01 Meters
- Heading: 276.400 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

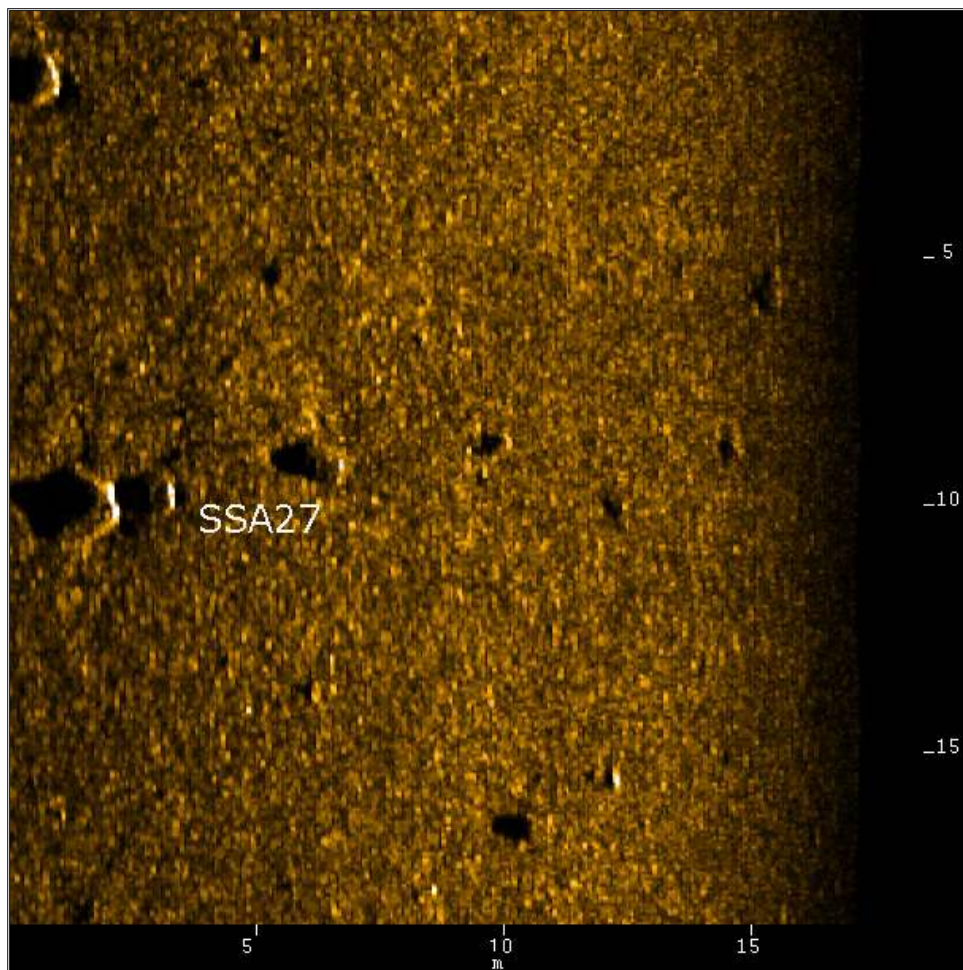
Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 2 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder surrounded by others

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA27

**Contact Info: SSA27**

- Sonar Time at Target: 09/24/2011 14:27:40
- Click Position (Lat/Lon Coordinates)
50.6872024536 -0.3417100012 (WGS84)
- Click Position (Projected Coordinates)
(X) 687769.31 (Y) 5618413.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396678
- Range to Target: 18.80 Meters
- Fish Height: 5.00 Meters
- Heading: 276.100 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

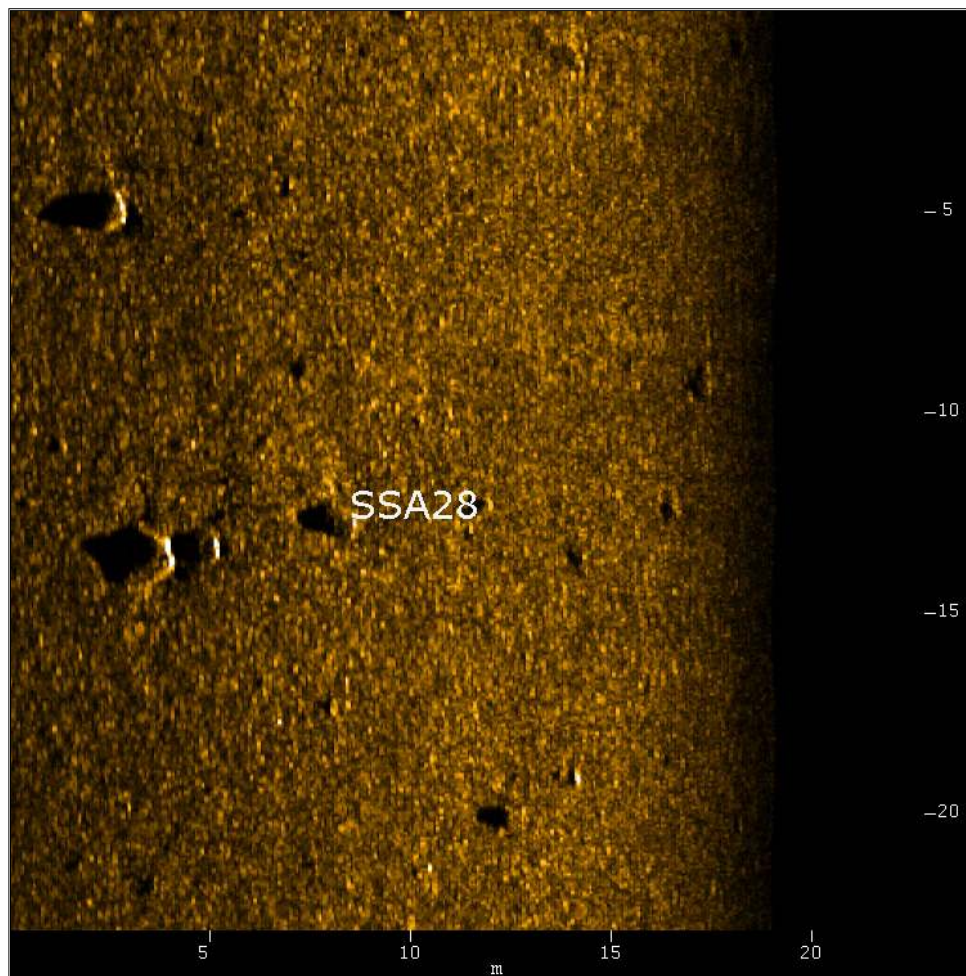
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder surrounded by others

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA28

**Contact Info: SSA28**

- Sonar Time at Target: 09/24/2011 14:27:39
- Click Position (Lat/Lon Coordinates)
50.6872291565 -0.3417139947 (WGS84)
- Click Position (Projected Coordinates)
(X) 687768.88 (Y) 5618416.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396667
- Range to Target: 15.98 Meters
- Fish Height: 5.03 Meters
- Heading: 279.300 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

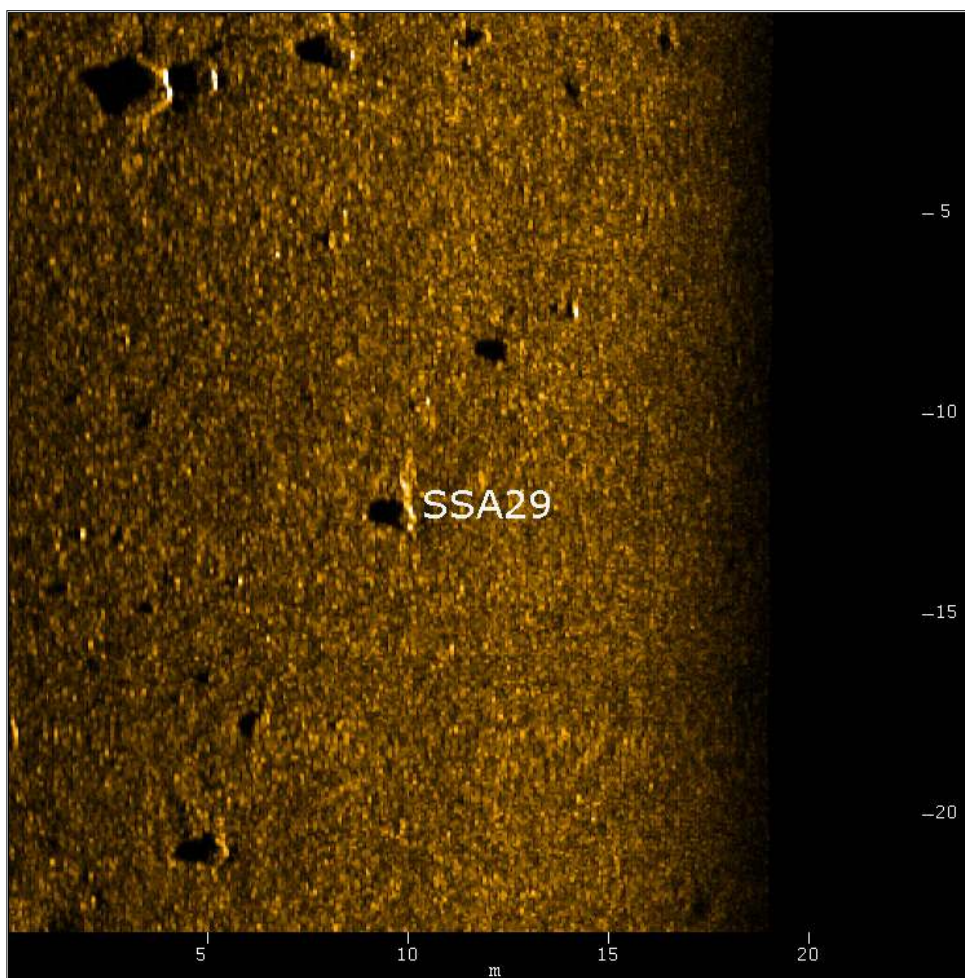
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder surrounded by others

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA29

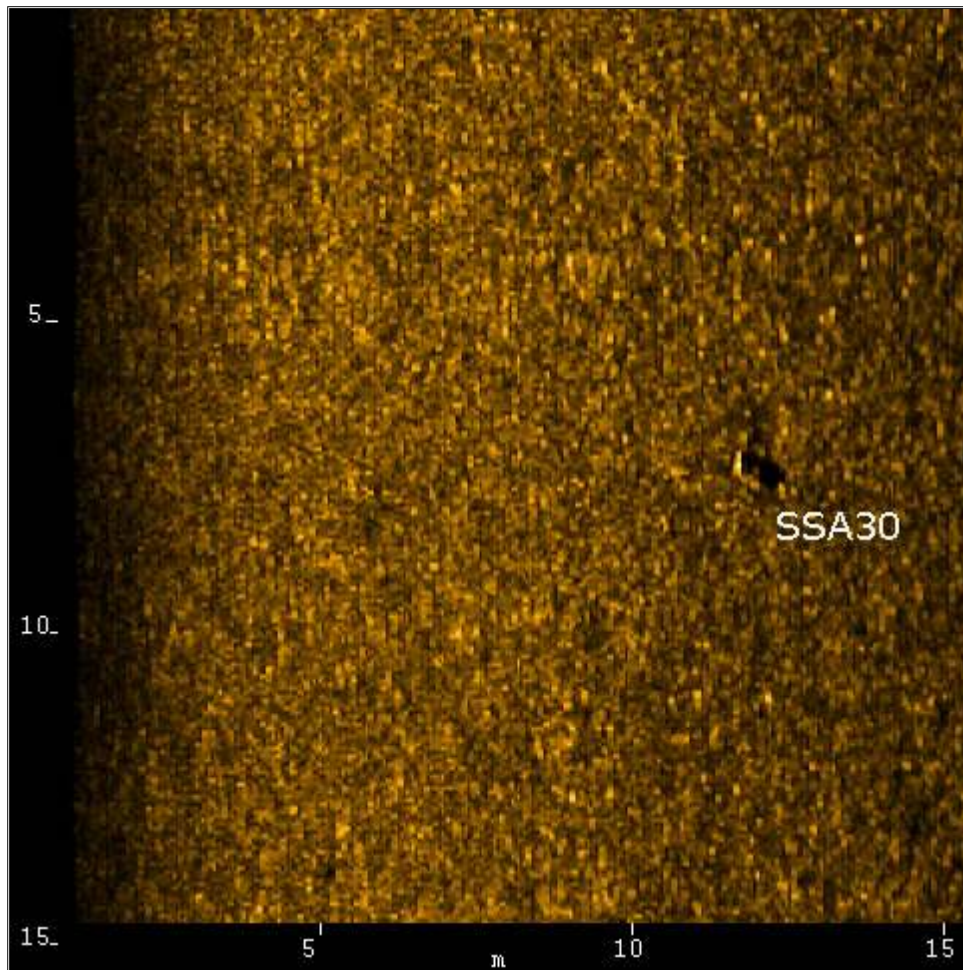
**Contact Info: SSA29**

- Sonar Time at Target: 09/24/2011 14:27:46
- Click Position (Lat/Lon Coordinates)
50.6872138977 -0.3418839872 (WGS84)
- Click Position (Projected Coordinates)
(X) 687756.94 (Y) 5618413.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396848
- Range to Target: 14.16 Meters
- Fish Height: 5.06 Meters
- Heading: 274.300 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

Target Height: = 0 Meters
Target Length: 1 Meters
Target Shadow: 1 Meters
Target Width: 0 Meters
Mag Anomaly:
Avoidance Area:
Classification 1: Boulder
Classification 2:
Area:
Block:
Description: Boulder surrounded by others

SSA30

**Contact Info: SSA30**

- Sonar Time at Target: 09/24/2011 14:27:40
- Click Position (Lat/Lon Coordinates)
50.6874847412 -0.3418630064 (WGS84)
- Click Position (Projected Coordinates)
(X) 687757.38 (Y) 5618443.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396674
- Range to Target: 15.75 Meters
- Fish Height: 5.01 Meters
- Heading: 277.200 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

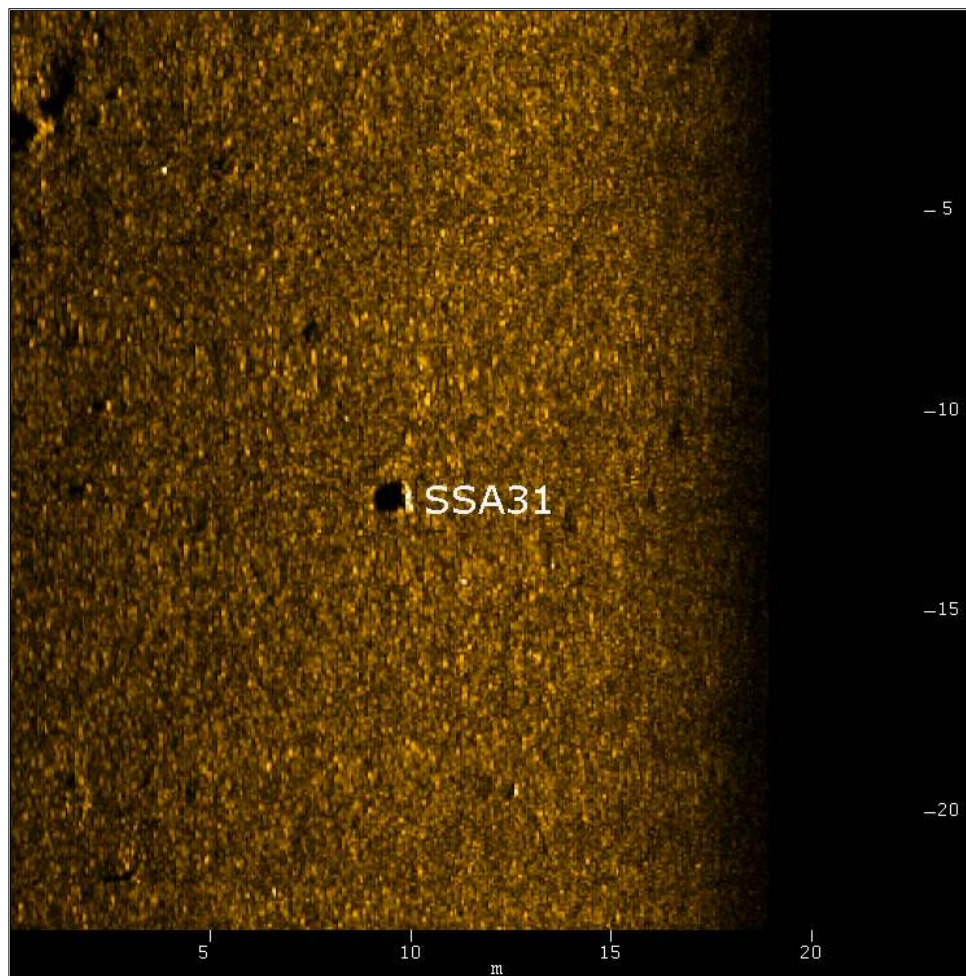
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable small boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA31

**Contact Info: SSA31**

- Sonar Time at Target: 09/24/2011 14:27:57
- Click Position (Lat/Lon Coordinates)
50.6871566772 -0.3421869874 (WGS84)
- Click Position (Projected Coordinates)
(X) 687735.81 (Y) 5618406.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 397180
- Range to Target: 14.16 Meters
- Fish Height: 5.10 Meters
- Heading: 279.100 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

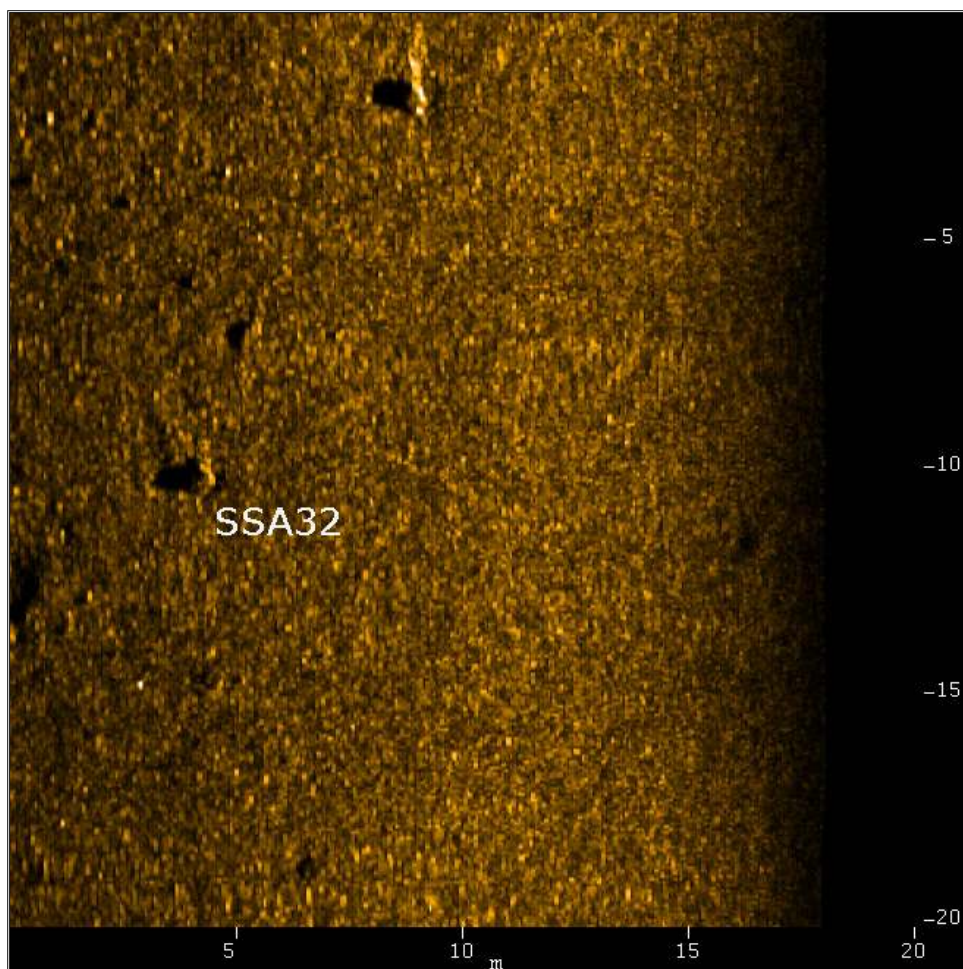
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Possible Boulder
 Classification 2:
 Area:
 Block:
 Description: Possible boulder but the feature appears to be linear in nature

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA32

**Contact Info: SSA32**

- Sonar Time at Target: 09/24/2011 14:27:50
- Click Position (Lat/Lon Coordinates)
50.6871452332 -0.3419860005 (WGS84)
- Click Position (Projected Coordinates)
(X) 687750.06 (Y) 5618405.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 396983
- Range to Target: 18.98 Meters
- Fish Height: 5.10 Meters
- Heading: 275.600 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

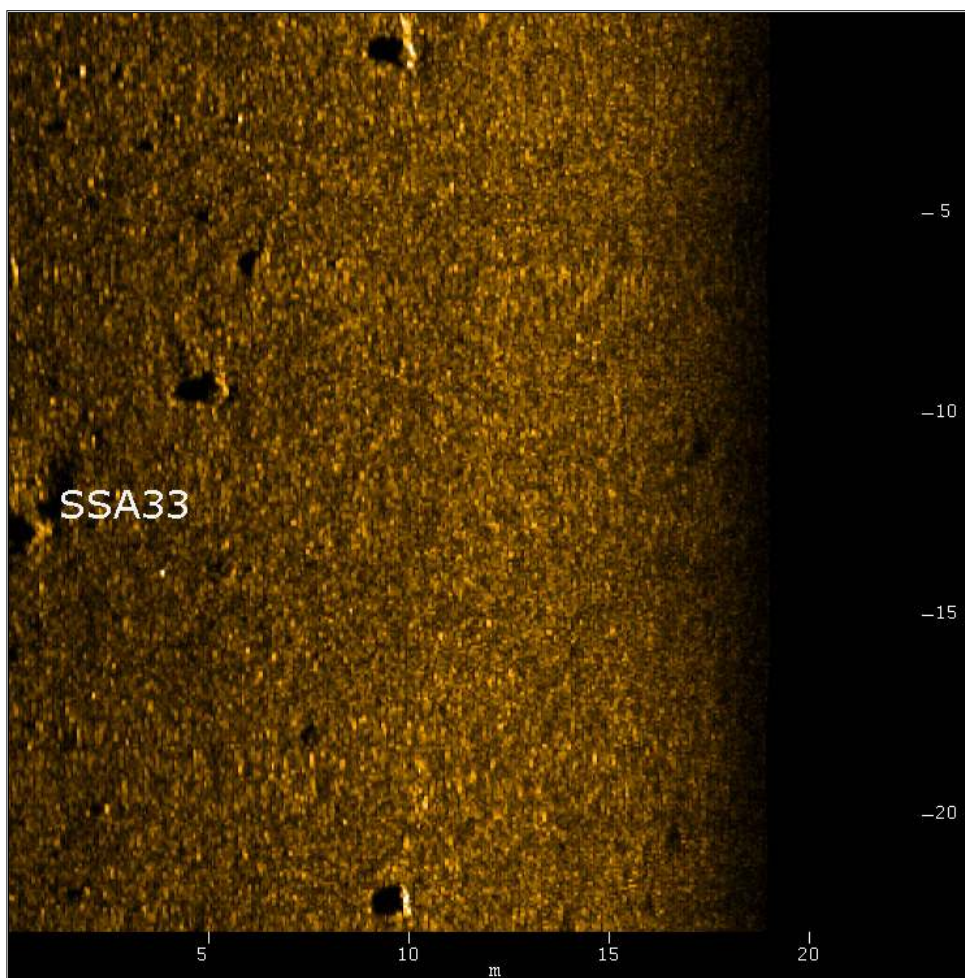
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder surrounded by others

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA33

**Contact Info: SSA33**

- Sonar Time at Target: 09/24/2011 14:27:52
- Click Position (Lat/Lon Coordinates)
50.6870994568 -0.3420090079 (WGS84)
- Click Position (Projected Coordinates)
(X) 687748.63 (Y) 5618400.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 397026
- Range to Target: 23.20 Meters
- Fish Height: 5.09 Meters
- Heading: 272.700 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

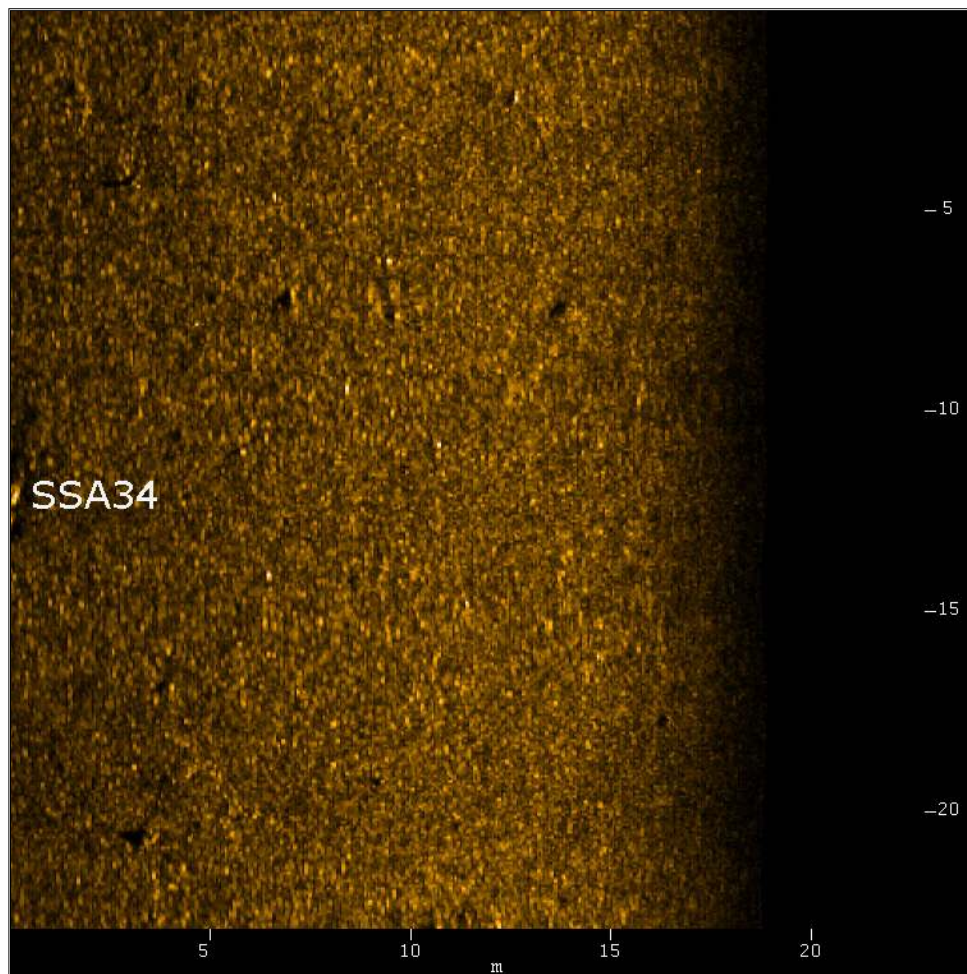
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder surrounded by others

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA34

**Contact Info: SSA34**

- Sonar Time at Target: 09/24/2011 14:28:06
- Click Position (Lat/Lon Coordinates)
50.6870307922 -0.3423869908 (WGS84)
- Click Position (Projected Coordinates)
(X) 687722.13 (Y) 5618392.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 397448
- Range to Target: 23.95 Meters
- Fish Height: 5.13 Meters
- Heading: 280.300 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

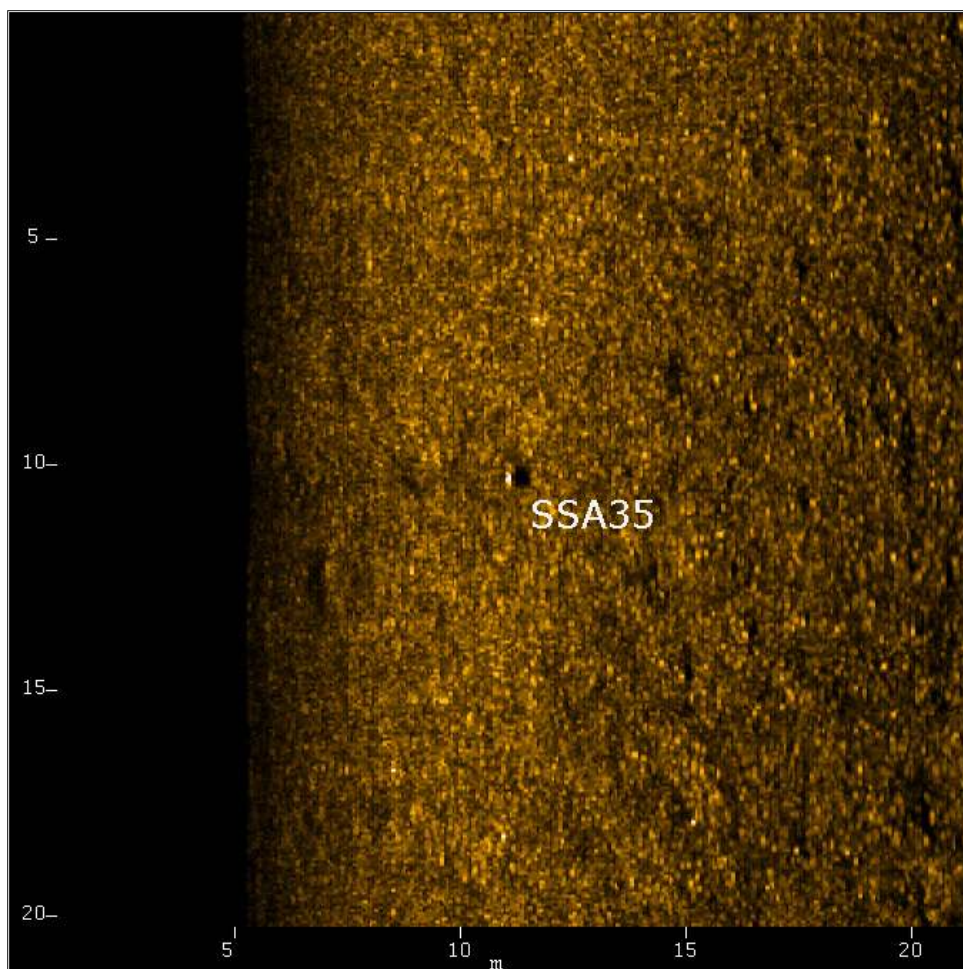
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA35

**Contact Info: SSA35**

- Sonar Time at Target: 09/24/2011 14:28:11
- Click Position (Lat/Lon Coordinates)
50.6872940063 -0.3426310122 (WGS84)
- Click Position (Projected Coordinates)
(X) 687703.88 (Y) 5618420.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 397591
- Range to Target: 10.92 Meters
- Fish Height: 5.29 Meters
- Heading: 276.600 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

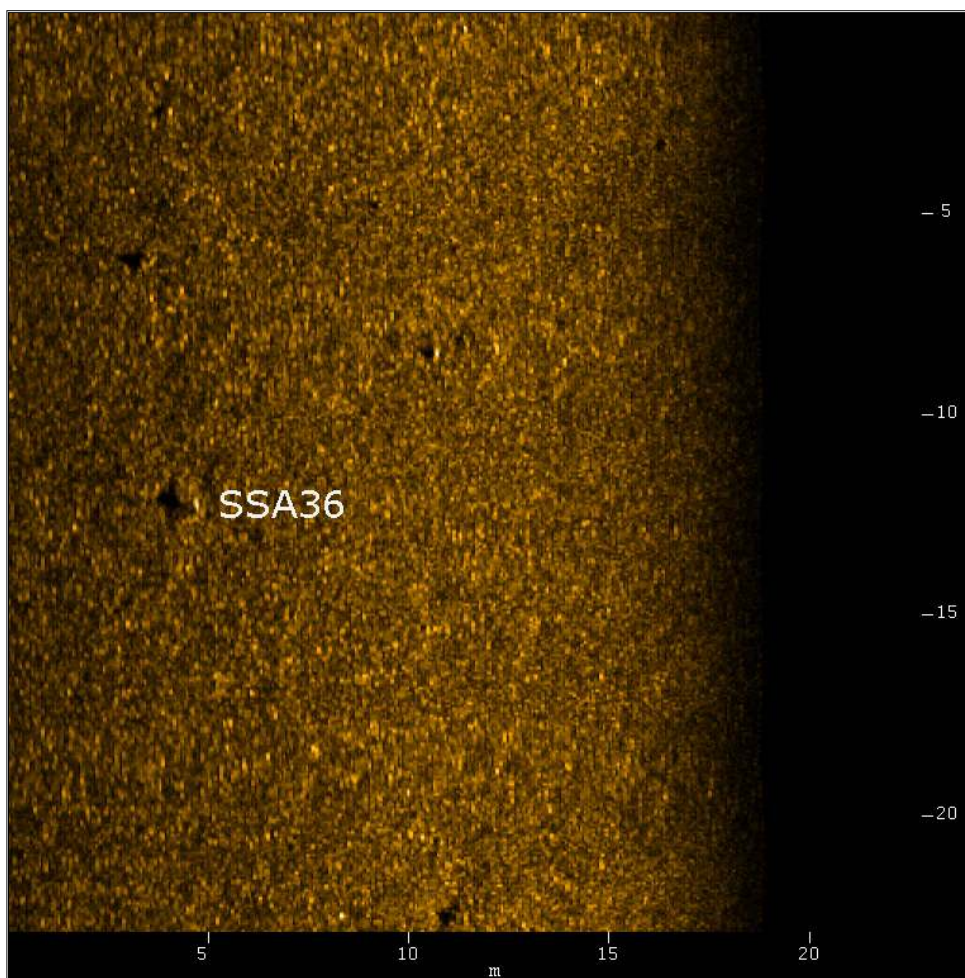
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly: MAG6
 Avoidance Area:
 Classification 1: Possible man made debris
 Classification 2:
 Area:
 Block:
 Description: Possible man made debris associated with
 magnetic anomaly 6

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA36

**Contact Info: SSA36**

- Sonar Time at Target: 09/24/2011 14:28:14
- Click Position (Lat/Lon Coordinates)
50.6870384216 -0.3425939977 (WGS84)
- Click Position (Projected Coordinates)
(X) 687707.56 (Y) 5618392.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 397678
- Range to Target: 19.22 Meters
- Fish Height: 5.22 Meters
- Heading: 275.900 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

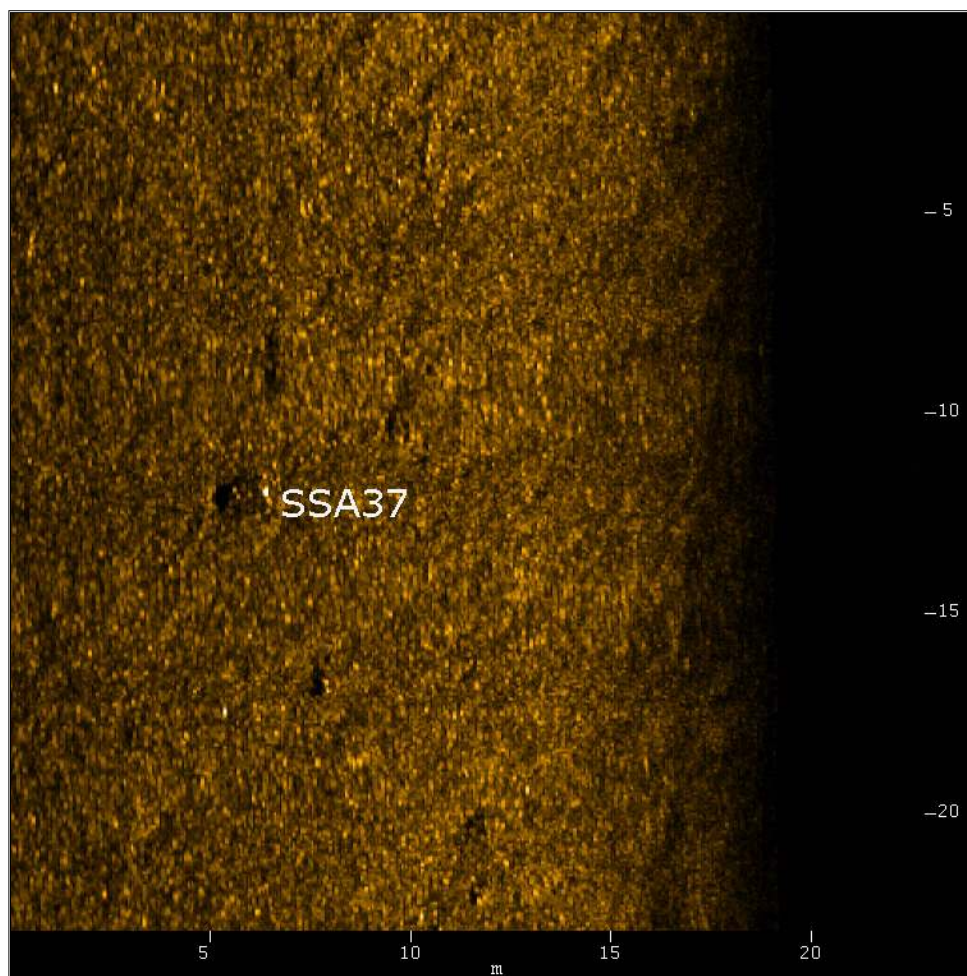
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable small boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA37

**Contact Info: SSA37**

- Sonar Time at Target: 09/24/2011 14:28:51
- Click Position (Lat/Lon Coordinates)
50.6868667603 -0.3435299993 (WGS84)
- Click Position (Projected Coordinates)
(X) 687642.06 (Y) 5618371.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 398758
- Range to Target: 17.72 Meters
- Fish Height: 4.89 Meters
- Heading: 279.100 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

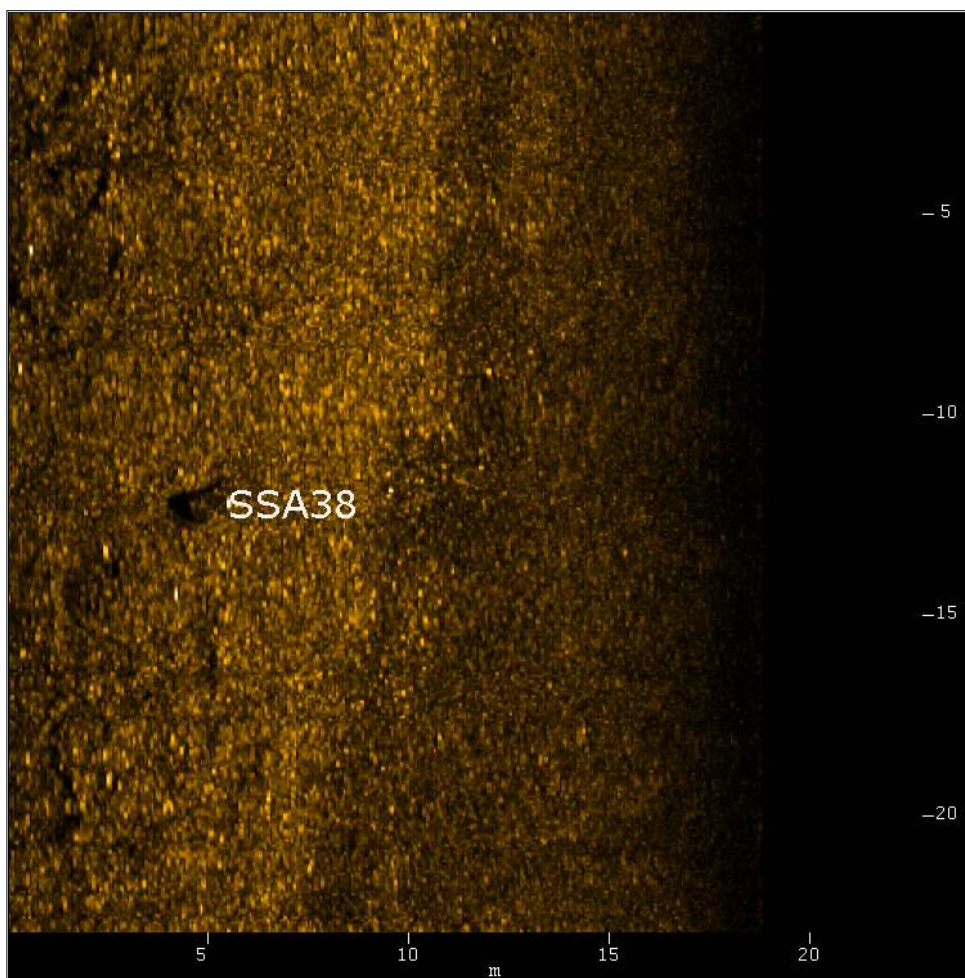
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 1 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Indistinguishable
 Classification 2:
 Area:
 Block:
 Description: Indistinguishable circular feature with low shadow.
 Most likely a boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA38

**Contact Info: SSA38**

- Sonar Time at Target: 09/24/2011 14:29:30
- Click Position (Lat/Lon Coordinates)
50.6866912842 -0.3445099890 (WGS84)
- Click Position (Projected Coordinates)
(X) 687573.63 (Y) 5618349.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 399877
- Range to Target: 18.98 Meters
- Fish Height: 5.25 Meters
- Heading: 280.400 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

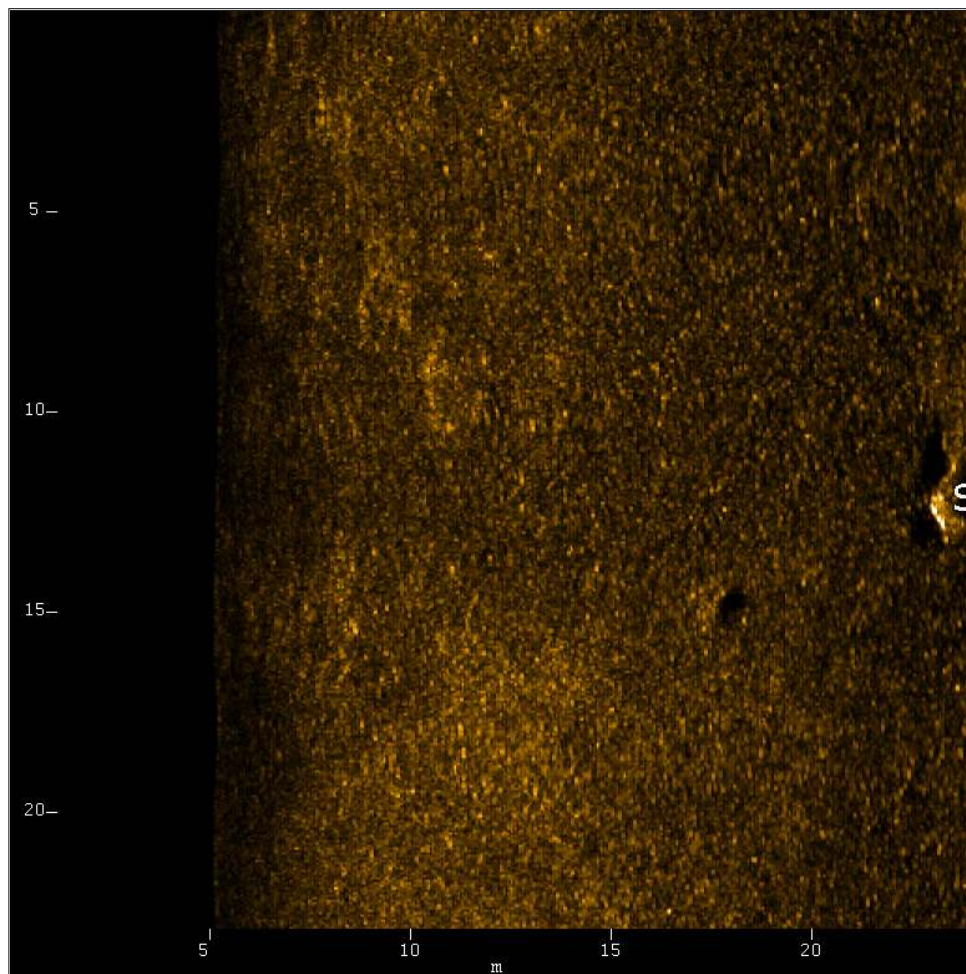
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 1 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Indistinguishable
 Classification 2:
 Area:
 Block:
 Description: Small feature, probable boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA39

**Contact Info: SSA39**

- Sonar Time at Target: 09/24/2011 14:30:11
- Click Position (Lat/Lon Coordinates)
50.6868515015 -0.3457179964 (WGS84)
- Click Position (Projected Coordinates)
(X) 687487.63 (Y) 5618363.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 401097
- Range to Target: 23.02 Meters
- Fish Height: 5.22 Meters
- Heading: 278.200 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

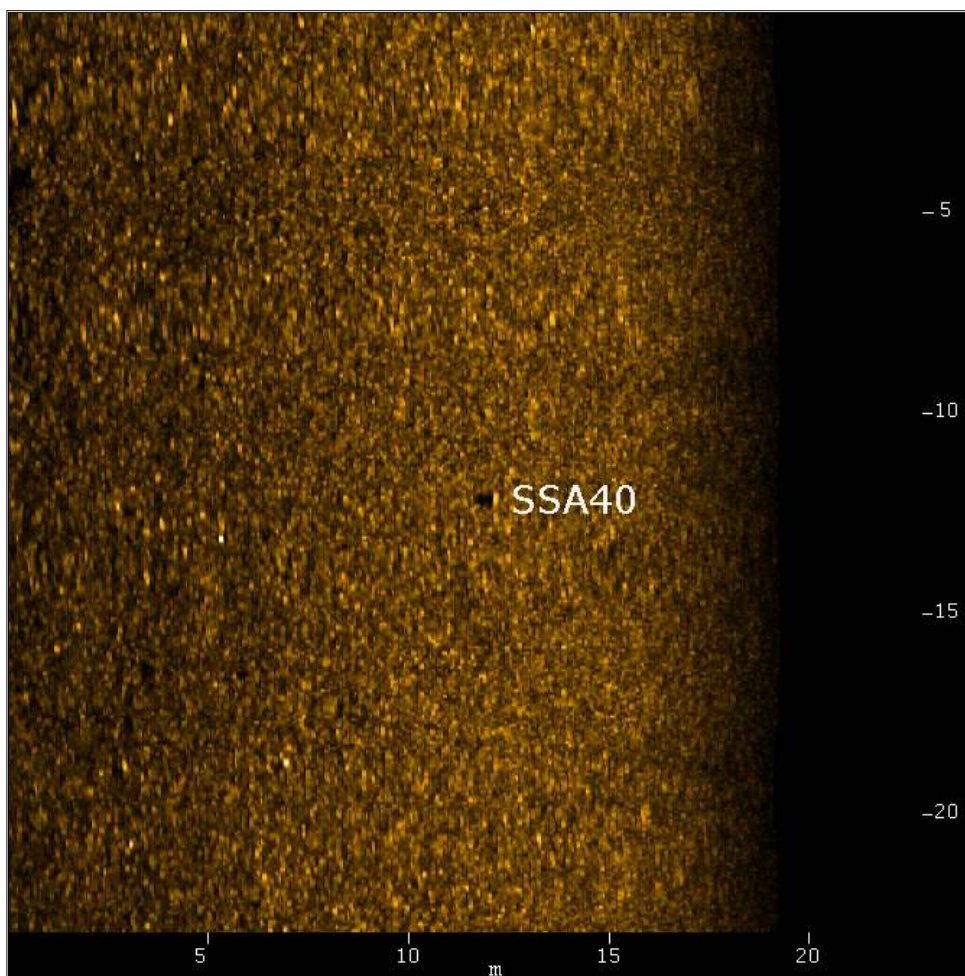
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA40

**Contact Info: SSA40**

- Sonar Time at Target: 09/24/2011 13:17:44
- Click Position (Lat/Lon Coordinates)
50.6885185242 -0.3430899978 (WGS84)
- Click Position (Projected Coordinates)
(X) 687666.56 (Y) 5618555.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924131600.xtf
- Ping Number: 274476
- Range to Target: 11.72 Meters
- Fish Height: 4.59 Meters
- Heading: 274.800 degrees
- Event Number: 0
- Line Name: C11030_110924131600

User Entered Info

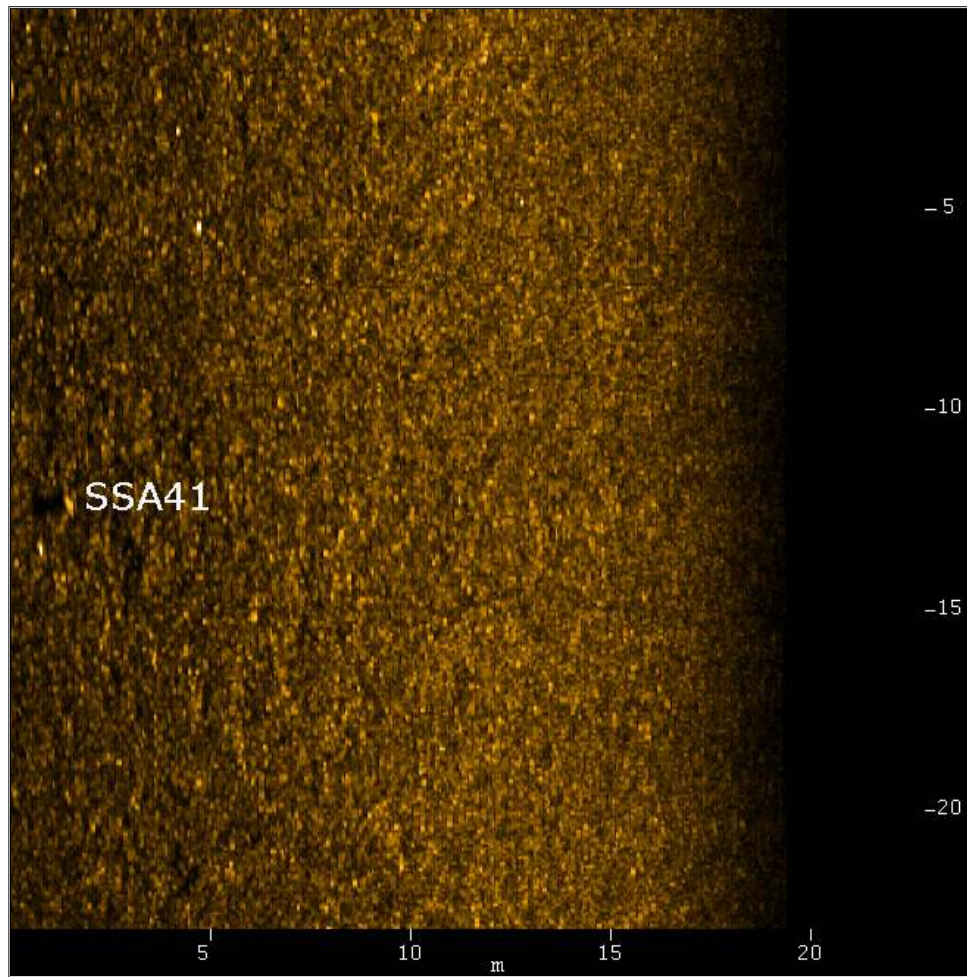
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA41

**Contact Info: SSA41**

- Sonar Time at Target: 09/24/2011 13:17:26
- Click Position (Lat/Lon Coordinates)
50.6885337830 -0.3425270021 (WGS84)
- Click Position (Projected Coordinates)
(X) 687706.25 (Y) 5618559.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924131600.xtf
- Ping Number: 273951
- Range to Target: 22.69 Meters
- Fish Height: 4.72 Meters
- Heading: 276.000 degrees
- Event Number: 0
- Line Name: C11030_110924131600

User Entered Info

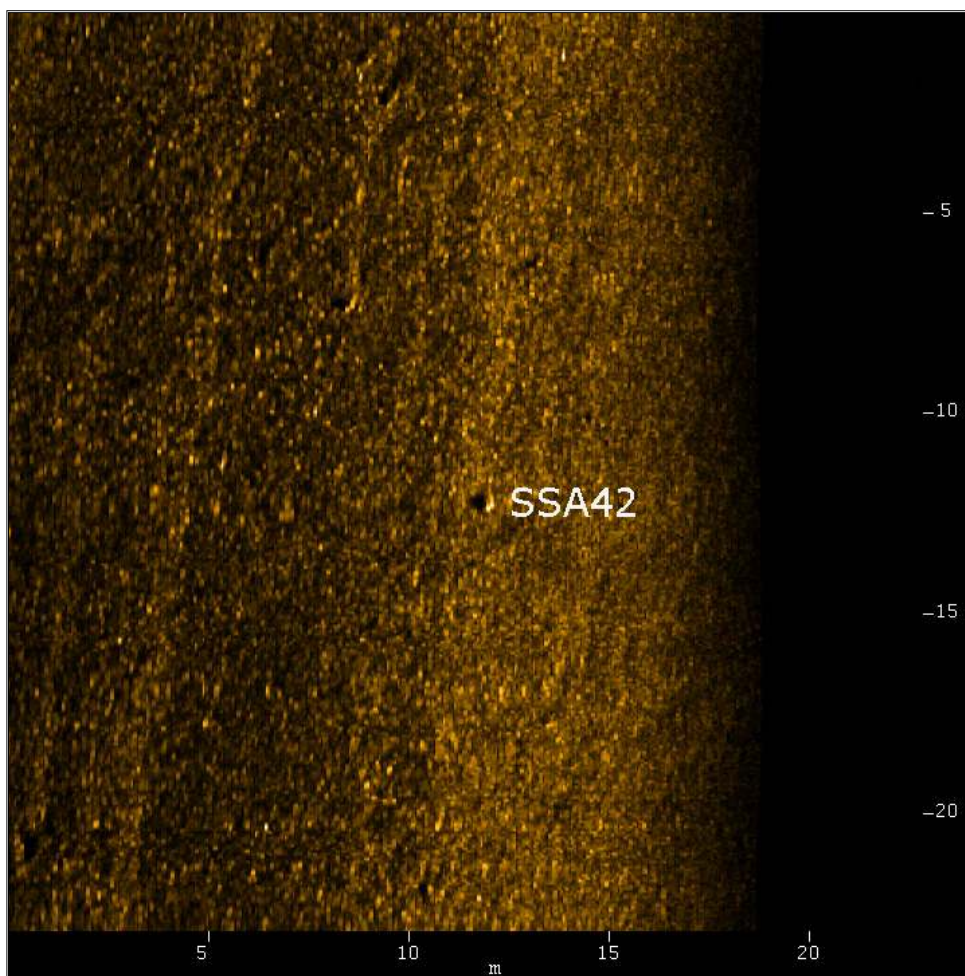
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA42

**Contact Info: SSA42**

- Sonar Time at Target: 09/24/2011 18:34:09
- Click Position (Lat/Lon Coordinates)
50.6881752014 -0.3414370120 (WGS84)
- Click Position (Projected Coordinates)
(X) 687784.69 (Y) 5618521.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924183400.xtf
- Ping Number: 827420
- Range to Target: 11.77 Meters
- Fish Height: 5.04 Meters
- Heading: 274.100 degrees
- Event Number: 0
- Line Name: C11030_110924183400

User Entered Info

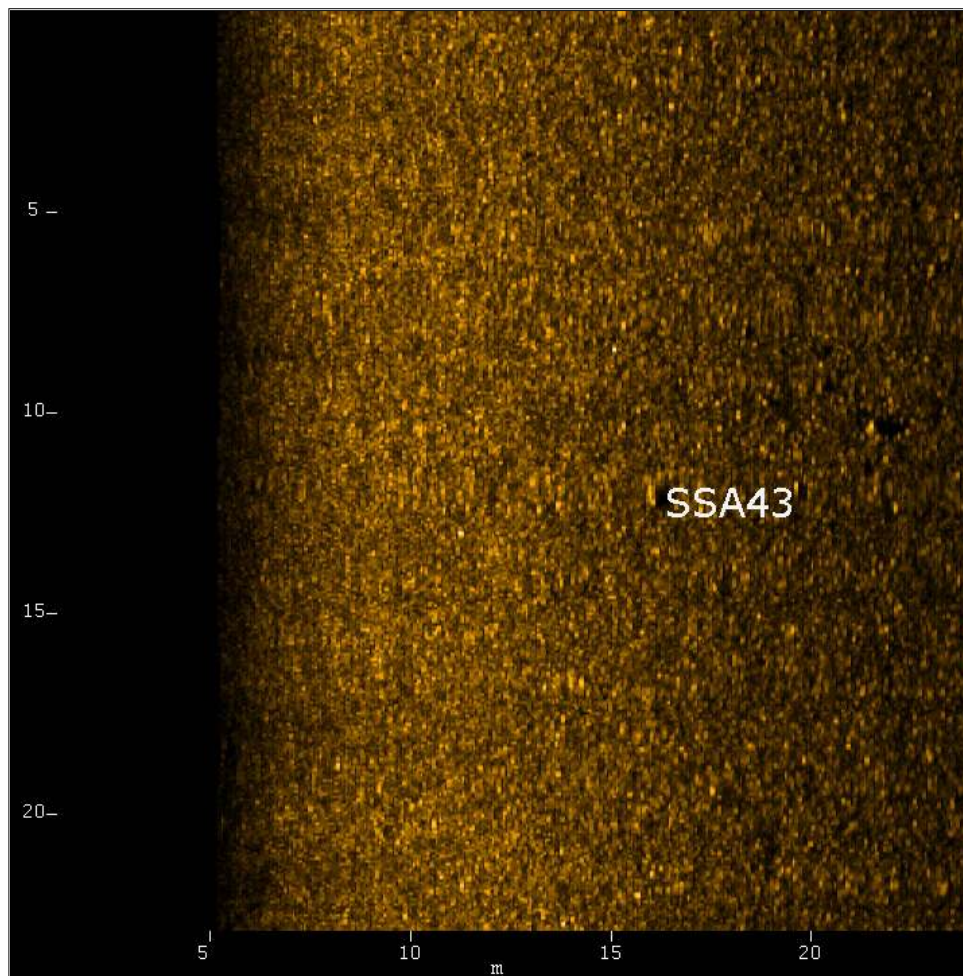
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

RAmpion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA43

**Contact Info: SSA43**

- Sonar Time at Target: 09/24/2011 18:35:13
- Click Position (Lat/Lon Coordinates)
50.6880493164 -0.3432109952 (WGS84)
- Click Position (Projected Coordinates)
(X) 687659.88 (Y) 5618503.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924183400.xtf
- Ping Number: 829301
- Range to Target: 15.80 Meters
- Fish Height: 5.28 Meters
- Heading: 270.300 degrees
- Event Number: 0
- Line Name: C11030_110924183400

User Entered Info

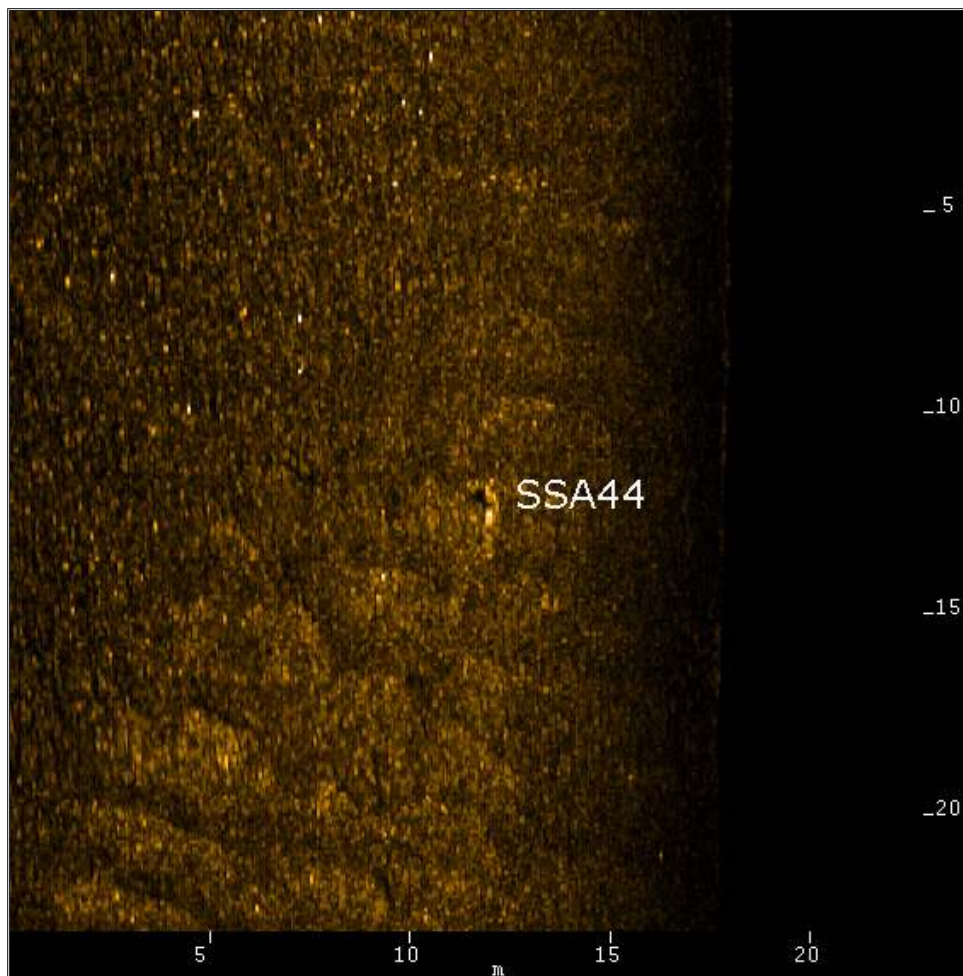
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA44

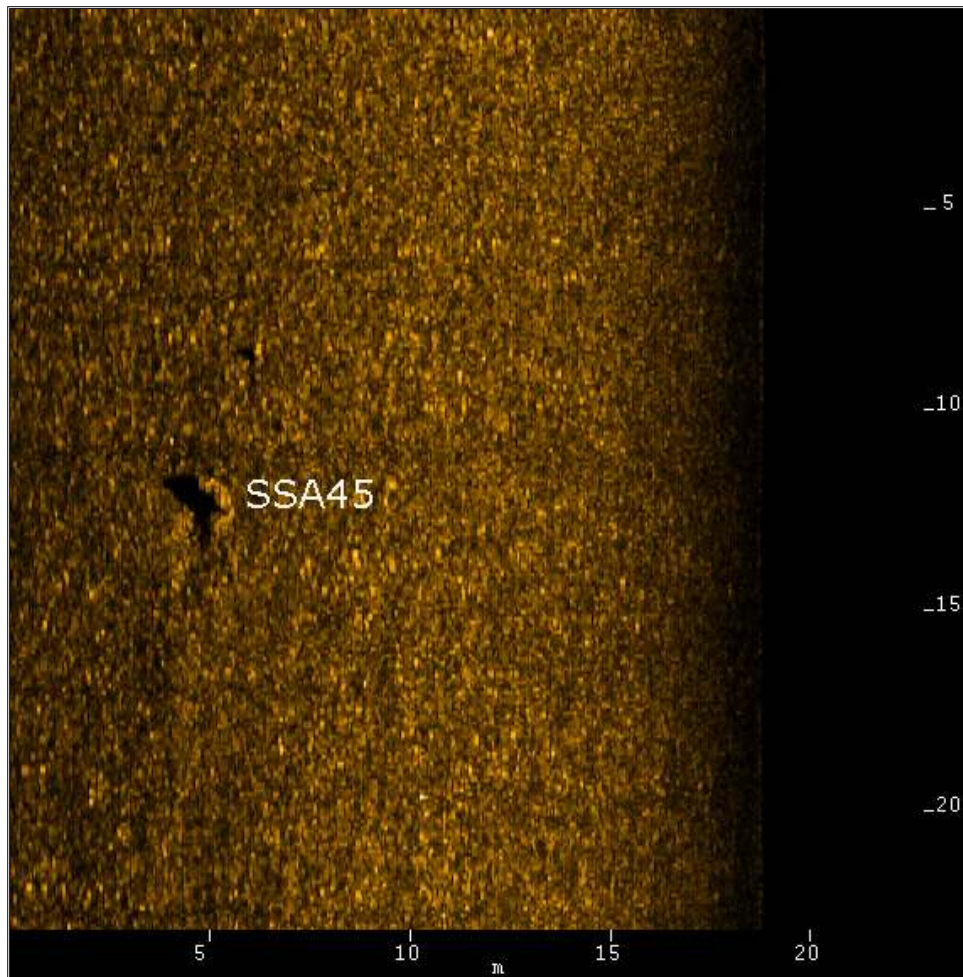
**Contact Info: SSA44**

- Sonar Time at Target: 09/24/2011 18:42:24
- Click Position (Lat/Lon Coordinates)
50.6884880066 -0.3445700109 (WGS84)
- Click Position (Projected Coordinates)
(X) 687562.19 (Y) 5618548.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924184200.xtf
- Ping Number: 841838
- Range to Target: 11.48 Meters
- Fish Height: 5.66 Meters
- Heading: 73.500 degrees
- Event Number: 0
- Line Name: C11030_110924184200

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

SSA45

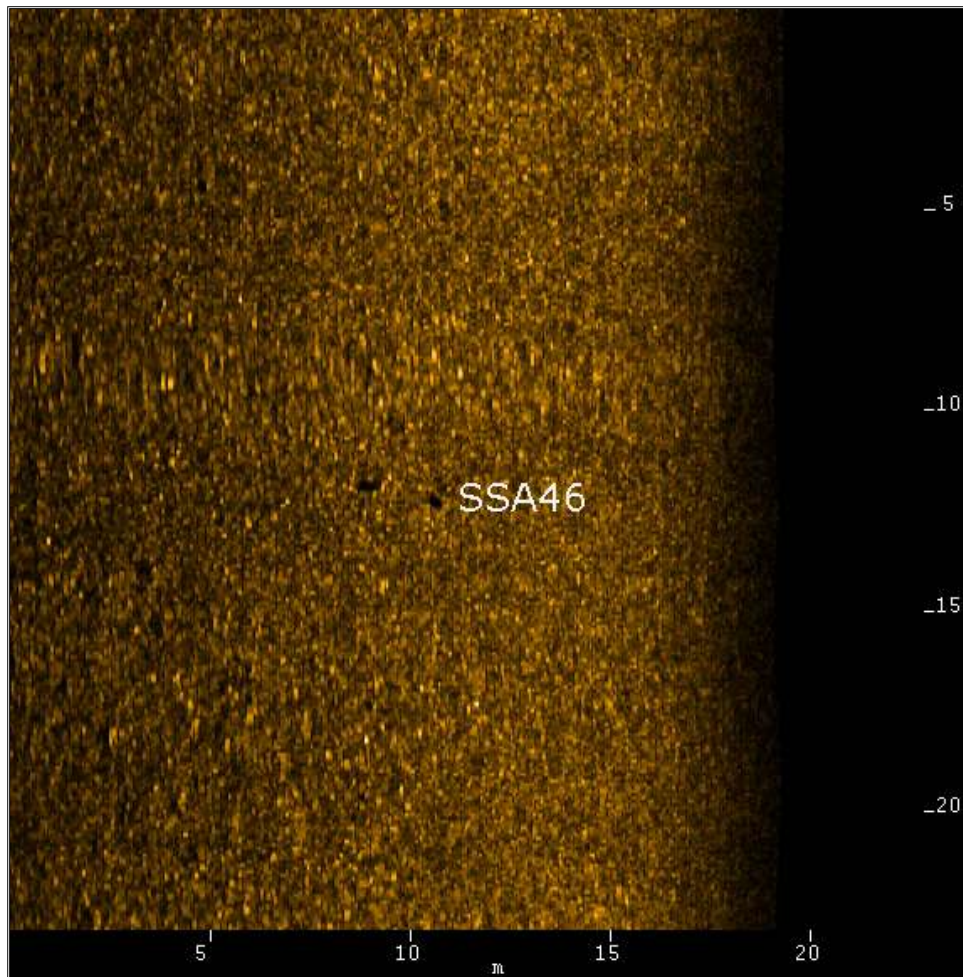
**Contact Info: SSA45**

- Sonar Time at Target: 09/24/2011 18:45:07
- Click Position (Lat/Lon Coordinates)
50.6897163391 -0.3392060101 (WGS84)
- Click Position (Projected Coordinates)
(X) 687936.06 (Y) 5618699.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924184200.xtf
- Ping Number: 846599
- Range to Target: 18.70 Meters
- Fish Height: 5.27 Meters
- Heading: 63.500 degrees
- Event Number: 0
- Line Name: C11030_110924184200

User Entered Info

Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

SSA46

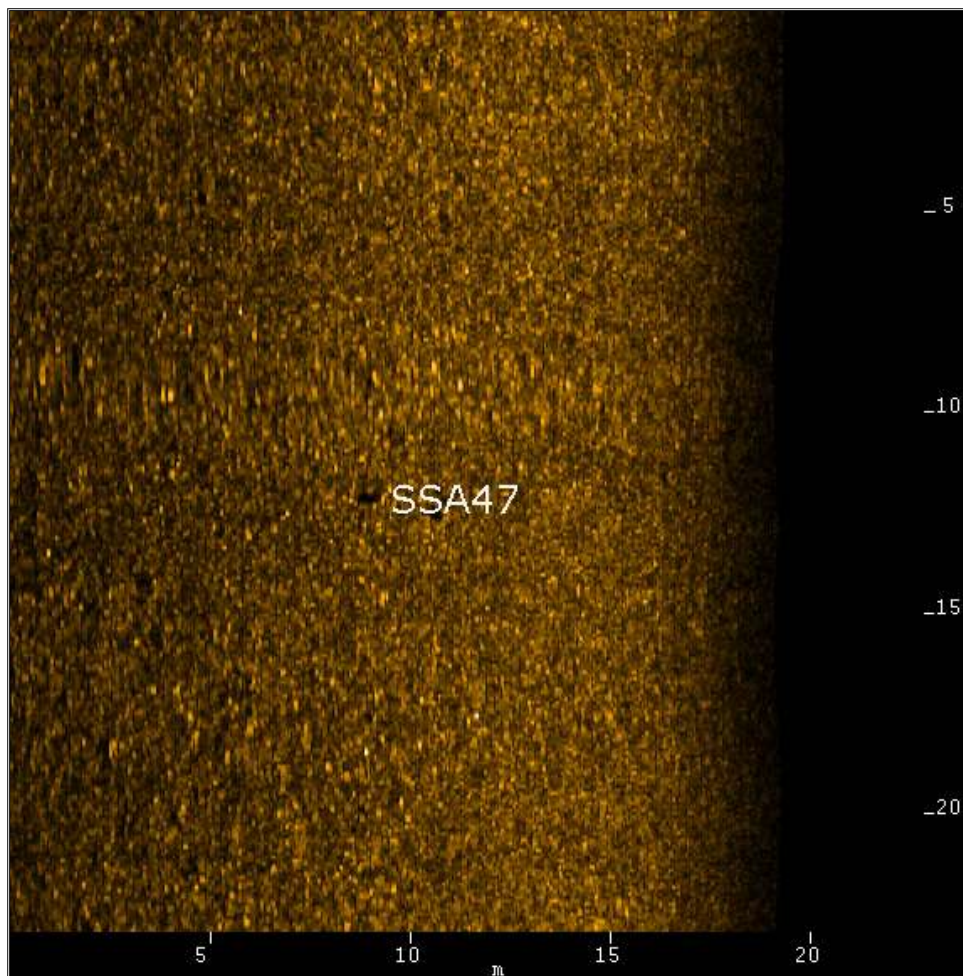
**Contact Info: SSA46**

- Sonar Time at Target: 09/24/2011 18:44:40
- Click Position (Lat/Lon Coordinates)
50.6895065308 -0.3400979936 (WGS84)
- Click Position (Projected Coordinates)
(X) 687873.94 (Y) 5618673.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924184200.xtf
- Ping Number: 845807
- Range to Target: 13.41 Meters
- Fish Height: 4.87 Meters
- Heading: 58.600 degrees
- Event Number: 0
- Line Name: C11030_110924184200

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with another directly adjacent

SSA47

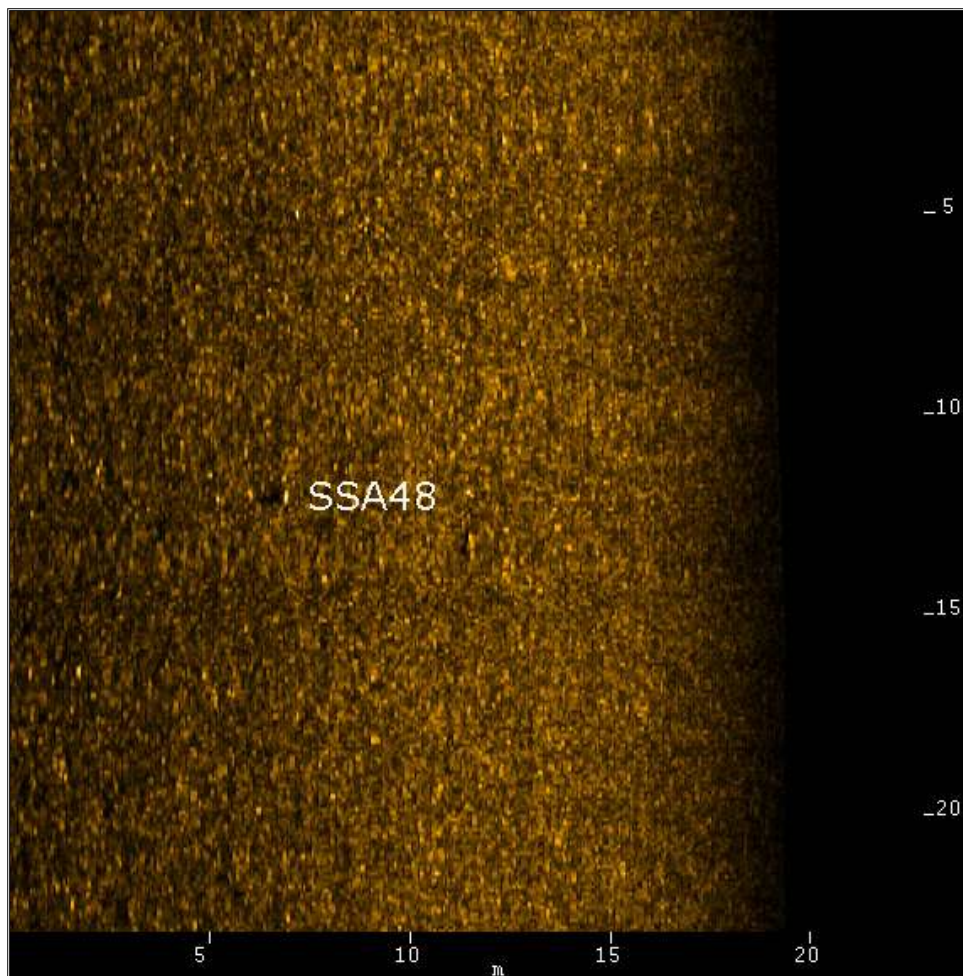
**Contact Info: SSA47**

- Sonar Time at Target: 09/24/2011 18:44:40
- Click Position (Lat/Lon Coordinates)
50.6895217896 -0.3401080072 (WGS84)
- Click Position (Projected Coordinates)
(X) 687873.13 (Y) 5618674.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924184200.xtf
- Ping Number: 845804
- Range to Target: 15.09 Meters
- Fish Height: 4.88 Meters
- Heading: 58.200 degrees
- Event Number: 0
- Line Name: C11030_110924184200

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder adjacent to SSA46

SSA48

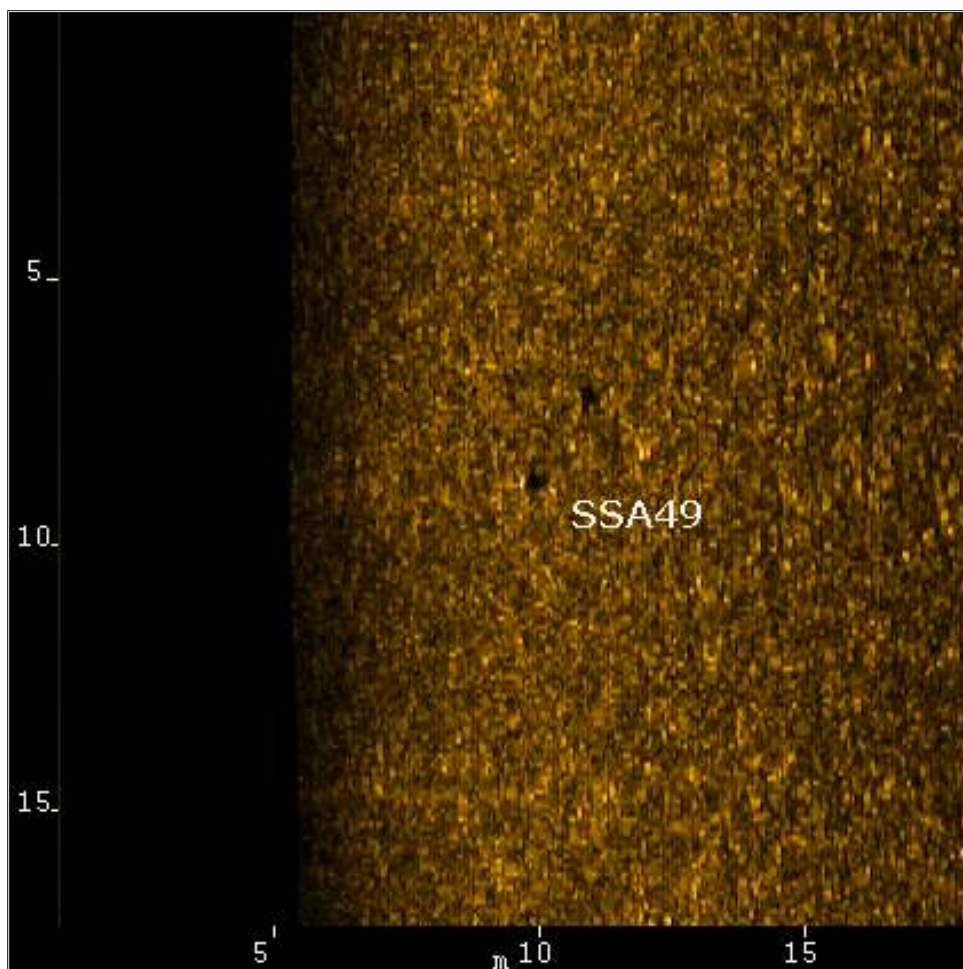
**Contact Info: SSA48**

- Sonar Time at Target: 09/24/2011 18:44:19
- Click Position (Lat/Lon Coordinates)
50.6894035339 -0.3408269882 (WGS84)
- Click Position (Projected Coordinates)
(X) 687822.88 (Y) 5618660.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924184200.xtf
- Ping Number: 845187
- Range to Target: 17.16 Meters
- Fish Height: 4.76 Meters
- Heading: 57.600 degrees
- Event Number: 0
- Line Name: C11030_110924184200

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA49

**Contact Info: SSA49**

- Sonar Time at Target: 09/24/2011 18:43:59
- Click Position (Lat/Lon Coordinates)
50.6890335083 -0.3413549960 (WGS84)
- Click Position (Projected Coordinates)
(X) 687787.06 (Y) 5618617.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924184200.xtf
- Ping Number: 844615
- Range to Target: 9.41 Meters
- Fish Height: 4.63 Meters
- Heading: 59.800 degrees
- Event Number: 0
- Line Name: C11030_110924184200

User Entered Info

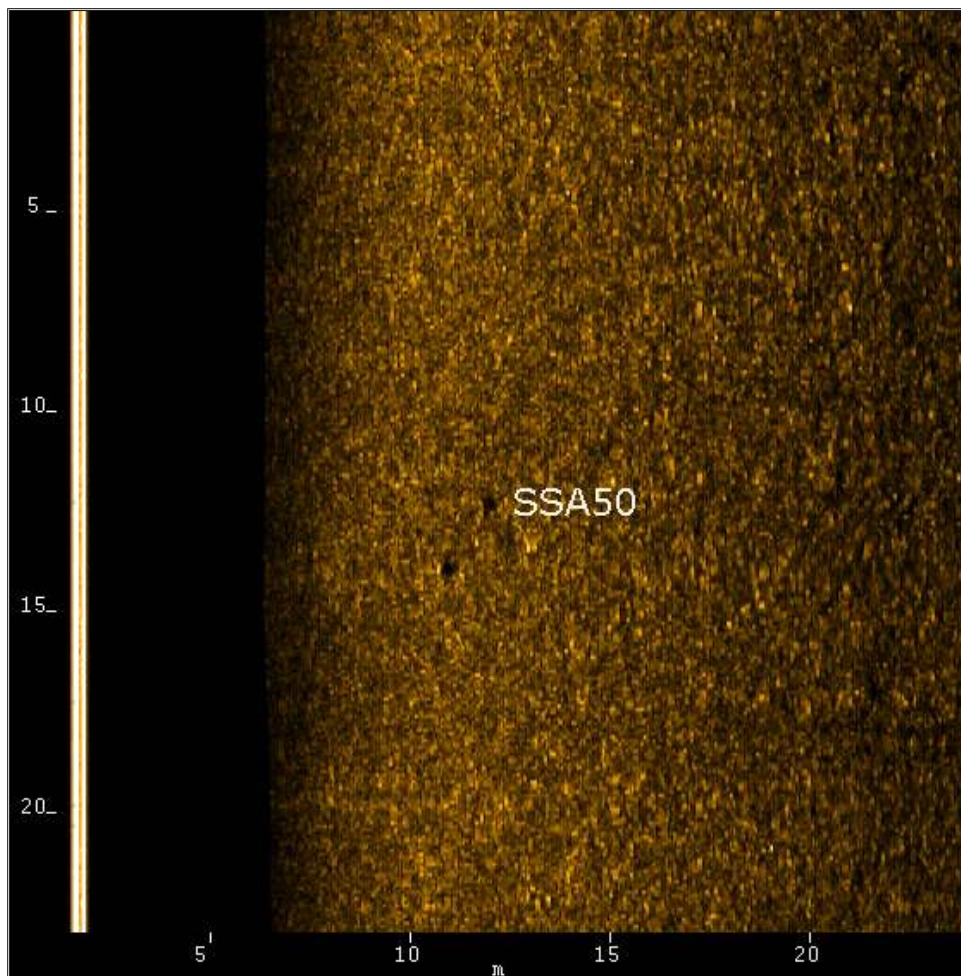
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA50

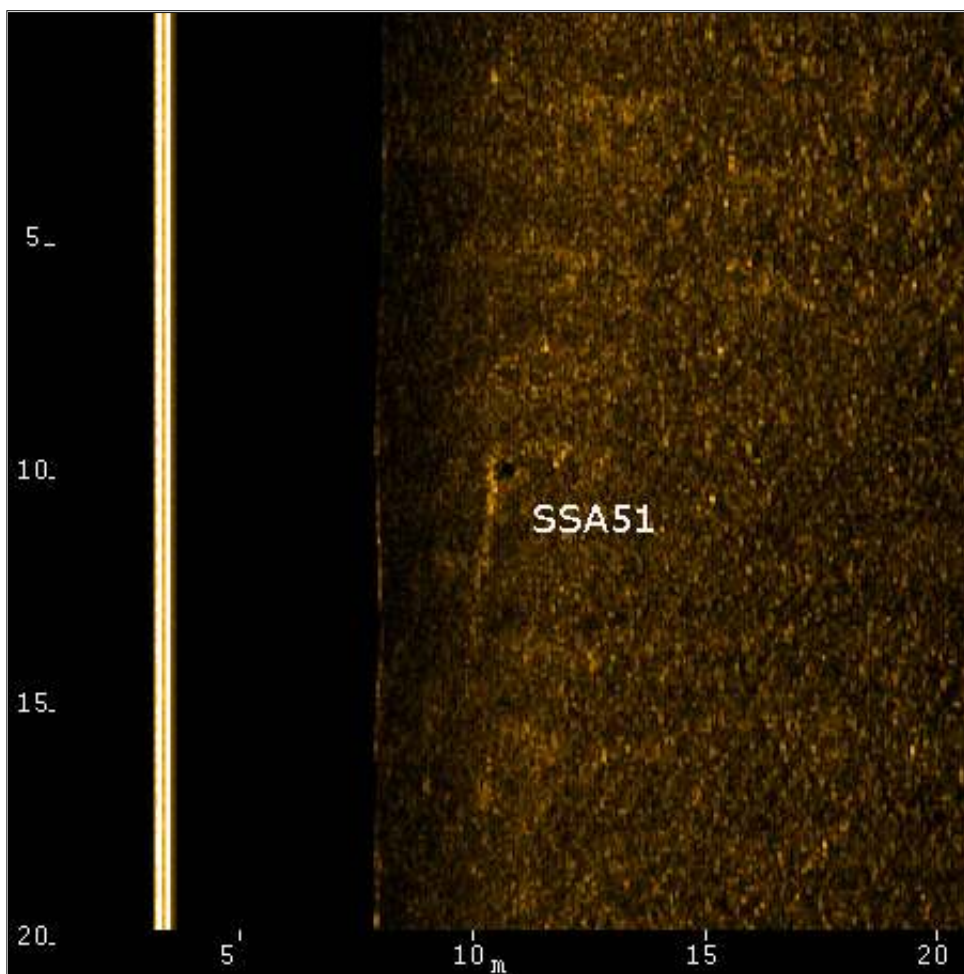
**Contact Info: SSA50**

- Sonar Time at Target: 09/24/2011 18:43:58
- Click Position (Lat/Lon Coordinates)
50.6890220642 -0.3413699865 (WGS84)
- Click Position (Projected Coordinates)
(X) 687786.00 (Y) 5618616.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924184200.xtf
- Ping Number: 844596
- Range to Target: 10.22 Meters
- Fish Height: 4.72 Meters
- Heading: 62.600 degrees
- Event Number: 0
- Line Name: C11030_110924184200

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder adjacent to SSA49

SSA51

**Contact Info: SSA51**

- Sonar Time at Target: 09/24/2011 17:16:56
- Click Position (Lat/Lon Coordinates)
50.6885757446 -0.3446260095 (WGS84)
- Click Position (Projected Coordinates)
(X) 687557.88 (Y) 5618558.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924171600.xtf
- Ping Number: 692481
- Range to Target: 7.36 Meters
- Fish Height: 4.61 Meters
- Heading: 63.700 degrees
- Event Number: 0
- Line Name: C11030_110924171600

User Entered Info

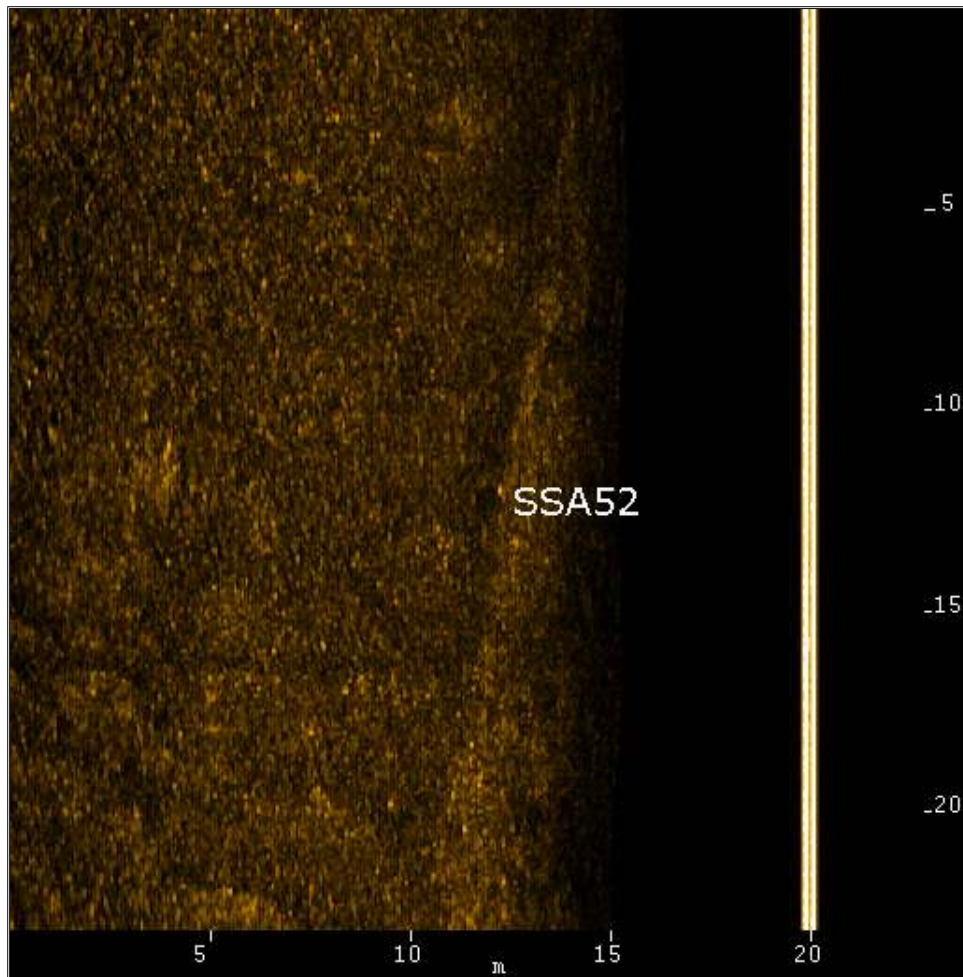
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA52

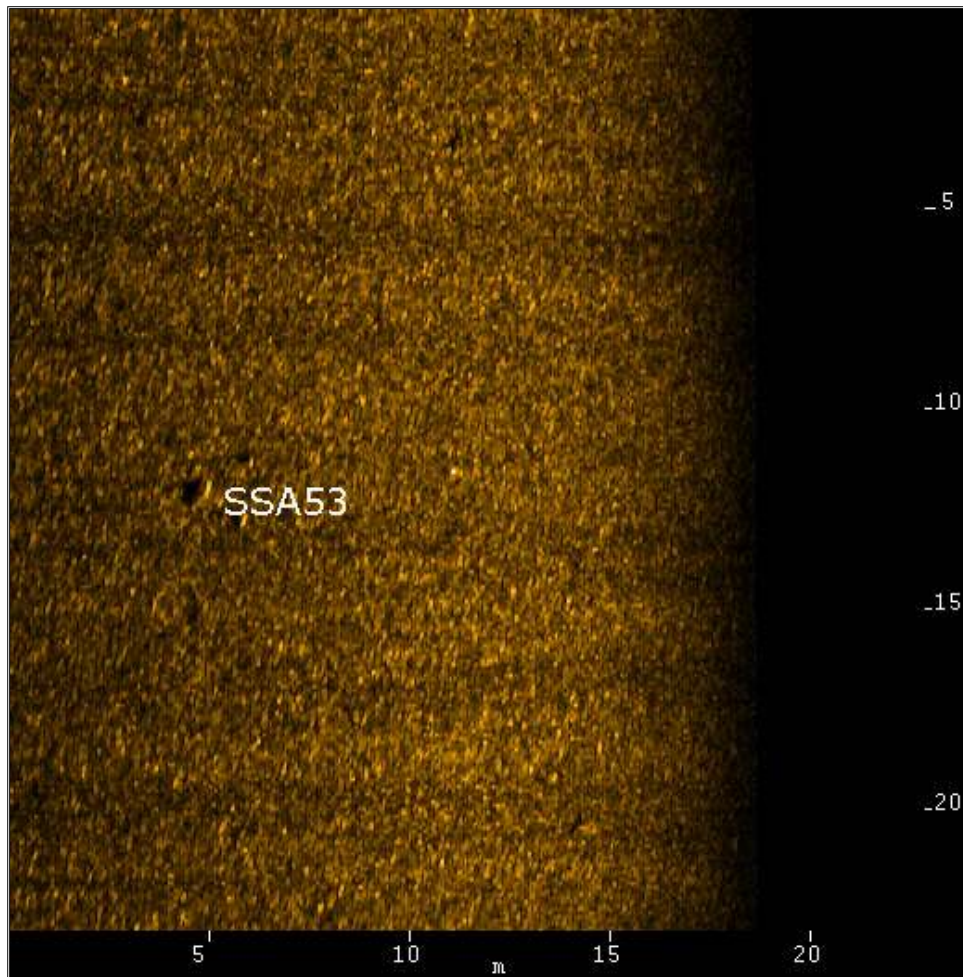
**Contact Info: SSA52**

- Sonar Time at Target: 09/24/2011 17:17:30
- Click Position (Lat/Lon Coordinates)
50.6889305115 -0.3434529901 (WGS84)
- Click Position (Projected Coordinates)
(X) 687639.25 (Y) 5618600.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
- X:\C11030_110924171600.xtf
- Ping Number: 693475
- Range to Target: 8.02 Meters
- Fish Height: 4.88 Meters
- Heading: 64.000 degrees
- Event Number: 0
- Line Name: C11030_110924171600

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Possible Boulder
 Classification 2:
 Area:
 Block:
 Description: Possibel Boulder

SSA53

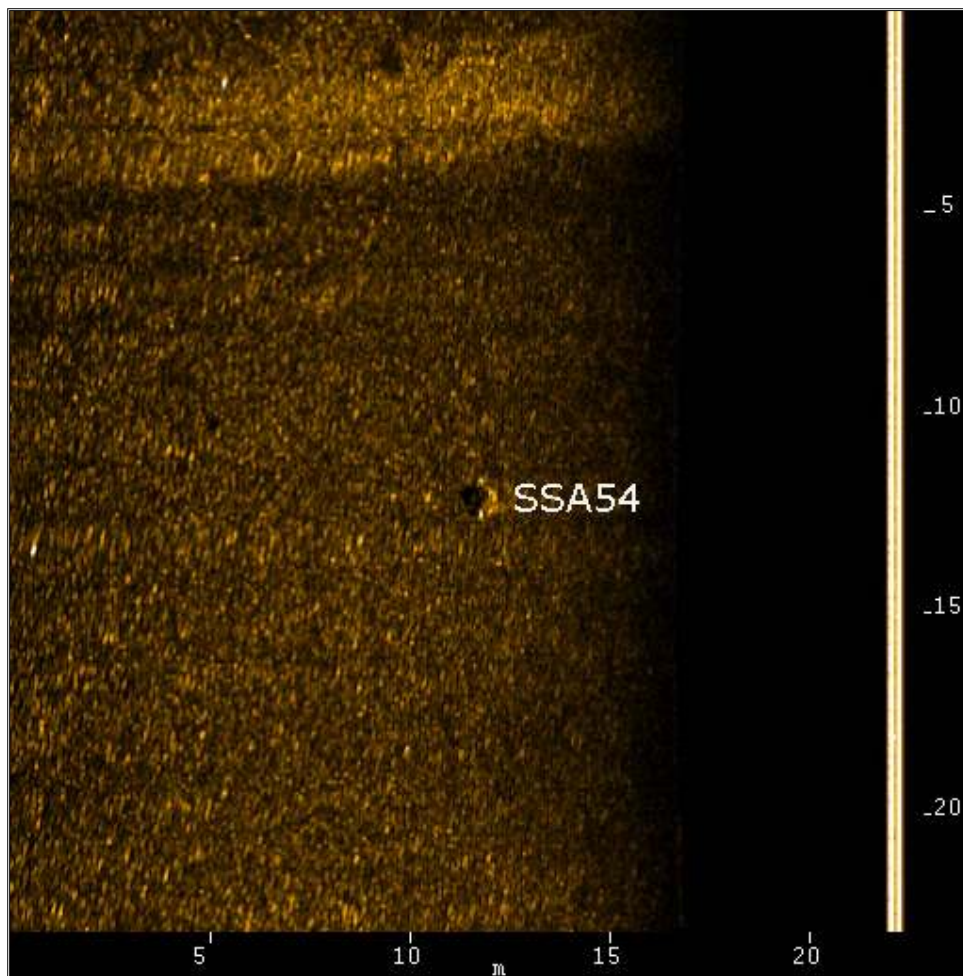
**Contact Info: SSA53**

- Sonar Time at Target: 09/24/2011 17:37:39
- Click Position (Lat/Lon Coordinates)
50.6870079041 -0.3434590101 (WGS84)
- Click Position (Projected Coordinates)
(X) 687646.56 (Y) 5618386.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924173700.xtf
- Ping Number: 728691
- Range to Target: 19.22 Meters
- Fish Height: 5.41 Meters
- Heading: 340.300 degrees
- Event Number: 0
- Line Name: C11030_110924173700

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable boulder associated with adjacent boulder cluster

SSA54

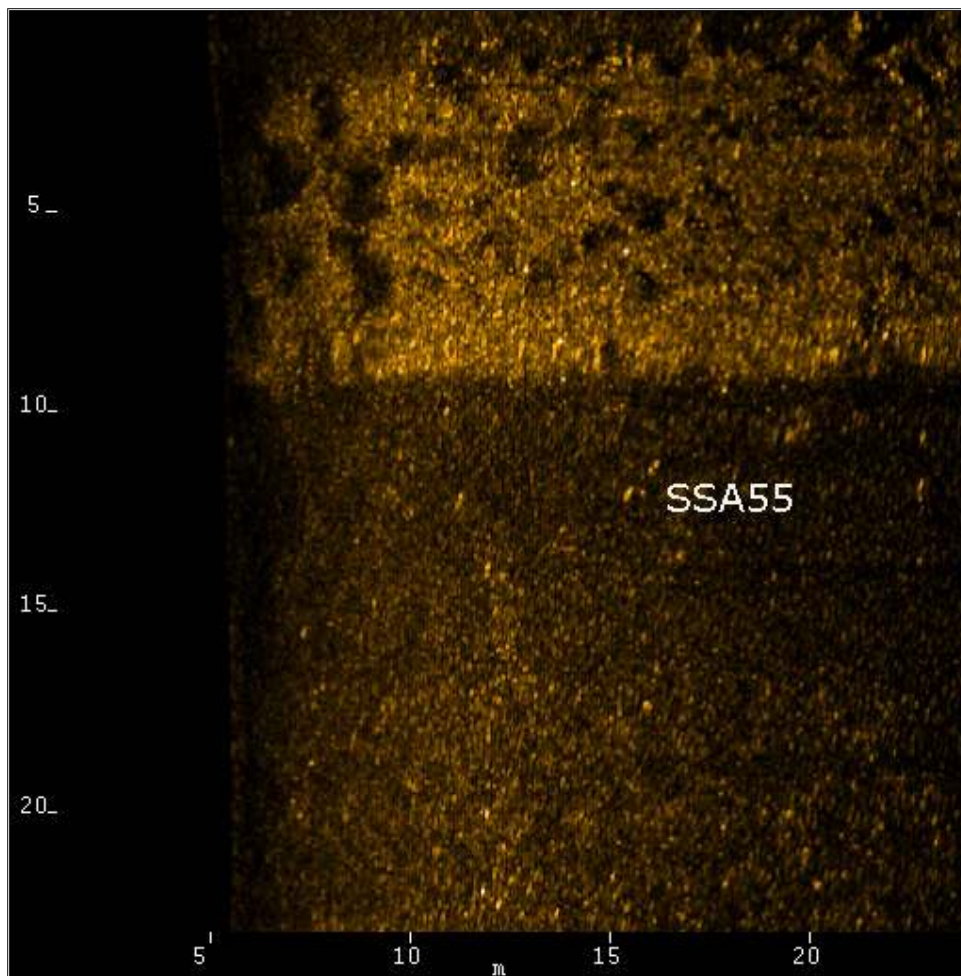
**Contact Info: SSA54**

- Sonar Time at Target: 09/24/2011 17:38:22
- Click Position (Lat/Lon Coordinates)
50.6880683899 -0.3437440097 (WGS84)
- Click Position (Projected Coordinates)
(X) 687622.19 (Y) 5618504.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924173700.xtf
- Ping Number: 729952
- Range to Target: 10.13 Meters
- Fish Height: 5.54 Meters
- Heading: 332.500 degrees
- Event Number: 0
- Line Name: C11030_110924173700

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA55

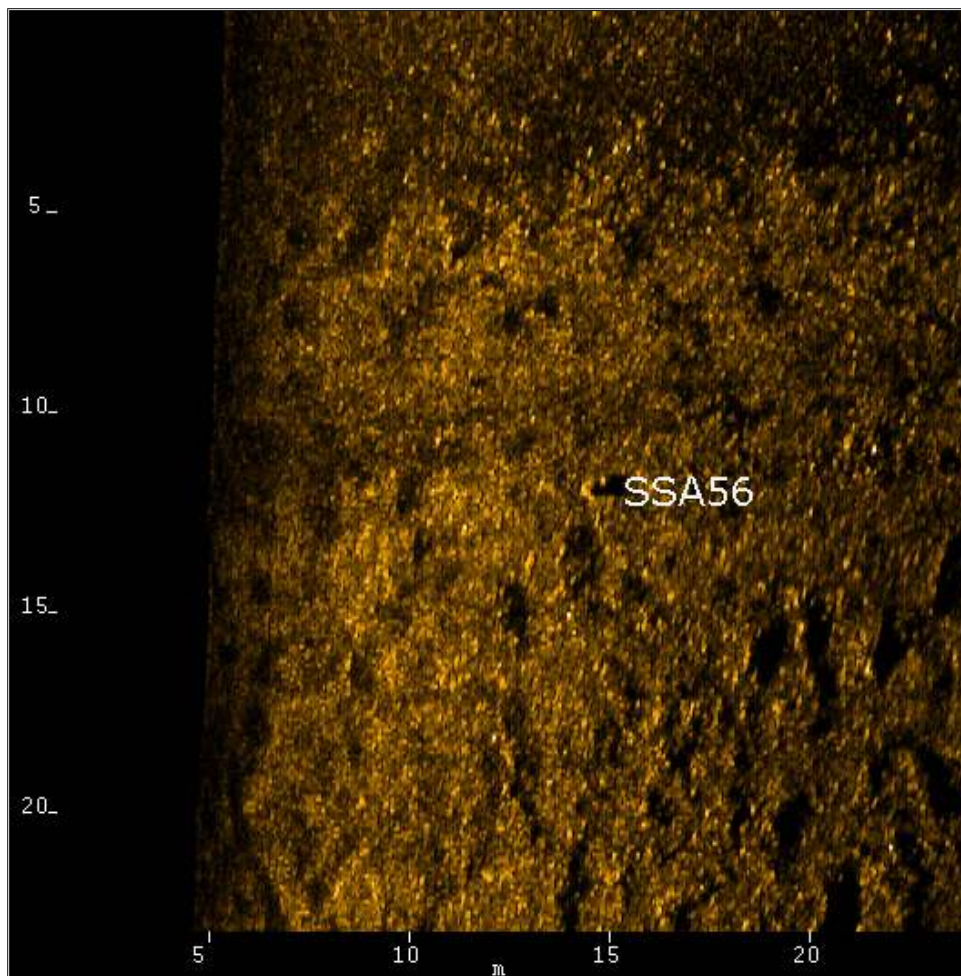
**Contact Info: SSA55**

- Sonar Time at Target: 09/24/2011 17:38:20
- Click Position (Lat/Lon Coordinates)
50.6880645752 -0.3434039950 (WGS84)
- Click Position (Projected Coordinates)
(X) 687646.19 (Y) 5618504.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924173700.xtf
- Ping Number: 729891
- Range to Target: 15.80 Meters
- Fish Height: 5.41 Meters
- Heading: 335.900 degrees
- Event Number: 0
- Line Name: C11030_110924173700

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA56

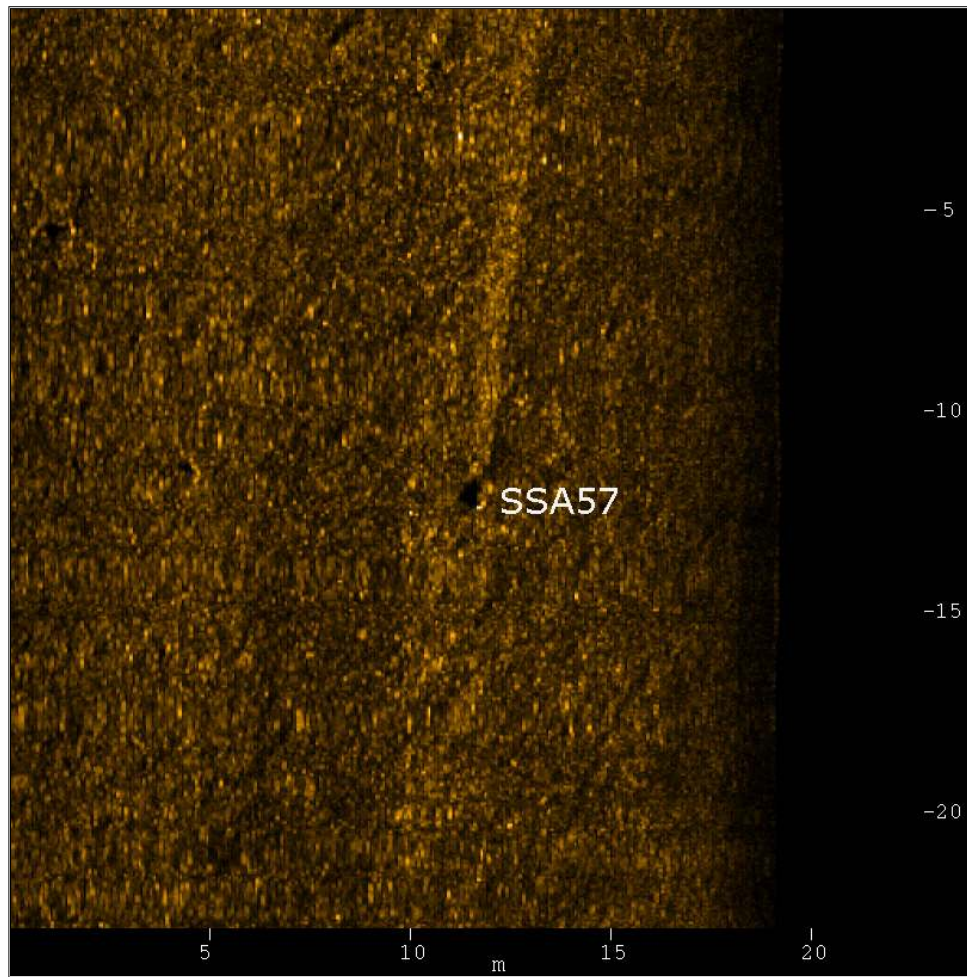
**Contact Info: SSA56**

- Sonar Time at Target: 09/24/2011 17:38:30
- Click Position (Lat/Lon Coordinates)
50.6883049011 -0.3435159922 (WGS84)
- Click Position (Projected Coordinates)
(X) 687637.38 (Y) 5618530.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924173700.xtf
- Ping Number: 730177
- Range to Target: 14.72 Meters
- Fish Height: 5.02 Meters
- Heading: 335.400 degrees
- Event Number: 0
- Line Name: C11030_110924173700

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA57

**Contact Info: SSA57**

- Sonar Time at Target: 09/24/2011 16:48:17
- Click Position (Lat/Lon Coordinates)
50.6880607605 -0.3415189981 (WGS84)
- Click Position (Projected Coordinates)
(X) 687779.38 (Y) 5618508.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924164700.xtf
- Ping Number: 642421
- Range to Target: 12.23 Meters
- Fish Height: 4.83 Meters
- Heading: 274.200 degrees
- Event Number: 0
- Line Name: C11030_110924164700

User Entered Info

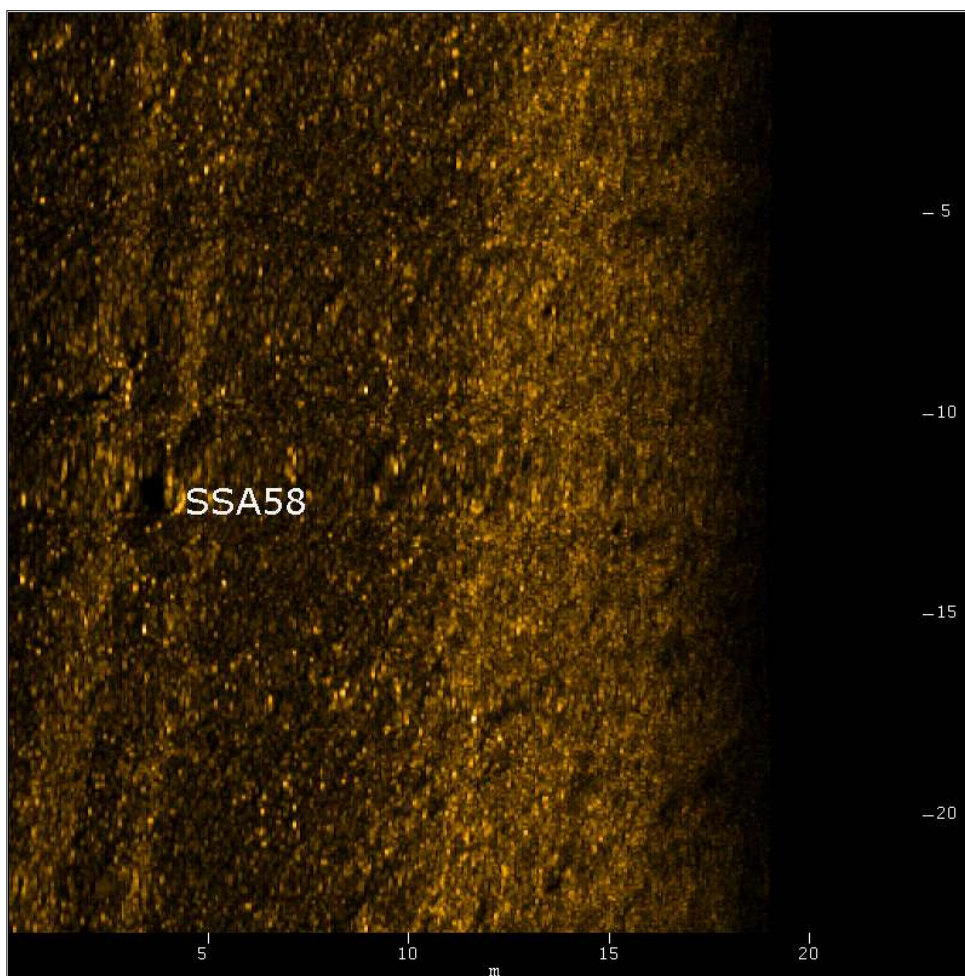
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA58

**Contact Info: SSA58**

- Sonar Time at Target: 09/24/2011 16:49:09
- Click Position (Lat/Lon Coordinates)
50.6877326965 -0.3427309990 (WGS84)
- Click Position (Projected Coordinates)
(X) 687695.06 (Y) 5618469.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924164700.xtf
- Ping Number: 643928
- Range to Target: 20.02 Meters
- Fish Height: 5.13 Meters
- Heading: 272.000 degrees
- Event Number: 0
- Line Name: C11030_110924164700

User Entered Info

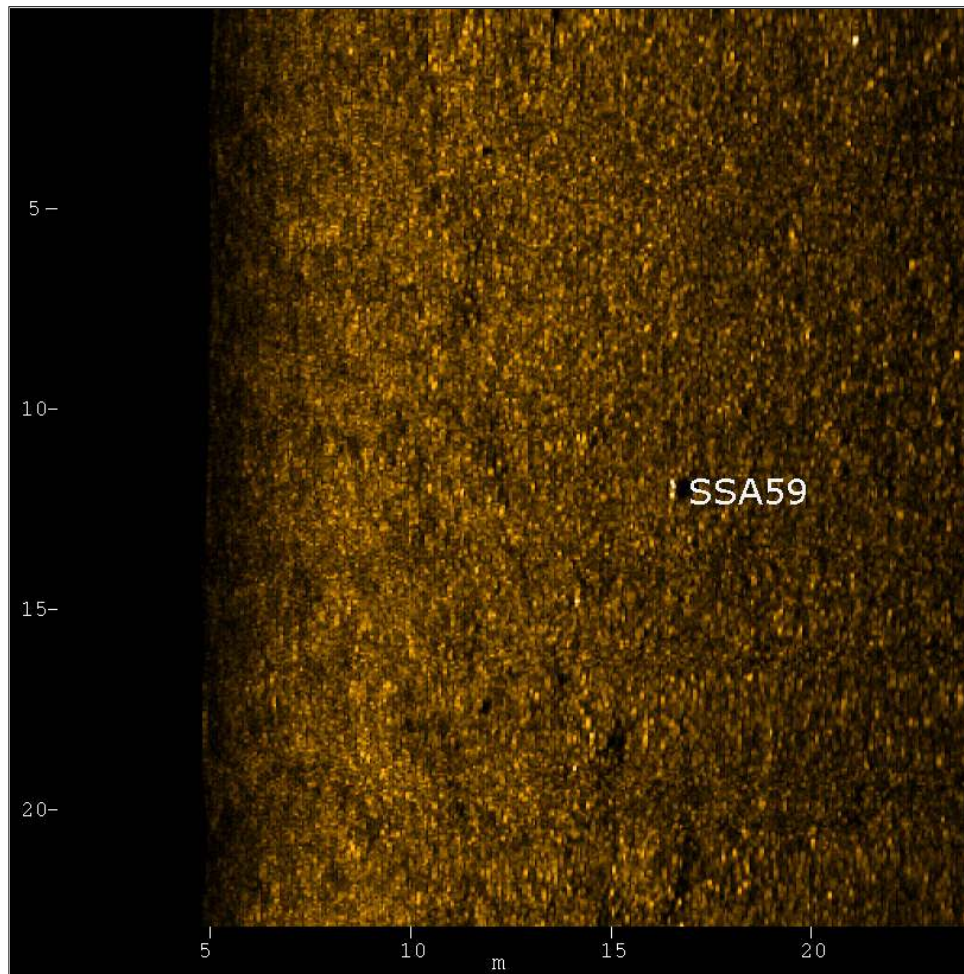
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA59

**Contact Info: SSA59**

- Sonar Time at Target: 09/24/2011 16:49:18
- Click Position (Lat/Lon Coordinates)
50.6879920959 -0.3430820107 (WGS84)
- Click Position (Projected Coordinates)
(X) 687669.25 (Y) 5618497.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924164700.xtf
- Ping Number: 644187
- Range to Target: 16.45 Meters
- Fish Height: 4.94 Meters
- Heading: 278.800 degrees
- Event Number: 0
- Line Name: C11030_110924164700

User Entered Info

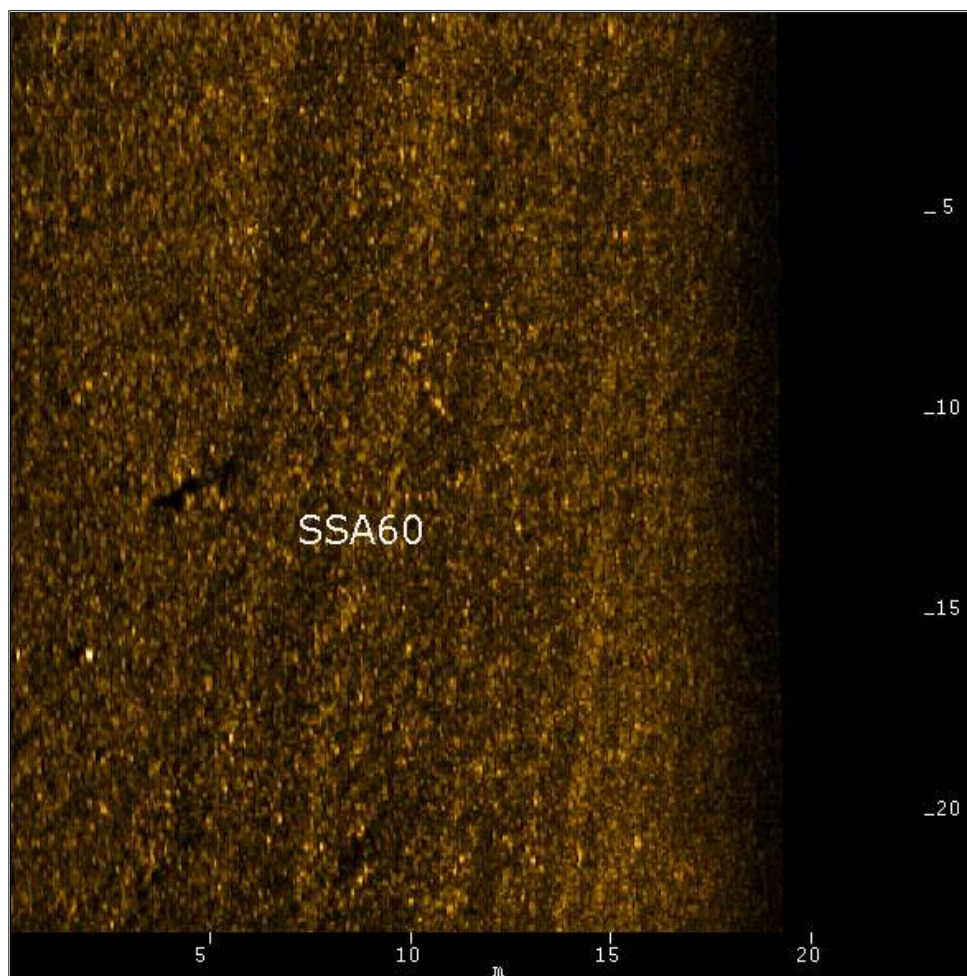
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

RAmpion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA60

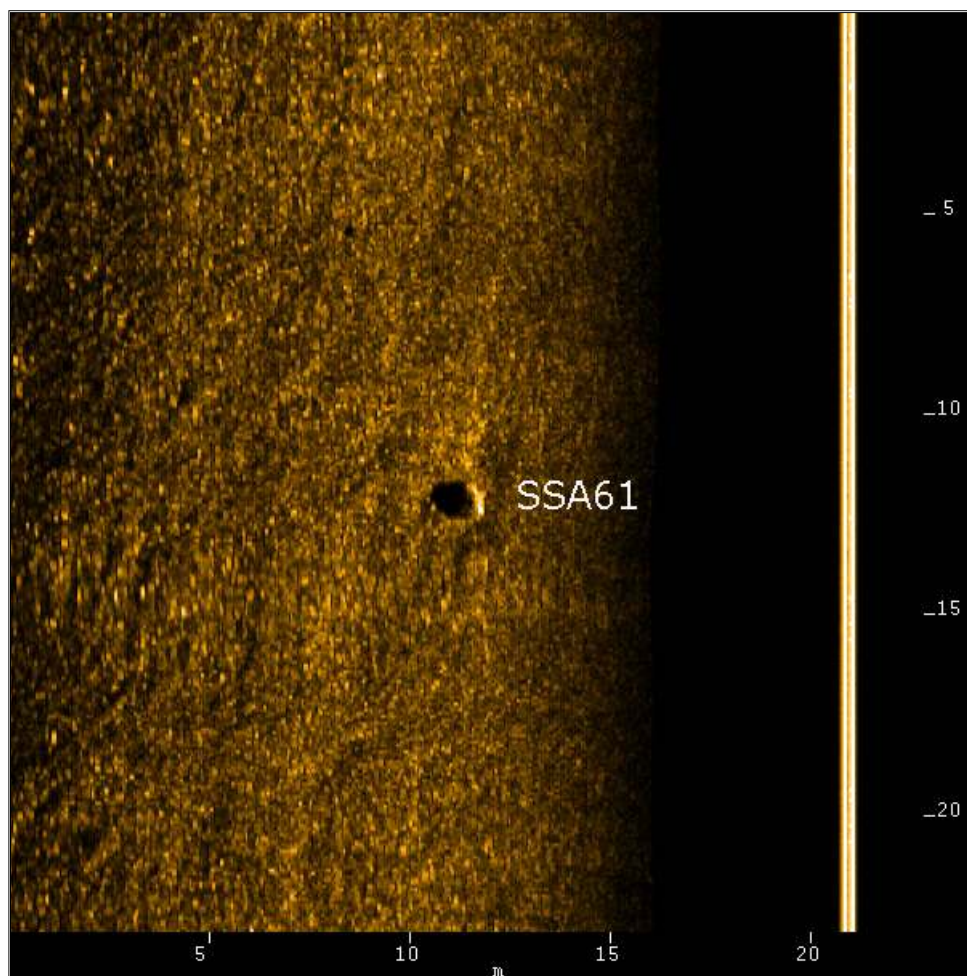
**Contact Info: SSA60**

- Sonar Time at Target: 09/24/2011 11:25:37
- Click Position (Lat/Lon Coordinates)
50.6883087158 -0.3406659961 (WGS84)
- Click Position (Projected Coordinates)
(X) 687838.56 (Y) 5618538.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924112500.xtf
- Ping Number: 78554
- Range to Target: -17.42 Meters
- Fish Height: 4.90 Meters
- Heading: 279.300 degrees
- Event Number: 0
- Line Name: C11030_110924112500

User Entered Info

Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Possible Boulder
 Classification 2:
 Area:
 Block:
 Description: Possibel Boulder, has a scour trail but has angled side

SSA61

**Contact Info: SSA61**

- Sonar Time at Target: 09/24/2011 11:26:05
- Click Position (Lat/Lon Coordinates)
50.6882286072 -0.3415670097 (WGS84)
- Click Position (Projected Coordinates)
(X) 687775.31 (Y) 5618527.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924112500.xtf
- Ping Number: 79347
- Range to Target: 8.95 Meters
- Fish Height: 4.93 Meters
- Heading: 278.000 degrees
- Event Number: 0
- Line Name: C11030_110924112500

User Entered Info

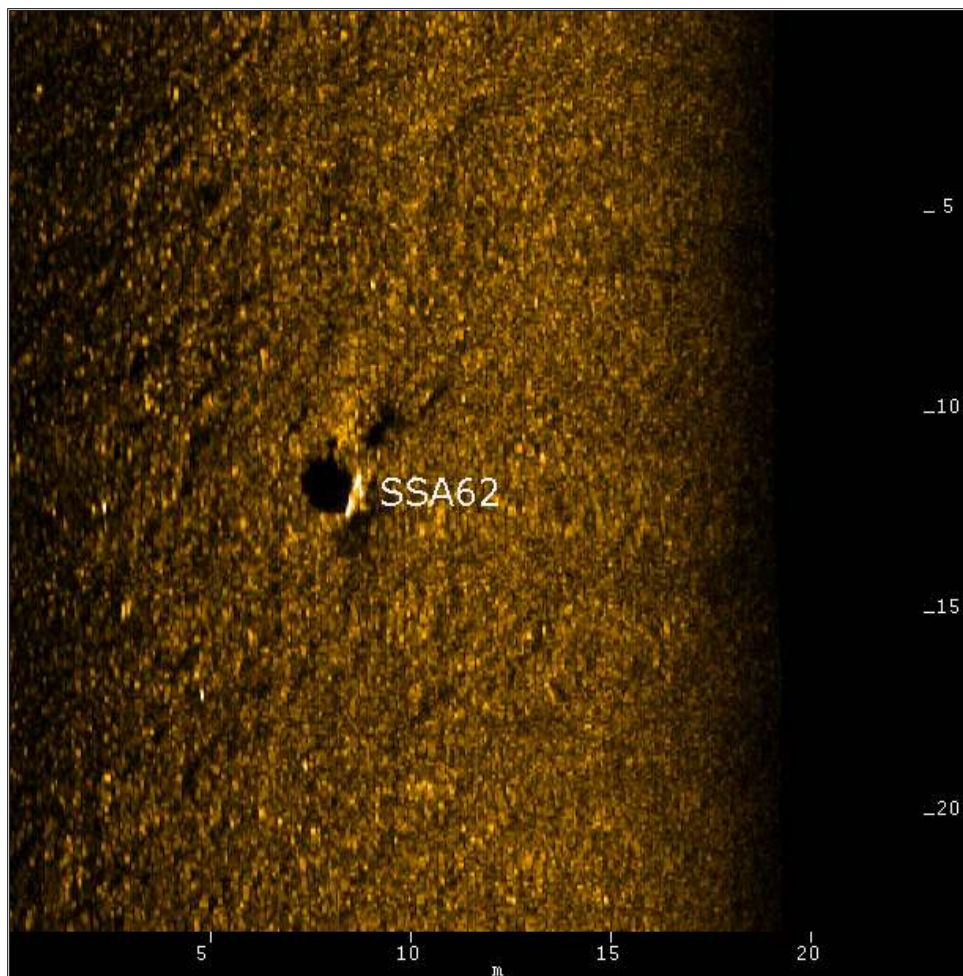
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with well defined shadow

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA62

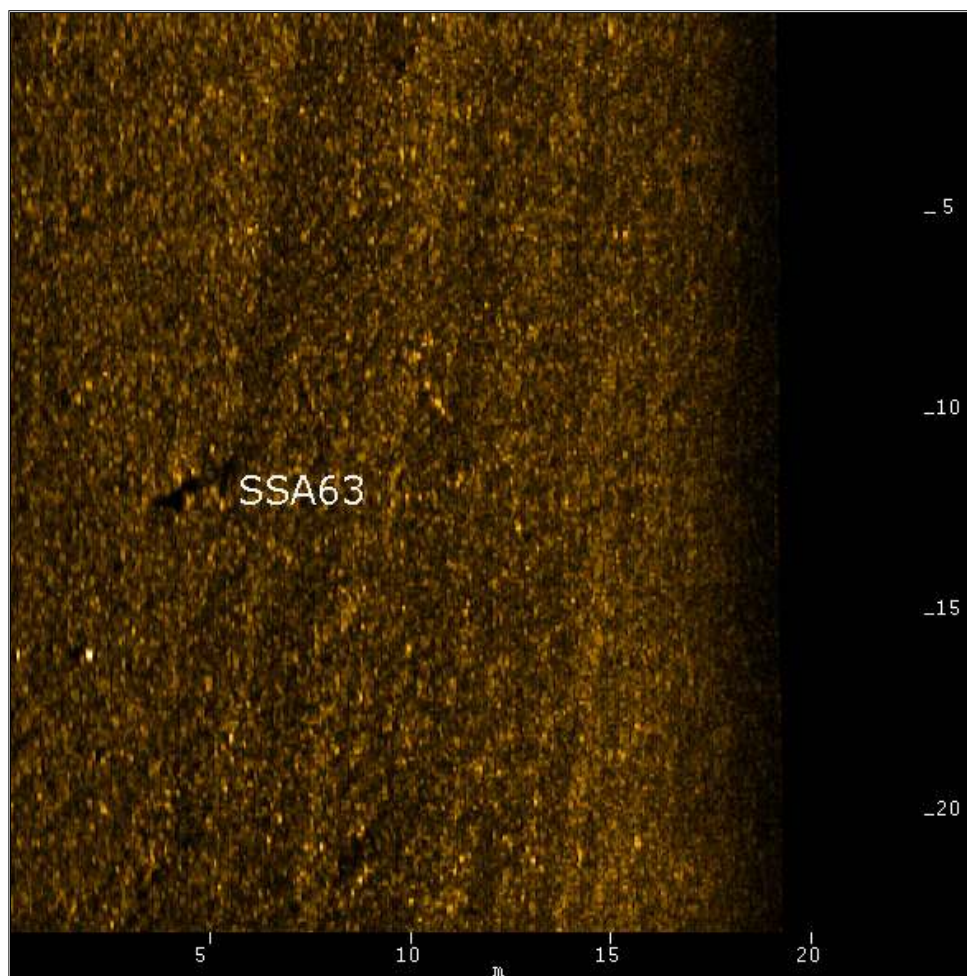
**Contact Info: SSA62**

- Sonar Time at Target: 09/24/2011 11:26:12
- Click Position (Lat/Lon Coordinates)
50.6881179810 -0.3417389989 (WGS84)
- Click Position (Projected Coordinates)
(X) 687763.56 (Y) 5618514.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924112500.xtf
- Ping Number: 79549
- Range to Target: 15.38 Meters
- Fish Height: 5.00 Meters
- Heading: 278.800 degrees
- Event Number: 0
- Line Name: C11030_110924112500

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with rounded profile

SSA63

**Contact Info: SSA63**

- Sonar Time at Target: 09/24/2011 11:25:37
- Click Position (Lat/Lon Coordinates)
50.6882934570 -0.3406679928 (WGS84)
- Click Position (Projected Coordinates)
(X) 687838.50 (Y) 5618537.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924112500.xtf
- Ping Number: 78554
- Range to Target: 18.89 Meters
- Fish Height: 4.90 Meters
- Heading: 279.300 degrees
- Event Number: 0
- Line Name: C11030_110924112500

User Entered Info

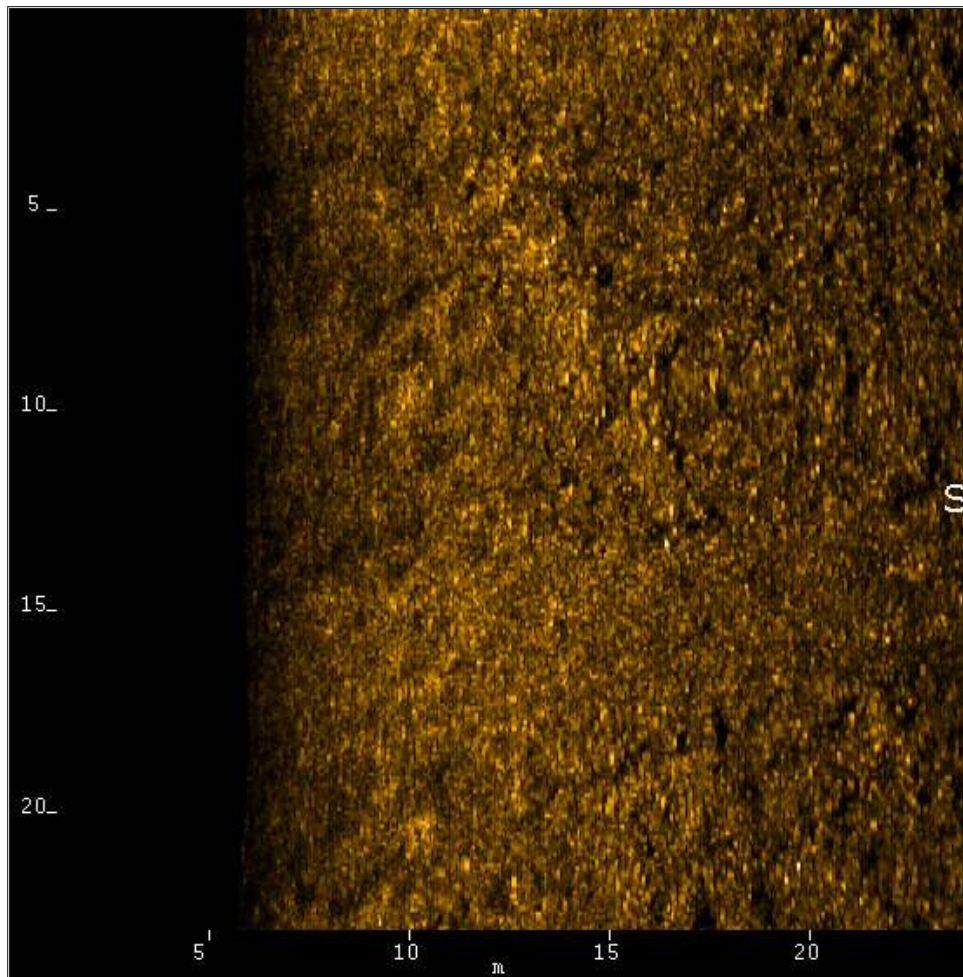
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA65

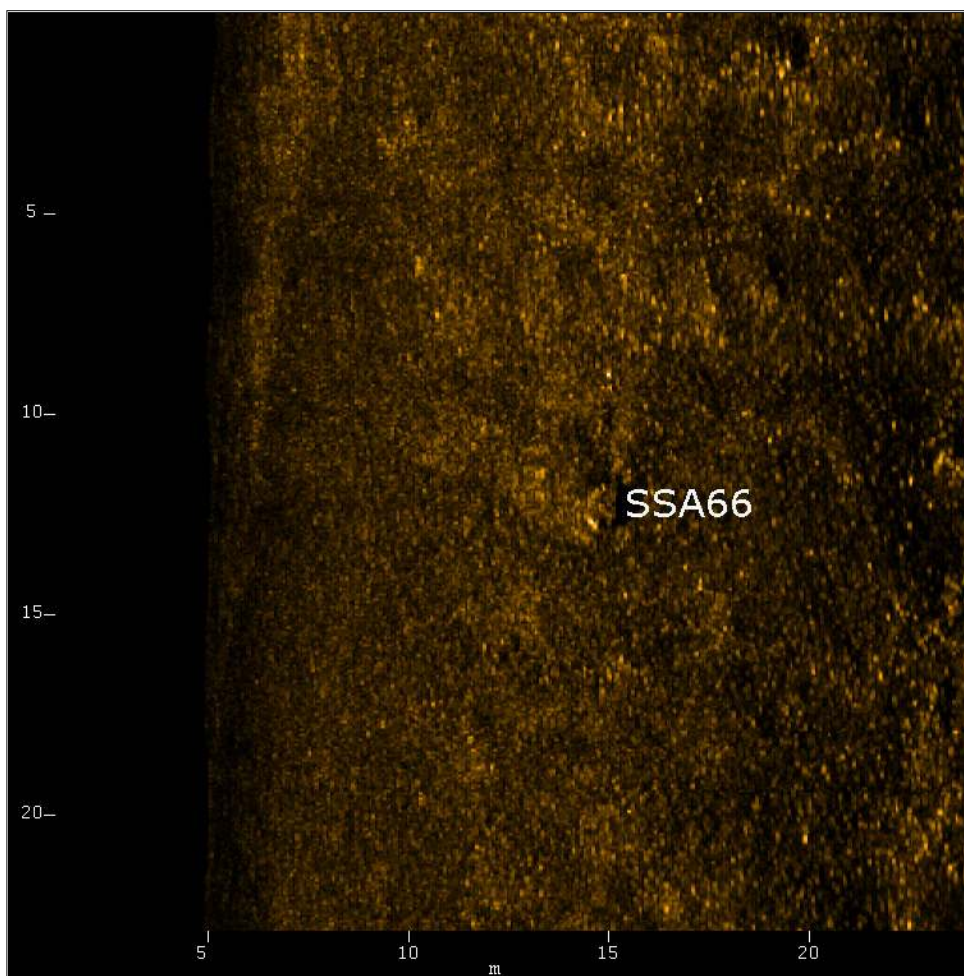
**Contact Info: SSA65**

- Sonar Time at Target: 09/24/2011 18:07:58
- Click Position (Lat/Lon Coordinates)
50.6879997253 -0.3432539999 (WGS84)
- Click Position (Projected Coordinates)
(X) 687657.00 (Y) 5618497.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924180700.xtf
- Ping Number: 781674
- Range to Target: 22.73 Meters
- Fish Height: 5.97 Meters
- Heading: 66.600 degrees
- Event Number: 0
- Line Name: C11030_110924180700

User Entered Info

Target Height: = 0 Meters
 Target Length: 4 Meters
 Target Shadow: 0 Meters
 Target Width: 2 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Indistinguishable
 Classification 2:
 Area:
 Block:
 Description: Indistinguishable, Possible small boulder with
 scour trail. No metallic signature

SSA66

**Contact Info: SSA66**

- Sonar Time at Target: 09/24/2011 14:28:45
- Click Position (Lat/Lon Coordinates)
50.6871643066 -0.3435010016 (WGS84)
- Click Position (Projected Coordinates)
(X) 687643.00 (Y) 5618404.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924142600.xtf
- Ping Number: 398582
- Range to Target: 14.86 Meters
- Fish Height: 5.10 Meters
- Heading: 274.500 degrees
- Event Number: 0
- Line Name: C11030_110924142600

User Entered Info

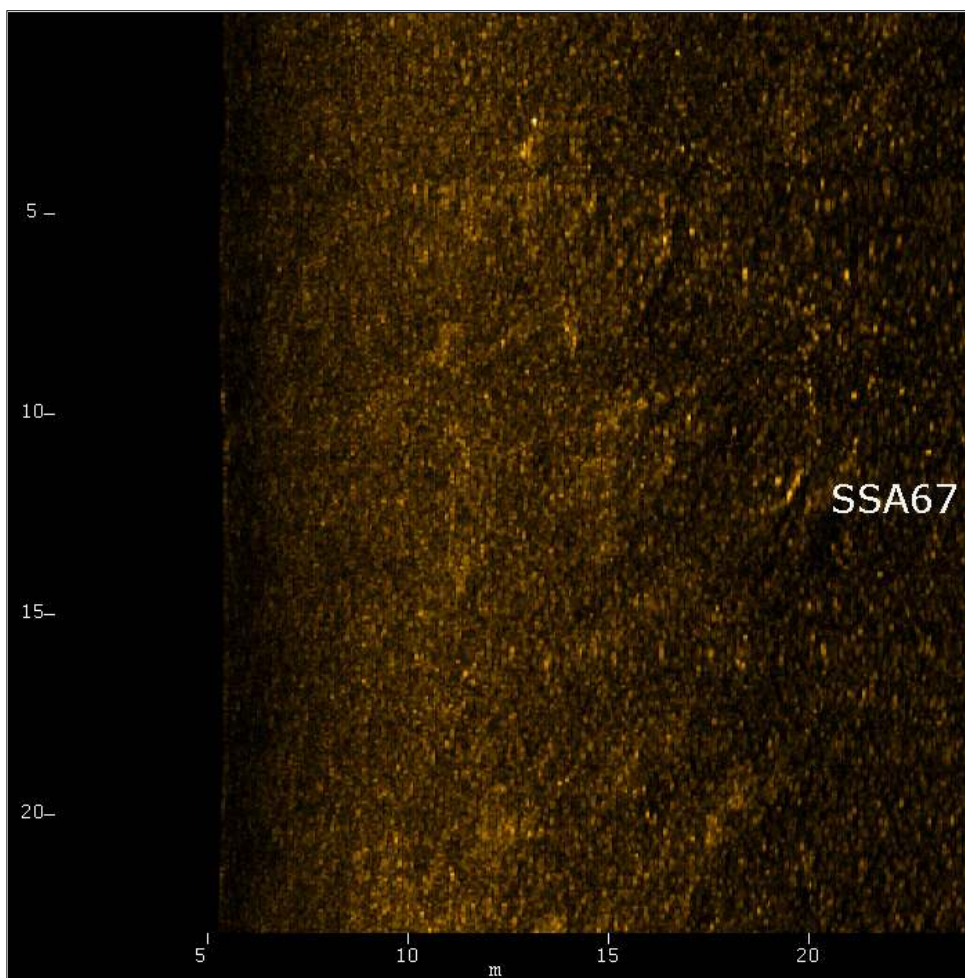
Target Height: = 0 Meters
Target Length: 1 Meters
Target Shadow: 0 Meters
Target Width: 1 Meters
Mag Anomaly:
Avoidance Area:
Classification 1: Probable Boulder
Classification 2:
Area:
Block:
Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA67

**Contact Info: SSA67**

- Sonar Time at Target: 09/24/2011 12:09:53
- Click Position (Lat/Lon Coordinates)
50.6870384216 -0.3440879881 (WGS84)
- Click Position (Projected Coordinates)
(X) 687602.00 (Y) 5618388.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924120900.xtf
- Ping Number: 155894
- Range to Target: 19.97 Meters
- Fish Height: 5.44 Meters
- Heading: 57.900 degrees
- Event Number: 0
- Line Name: C11030_110924120900

User Entered Info

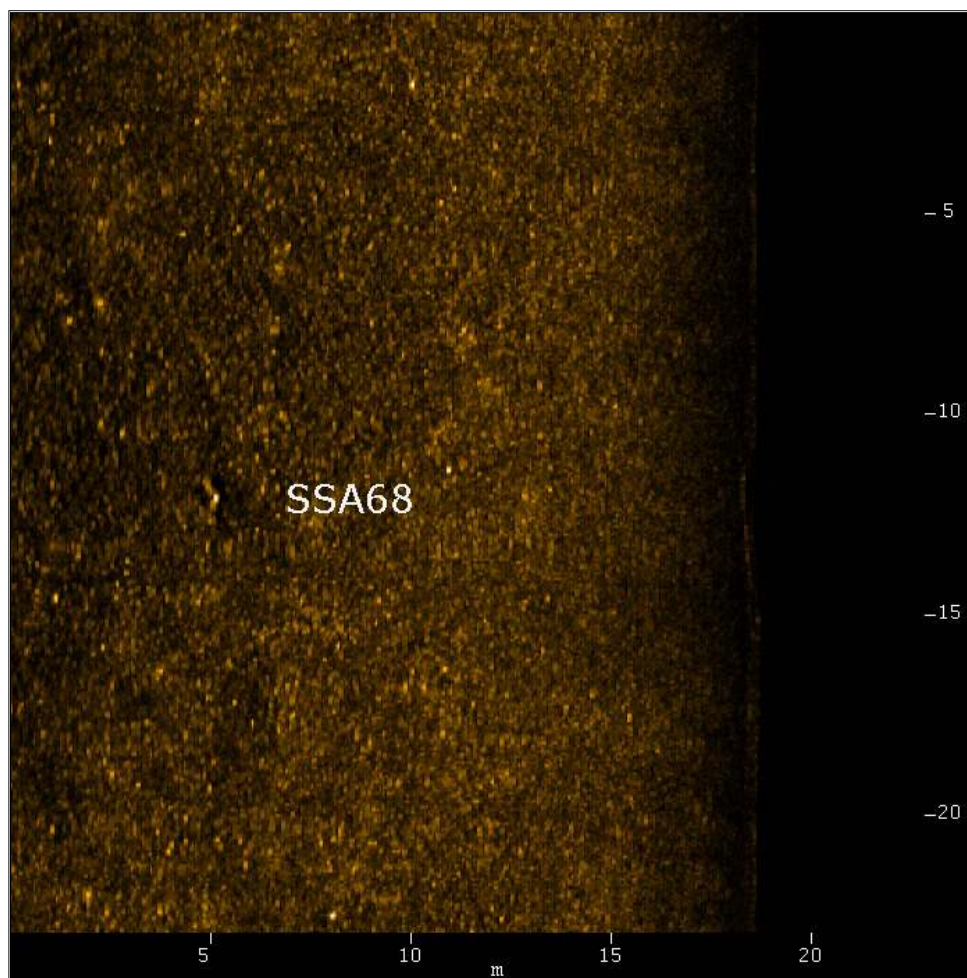
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 1 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA68

**Contact Info: SSA68**

- Sonar Time at Target: 09/24/2011 12:09:48
- Click Position (Lat/Lon Coordinates)
50.6873168945 -0.3443750143 (WGS84)
- Click Position (Projected Coordinates)
(X) 687580.63 (Y) 5618419.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924120900.xtf
- Ping Number: 155759
- Range to Target: 17.63 Meters
- Fish Height: 5.47 Meters
- Heading: 57.300 degrees
- Event Number: 0
- Line Name: C11030_110924120900

User Entered Info

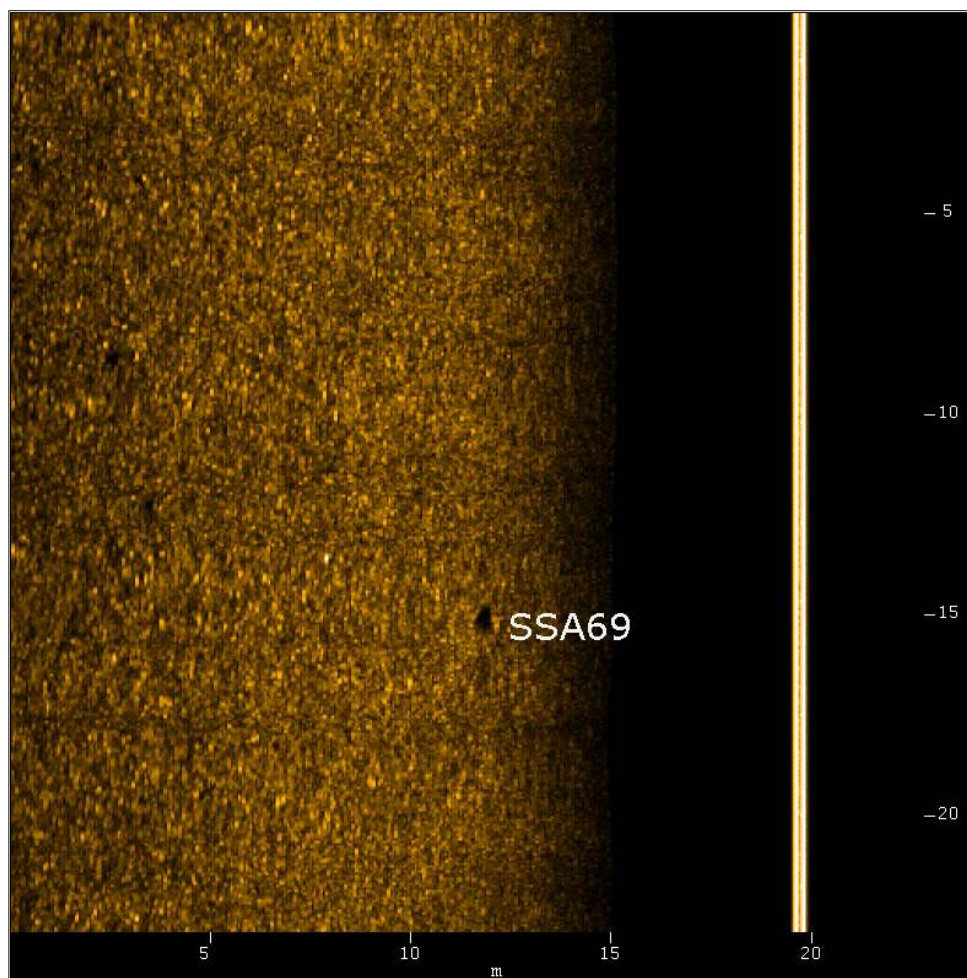
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA69

**Contact Info: SSA69**

- Sonar Time at Target: 09/24/2011 11:40:41
- Click Position (Lat/Lon Coordinates)
50.6878166199 -0.3402140141 (WGS84)
- Click Position (Projected Coordinates)
(X) 687872.44 (Y) 5618484.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104867
- Range to Target: 7.73 Meters
- Fish Height: 4.78 Meters
- Heading: 60.700 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

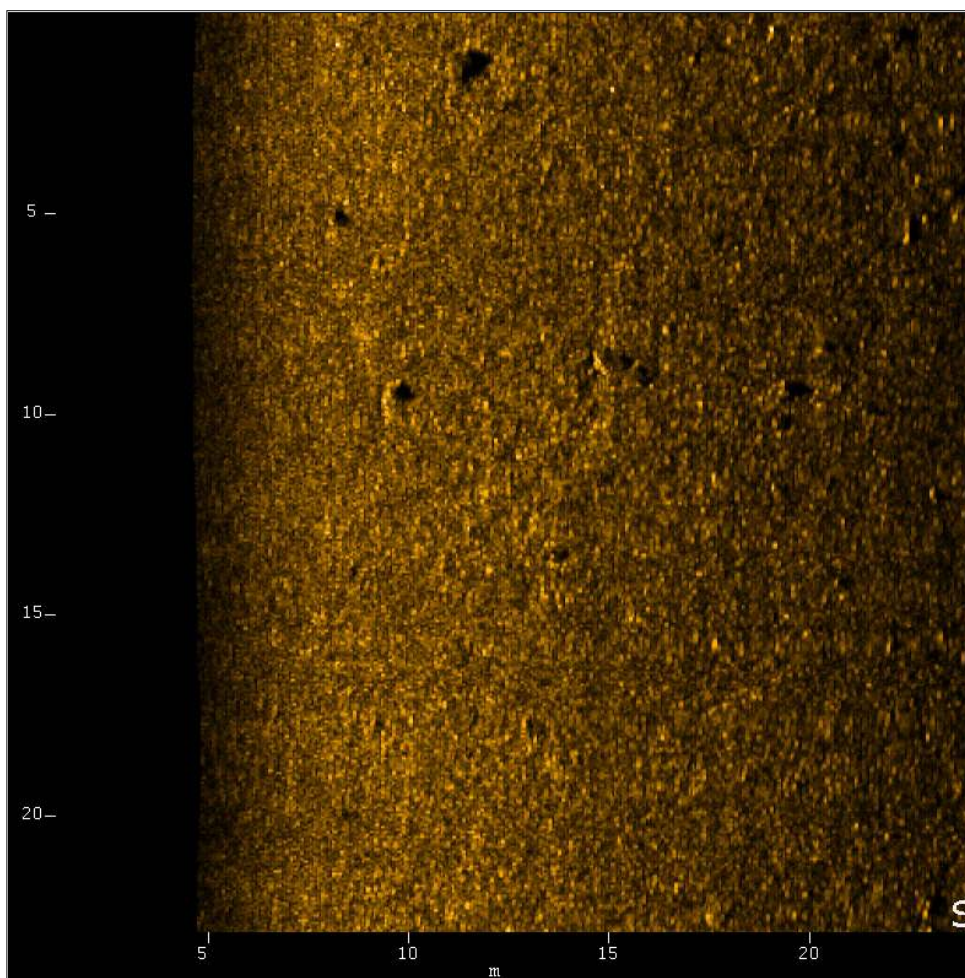
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA70

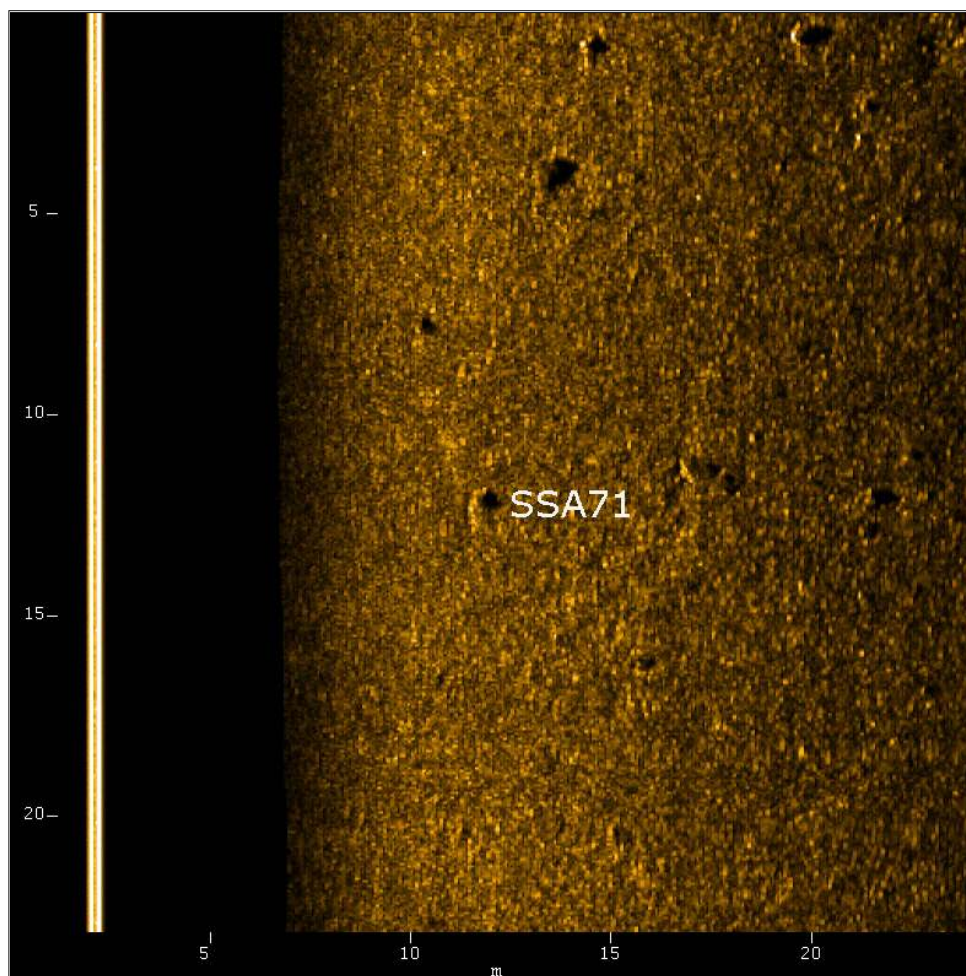
**Contact Info: SSA70**

- Sonar Time at Target: 09/24/2011 11:40:45
- Click Position (Lat/Lon Coordinates)
50.6875915527 -0.3399940133 (WGS84)
- Click Position (Projected Coordinates)
(X) 687888.94 (Y) 5618460.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104984
- Range to Target: 23.02 Meters
- Fish Height: 4.79 Meters
- Heading: 59.400 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

Target Height: = 0 Meters
Target Length: 0 Meters
Target Shadow: 1 Meters
Target Width: 0 Meters
Mag Anomaly:
Avoidance Area:
Classification 1: Boulder
Classification 2:
Area:
Block:
Description: Boulder associated with nearby boulder field

SSA71

**Contact Info: SSA71**

- Sonar Time at Target: 09/24/2011 11:40:38
- Click Position (Lat/Lon Coordinates)
50.6876716614 -0.3402279913 (WGS84)
- Click Position (Projected Coordinates)
(X) 687872.06 (Y) 5618469.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104773
- Range to Target: 9.84 Meters
- Fish Height: 4.69 Meters
- Heading: 62.200 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

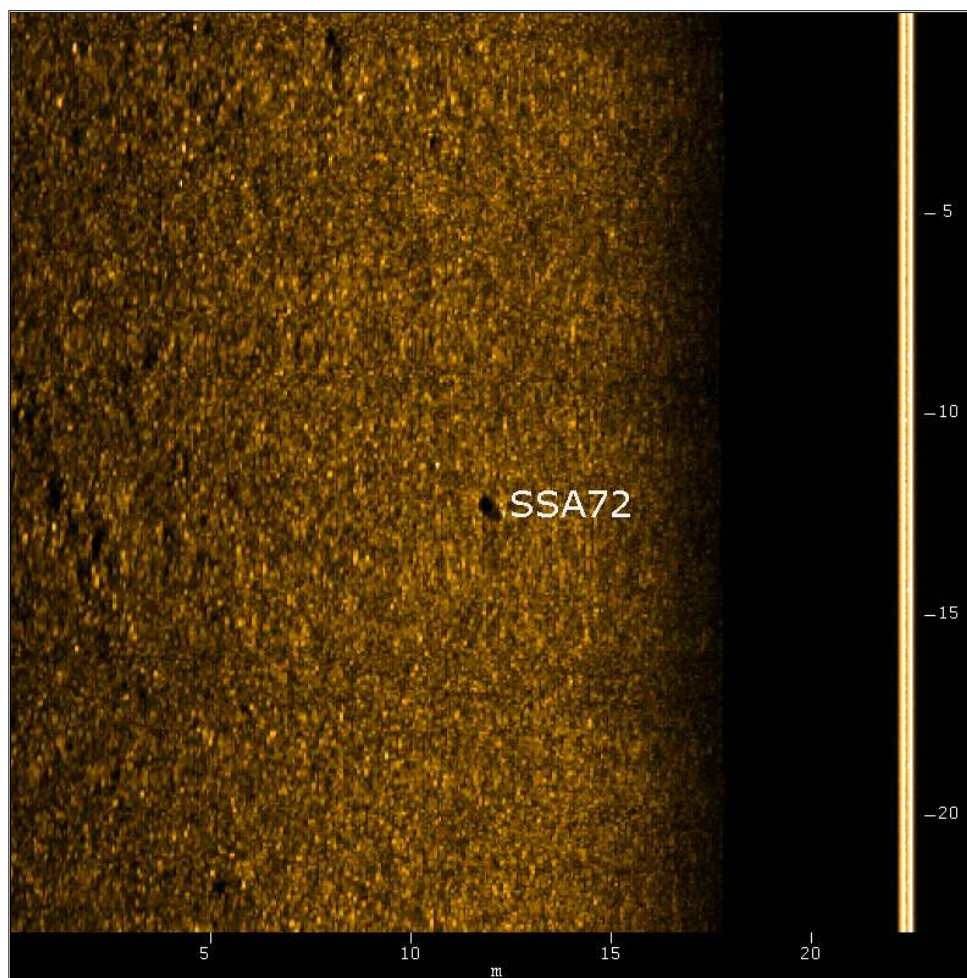
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA72

**Contact Info: SSA72**

- Sonar Time at Target: 09/24/2011 11:40:32
- Click Position (Lat/Lon Coordinates)
50.6877975464 -0.3404459953 (WGS84)
- Click Position (Projected Coordinates)
(X) 687856.19 (Y) 5618482.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104601
- Range to Target: 10.41 Meters
- Fish Height: 4.76 Meters
- Heading: 60.300 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

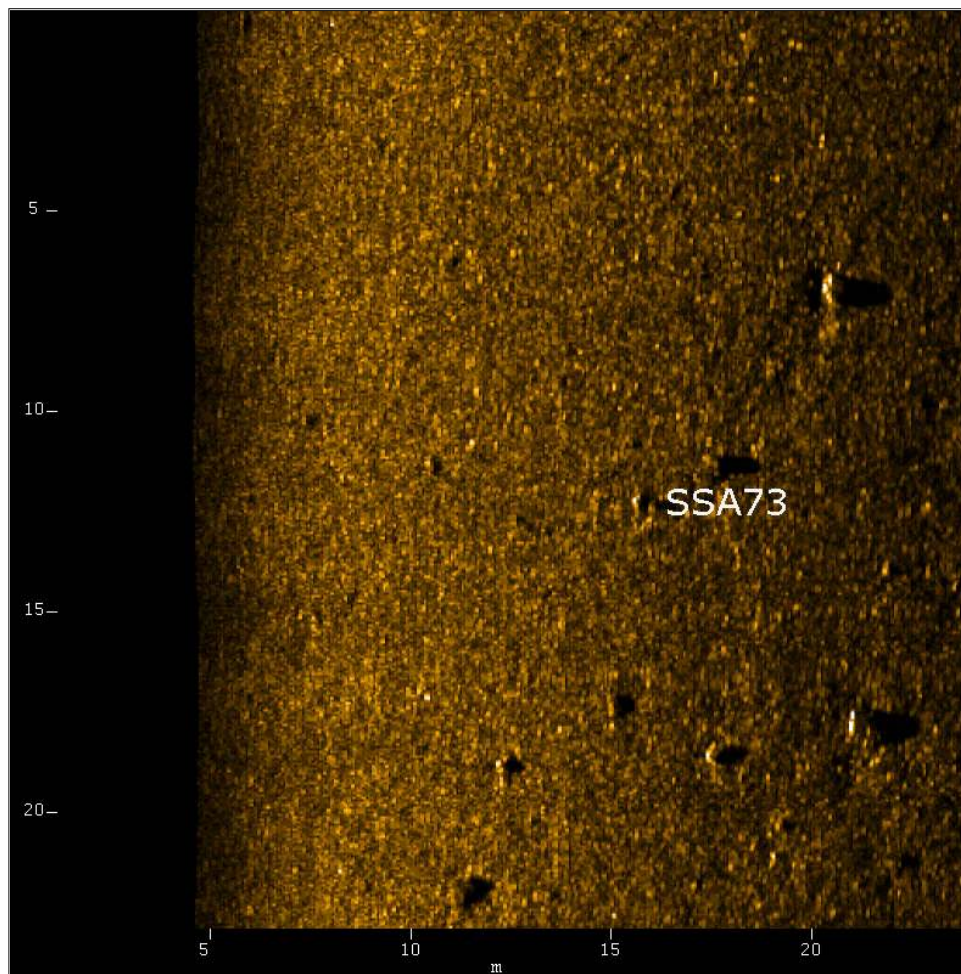
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA73

**Contact Info: SSA73**

- Sonar Time at Target: 09/24/2011 11:40:27
- Click Position (Lat/Lon Coordinates)
50.6875686646 -0.3404459953 (WGS84)
- Click Position (Projected Coordinates)
(X) 687857.06 (Y) 5618456.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104478
- Range to Target: 15.84 Meters
- Fish Height: 4.66 Meters
- Heading: 61.200 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

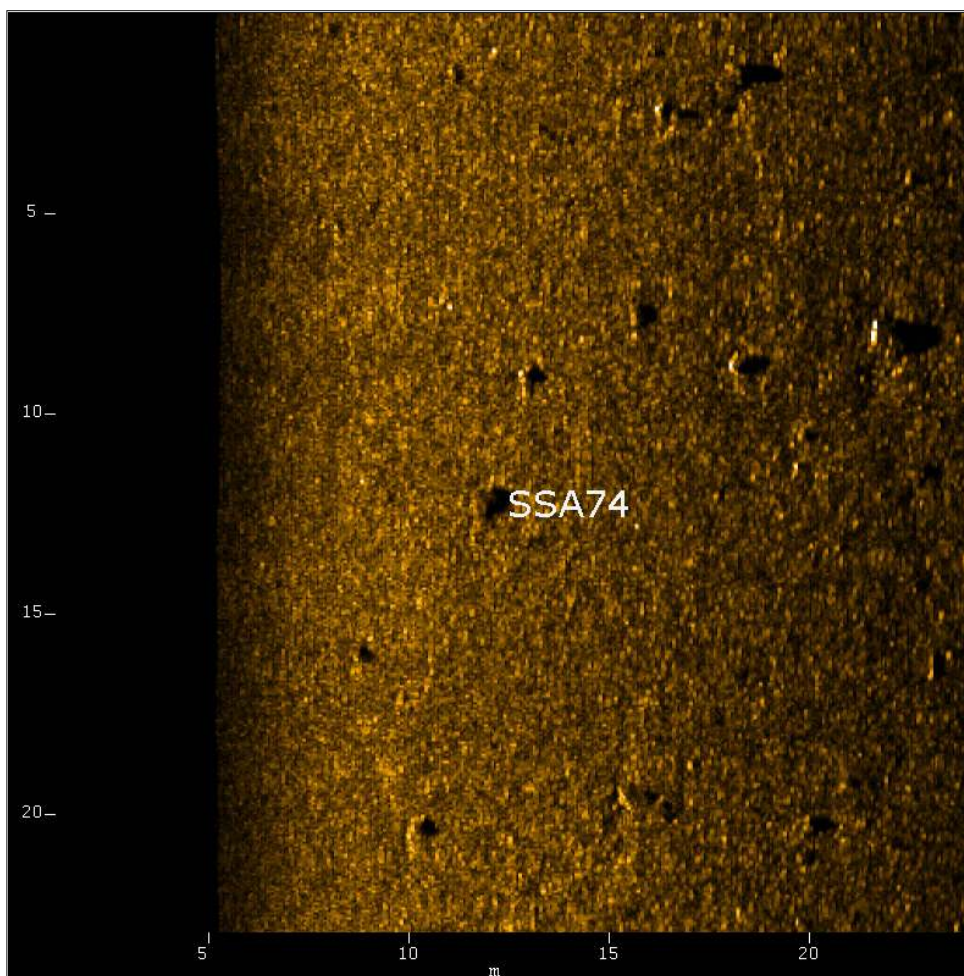
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA74

**Contact Info: SSA74**

- Sonar Time at Target: 09/24/2011 11:40:33
- Click Position (Lat/Lon Coordinates)
50.6876373291 -0.3403309882 (WGS84)
- Click Position (Projected Coordinates)
(X) 687864.94 (Y) 5618464.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104639
- Range to Target: 11.34 Meters
- Fish Height: 4.75 Meters
- Heading: 59.900 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

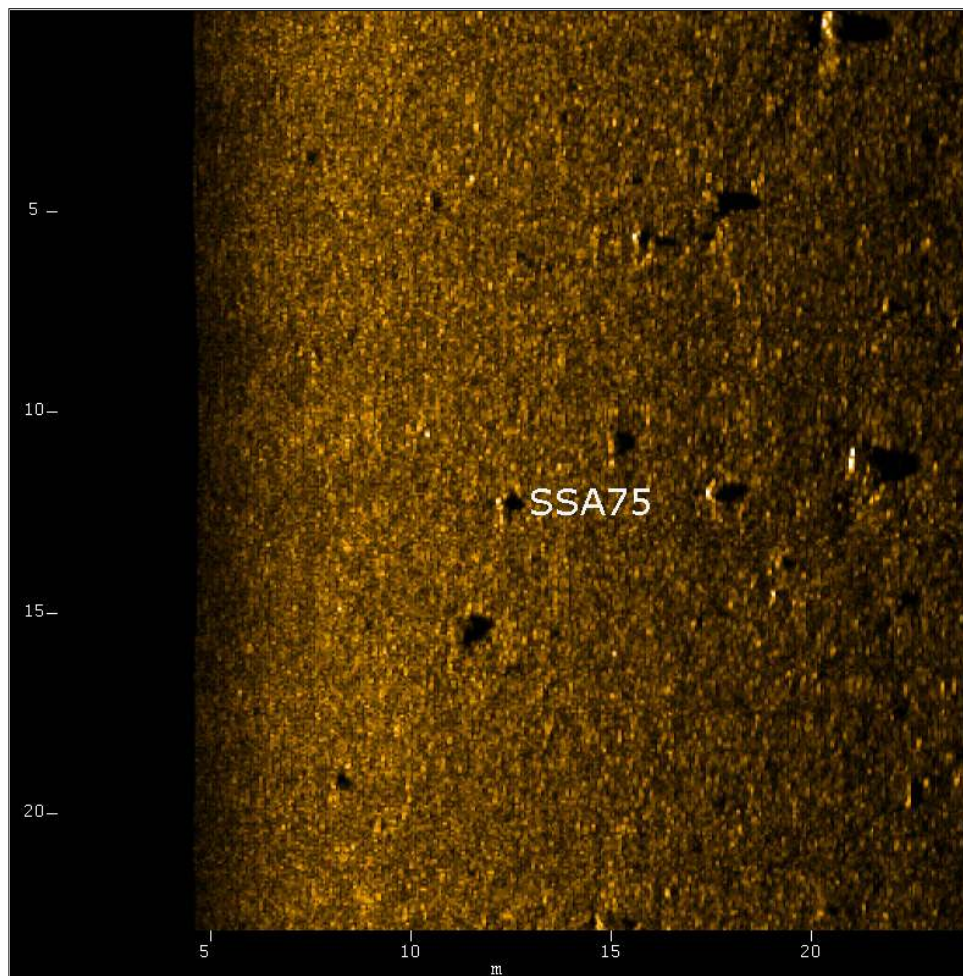
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA75

**Contact Info: SSA75**

- Sonar Time at Target: 09/24/2011 11:40:31
- Click Position (Lat/Lon Coordinates)
50.6876182556 -0.3403699994 (WGS84)
- Click Position (Projected Coordinates)
(X) 687862.25 (Y) 5618462.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104586
- Range to Target: 12.47 Meters
- Fish Height: 4.72 Meters
- Heading: 61.000 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

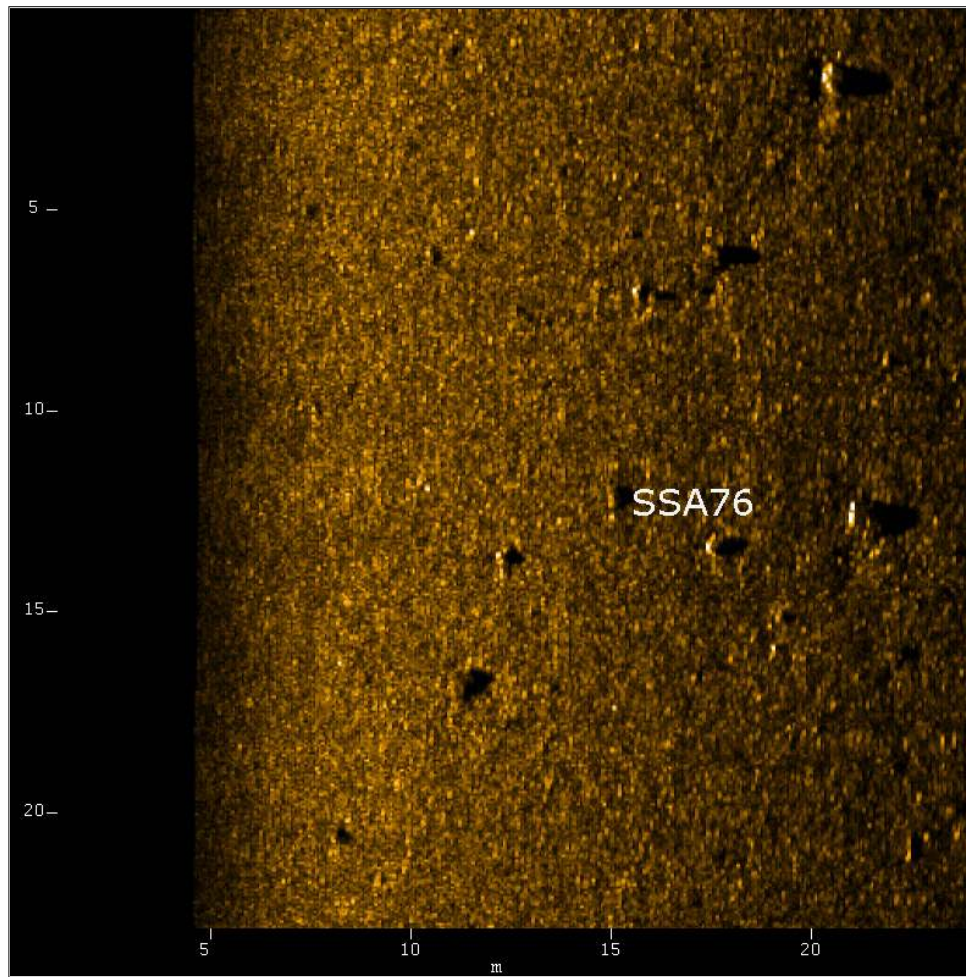
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA76

**Contact Info: SSA76**

- Sonar Time at Target: 09/24/2011 11:40:30
- Click Position (Lat/Lon Coordinates)
50.6875915527 -0.3403770030 (WGS84)
- Click Position (Projected Coordinates)
(X) 687861.88 (Y) 5618459.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104564
- Range to Target: 15.00 Meters
- Fish Height: 4.76 Meters
- Heading: 59.800 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

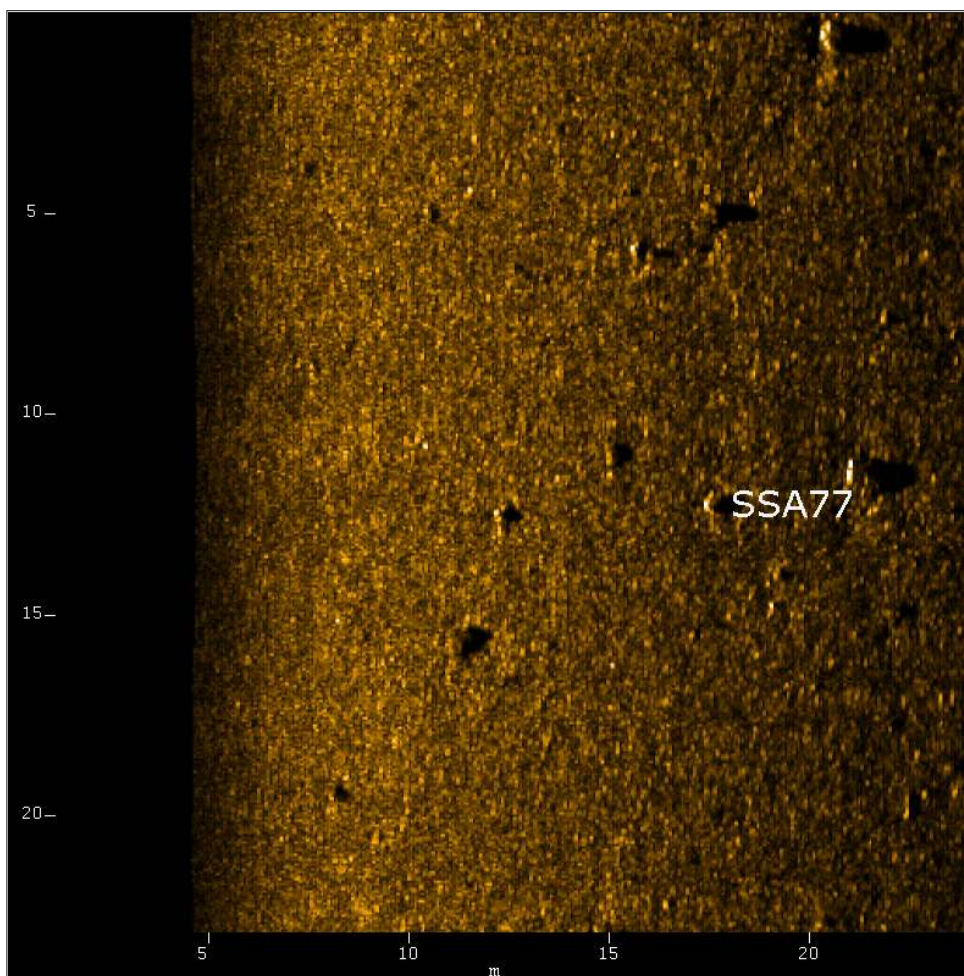
Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA77

**Contact Info: SSA77**

- Sonar Time at Target: 09/24/2011 11:40:31
- Click Position (Lat/Lon Coordinates)
50.6875686646 -0.3403509855 (WGS84)
- Click Position (Projected Coordinates)
(X) 687863.81 (Y) 5618457.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104582
- Range to Target: 17.53 Meters
- Fish Height: 4.74 Meters
- Heading: 61.500 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

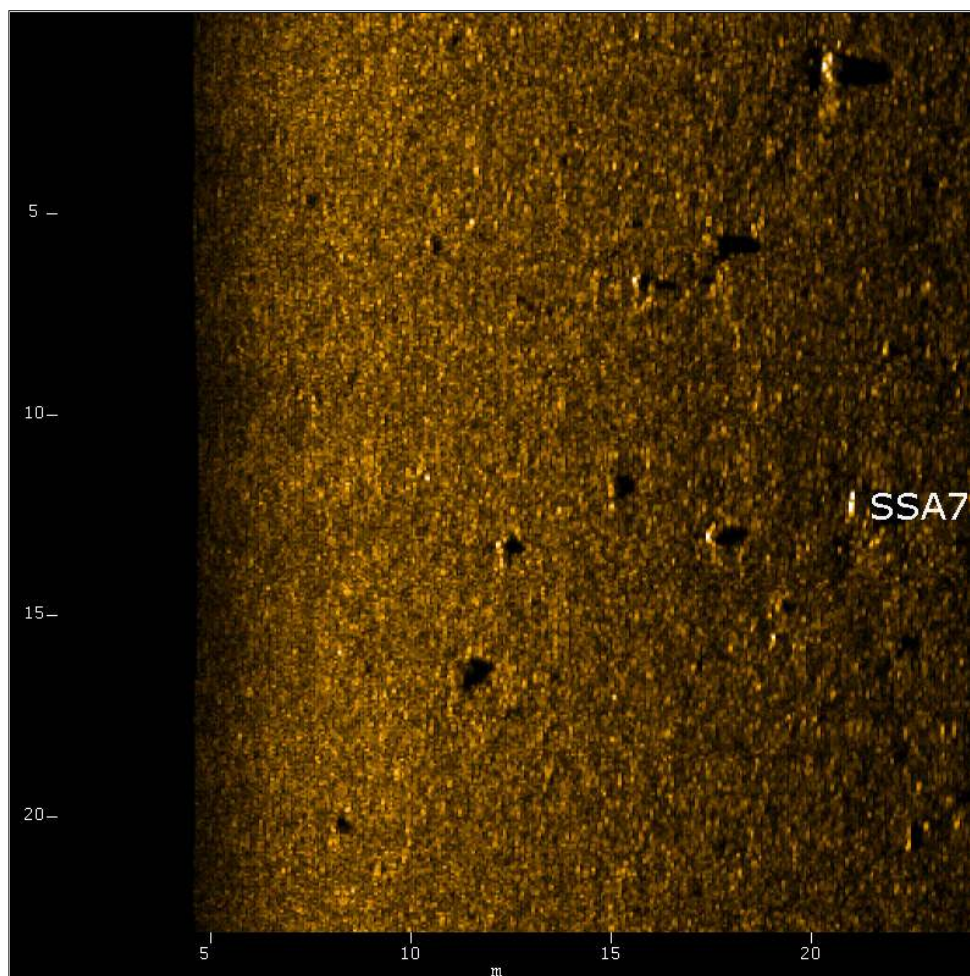
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA78

**Contact Info: SSA78**

- Sonar Time at Target: 09/24/2011 11:40:31
- Click Position (Lat/Lon Coordinates)
50.6875381470 -0.3403460085 (WGS84)
- Click Position (Projected Coordinates)
(X) 687864.25 (Y) 5618453.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104570
- Range to Target: 20.95 Meters
- Fish Height: 4.75 Meters
- Heading: 60.100 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

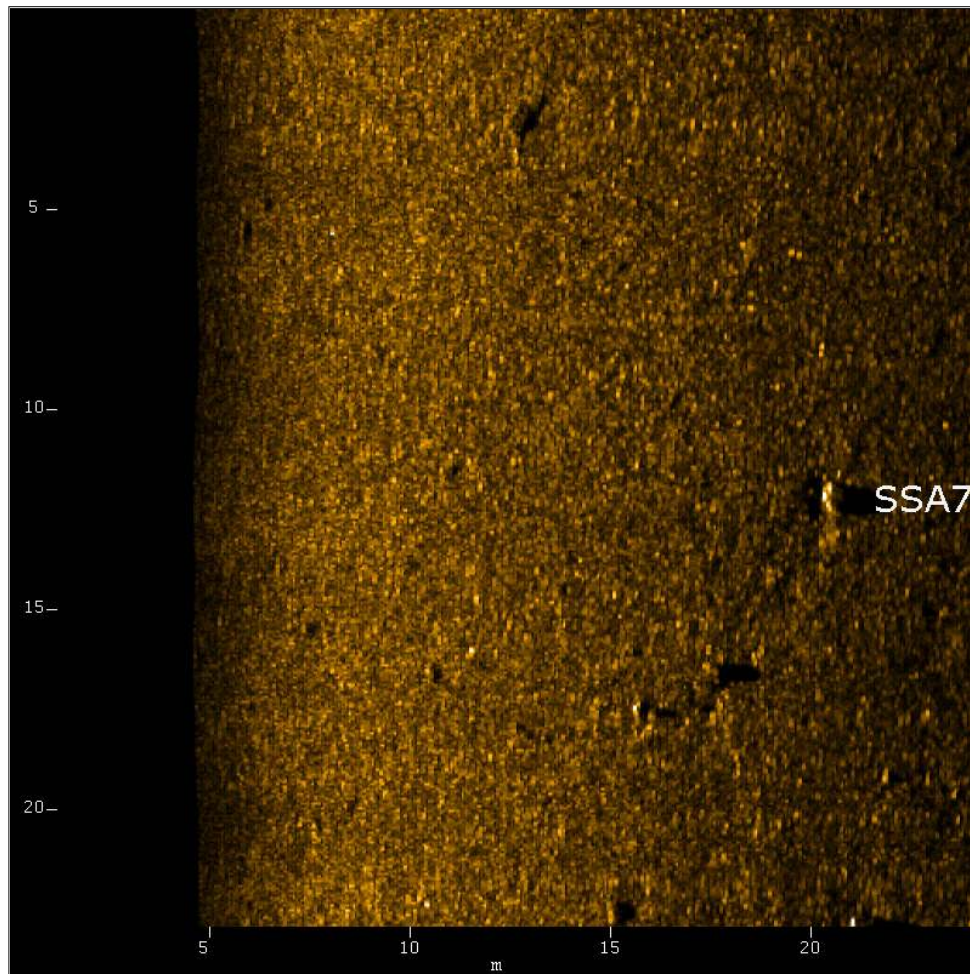
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA79

**Contact Info: SSA79**

- Sonar Time at Target: 09/24/2011 11:40:24
- Click Position (Lat/Lon Coordinates)
50.6875076294 -0.3404999971 (WGS84)
- Click Position (Projected Coordinates)
(X) 687853.50 (Y) 5618450.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104391
- Range to Target: 21.05 Meters
- Fish Height: 4.64 Meters
- Heading: 57.800 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

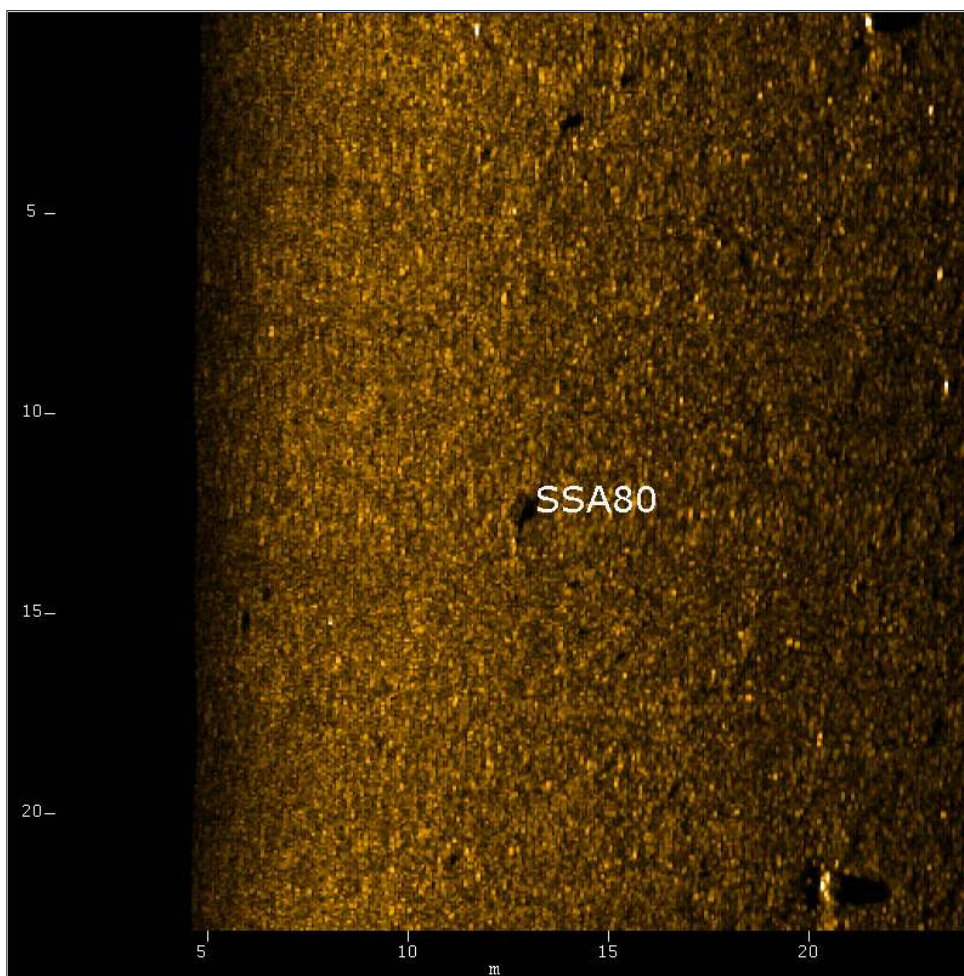
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA80

**Contact Info: SSA80**

- Sonar Time at Target: 09/24/2011 11:40:19
- Click Position (Lat/Lon Coordinates)
50.6875610352 -0.3406670094 (WGS84)
- Click Position (Projected Coordinates)
(X) 687841.50 (Y) 5618455.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104231
- Range to Target: 12.66 Meters
- Fish Height: 4.78 Meters
- Heading: 61.200 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

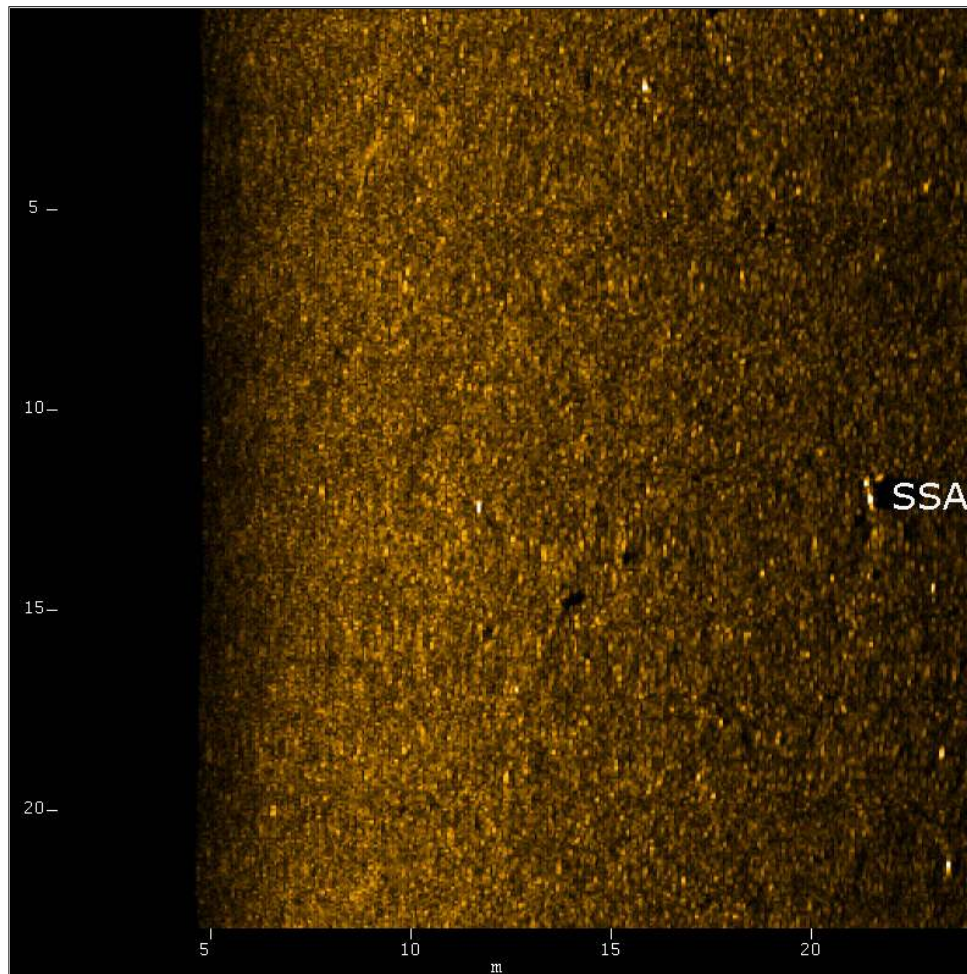
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA81

**Contact Info: SSA81**

- Sonar Time at Target: 09/24/2011 11:40:12
- Click Position (Lat/Lon Coordinates)
50.6874504089 -0.3407900035 (WGS84)
- Click Position (Projected Coordinates)
(X) 687833.31 (Y) 5618443.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 104033
- Range to Target: 21.52 Meters
- Fish Height: 4.91 Meters
- Heading: 59.900 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

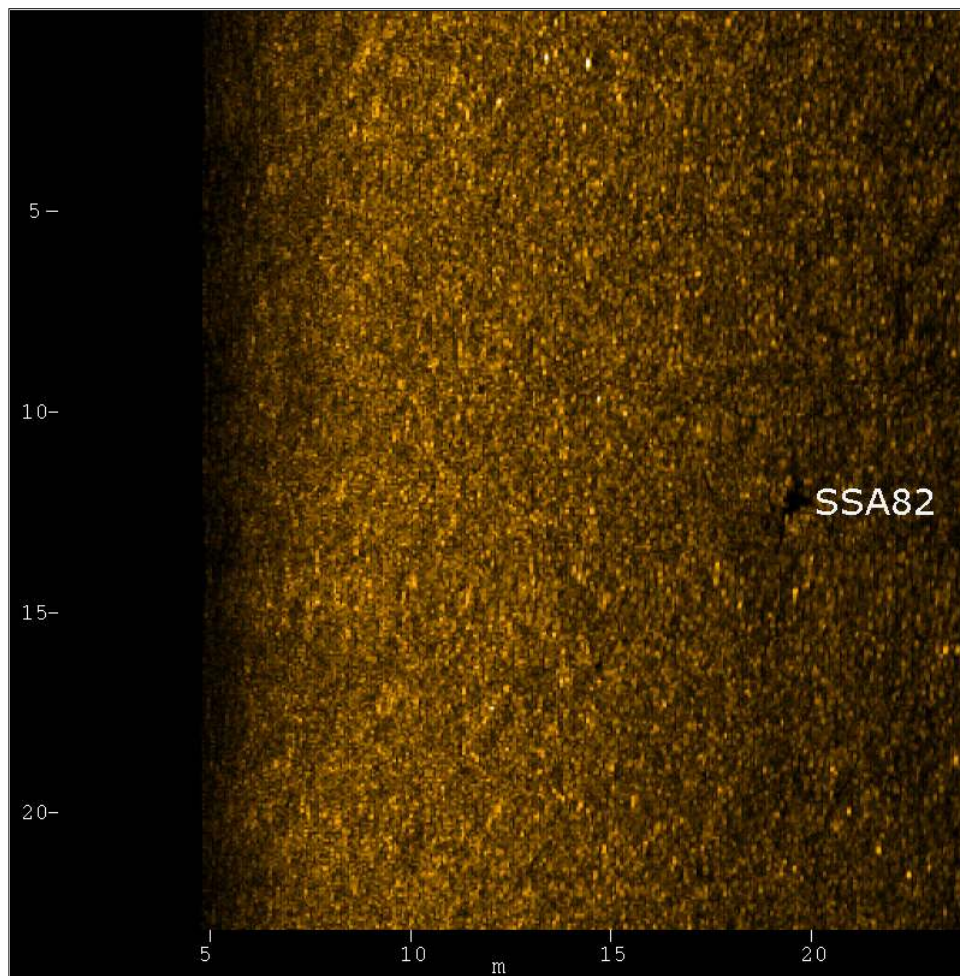
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder associated with nearby boulder field

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA82

**Contact Info: SSA82**

- Sonar Time at Target: 09/24/2011 11:39:48
- Click Position (Lat/Lon Coordinates)
50.6873588562 -0.3413859904 (WGS84)
- Click Position (Projected Coordinates)
(X) 687791.56 (Y) 5618430.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 103316
- Range to Target: 19.59 Meters
- Fish Height: 4.91 Meters
- Heading: 57.600 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

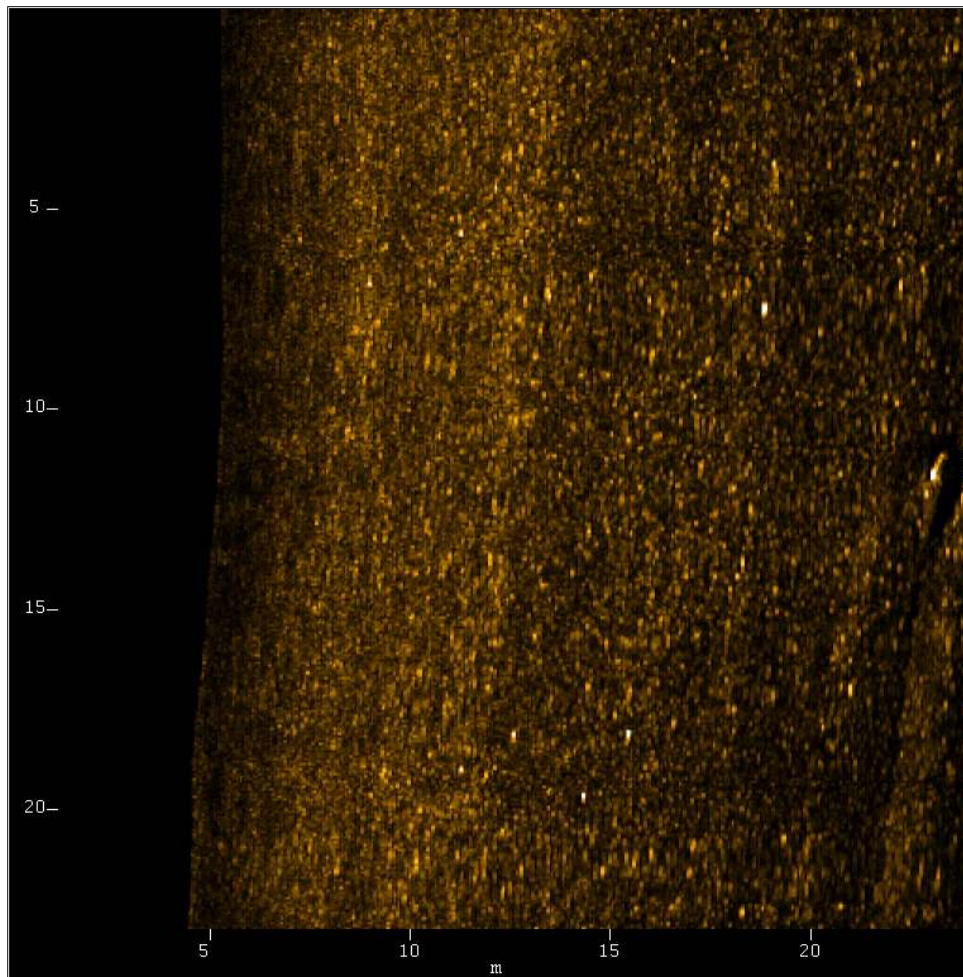
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA83

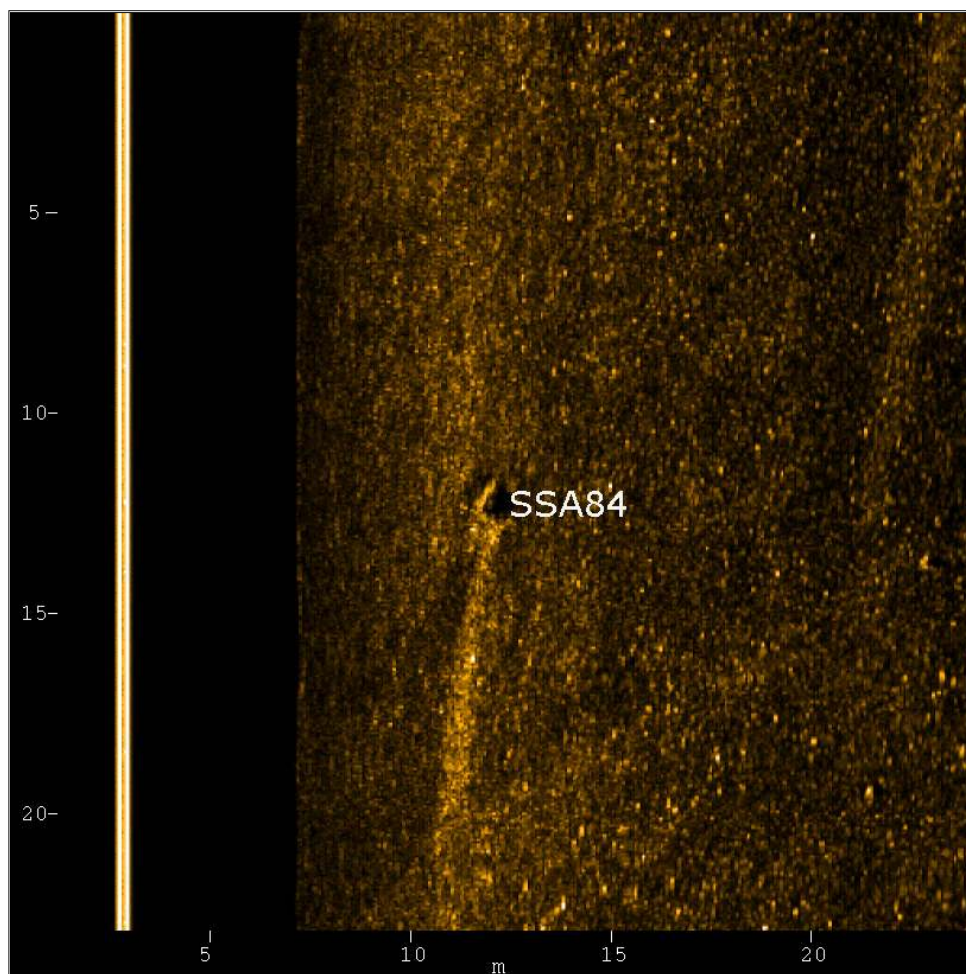
**Contact Info: SSA83**

- Sonar Time at Target: 09/24/2011 11:37:03
- Click Position (Lat/Lon Coordinates)
50.6865615845 -0.3452939987 (WGS84)
- Click Position (Projected Coordinates)
(X) 687518.69 (Y) 5618332.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 98534
- Range to Target: 23.30 Meters
- Fish Height: 5.26 Meters
- Heading: 58.400 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

SSA84

**Contact Info: SSA84**

- Sonar Time at Target: 09/24/2011 11:37:22
- Click Position (Lat/Lon Coordinates)
50.6867752075 -0.3448849916 (WGS84)
- Click Position (Projected Coordinates)
(X) 687546.75 (Y) 5618357.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 99089
- Range to Target: 9.14 Meters
- Fish Height: 4.40 Meters
- Heading: 61.100 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

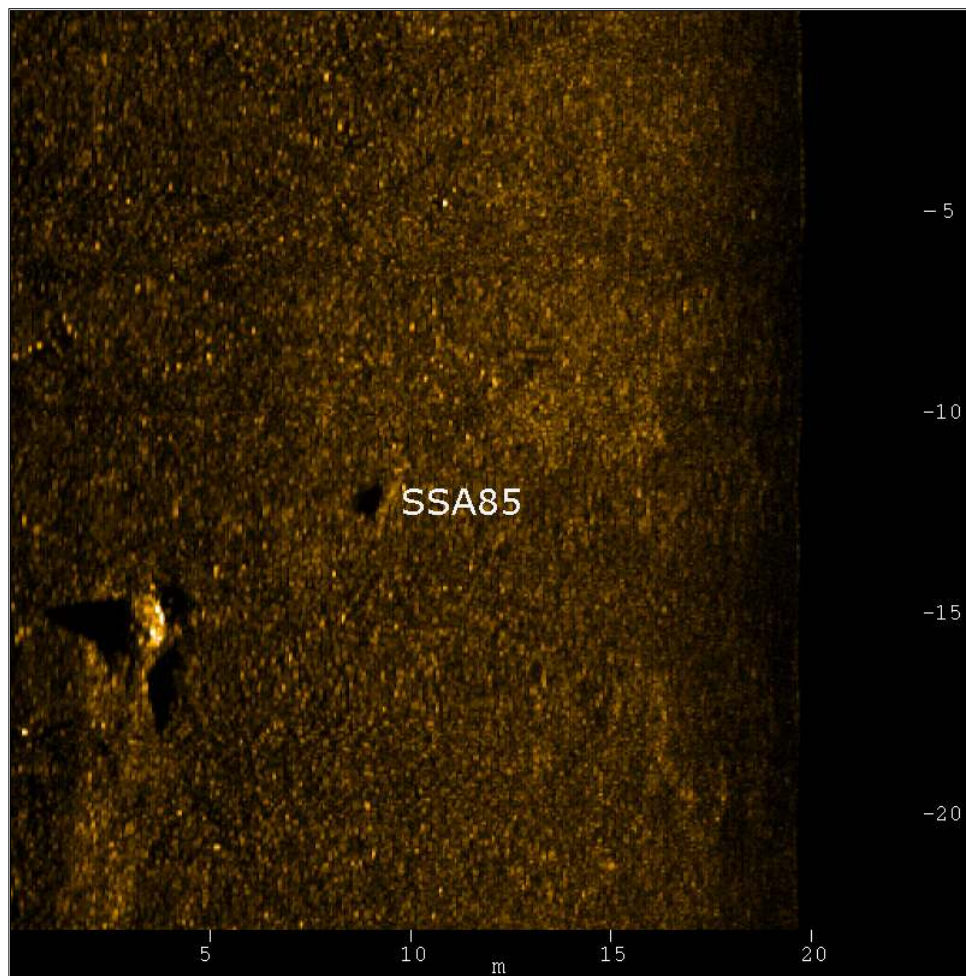
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with Scour Trail

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA85

**Contact Info: SSA85**

- Sonar Time at Target: 09/24/2011 11:37:51
- Click Position (Lat/Lon Coordinates)
50.6870803833 -0.3443009853 (WGS84)
- Click Position (Projected Coordinates)
(X) 687586.75 (Y) 5618392.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 99911
- Range to Target: 14.67 Meters
- Fish Height: 4.38 Meters
- Heading: 63.300 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

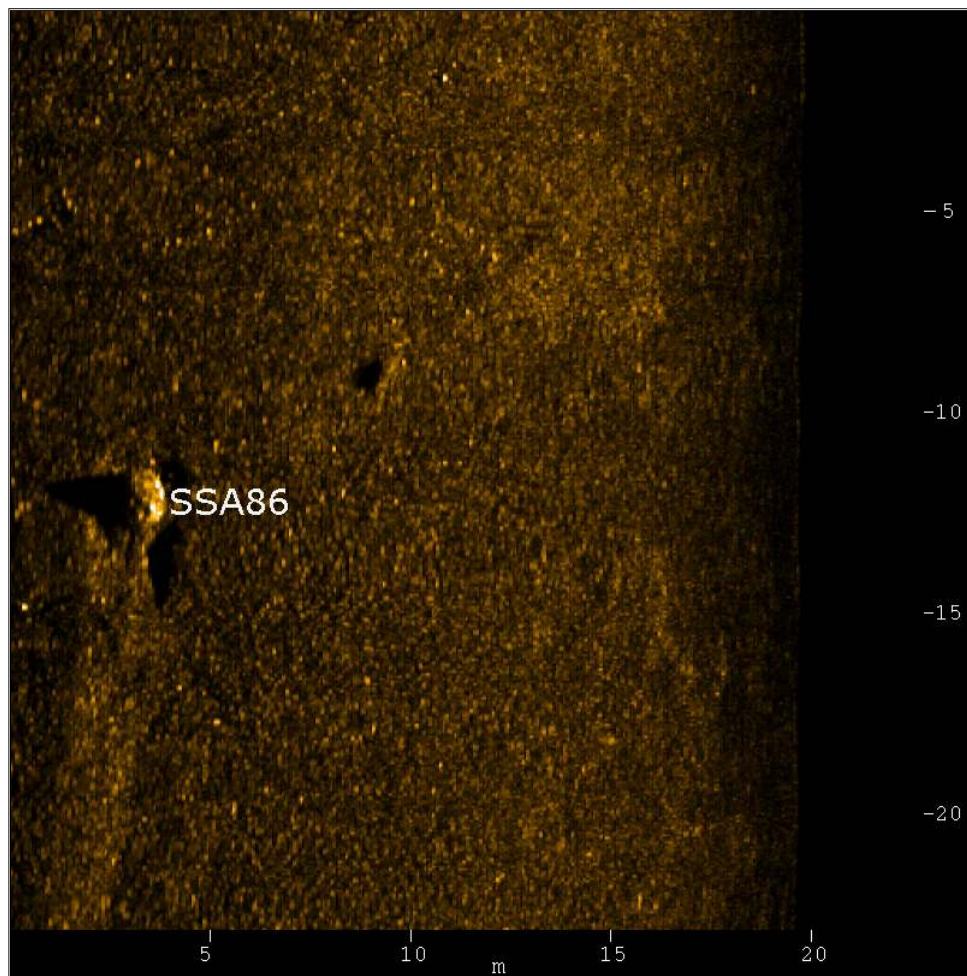
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Possible Boulder
 Classification 2:
 Area:
 Block:
 Description: Possible Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA86

**Contact Info: SSA86**

- Sonar Time at Target: 09/24/2011 11:37:52
- Click Position (Lat/Lon Coordinates)
50.6871376038 -0.3442859948 (WGS84)
- Click Position (Projected Coordinates)
(X) 687587.63 (Y) 5618399.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 99963
- Range to Target: 20.48 Meters
- Fish Height: 4.38 Meters
- Heading: 62.600 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

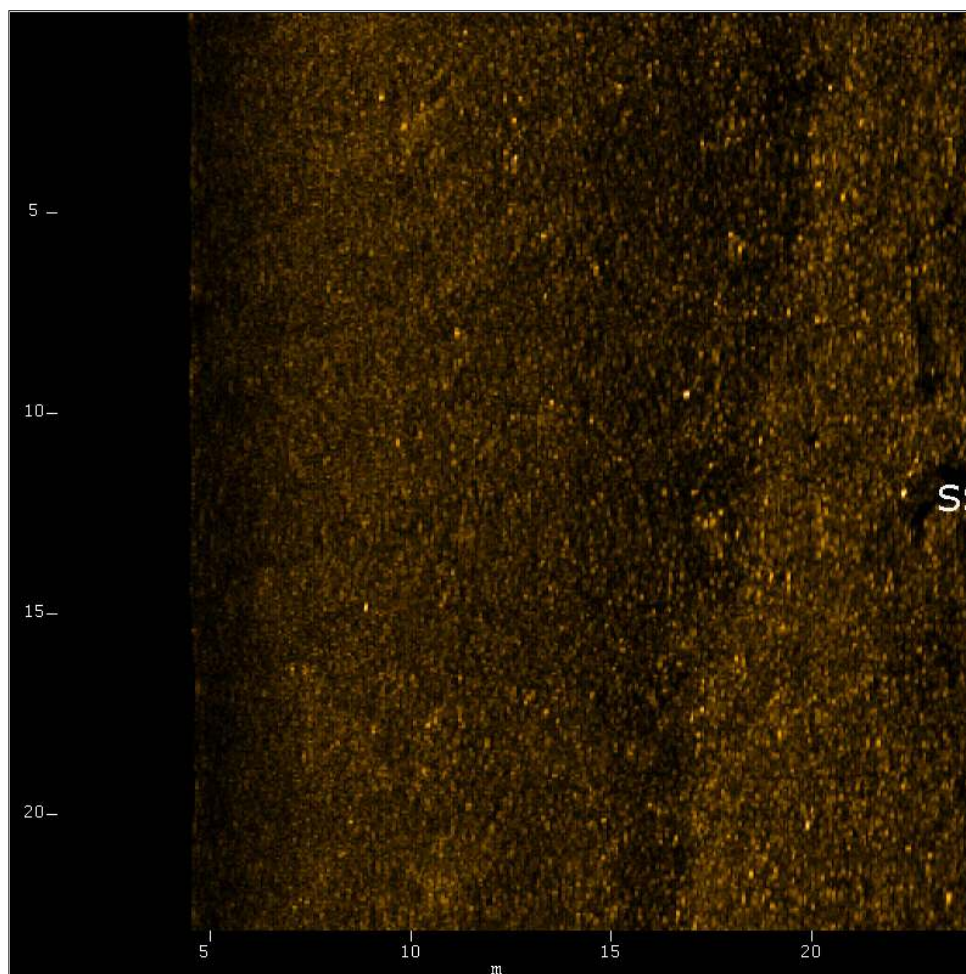
Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA87

**Contact Info: SSA87**

- Sonar Time at Target: 09/24/2011 11:38:35
- Click Position (Lat/Lon Coordinates)
50.6869812012 -0.3431000113 (WGS84)
- Click Position (Projected Coordinates)
(X) 687672.00 (Y) 5618384.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 101201
- Range to Target: 22.64 Meters
- Fish Height: 4.57 Meters
- Heading: 59.900 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

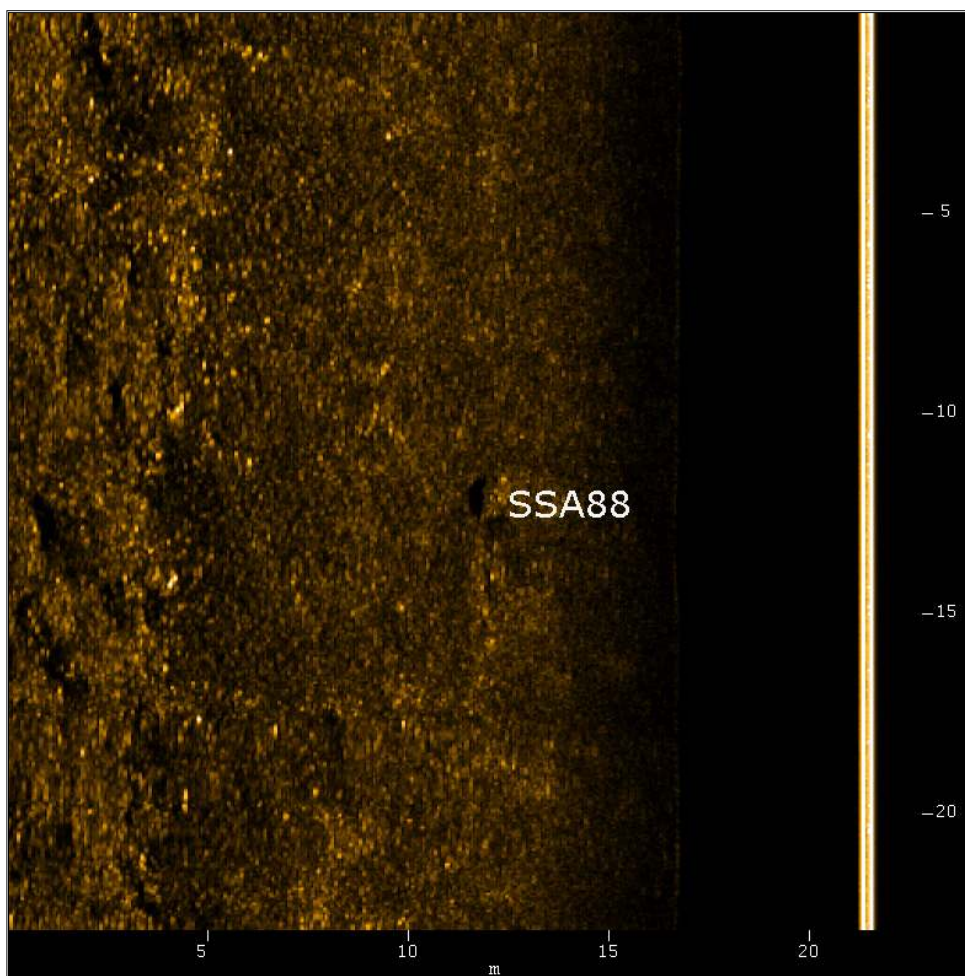
Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 2 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Possible Boulder
 Classification 2:
 Area:
 Block:
 Description: Possible Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA88

**Contact Info: SSA88**

- Sonar Time at Target: 09/24/2011 11:39:23
- Click Position (Lat/Lon Coordinates)
50.6874732971 -0.3420790136 (WGS84)
- Click Position (Projected Coordinates)
(X) 687742.13 (Y) 5618442.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 102611
- Range to Target: 9.47 Meters
- Fish Height: 4.83 Meters
- Heading: 60.100 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

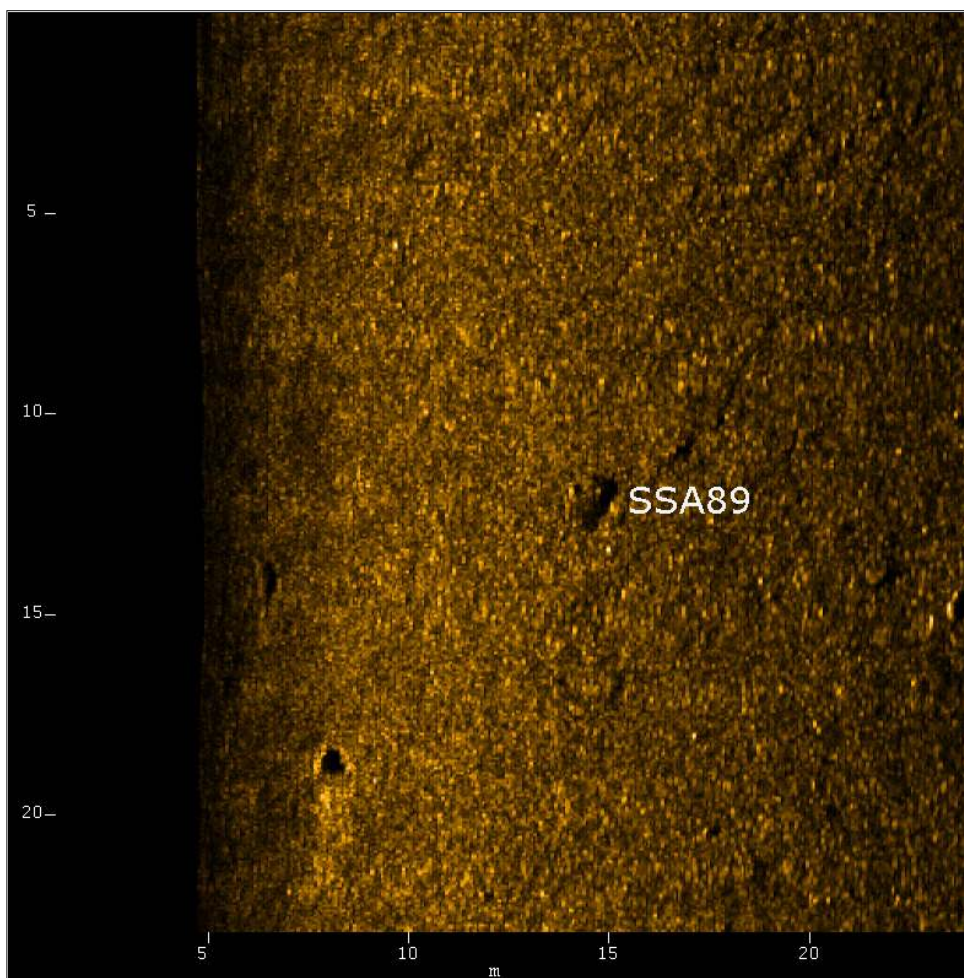
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Possible Boulder
 Classification 2:
 Area:
 Block:
 Description: Possible Boulder

Rampion_Met_Mast.doc
 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA89

**Contact Info: SSA89**

- Sonar Time at Target: 09/24/2011 11:39:32
- Click Position (Lat/Lon Coordinates)
50.6873283386 -0.3417769969 (WGS84)
- Click Position (Projected Coordinates)
(X) 687764.06 (Y) 5618426.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 102860
- Range to Target: 14.95 Meters
- Fish Height: 4.94 Meters
- Heading: 59.800 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

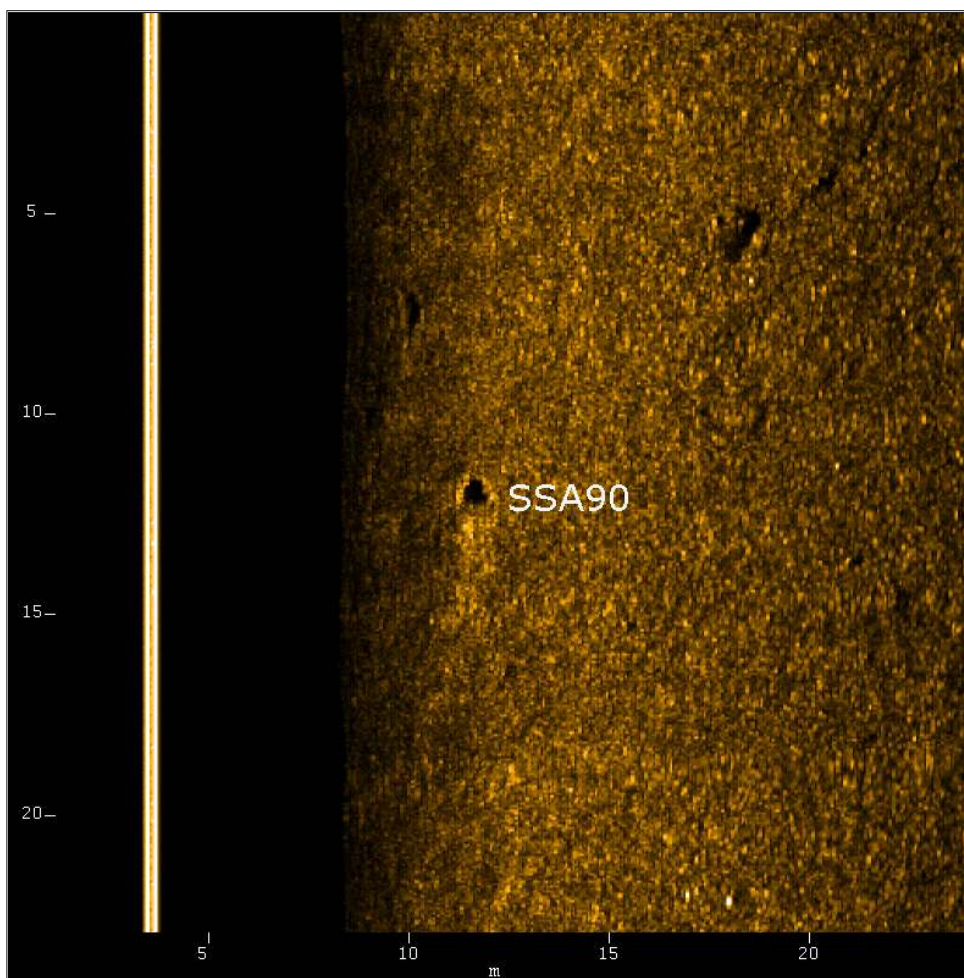
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

Rampion_Met_Mast.doc
V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA90

**Contact Info: SSA90**

- Sonar Time at Target: 09/24/2011 11:39:36
- Click Position (Lat/Lon Coordinates)
50.6874046326 -0.3417190015 (WGS84)
- Click Position (Projected Coordinates)
(X) 687767.88 (Y) 5618435.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 102969
- Range to Target: 8.39 Meters
- Fish Height: 4.80 Meters
- Heading: 59.100 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

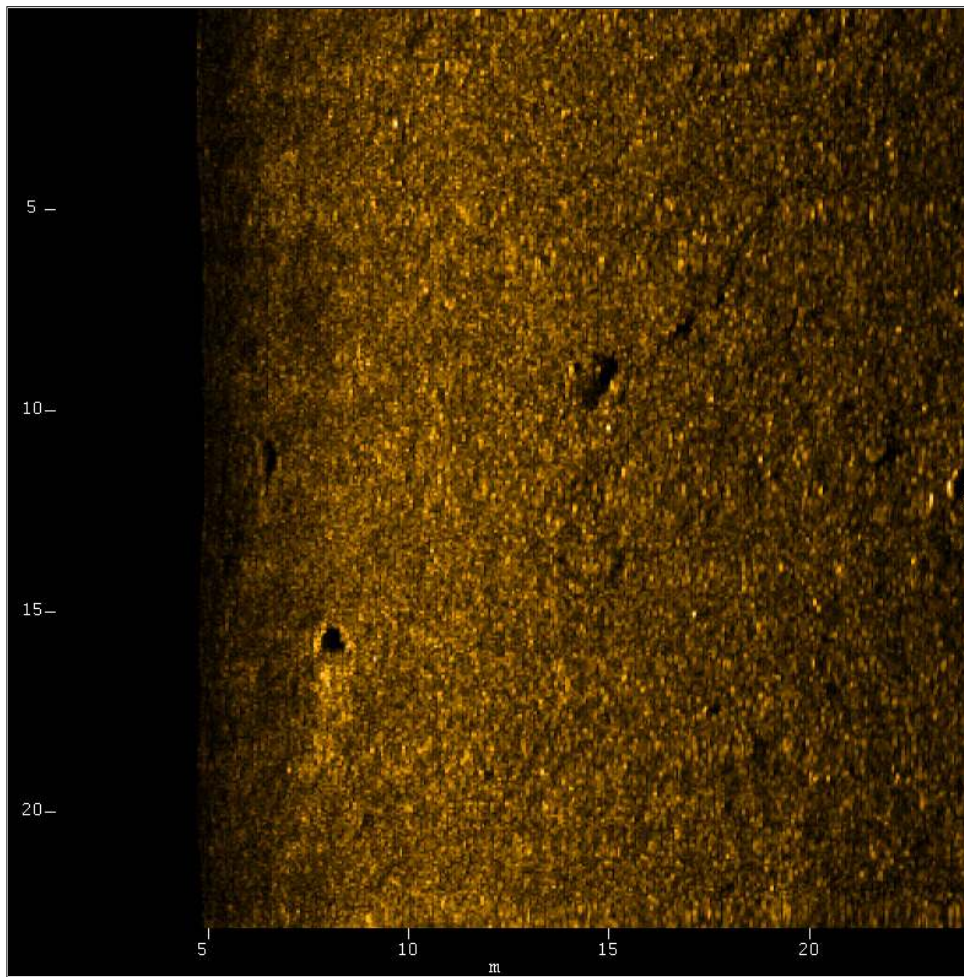
Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

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 V3.15.06

02/20/2012 09:34:09 PM

targetReportGen2

SSA91

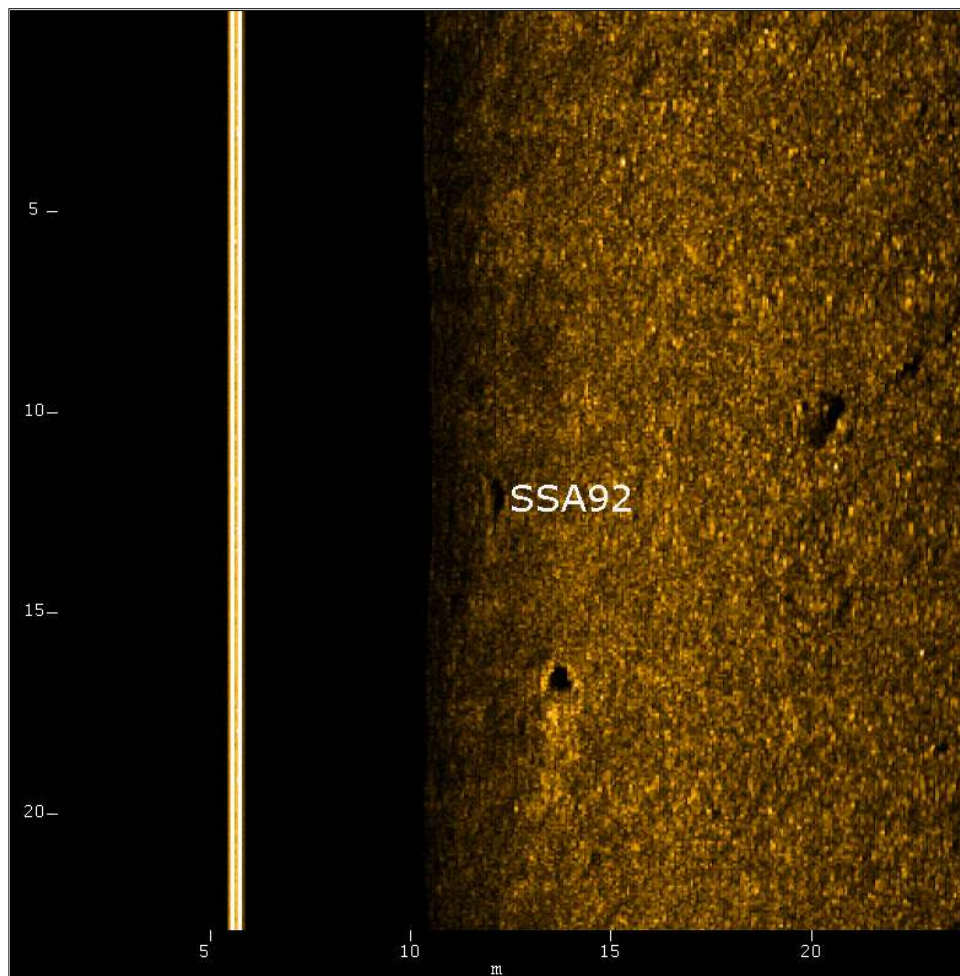
**Contact Info: SSA91**

- Sonar Time at Target: 09/24/2011 11:39:34
- Click Position (Lat/Lon Coordinates)
50.6872596741 -0.3417020142 (WGS84)
- Click Position (Projected Coordinates)
(X) 687769.63 (Y) 5618419.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 102908
- Range to Target: 23.39 Meters
- Fish Height: 4.91 Meters
- Heading: 61.500 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

Target Height: = 0 Meters
Target Length: 1 Meters
Target Shadow: 1 Meters
Target Width: 0 Meters
Mag Anomaly:
Avoidance Area:
Classification 1: Boulder
Classification 2:
Area:
Block:
Description: Boulder

SSA92

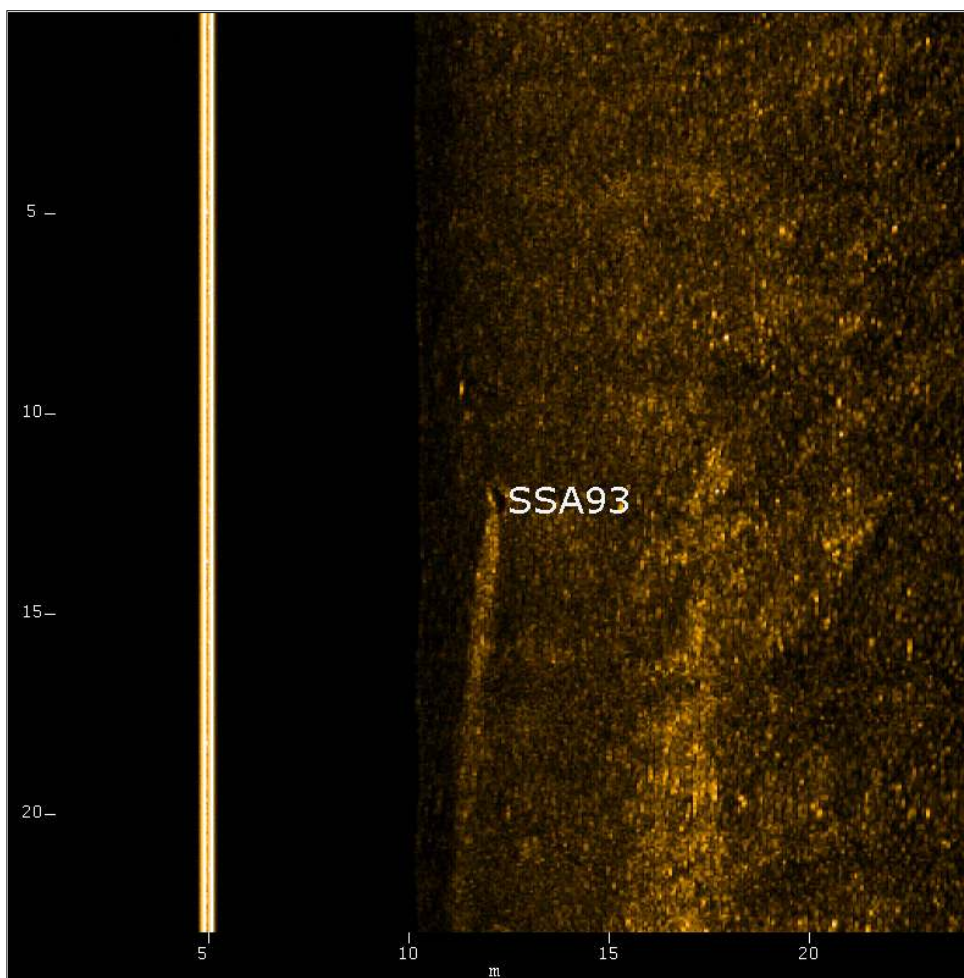
**Contact Info: SSA92**

- Sonar Time at Target: 09/24/2011 11:39:33
- Click Position (Lat/Lon Coordinates)
50.6874198914 -0.3417930007 (WGS84)
- Click Position (Projected Coordinates)
(X) 687762.56 (Y) 5618436.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924113700.xtf
- Ping Number: 102893
- Range to Target: 6.33 Meters
- Fish Height: 4.94 Meters
- Heading: 62.800 degrees
- Event Number: 0
- Line Name: C11030_110924113700

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Probable Boulder
 Classification 2:
 Area:
 Block:
 Description: Probable Boulder

SSA93

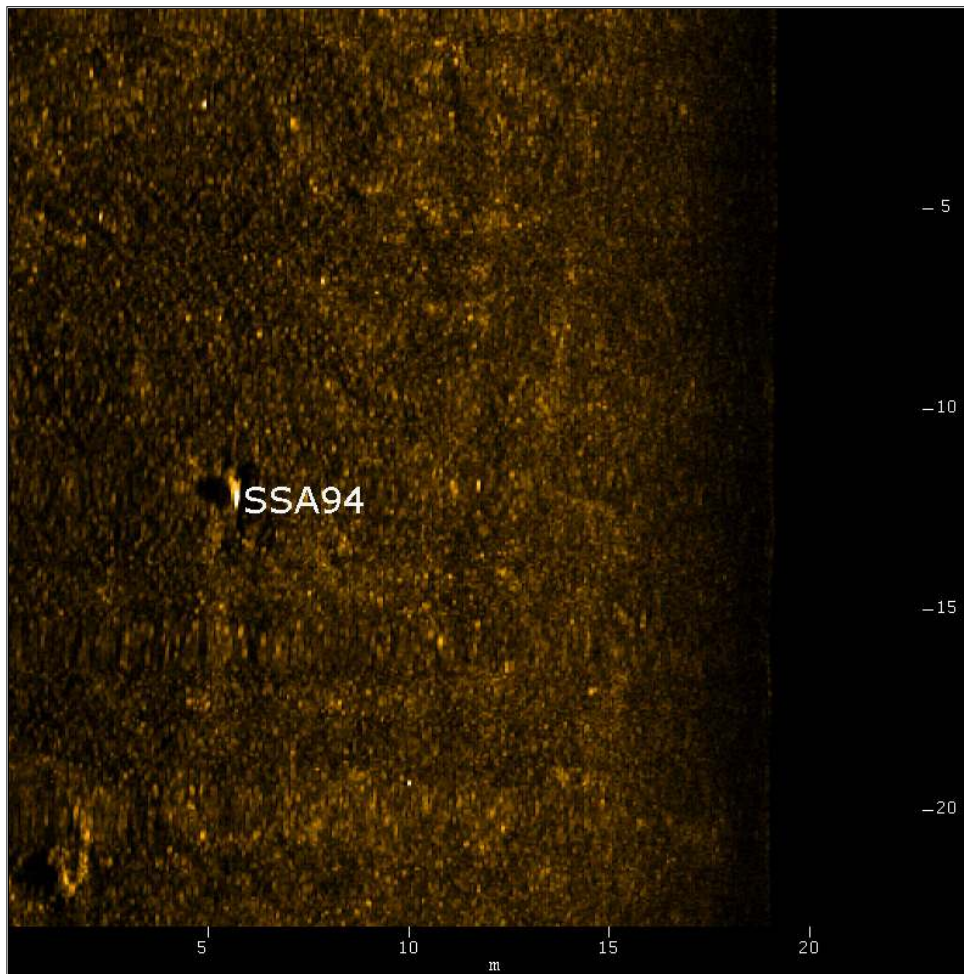
**Contact Info: SSA93**

- Sonar Time at Target: 09/24/2011 12:33:15
- Click Position (Lat/Lon Coordinates)
50.6874618530 -0.3428820074 (WGS84)
- Click Position (Projected Coordinates)
(X) 687685.44 (Y) 5618438.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924123100.xtf
- Ping Number: 196745
- Range to Target: 6.98 Meters
- Fish Height: 5.34 Meters
- Heading: 60.400 degrees
- Event Number: 0
- Line Name: C11030_110924123100

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

SSA94

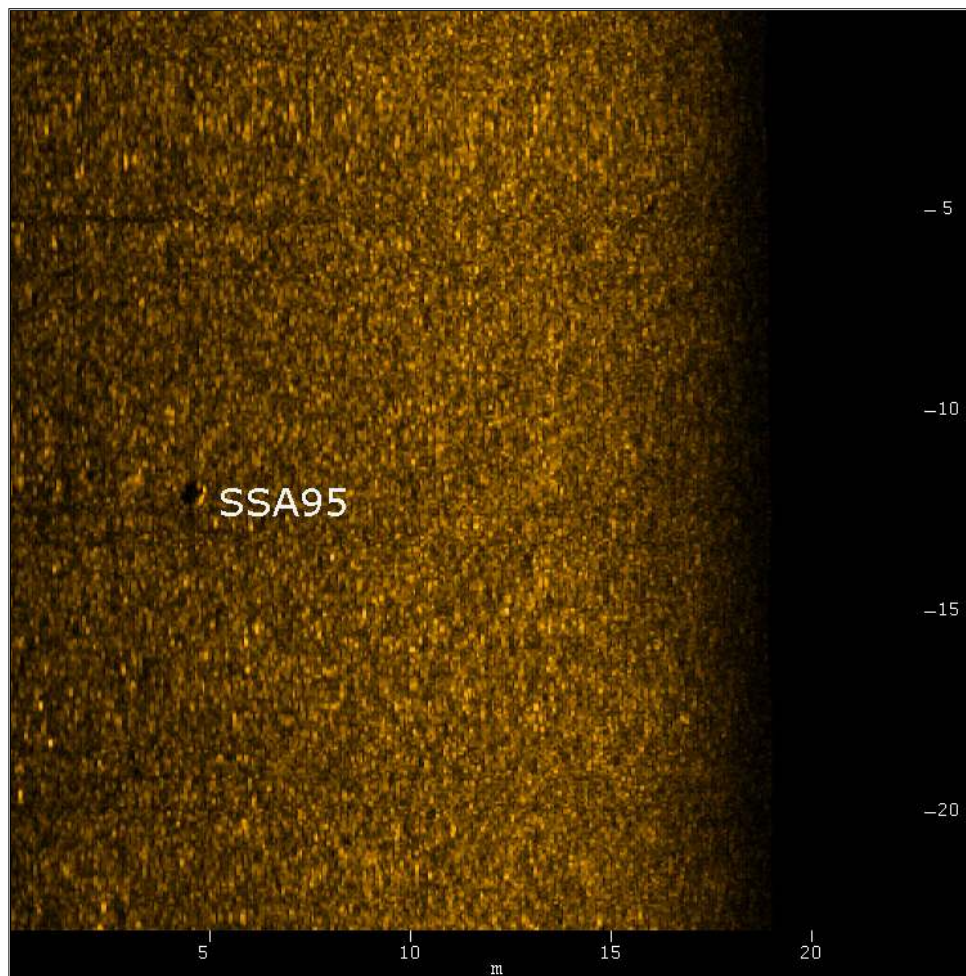
**Contact Info: SSA94**

- Sonar Time at Target: 09/24/2011 12:32:28
- Click Position (Lat/Lon Coordinates)
50.6874694824 -0.3441100121 (WGS84)
- Click Position (Projected Coordinates)
(X) 687598.69 (Y) 5618436.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924123100.xtf
- Ping Number: 195377
- Range to Target: 18.56 Meters
- Fish Height: 4.94 Meters
- Heading: 60.500 degrees
- Event Number: 0
- Line Name: C11030_110924123100

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA95

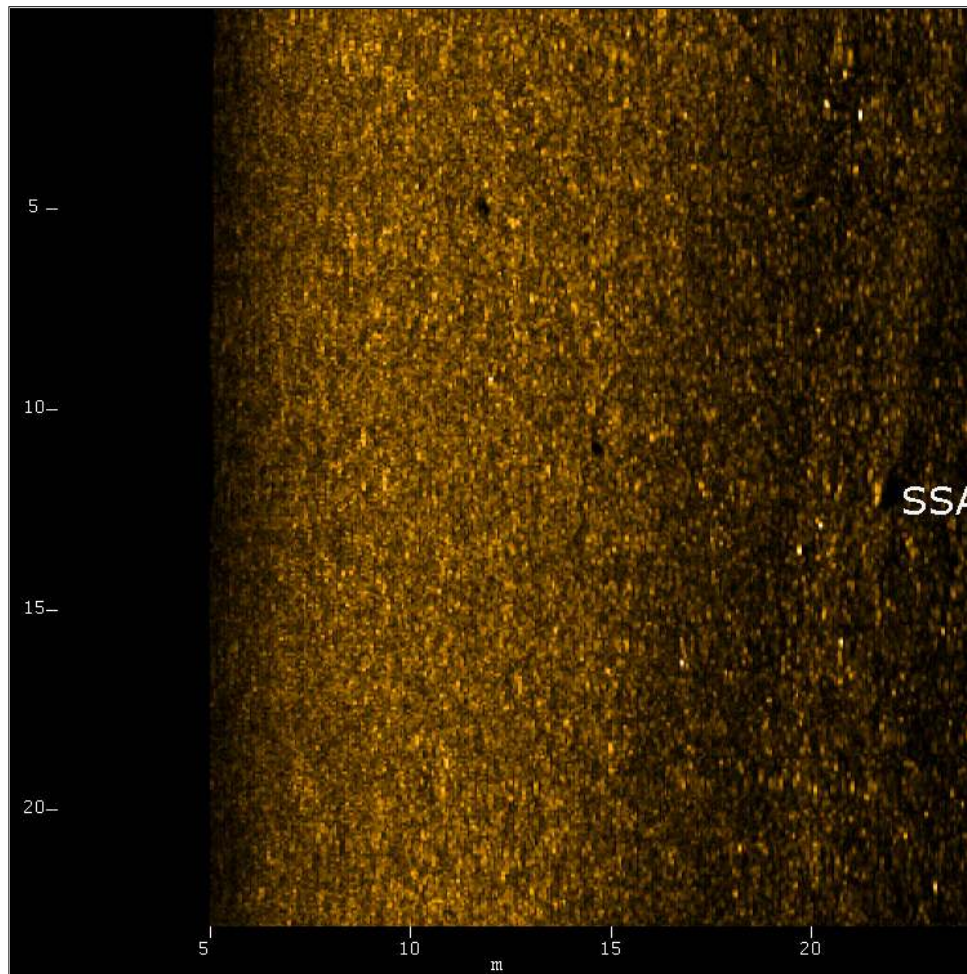
**Contact Info: SSA95**

- Sonar Time at Target: 09/24/2011 15:53:47
- Click Position (Lat/Lon Coordinates)
50.6877593994 -0.3413020074 (WGS84)
- Click Position (Projected Coordinates)
(X) 687795.88 (Y) 5618475.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 547185
- Range to Target: 19.27 Meters
- Fish Height: 5.13 Meters
- Heading: 277.100 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA96

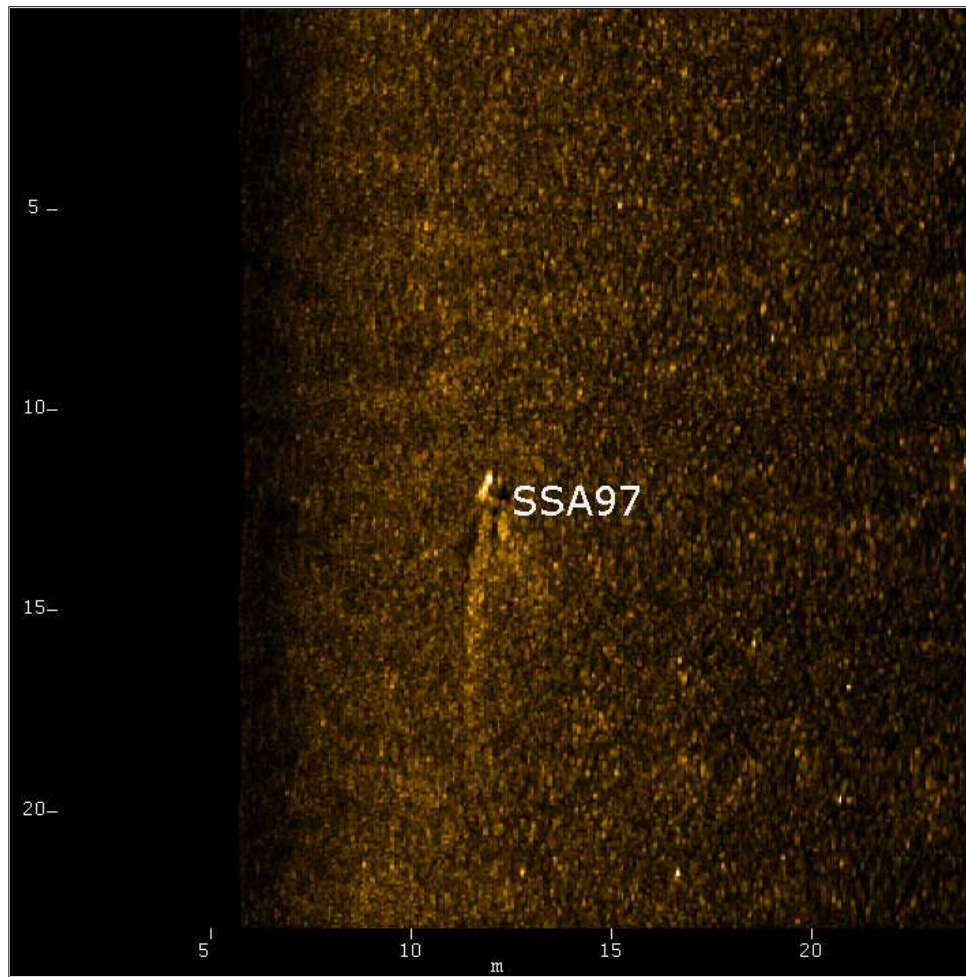
**Contact Info: SSA96**

- Sonar Time at Target: 09/24/2011 15:53:49
- Click Position (Lat/Lon Coordinates)
50.6880950928 -0.3414939940 (WGS84)
- Click Position (Projected Coordinates)
(X) 687781.00 (Y) 5618512.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 547247
- Range to Target: 21.70 Meters
- Fish Height: 5.16 Meters
- Heading: 275.200 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

SSA97

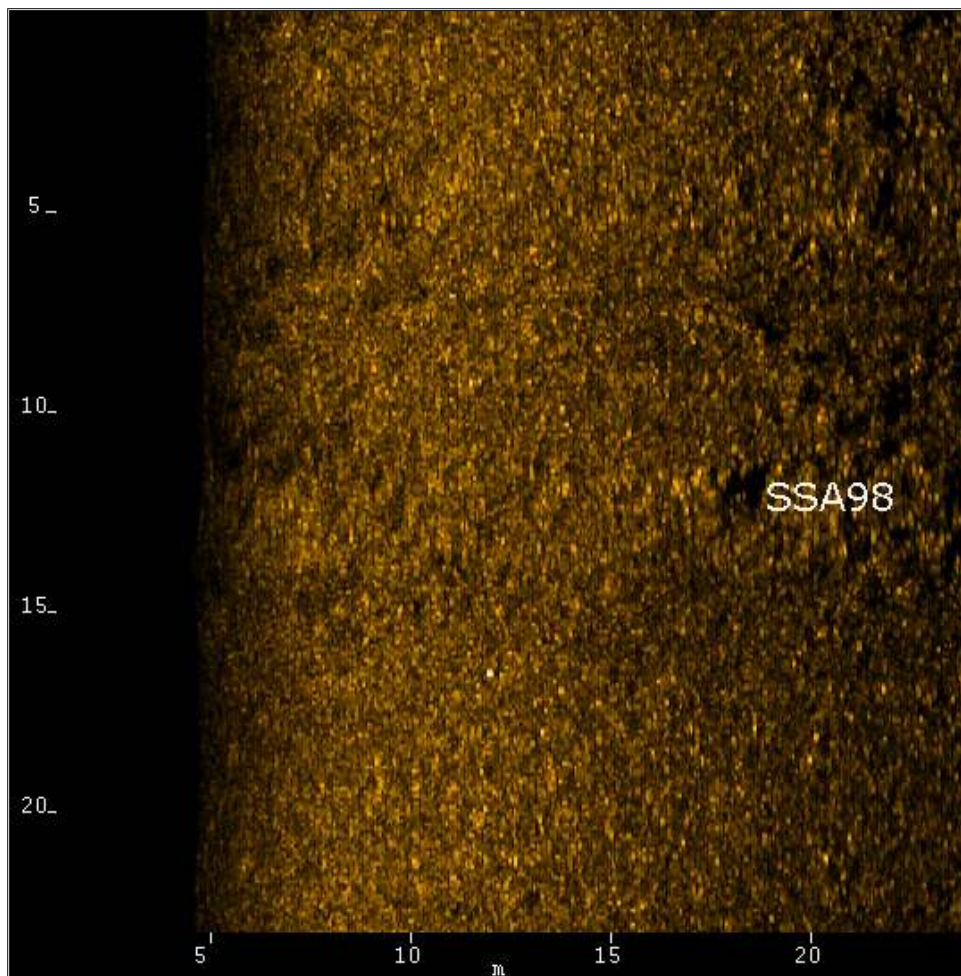
**Contact Info: SSA97**

- Sonar Time at Target: 09/24/2011 12:51:00
- Click Position (Lat/Lon Coordinates)
50.6874580383 -0.3432169855 (WGS84)
- Click Position (Projected Coordinates)
(X) 687661.81 (Y) 5618437.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924125000.xtf
- Ping Number: 227761
- Range to Target: 11.16 Meters
- Fish Height: 5.10 Meters
- Heading: 60.500 degrees
- Event Number: 0
- Line Name: C11030_110924125000

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder with scour trail

SSA98

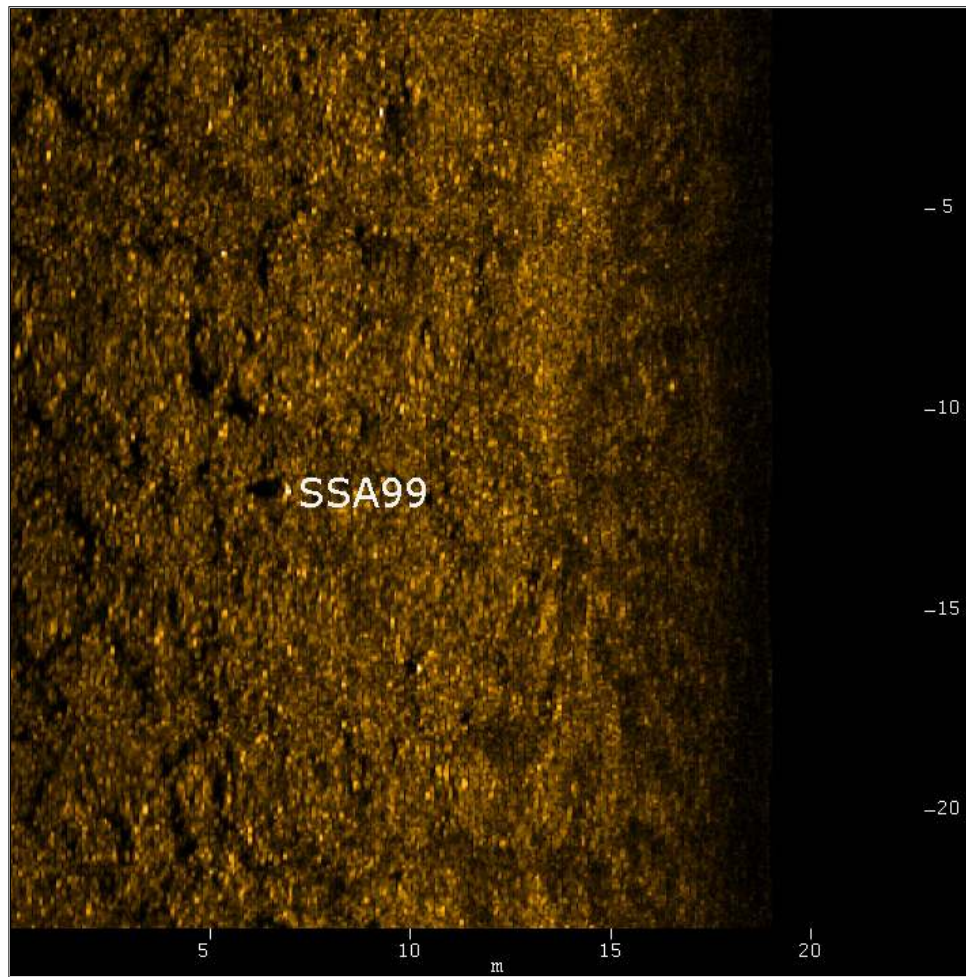
**Contact Info: SSA98**

- Sonar Time at Target: 09/24/2011 18:08:37
- Click Position (Lat/Lon Coordinates)
50.6882743835 -0.3418720067 (WGS84)
- Click Position (Projected Coordinates)
(X) 687753.56 (Y) 5618531.50
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924180700.xtf
- Ping Number: 782807
- Range to Target: 18.28 Meters
- Fish Height: 4.88 Meters
- Heading: 66.000 degrees
- Event Number: 0
- Line Name: C11030_110924180700

User Entered Info

Target Height: = 0 Meters
 Target Length: 2 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Small hollow
 Classification 2:
 Area:
 Block:
 Description: Small hollow in area of undulating rippled seafloor

SSA99

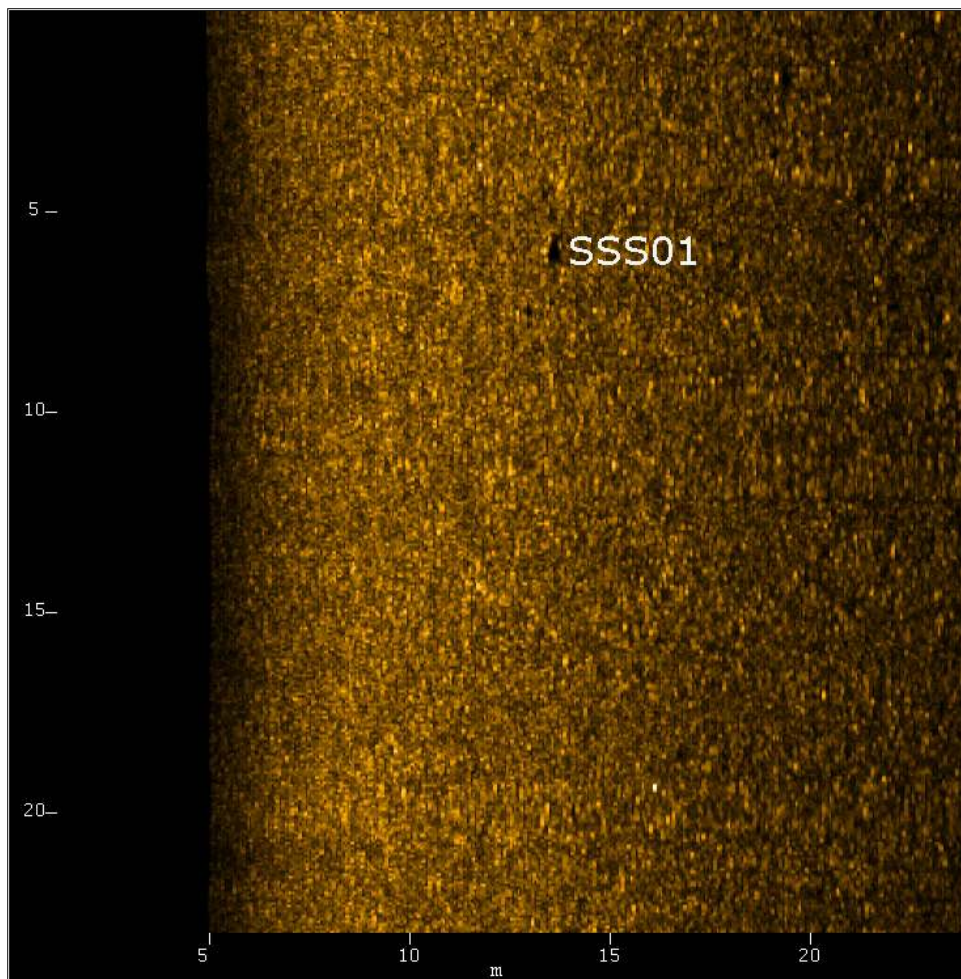
**Contact Info: SSA99**

- Sonar Time at Target: 09/24/2011 12:51:18
- Click Position (Lat/Lon Coordinates)
50.6877784729 -0.3428440094 (WGS84)
- Click Position (Projected Coordinates)
(X) 687686.88 (Y) 5618474.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924125000.xtf
- Ping Number: 228273
- Range to Target: 17.30 Meters
- Fish Height: 5.04 Meters
- Heading: 60.300 degrees
- Event Number: 0
- Line Name: C11030_110924125000

User Entered Info

Target Height: = 0 Meters
 Target Length: 0 Meters
 Target Shadow: 1 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Small Boulder
 Classification 2:
 Area:
 Block:
 Description: Small Boulder

SSS01

**Contact Info: SSS01**

- Sonar Time at Target: 09/24/2011 15:52:55
- Click Position (Lat/Lon Coordinates)
50.6882667542 -0.3400759995 (WGS84)
- Click Position (Projected Coordinates)
(X) 687880.44 (Y) 5618535.00
- Map Proj: UTM84-30N
- Acoustic Source File: G:\SSS
Xtfs\C11030_110924155300.xtf
- Ping Number: 545661
- Range to Target: 13.41 Meters
- Fish Height: 5.03 Meters
- Heading: 279.500 degrees
- Event Number: 0
- Line Name: C11030_110924155300

User Entered Info

Target Height: = 0 Meters
 Target Length: 1 Meters
 Target Shadow: 0 Meters
 Target Width: 0 Meters
 Mag Anomaly:
 Avoidance Area:
 Classification 1: Boulder
 Classification 2:
 Area:
 Block:
 Description: Boulder

APPENDIX 2. BIBLIOGRAPHY

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