

Danger to Navigation Report

2019 Summer Hydrographic Field

Course CCOM-UNH

June, 2019

Procedure:

Final MBES Surveys were compared with ENC (**US5NH02M**) TINS. Dangers to Navigations are reported here for Areas A-D and Area C of Summer Hydro 2019 Survey (Figure 1).

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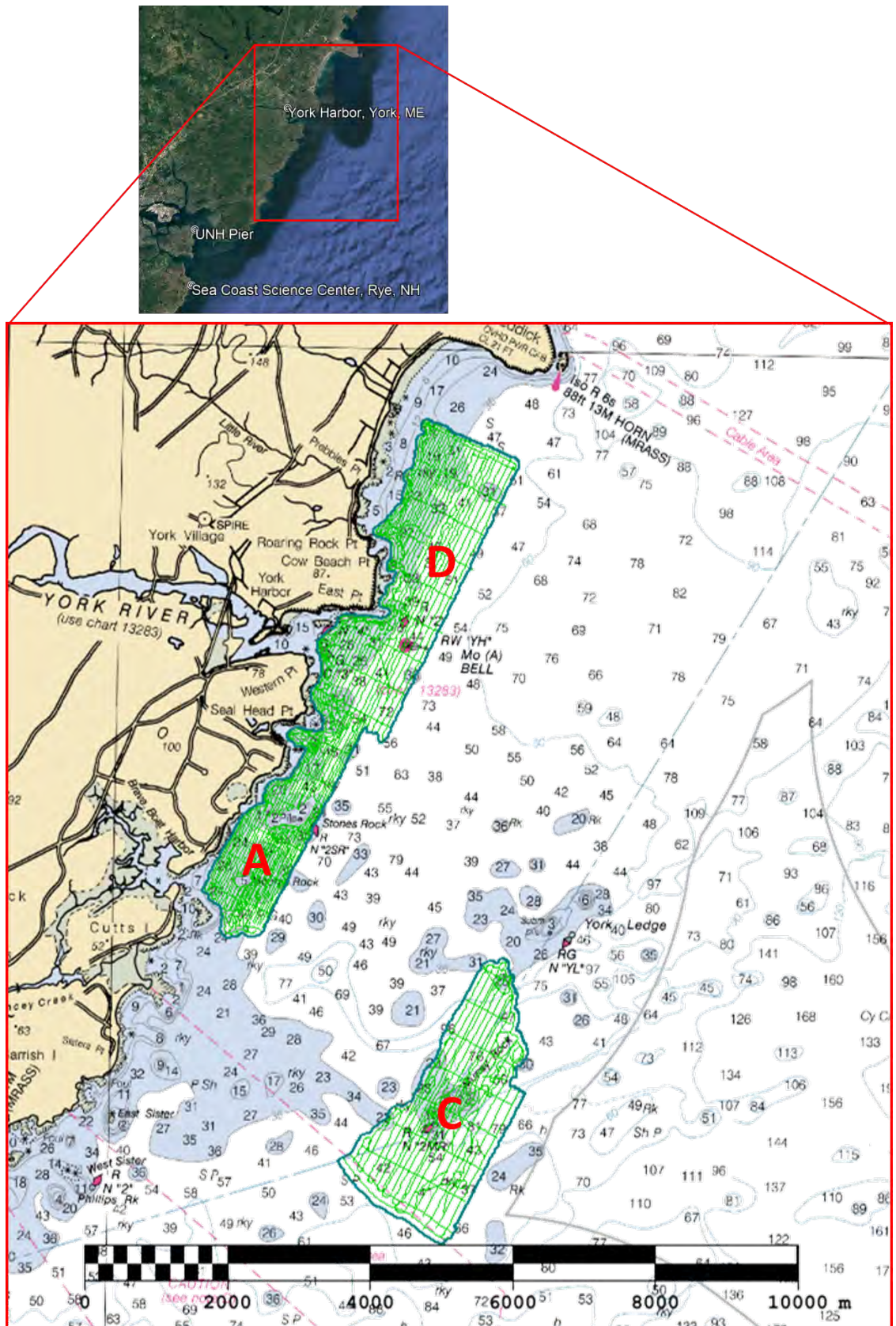


Figure1 : SummerHydro 2019 Survey Areas, A-D and C

DANGER TO NAVIGATION: Area A&D

Note: Ten (10) dangers to navigations are being submitted as the result of the SH2019 survey in Area A-D (Figures 2 and 3, Table 2).

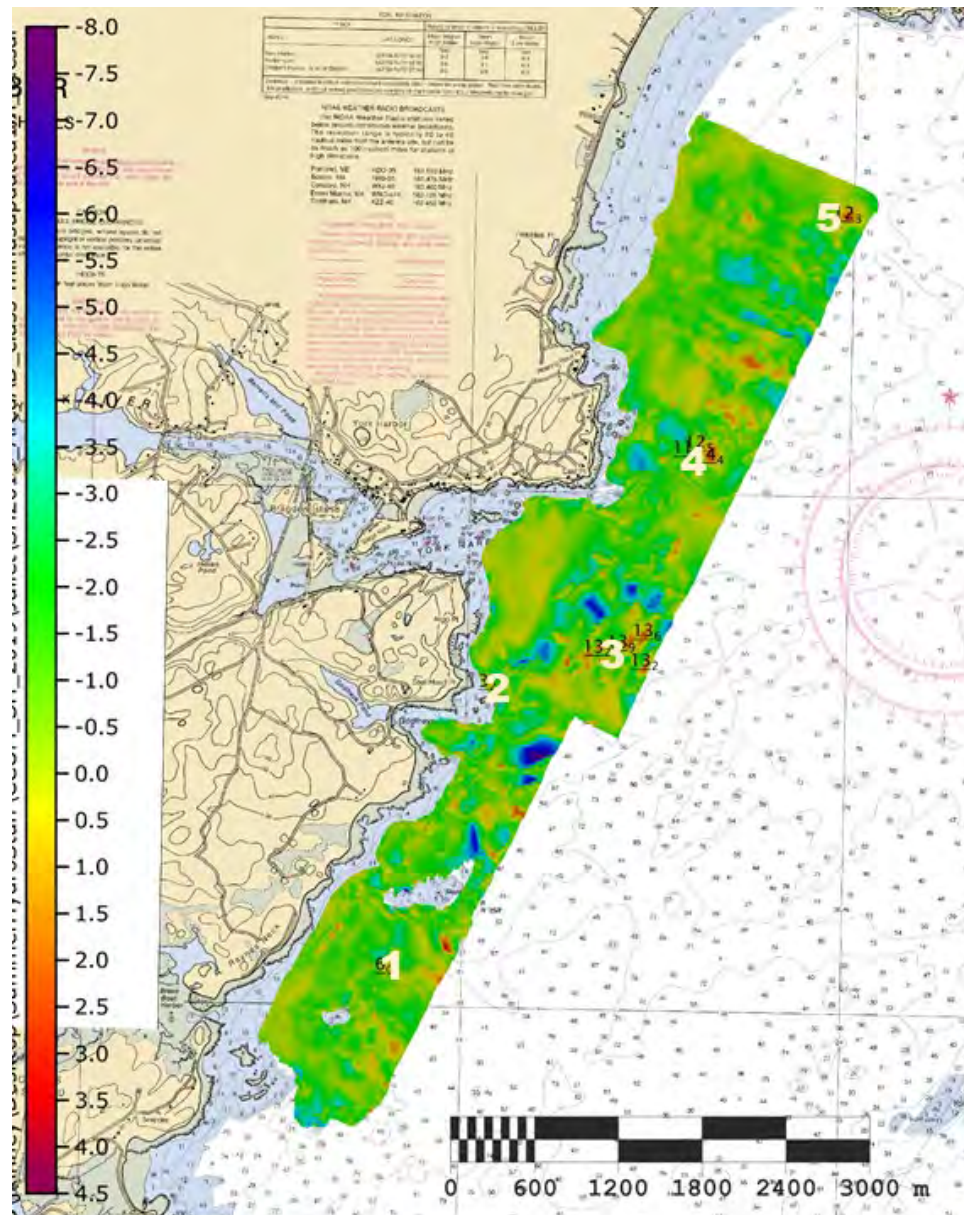


Figure 2: Area A&D difference surface showing the ten DTONS in five regions. Red shoaler/ blue deeper than ENC TIN (US5NH02M).

Table 2. Ten DTONS in A&D showing differences in ENC (US5NH02M) versus the SH2019 survey.

Area	Feature ID	Latitude (°N)	Longitude (°W)	Depth (m)	Difference ENC TIN US5NH02M (m)	Value ENC TIN (m)
1	US 00000000103 00001	43.102583N	070.640119W	-6.0	1.5	7.6
2	US 00000000106 00001	43.120985N	070.631514W	-3.2	4.2	7.5
3	US 00000000074 00001	43.122487N	070.617700W	-13.2	3.4	16.6
	US 00000000077 00001	43.123319N	070.621889W	-13.2	3.2	16.4
	US 00000000076 00001	43.123665N	070.619747W	-13.9	3.0	17
	US 00000000075 00001	43.124408N	070.617504W	-13.6	3.0	16.6
4	US 00000000069 00001	43.135836N	070.612310W	-14.4	3.4	17.8
	US 00000000070 00001	43.136222N	070.614349W	-11.3	2.8	14.9
	US 00000000104 00001	43.136615N	070.613252W	-12.5	2.9	15.4
5	US 00000000105 00001	43.151561N	070.600560W	-12.3	2.6	16.4

DANGER TO NAVIGATION: Area C

Note: Ten (10) dangers to navigations were found in SH2019 survey in Area C (Figures 4, 5, and 6 and Table 3).

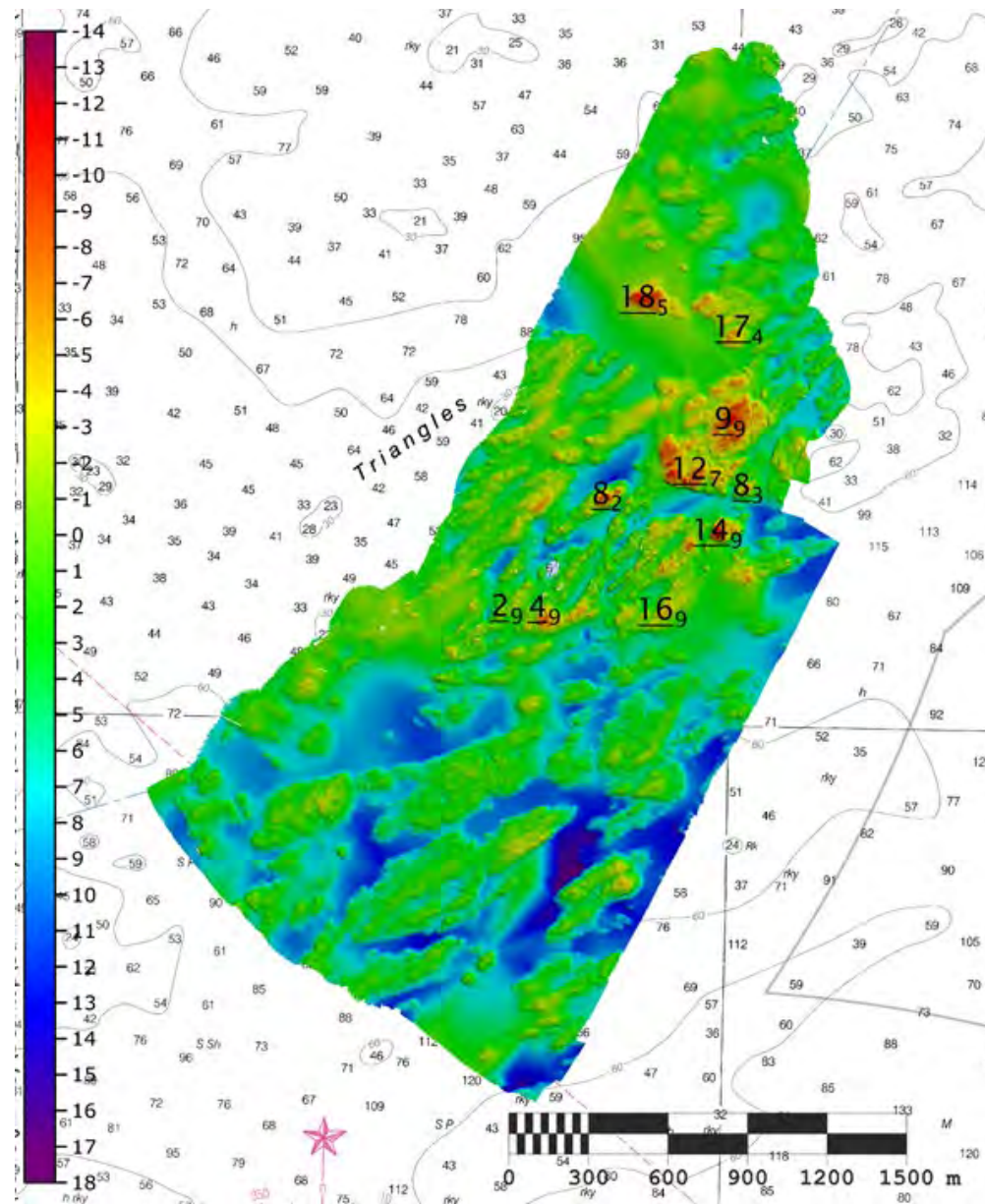


Figure 3: Area A&D SH2019 surface difference with ENC US5NH02M TIN showing ten DTONs.

Table 3. DTONs from Area C showing differences in ENC US5NH02M versus the SH2019 survey.

Feature ID	Latitude (°N)	Longitude (°W)	Depth (m)	Difference from ENC TIN US5NH02M	Value ENC TIN (m)
US 0000000054 00001	43.070535N	070.610314W	-2.9	2.6	5.4
US 0000000055 00001	43.070514N	070.608606W	-4.9	5.8	10.6
US 0000000056 00001	43.073238N	070.600620W	-14.9*	13.5	28.5
US 0000000057 00001	43.074796N	070.599297W	-8.3	9.3	17.6
US 0000000058 00001	43.077035N	070.600178W	-9.9	12.7	22.6
US 0000000059 00001	43.081111N	070.604252W	-18.5	11.1	29.7
US 0000000060 00001	43.080165N	070.599818W	-17.4	5.7	23.1
US 0000000061 00001	43.075321N	070.601644W	-12.7*	10.0	12.7
US 0000000062 00001	43.074426N	070.605810W	-8.2	10.1	18.2
US 0000000064 00001	43.070519N	070.603116W	-16.9*	5.4	22.4

SH2019 DtoNs 1-10 AD & SH2019 DtoNs 1-10 C

Registry Number:

State: Maine

Locality: Gulf of Maine

Sub locality: Near Shore York Harbor

Project Number:

Survey Dates: 06/10/2019, 06/13-06/14/2019, 06/17-06/21/2019, and 06/24-06/25/2019

Charts Affected:

Table 4: Charts Affected. Charts used in DTON comparison in bold.

Chart Name	Chart Scale	Edition	Edition Date	NM Date
RNC 13278	1:20,000	28	08/27/2013	
RNC 13283	1:20,000	23	12/09/2014	01/12/2017
RNC 13286	1:80,000	34	3/19/2019	03/02/2017
ENC US5NH02M	1:20,000	29	3/18/2019	3/18/2019

Features

AREA AD

(Area 5)

12.3m DtoN 1-A:

US 0000000105 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.151561°N 70.600560°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.03m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

N/A

S-57 Data

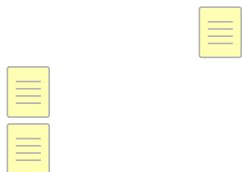
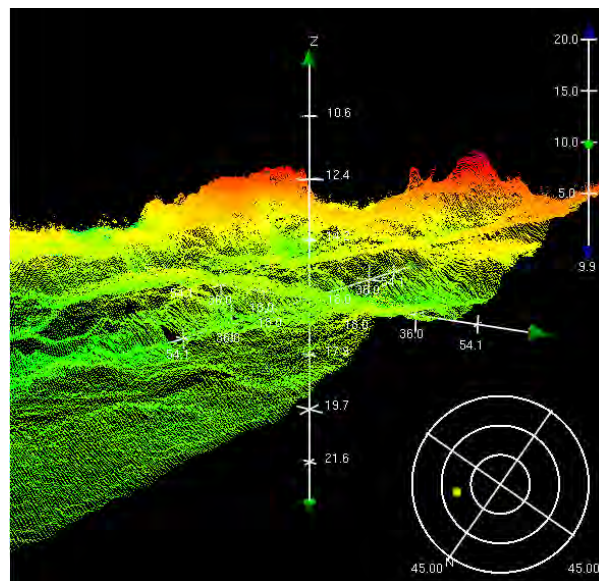
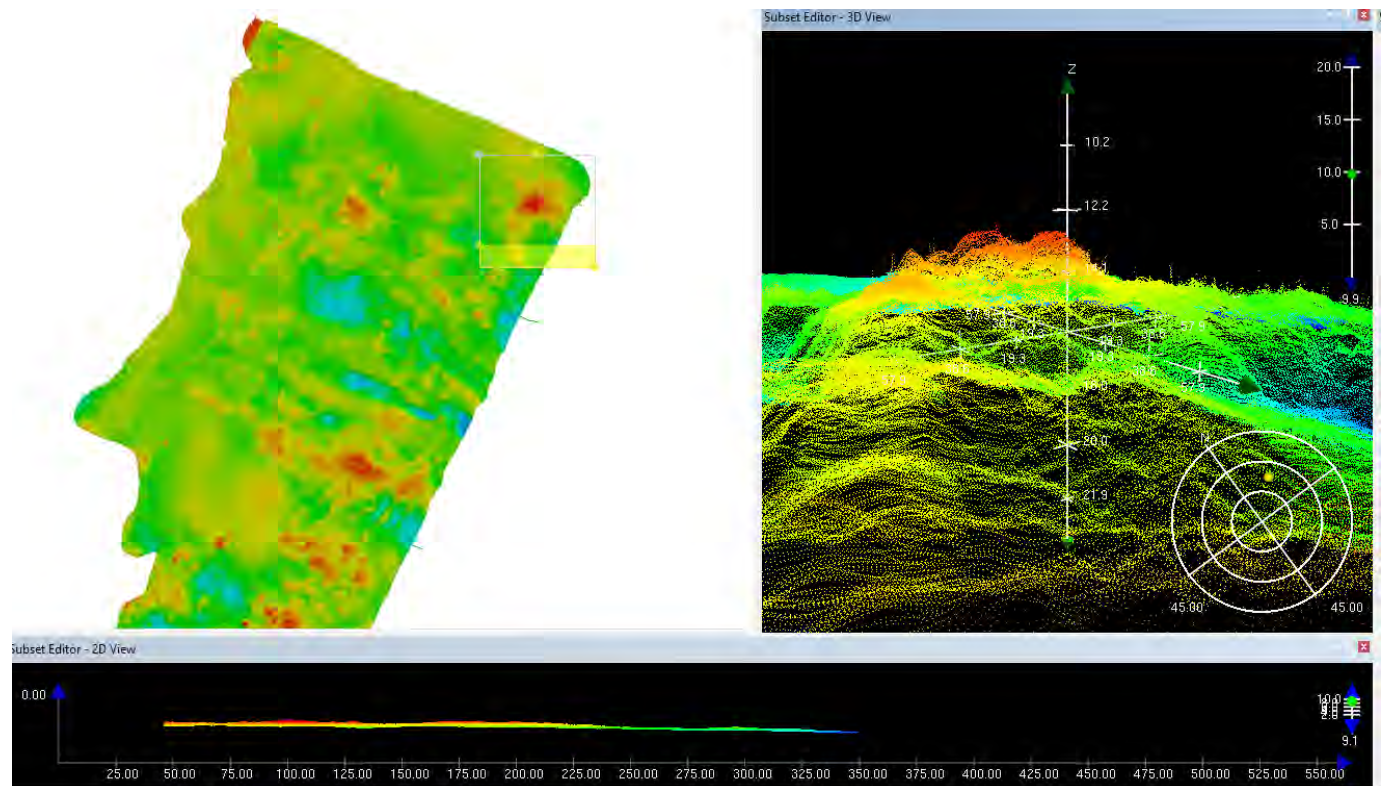
Geo Object 1: Depth discrepancy

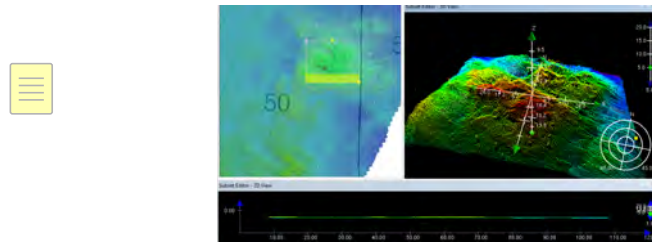
Attributes:

SORDAT – 20190625

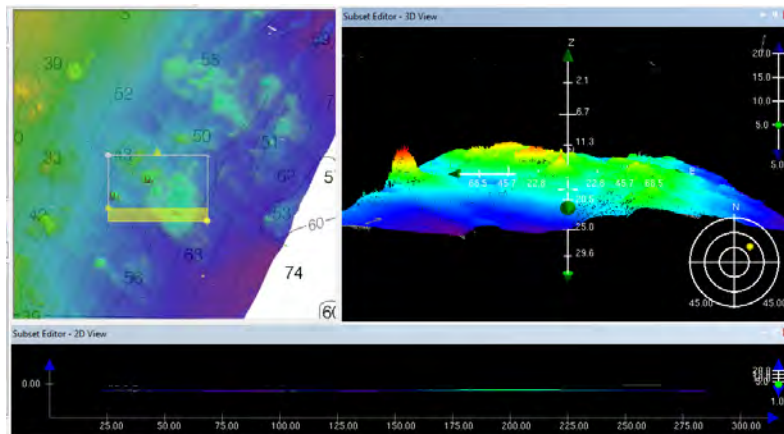
Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN



Area 4 (Multiple shoals) Overview Image:



12.5m DtoN 1-A:

US 0000000104 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.136615°N 070.613252°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.13 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

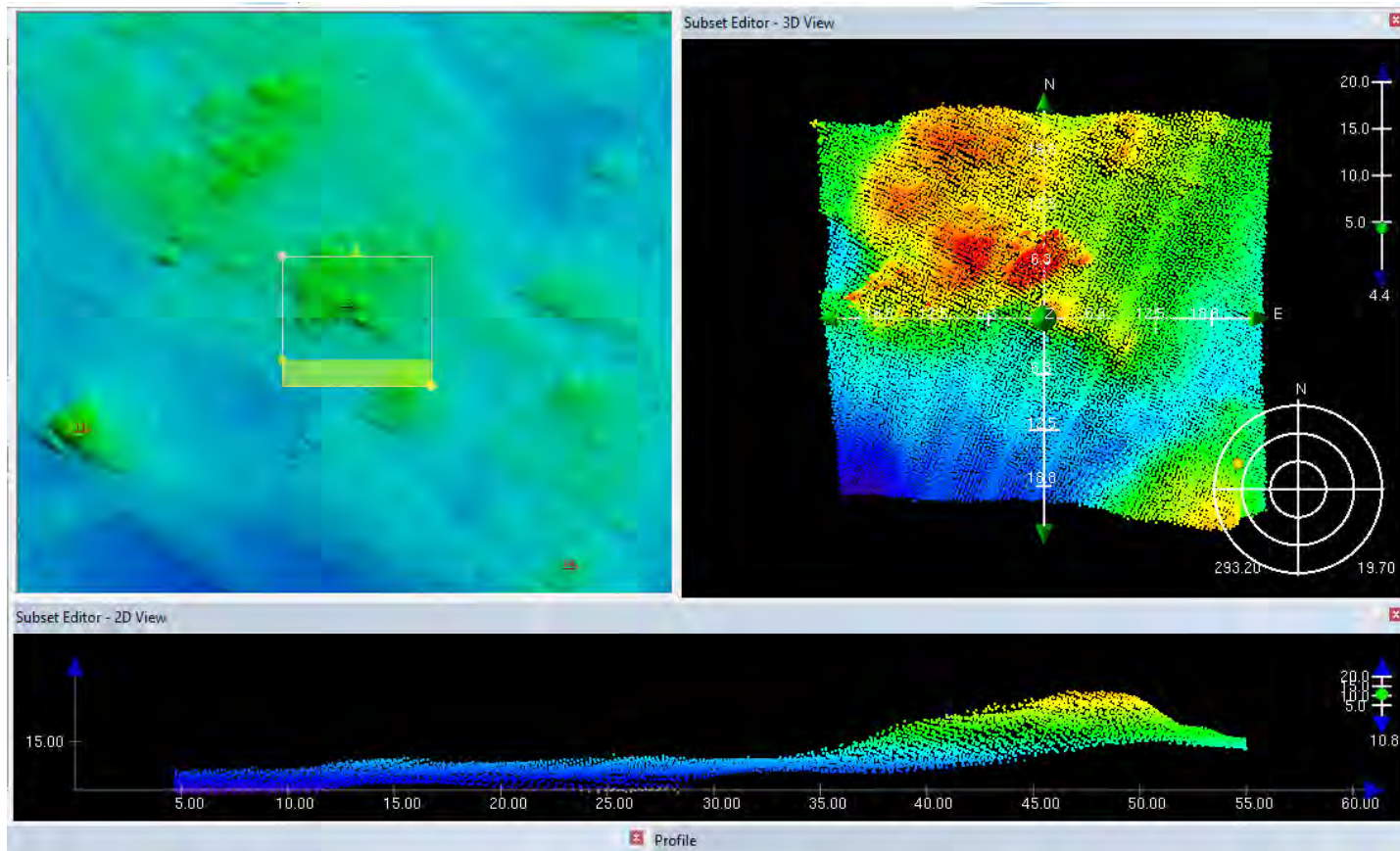
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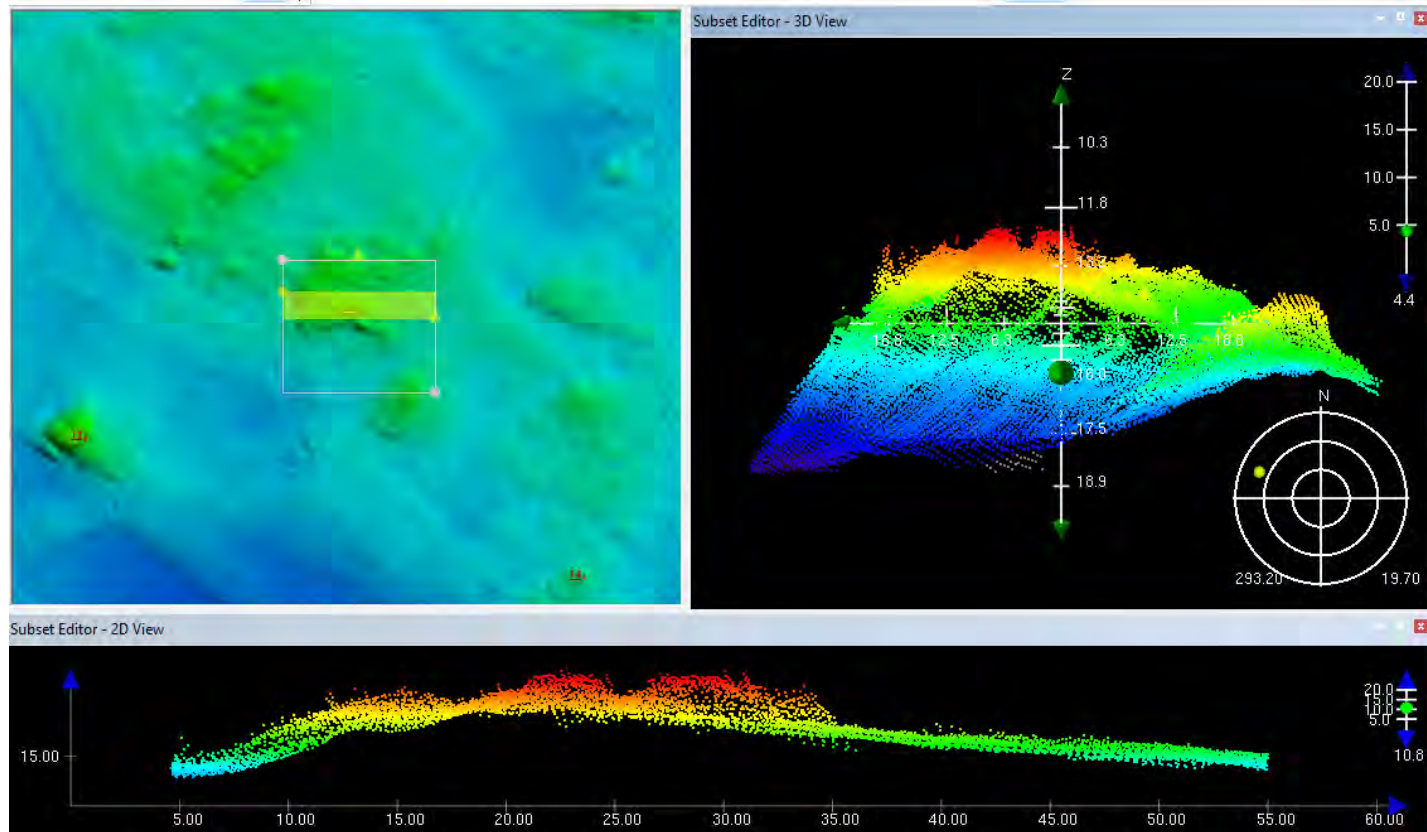
SORDAT – 20190625

Office Notes:

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Image of DtoN





11.3m DtoN 1-A:

US 0000000070 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.136222°N 070.614349°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.10 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

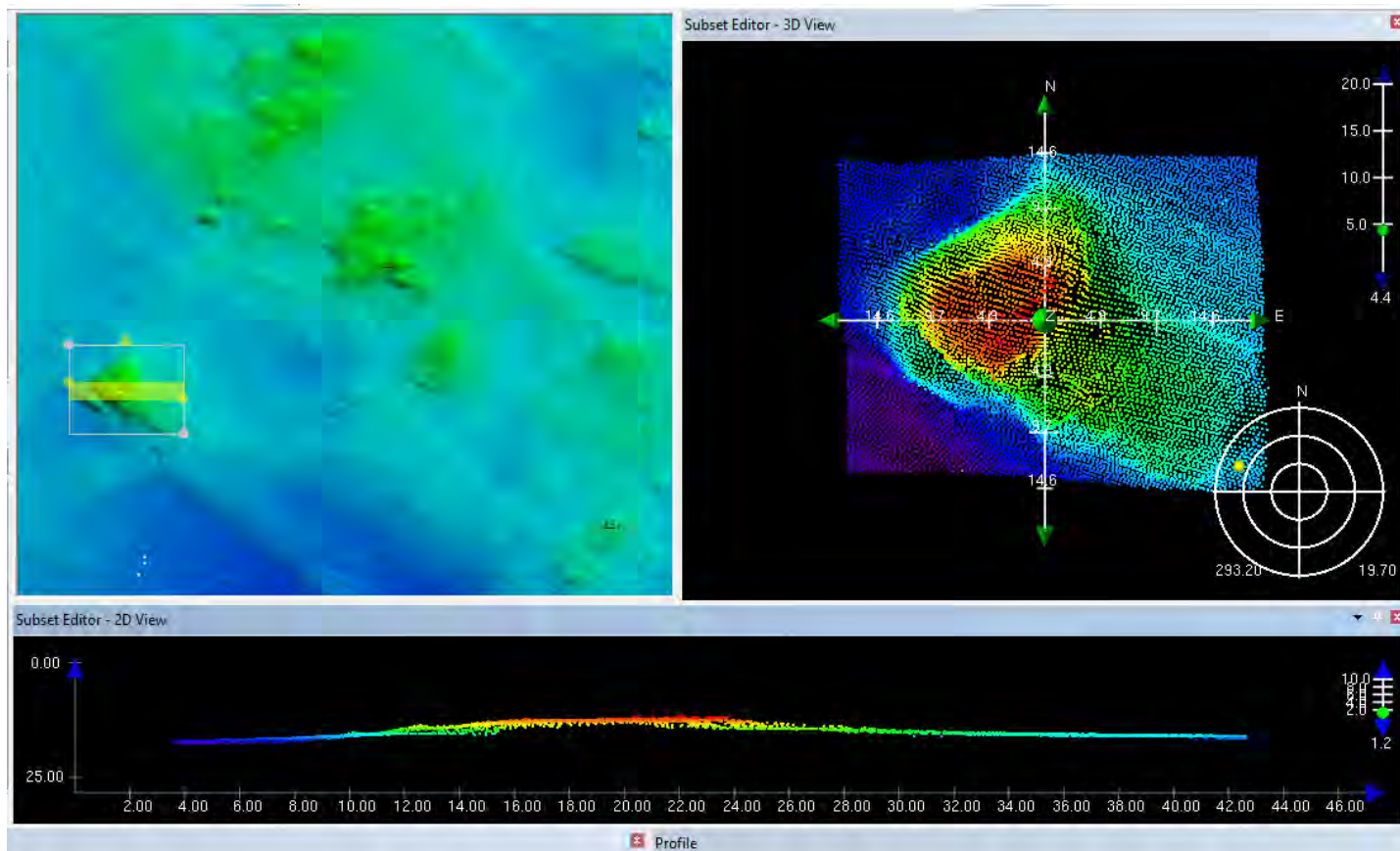
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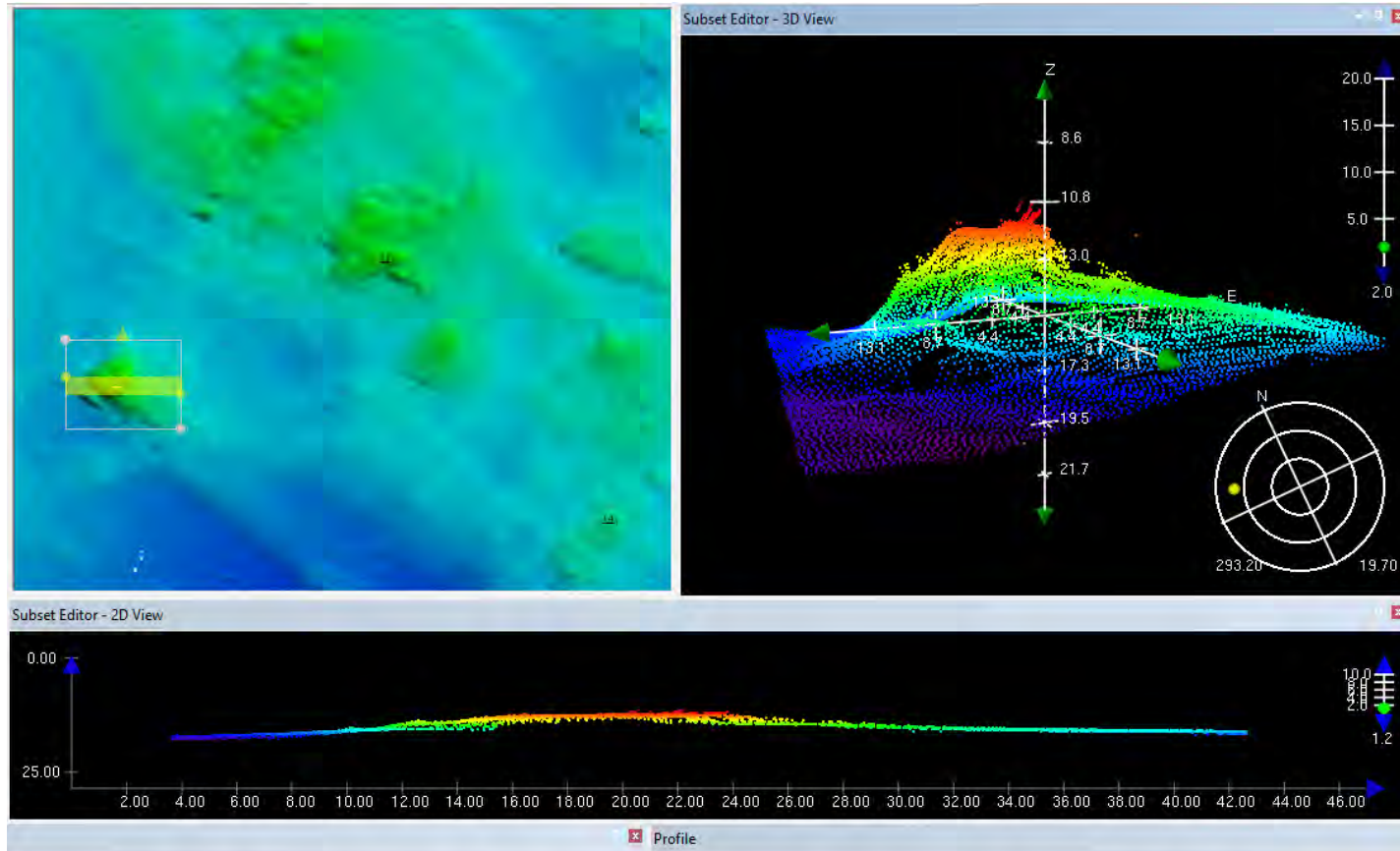
SORDAT – 20190625

Office Notes:

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Image of DtoN



**14.4m DtoN 1-A:**

US 0000000069 00001

Danger to Navigation
Survey Summary**Survey Positon:** 43.135836°N 070.61231°W**Least Depth:****TPU (1.96 sigma):** Uncertainty = 0.13 m**Time Stamp:** 2019-YDN. HH:MM:SS.SSS (06/25/2019)**Data Set:** ShoalerthanChart_DTON_SH2019_AreaAD.hob**FOID:** XX XXX**Charts Affected:** RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M**Remarks:** Significant discrepancy between charted and mapped depth.**Feature Correlation:**

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

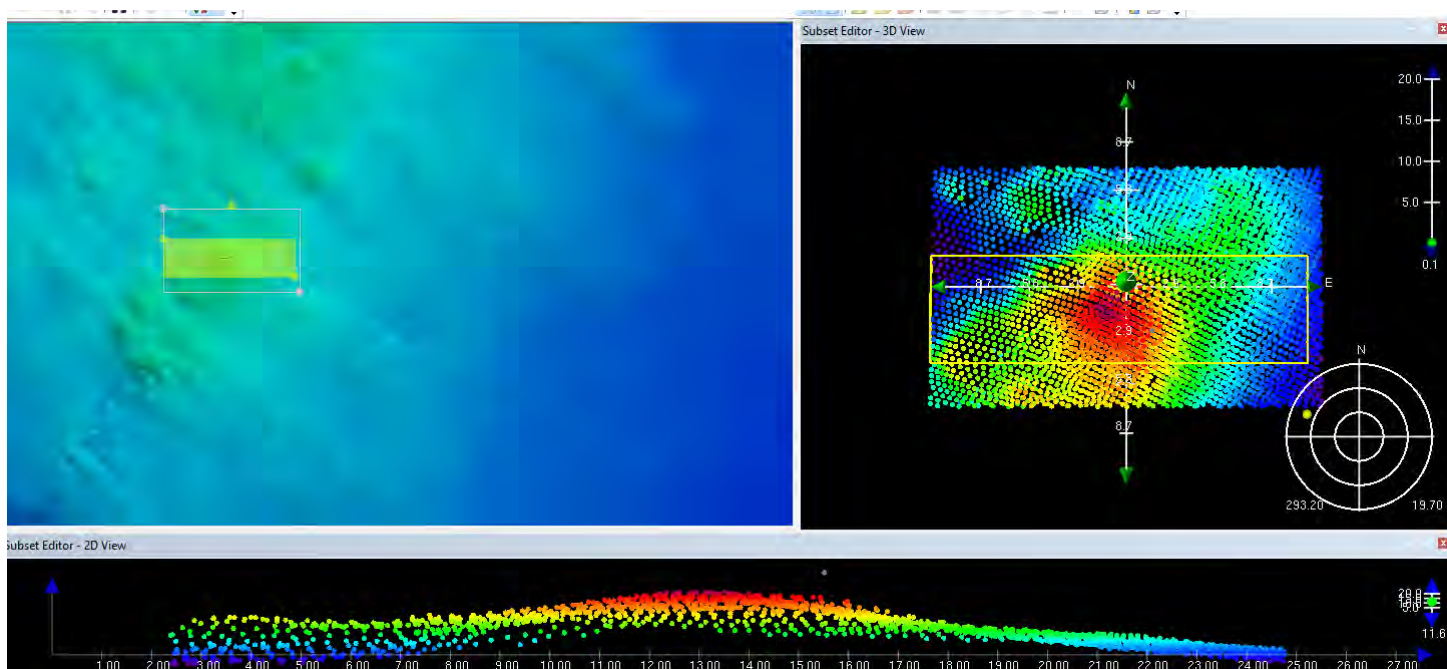
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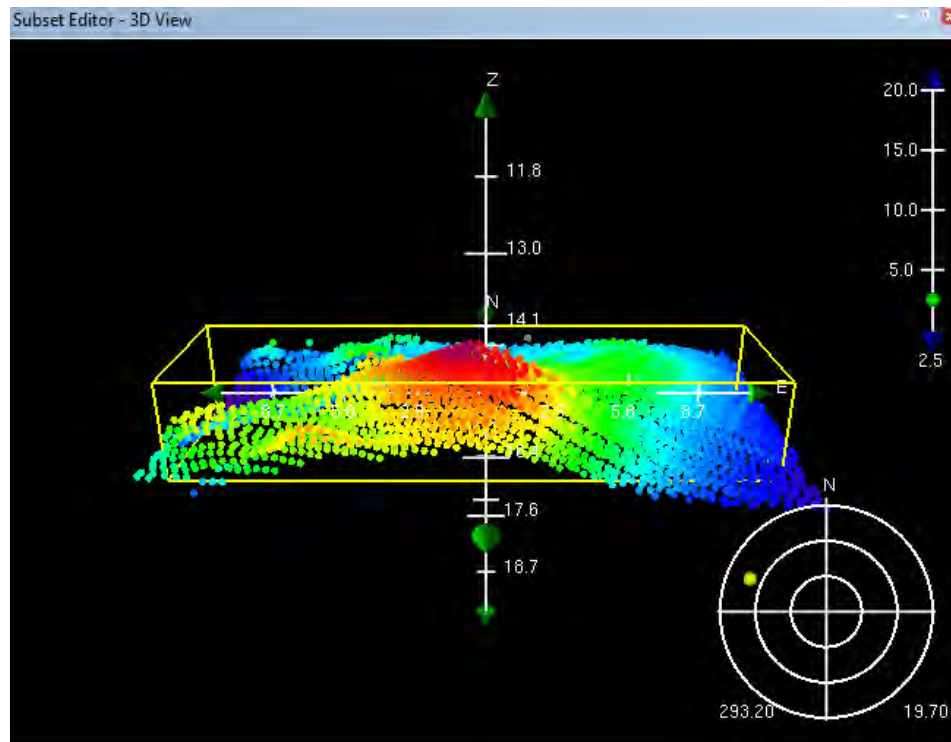
SORDAT – 20190625

Office Notes:

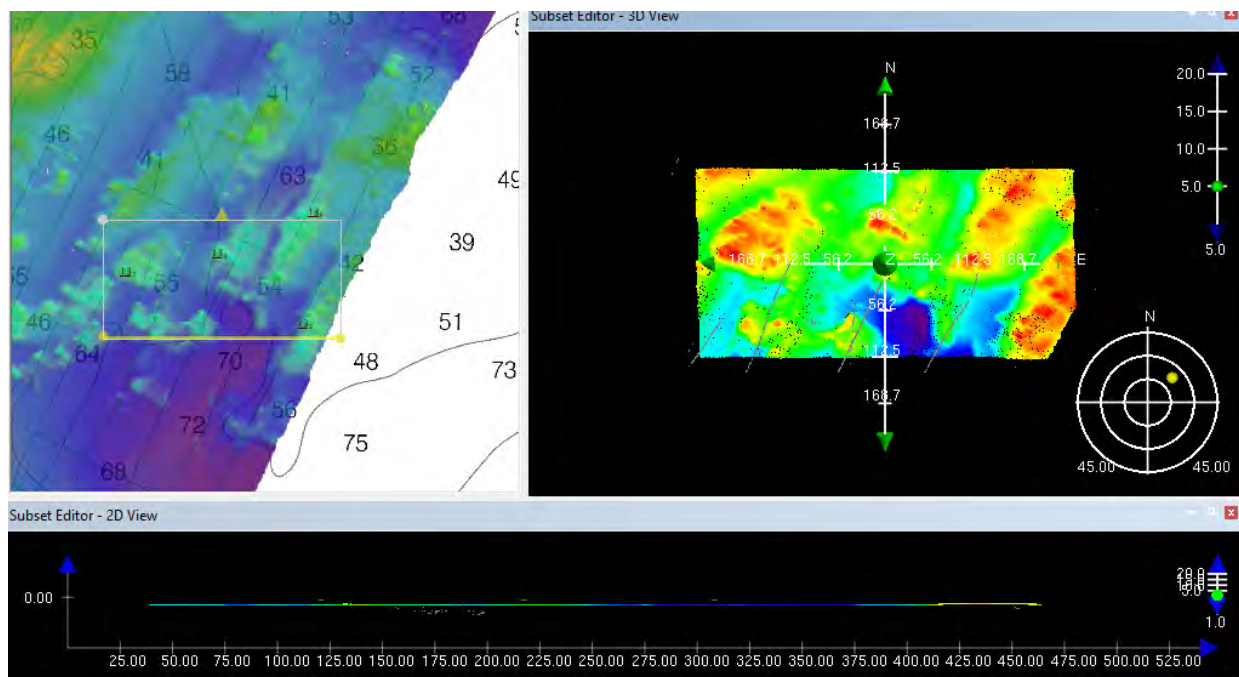
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Image of DtoN





Area 3 Overview 4 Shoals:



(Area 3)

13.2m DtoN 1-A:

US 0000000077 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.123319°N 70.621889°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.09 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

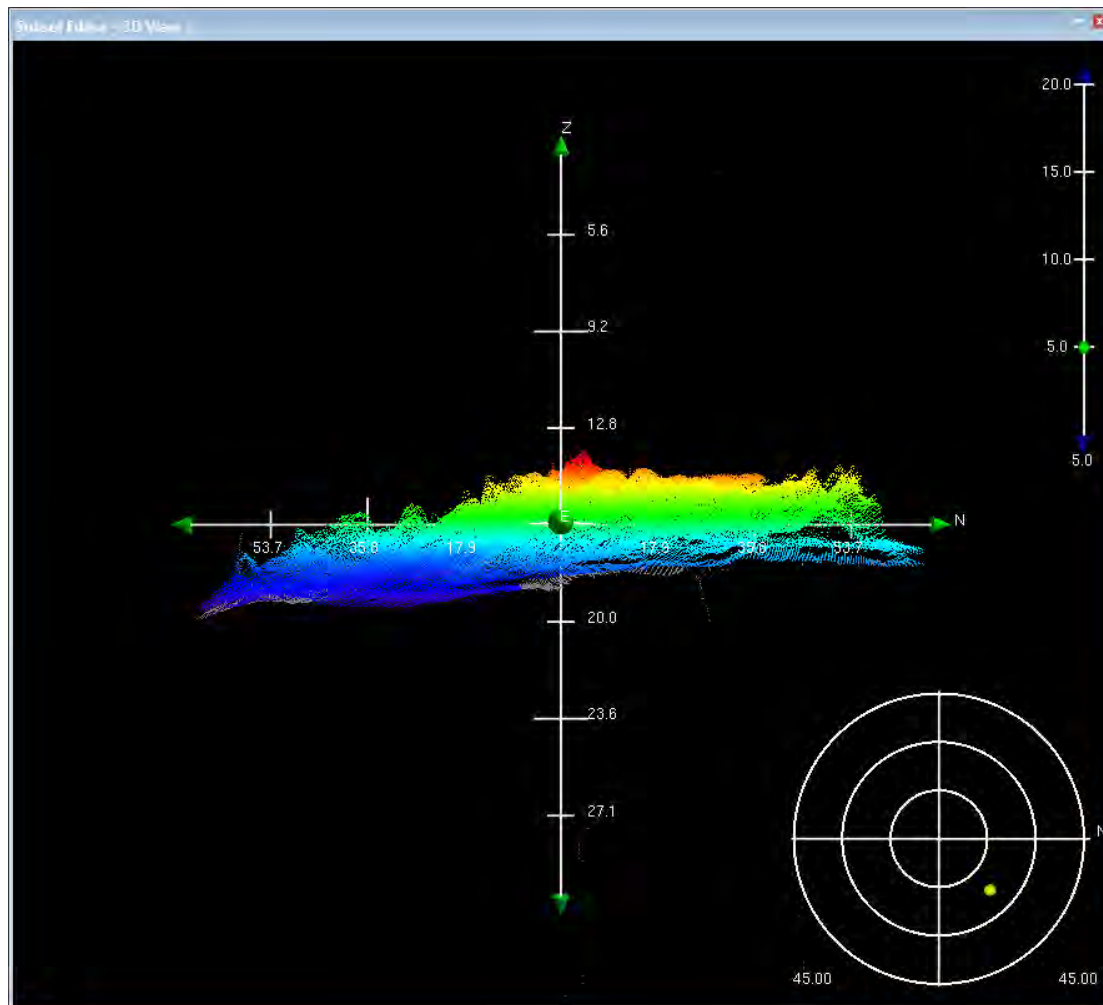
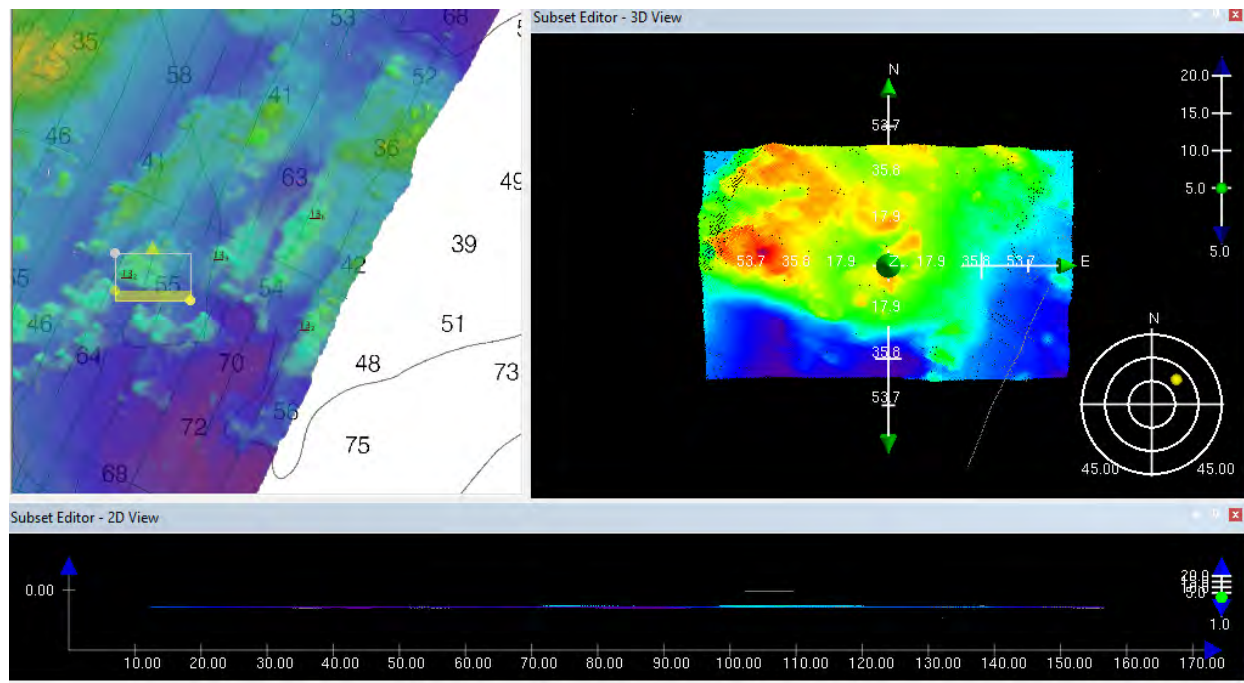
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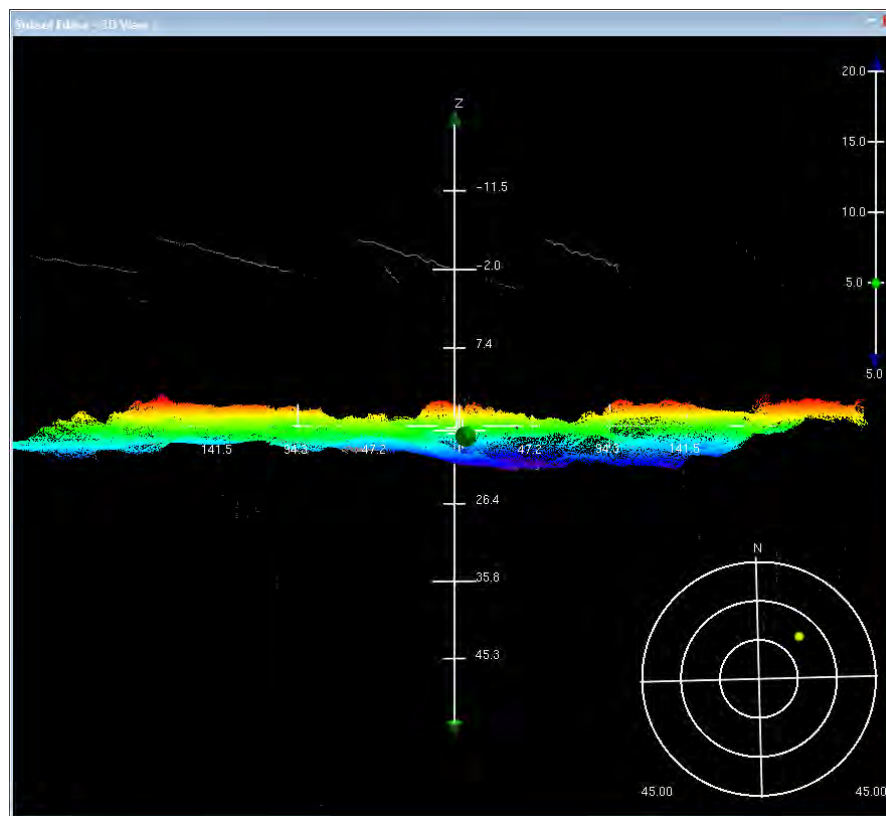
SORDAT – 20190625

Office Notes:

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Image of DtoN



**13.9m DtoN 1-A:**

US 0000000076 00001

Danger to Navigation
Survey Summary**Survey Positon:** 43.123665°N 070.619747°W**Least Depth:****TPU (1.96 sigma):** Uncertainty = 0.08 m**Time Stamp:** 2019-YDN. HH:MM:SS.SSS (06/25/2019)**Data Set:** ShoalerthanChart_DTON_SH2019_AreaAD.hob**FOID:** XX XXX**Charts Affected:** RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M**Remarks:** Significant discrepancy between charted and mapped depth.**Feature Correlation:**

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

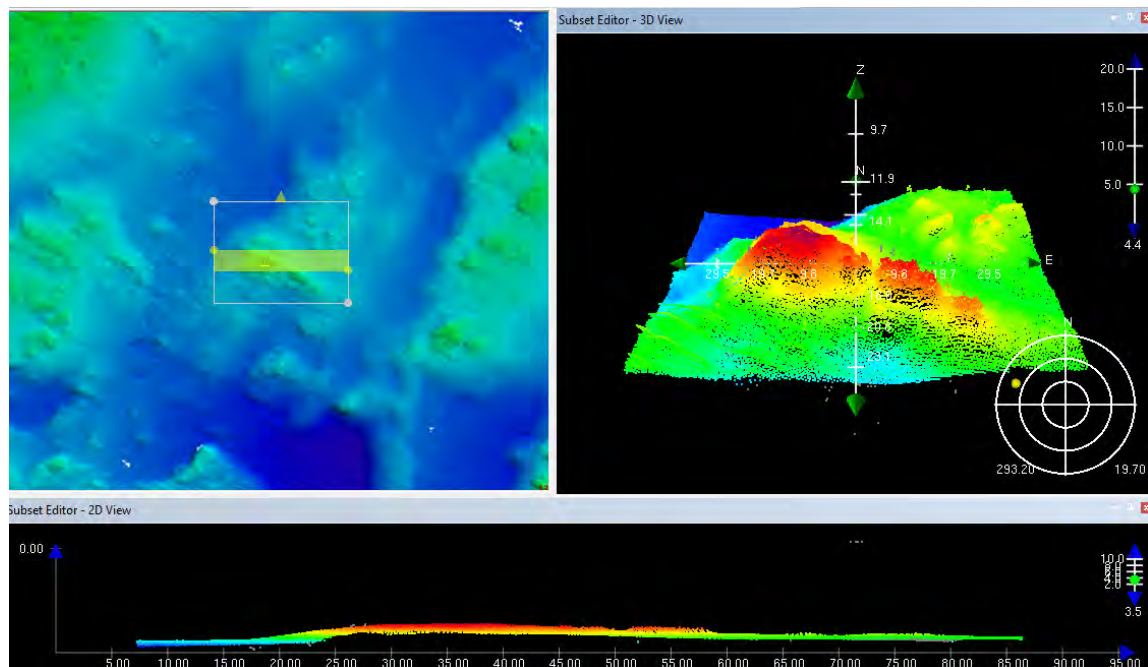
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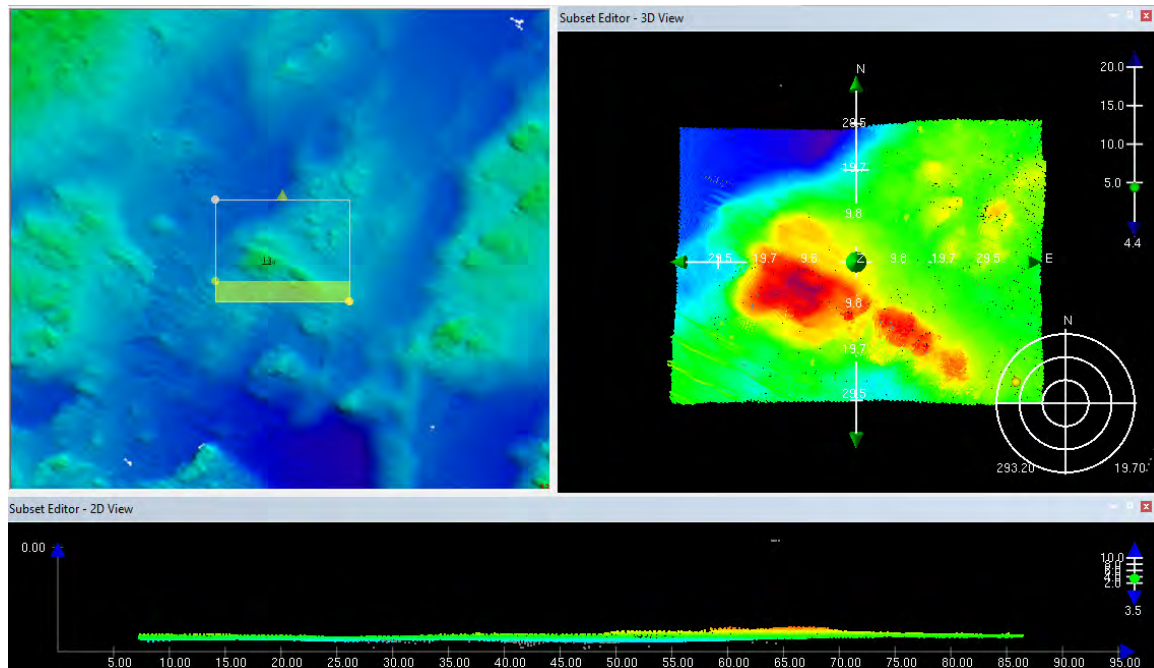
SORDAT – 20190625

Office Notes:

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Image of DtoN





13.2m (Xft) DtoN 1-A:

US 0000000074 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.122487°N 070.617700°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.04 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

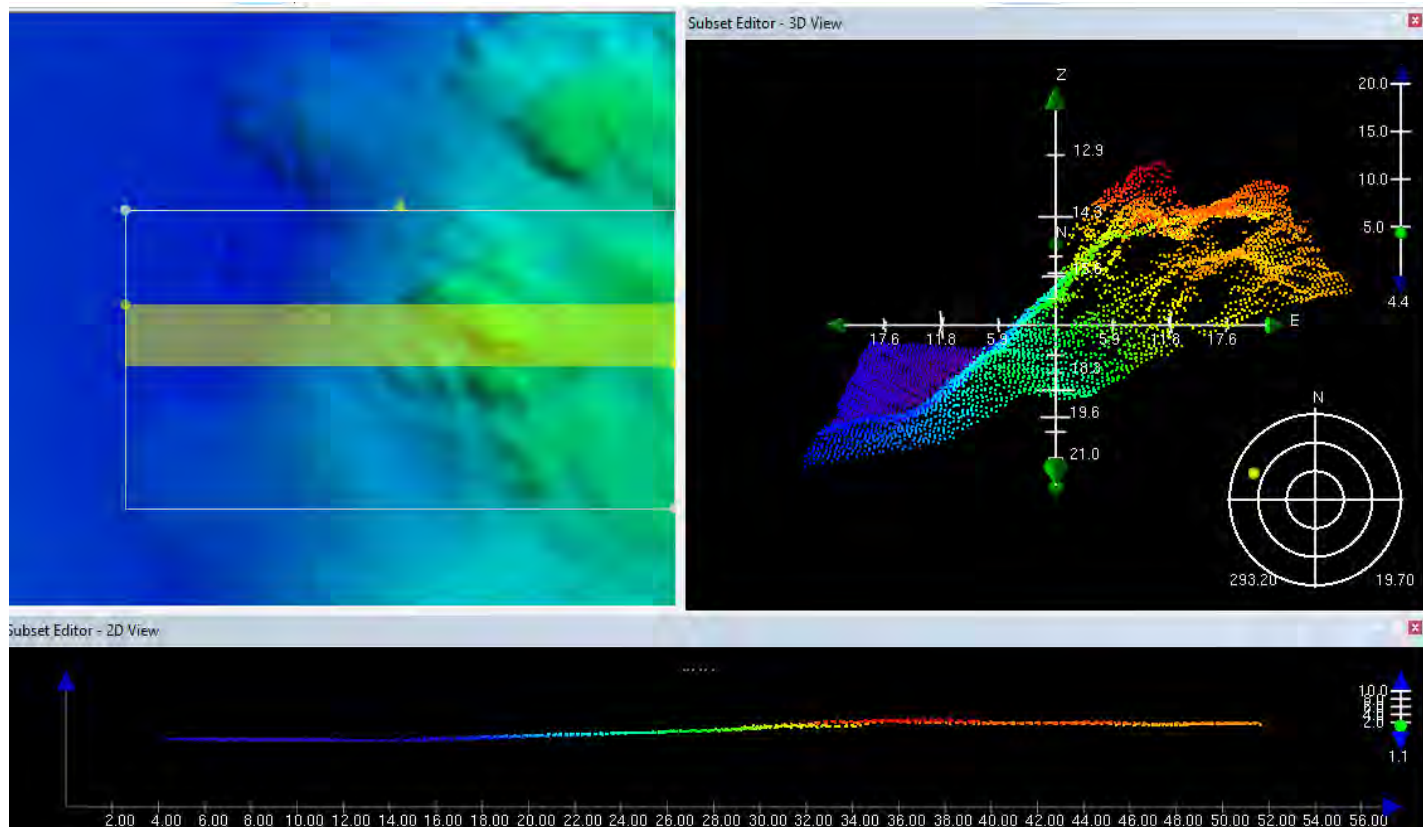
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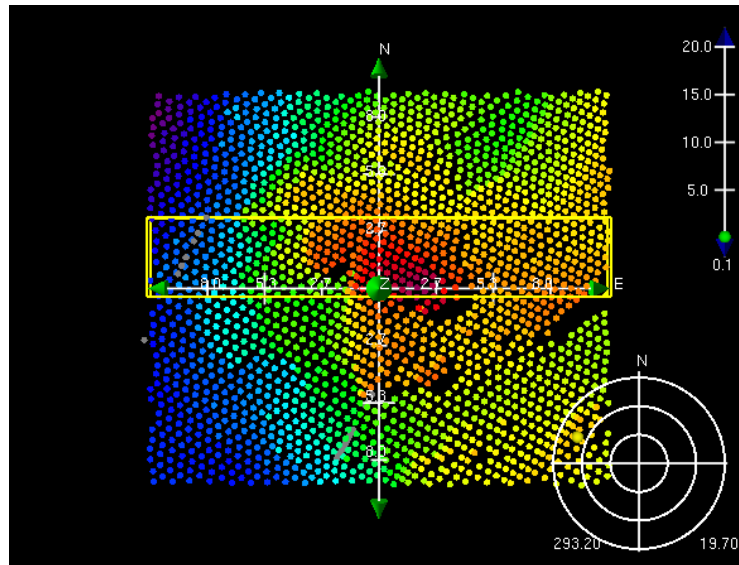
S-57 Data**Geo Object 1:** Depth discrepancy**Attributes:**

SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN



13.6m Dton 1-A:

US 0000000075 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.124408°N 070.617504°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.05 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

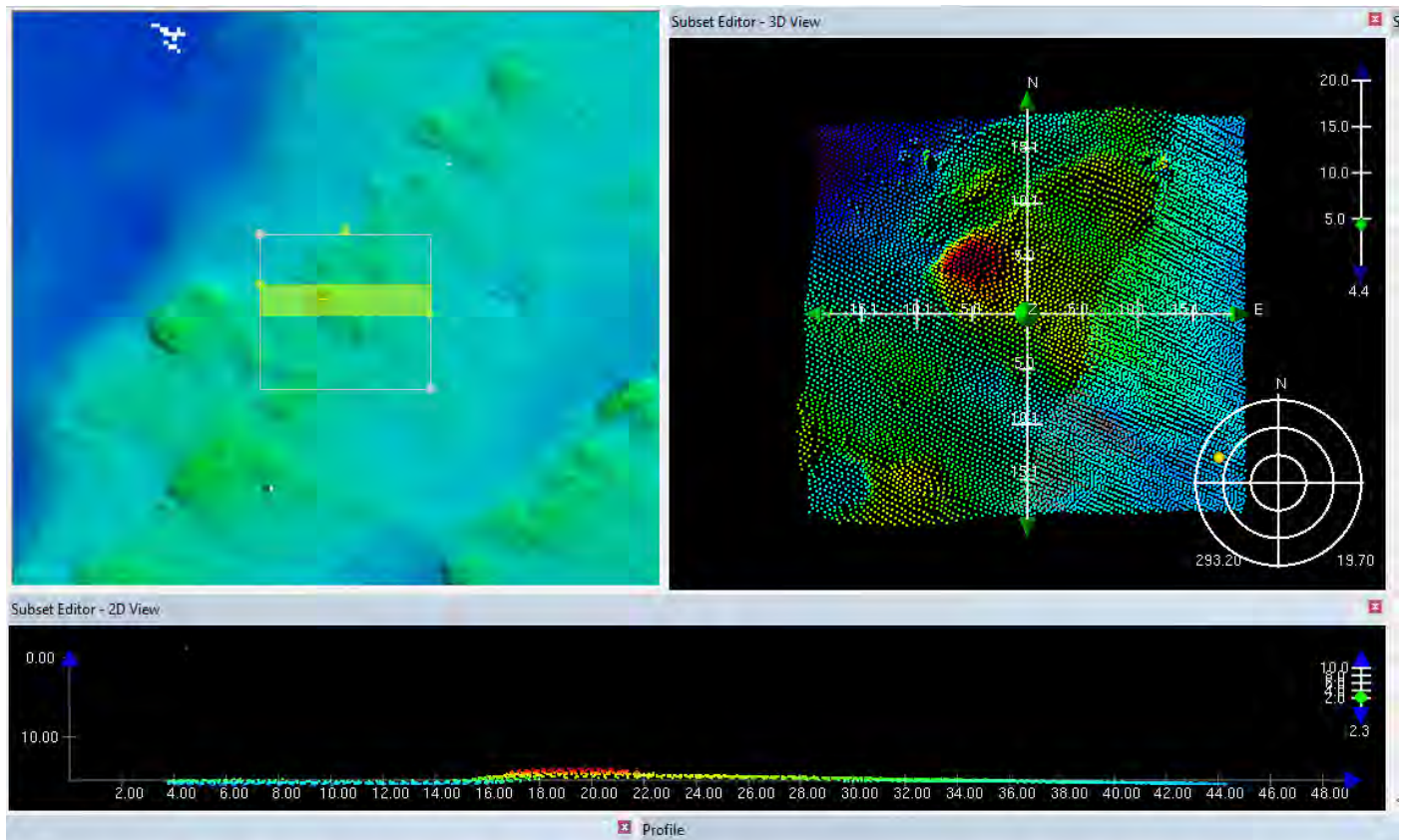
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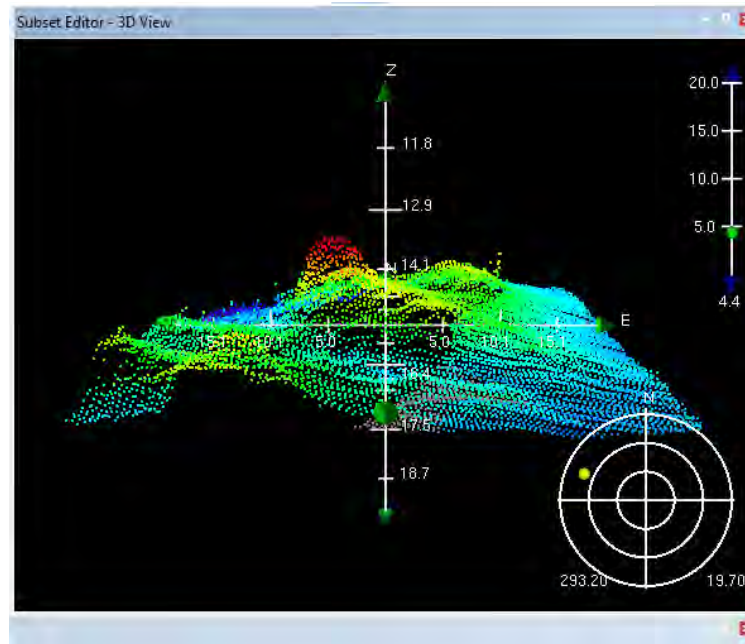
SORDAT – 20190625

Office Notes:

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Image of DtoN





Area 2

3.2m DtoN 1-A:

US 0000000106 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.120985N °N 070.631514W °W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.05 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

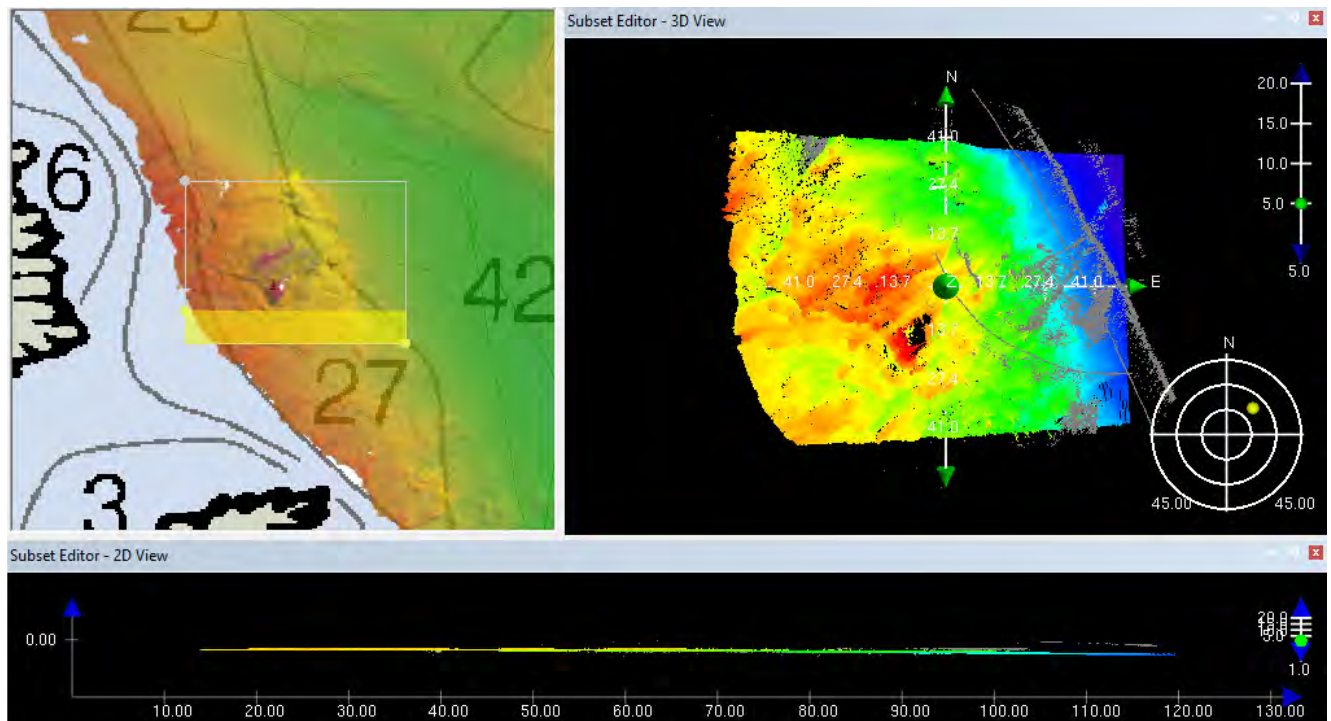
Attributes:

SORDAT – 20190625

Office Notes:

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Image of DtoN



Area 1

6.0m DtoN 1-A:

US 0000000103 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.102583°N 70.640119°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.06 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaAD.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaAD.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

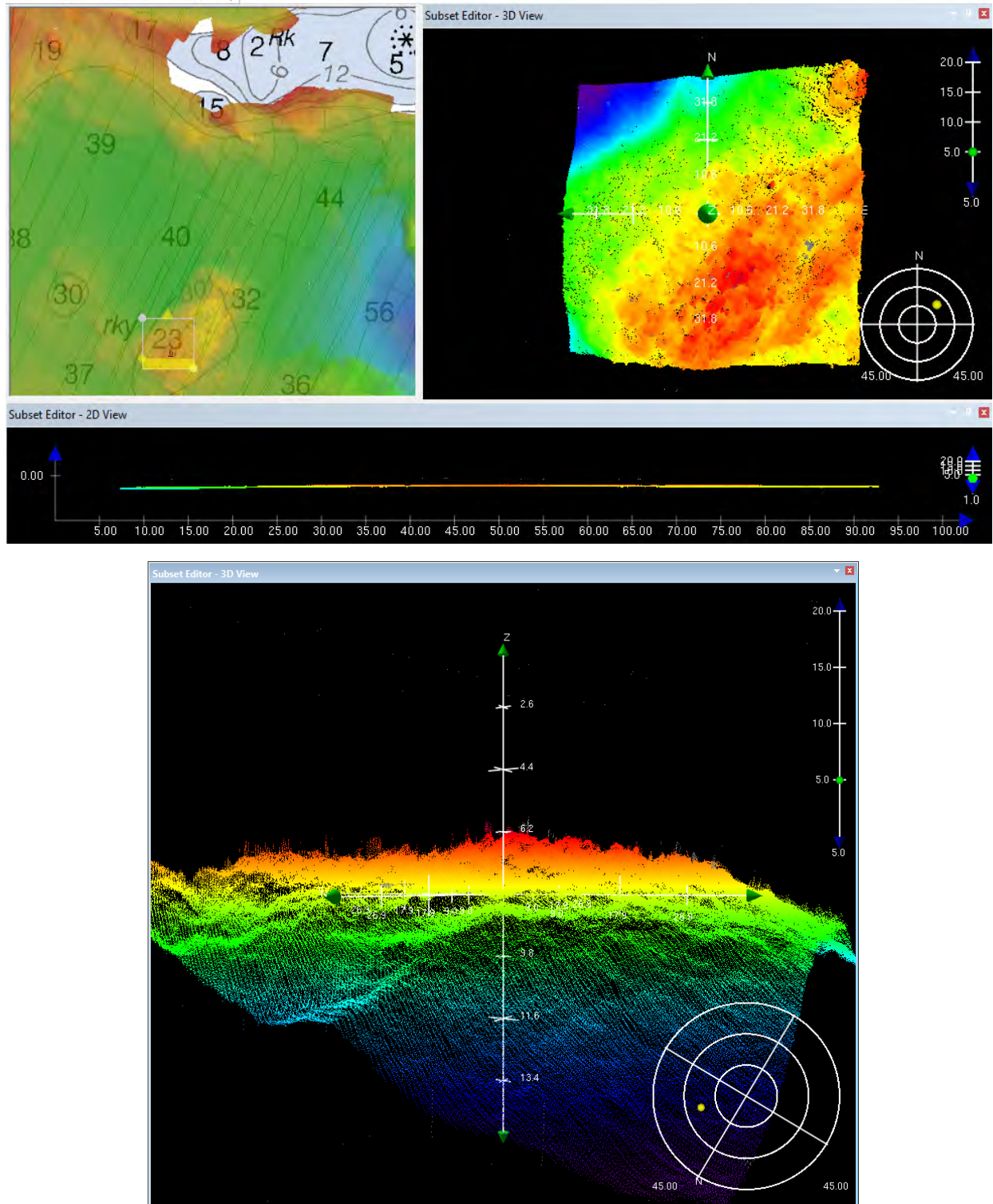
Attributes:

SORDAT – 20190625

Office Notes:

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Image of DtoN



AREA C

Note: Depths with an asterisk, had different depth results within 0.1m with different CUBE settings. (Actual values different less than 0.05, only looking at one significant digit makes it look like are larger difference.)

2.9m DtoN 1-A:

US 0000000054 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.070535°N 70.610314°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.19 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

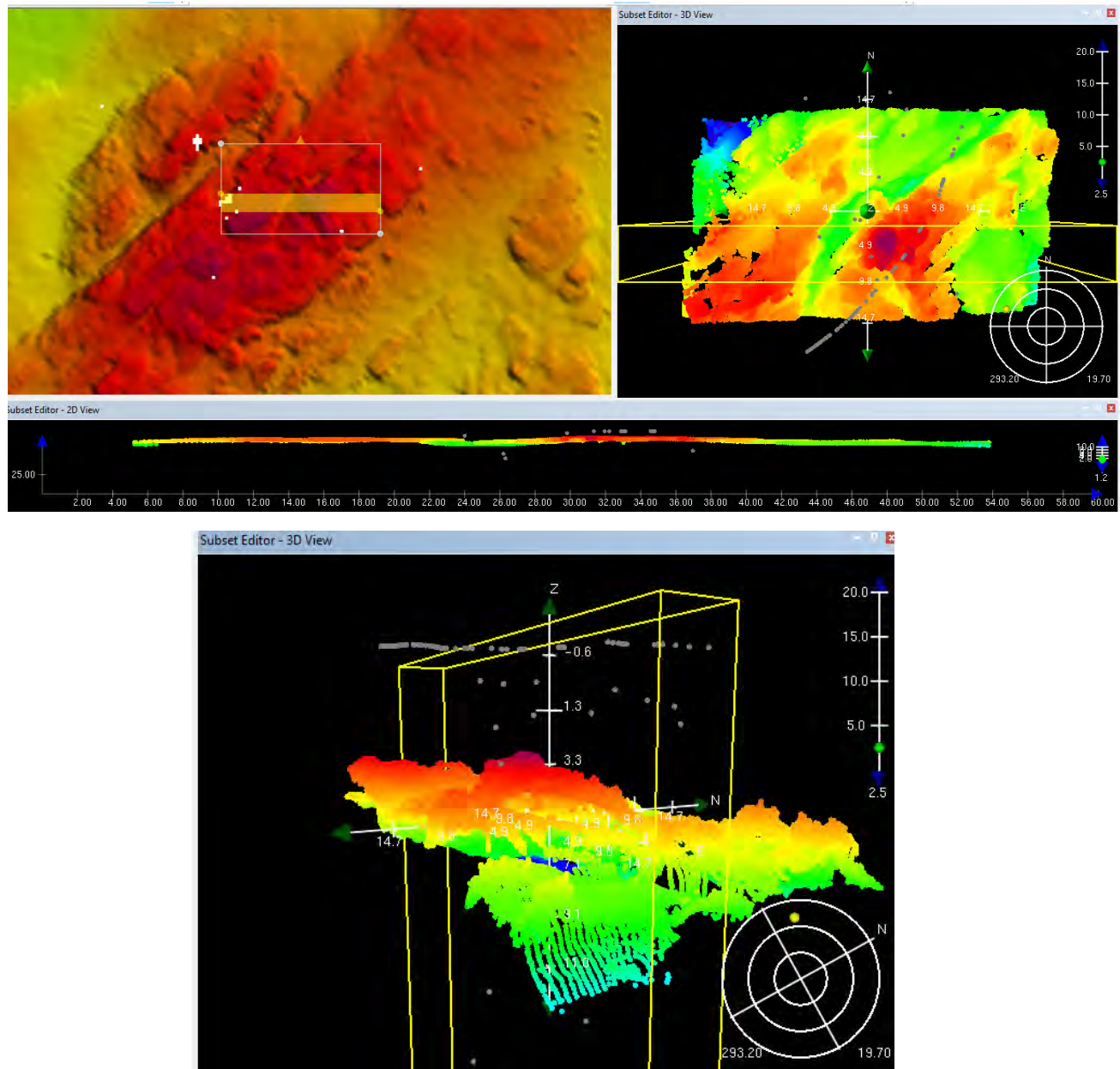
Attributes:

SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN



4.9m DtoN 1-A:

US 0000000055 00001

Danger to Navigation Survey Summary

Survey Positon: 43.070514°N 070.608606°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.20 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

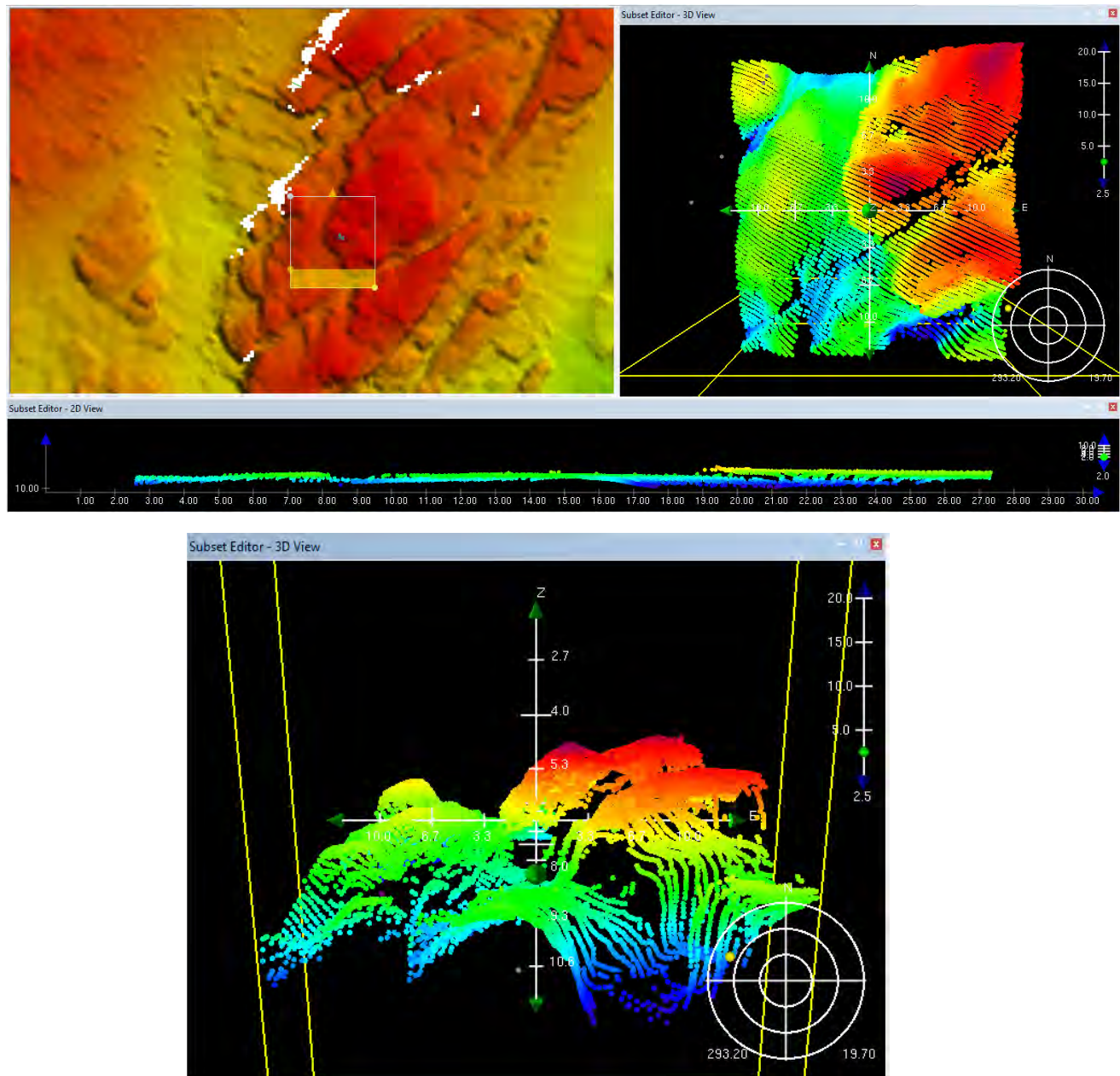
Attributes:

SORDAT – 20190625

Office Notes:

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Image of DtoN



14.9*m DtoN 1-A:

US 0000000056 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.073238N 70.600620°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.20 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

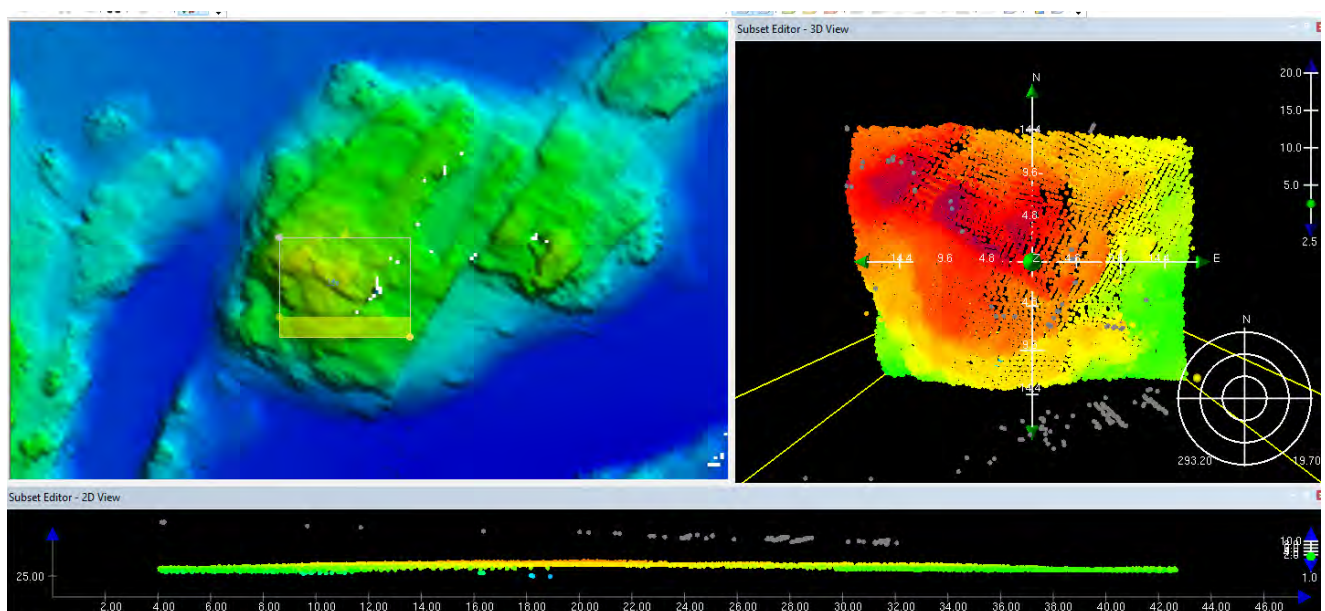
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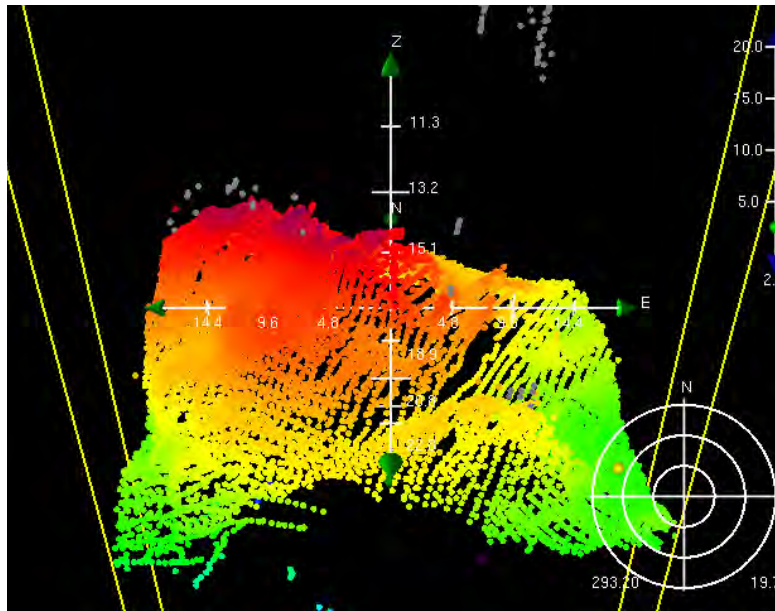
SORDAT – 20190625

Office Notes:

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Image of DtoN





8.3m DtoN 1-A:

US 0000000057 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.074796°N 70.599297°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.20 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: (ShoalerthanChart_DTON_SH2019_AreaC.hob)
ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

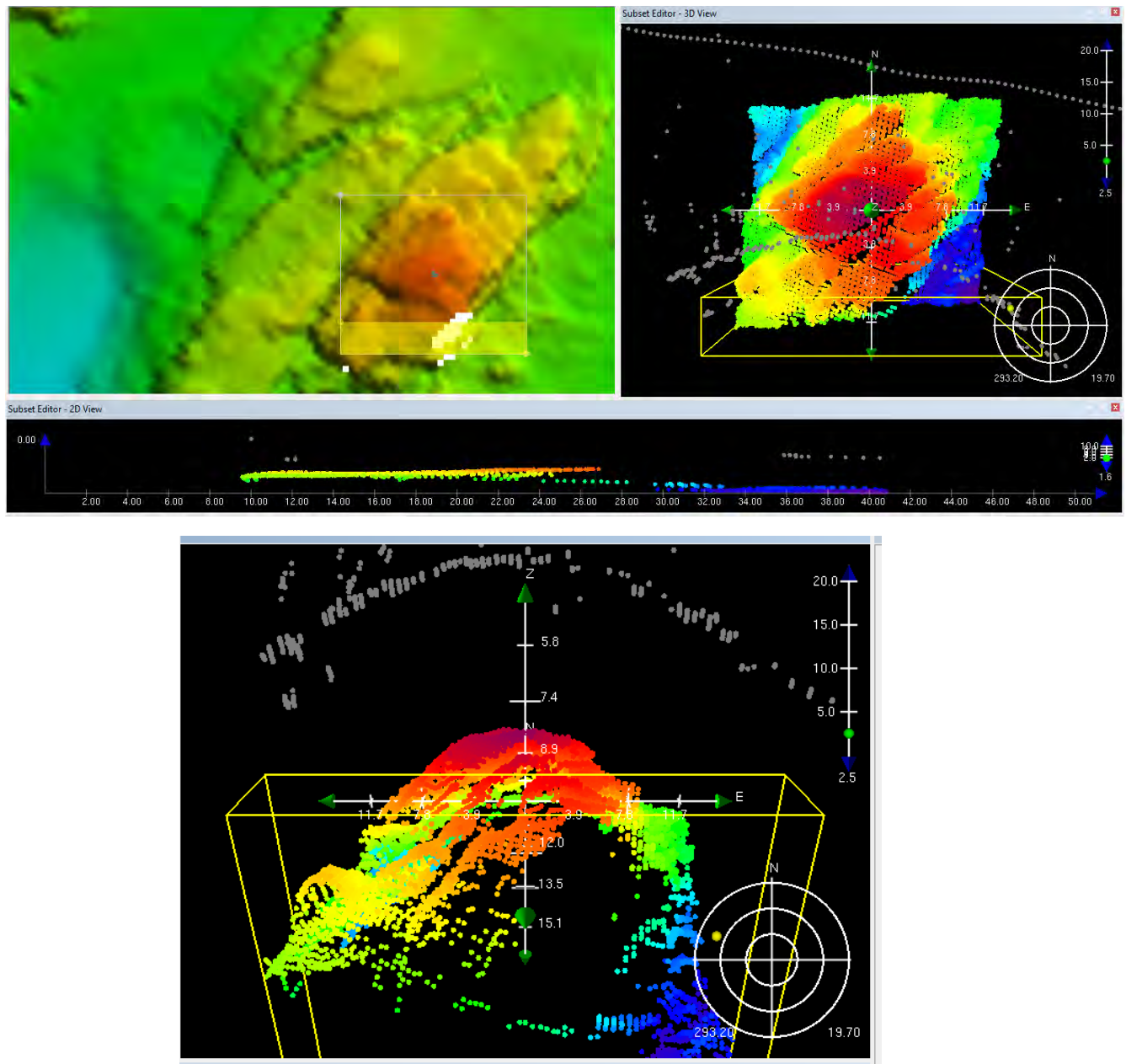
Attributes:

SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN



9.9m DtoN 1-A:

US 0000000058 00001

**Danger to Navigation
Survey Summary****Survey Positon:** 43.077035°N 70.600178°W**Least Depth:****TPU (1.96 sigma):** Uncertainty = 0.20 m**Time Stamp:** 2019-YDN. HH:MM:SS.SSS (06/25/2019)**Data Set:** ShoalerthanChart_DTON_SH2019_AreaC.hob**FOID:** XX XXX**Charts Affected:** RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M**Remarks:** Significant discrepancy between charted and mapped depth.**Feature Correlation:**

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

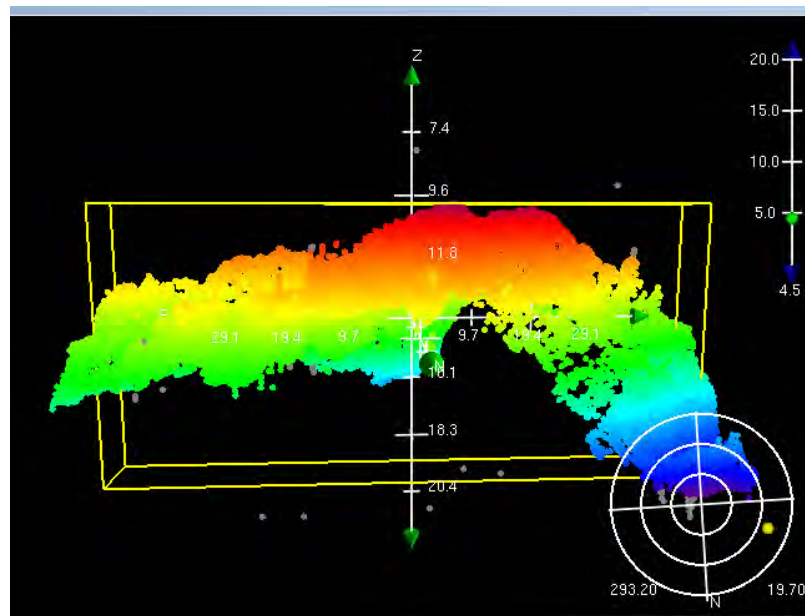
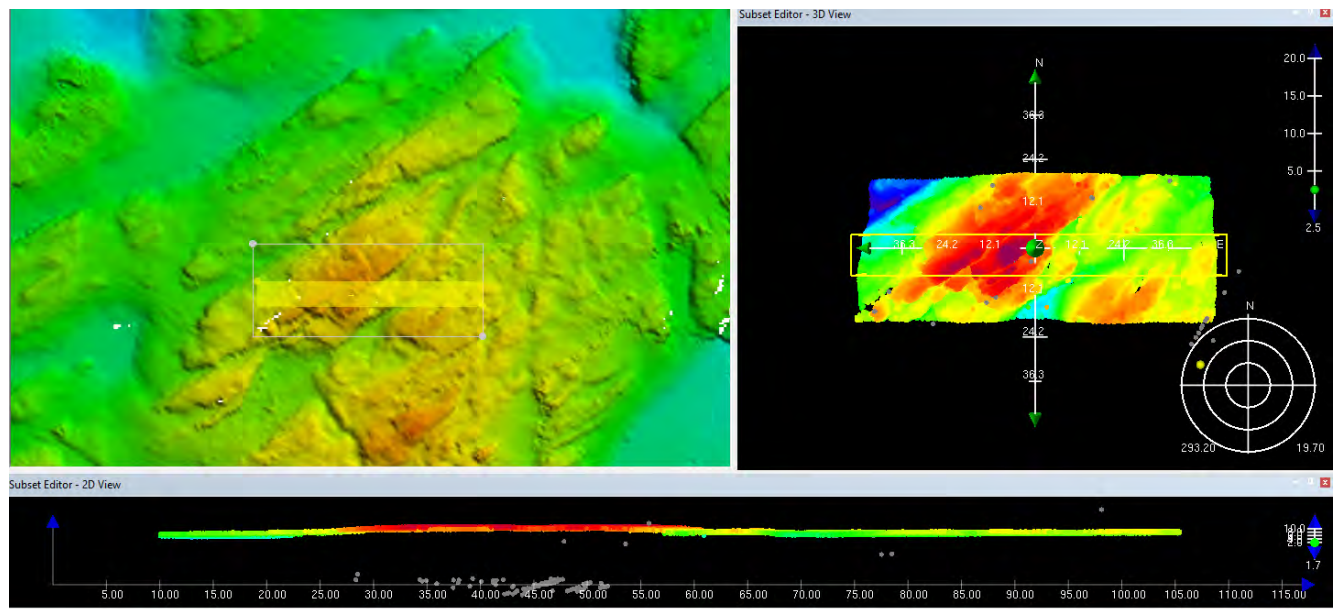
S-57 Data**Geo Object 1:** Depth discrepancy**Attributes:**

SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN



18.5m DtoN 1-A:
US 0000000059 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.081111°N 70.604252°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.06 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

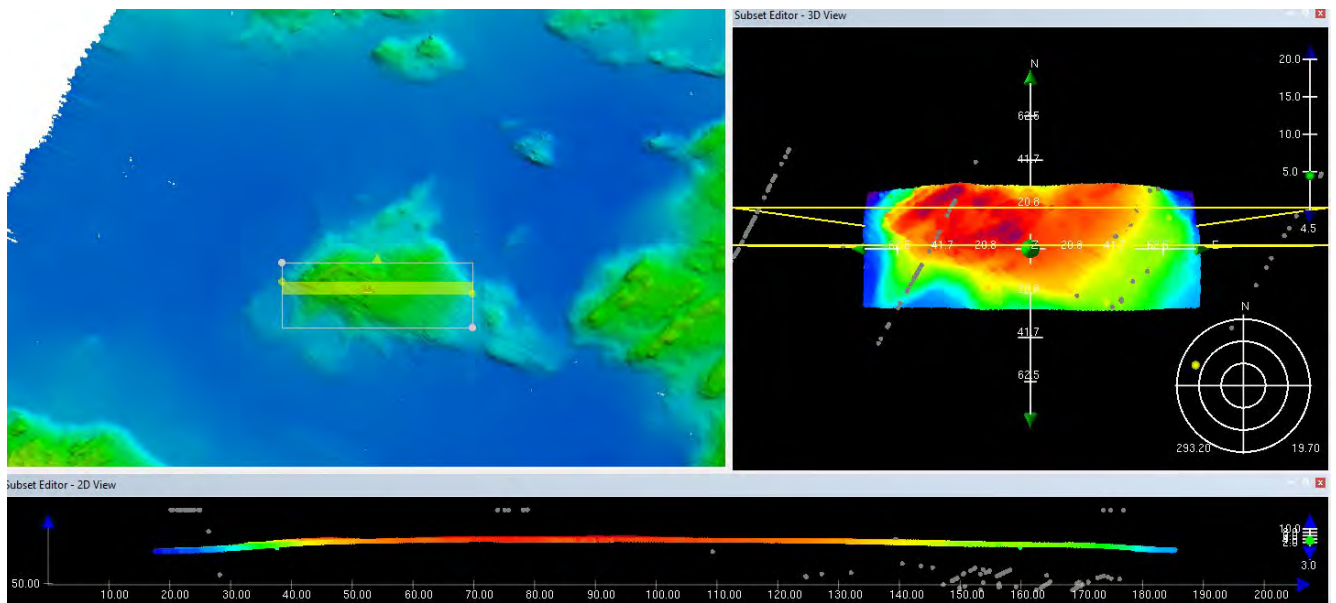
Attributes:

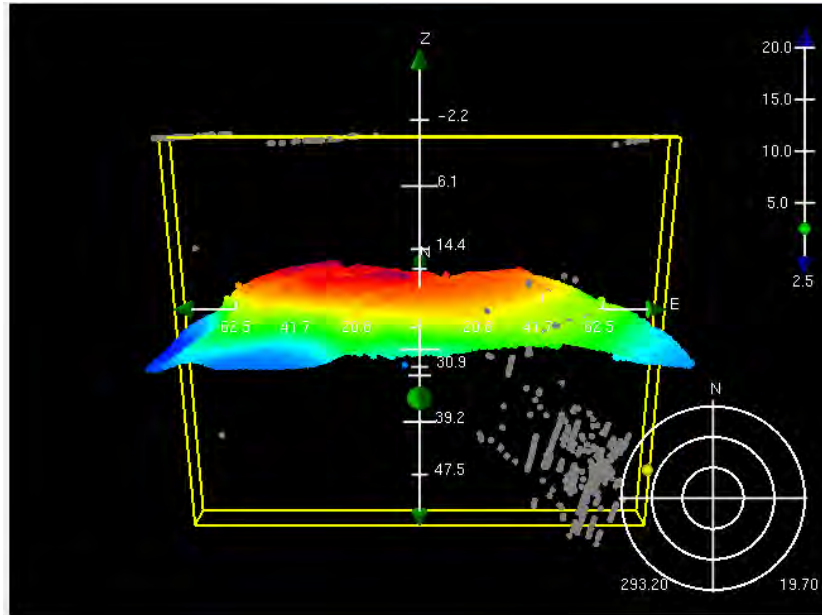
SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN





17.4m Dton 1-A:

US 0000000060 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.080165°N 70.599818°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.20m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

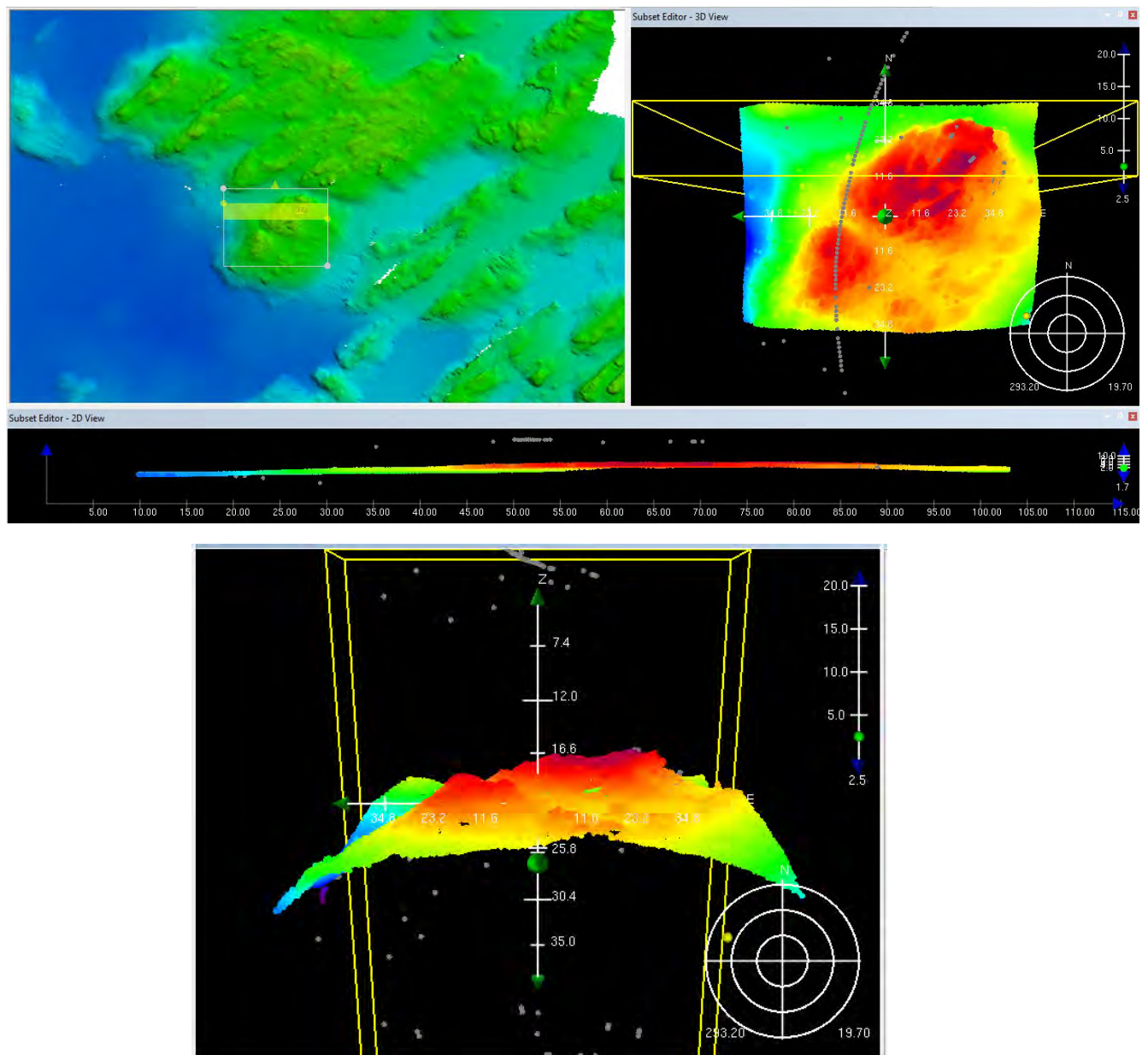
Attributes:

SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN



12.7*m DtoN 1-A:

US 000000006100001

**Danger to Navigation
Survey Summary****Survey Positon:** 43.075321°N 70.601644°W**Least Depth:****TPU (1.96 sigma):** Uncertainty = 0.22 m**Time Stamp:** 2019-YDN. HH:MM:SS.SSS (06/25/2019)**Data Set:** ShoalerthanChart_DTON_SH2019_AreaC.hob**FOID:** XX XXX**Charts Affected:** RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M**Remarks:** Significant discrepancy between charted and mapped depth.**Feature Correlation:**

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

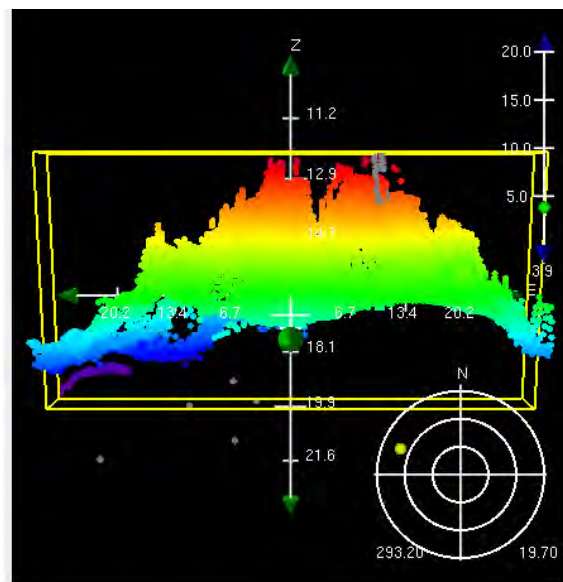
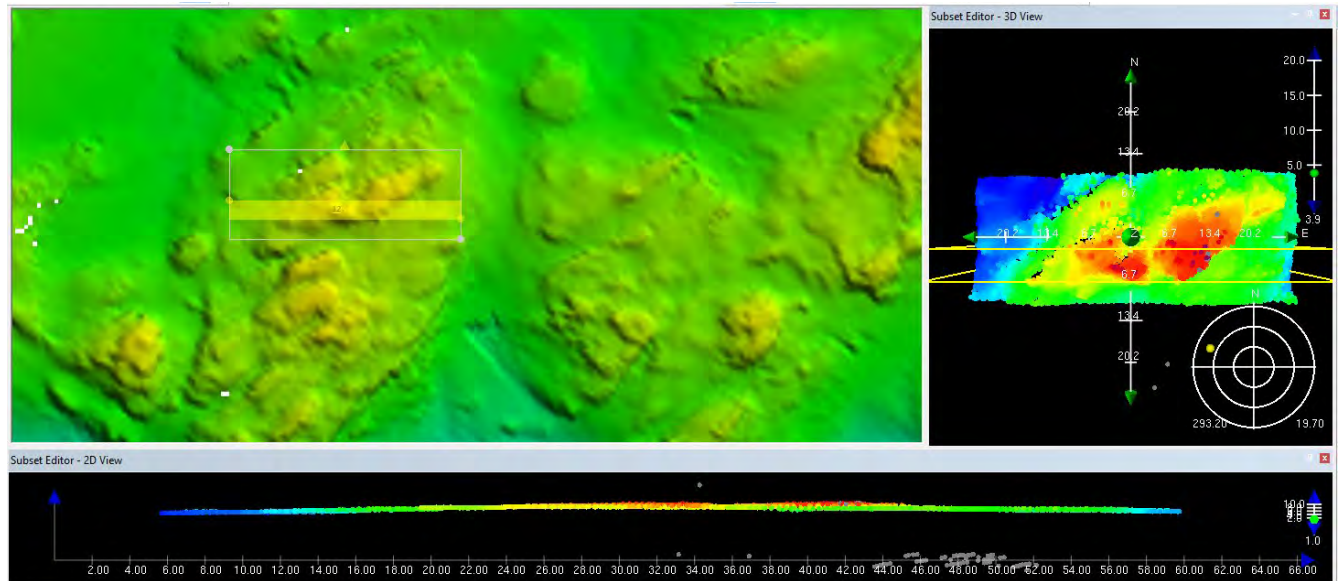
S-57 Data**Geo Object 1:** Depth discrepancy**Attributes:**

SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN



8.2m DtoN 1-A:
US 0000000062 00001

Danger to Navigation

Survey Summary

Survey Position: 43.074426°N 70.605810°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.20 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy

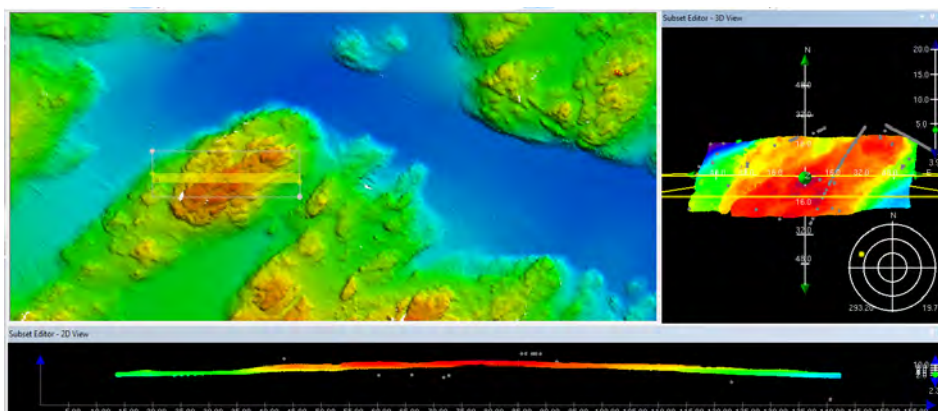
Attributes:

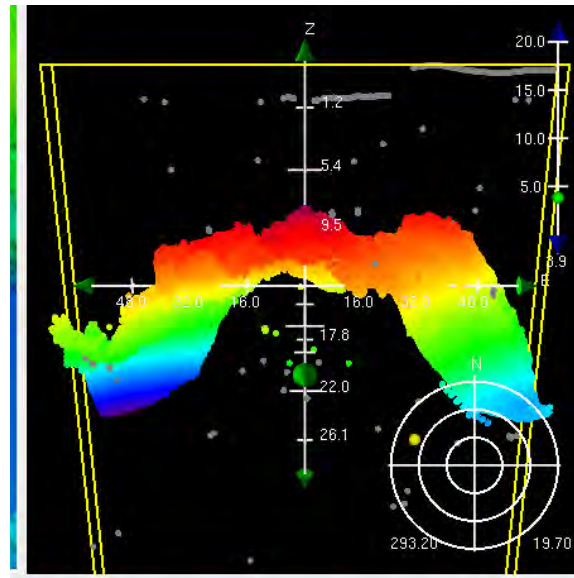
SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN





16.9*m DtoN 1-A:

US 0000000064 00001

Danger to Navigation

Survey Summary

Survey Positon: 43.070519°N 70.603116°W

Least Depth:

TPU (1.96 sigma): Uncertainty = 0.21 m

Time Stamp: 2019-YDN. HH:MM:SS.SSS (06/25/2019)

Data Set: ShoalerthanChart_DTON_SH2019_AreaC.hob

FOID: XX XXX

Charts Affected: RNC 13278, RNC 13283, RNC 1328, & ENC US5NH02M

Remarks: Significant discrepancy between charted and mapped depth.

Feature Correlation:

Source	Feature	Range	Azimuth	Status
ShoalerthanChart_DTON_SH2019_AreaC.hob				

Hydrographer Recommendations:

N/A

S-57 Data

Geo Object 1: Depth discrepancy**Attributes:**

SORDAT – 20190625

Office Notes:

This danger submission is preliminary. Data is being provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Image of DtoN