

F00775

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service

DESCRIPTIVE REPORT

Type of Survey: Navigable Area

Registry Number: F00775

LOCALITY

State(s): Florida

General Locality: Cape Canaveral, FL

Sub-locality: Eastern Pier Face at West Turning Basin Upper

2019

CHIEF OF PARTY
James Kirkpatrick

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

F00775

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

State(s): **Florida**

General Locality: **Cape Canaveral, FL**

Sub-Locality: **Eastern Pier Face at West Turning Basin Upper**

Scale: **5000**

Dates of Survey: **06/04/2019 to 06/04/2019**

Instructions Dated: **05/31/2019**

Project Number: **S-G919-NRT2-19**

Field Unit: **NOAA Navigation Response Team 2**

Chief of Party: **James Kirkpatrick**

Soundings by: **Multibeam Echo Sounder**

Imagery by: **Side Scan Sonar**

Verification by: **Pacific Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via <https://www.ncei.noaa.gov/>. Products created during office processing were generated in NAD83 UTM 17N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.

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Descriptive Report to Accompany Survey F00775

Project: S-G919-NRT2-19

Locality: Cape Canaveral, FL

Sublocality: Eastern Pier Face at West Turning Basin Upper

Scale: 1:5000

June 2019 - June 2019

NOAA Navigation Response Team 2

Chief of Party: James Kirkpatrick

A. Area Surveyed

United States Coast Guard Port Canaveral Pier face and surrounding waters.

A.1 Survey Limits

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
28° 24' 57.87" N	28° 24' 38.83" N
80° 37' 25.91" W	80° 37' 2.79" W

Table 1: Survey Limits

Survey limits include a pier face at USCG Base Port Canaveral as well as a commercial pier face at the Port.

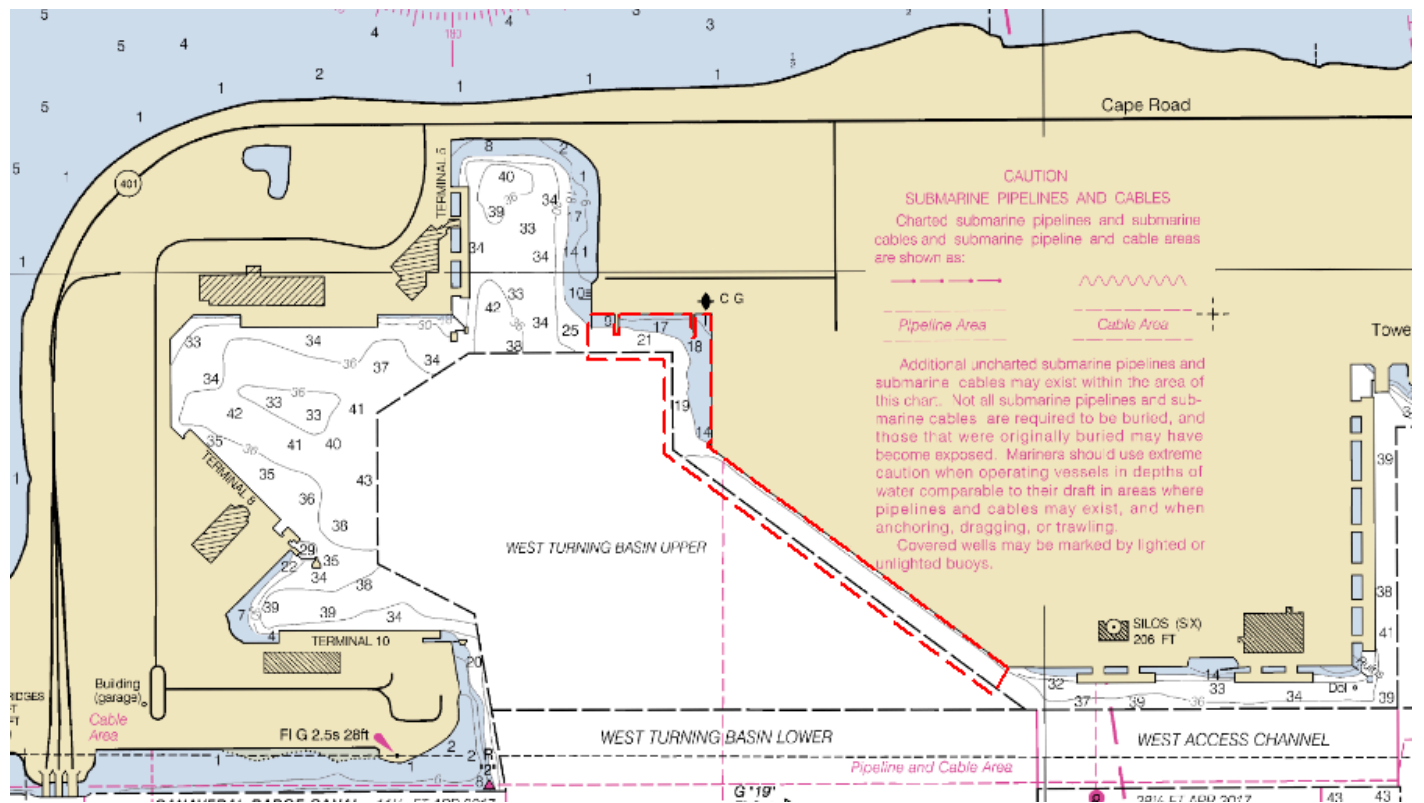


Figure 1: Survey Limits.

A.2 Survey Purpose

NRB has been requested by MOC-Atlantic, to survey a pier face in Port Canaveral where the NOAA Ship Okeanos Explorer will be mooring.

A.3 Survey Quality

The entire survey is adequate to supersede previous data.

This entire survey meets all specifications to supersede previous data.

A.4 Survey Coverage

The following table lists the coverage requirements for this survey as assigned in the project instructions:

Water Depth	Coverage Required
All waters in survey area	Object Detection Coverage.

Table 2: Survey Coverage

Full coverage of the survey area was made impossible by vessels docked along the pier and docks.

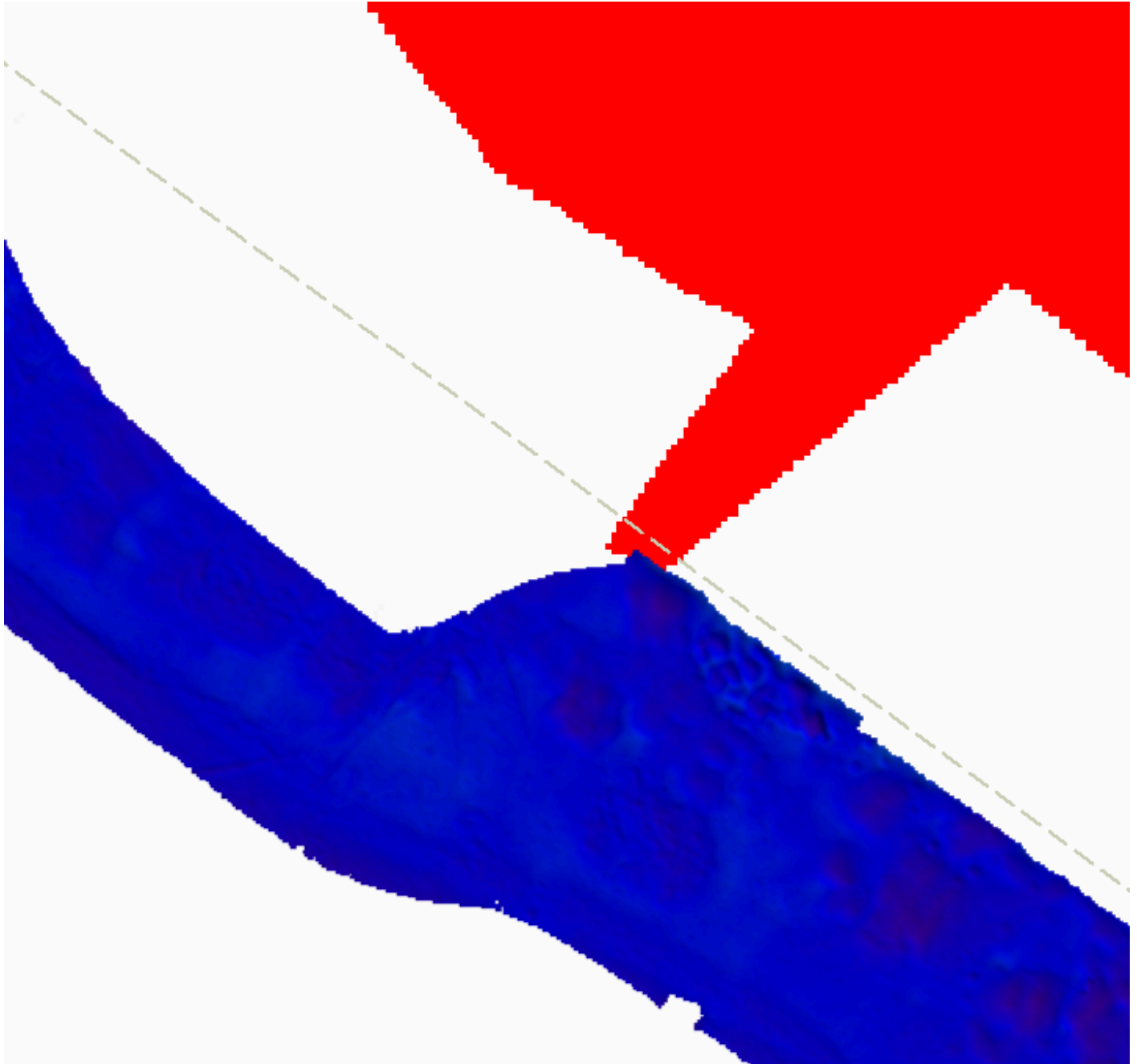


Figure 2: Holiday under barges at commercial pier.

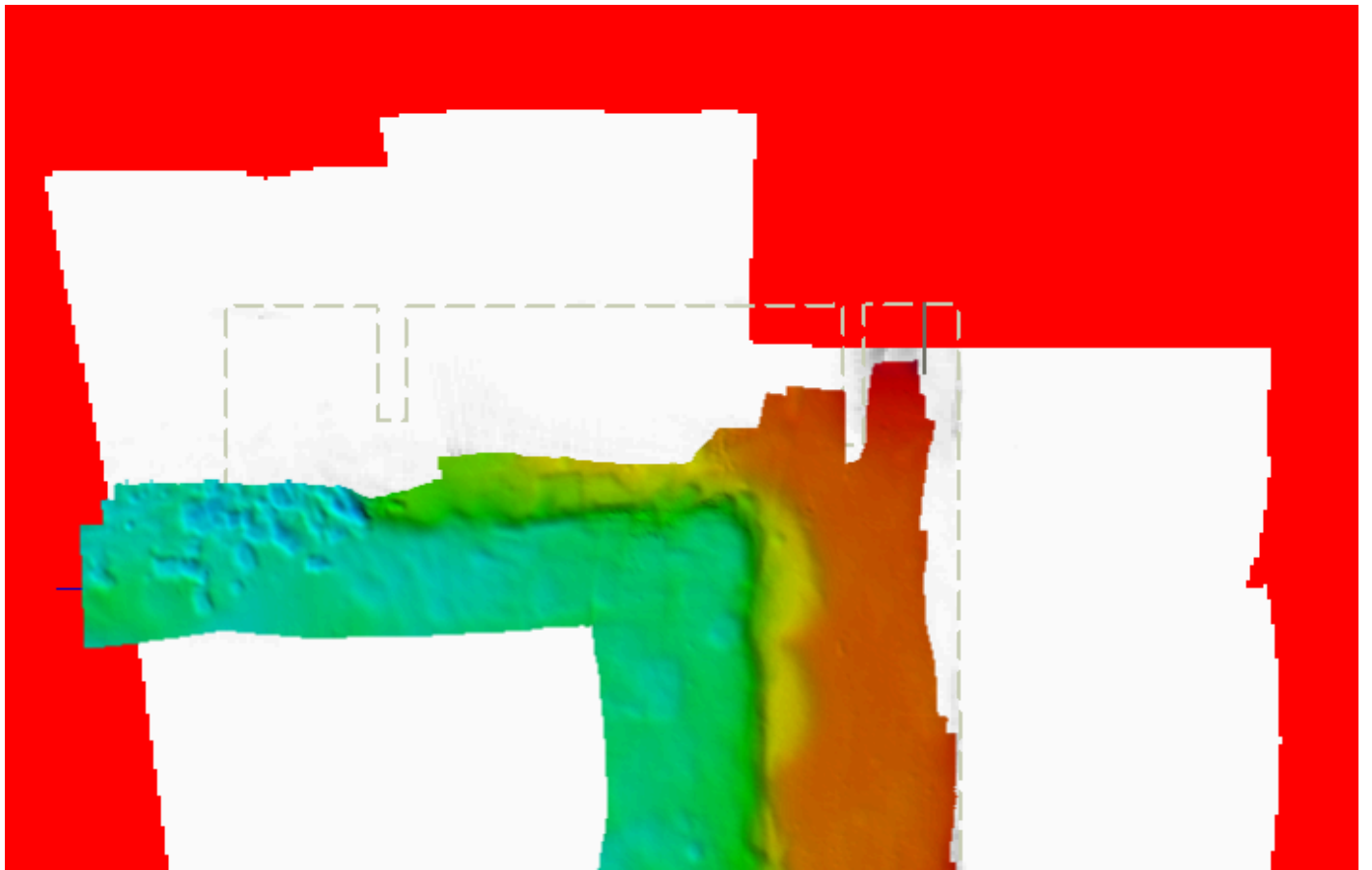


Figure 3: Holiday at USCG small boat dock.

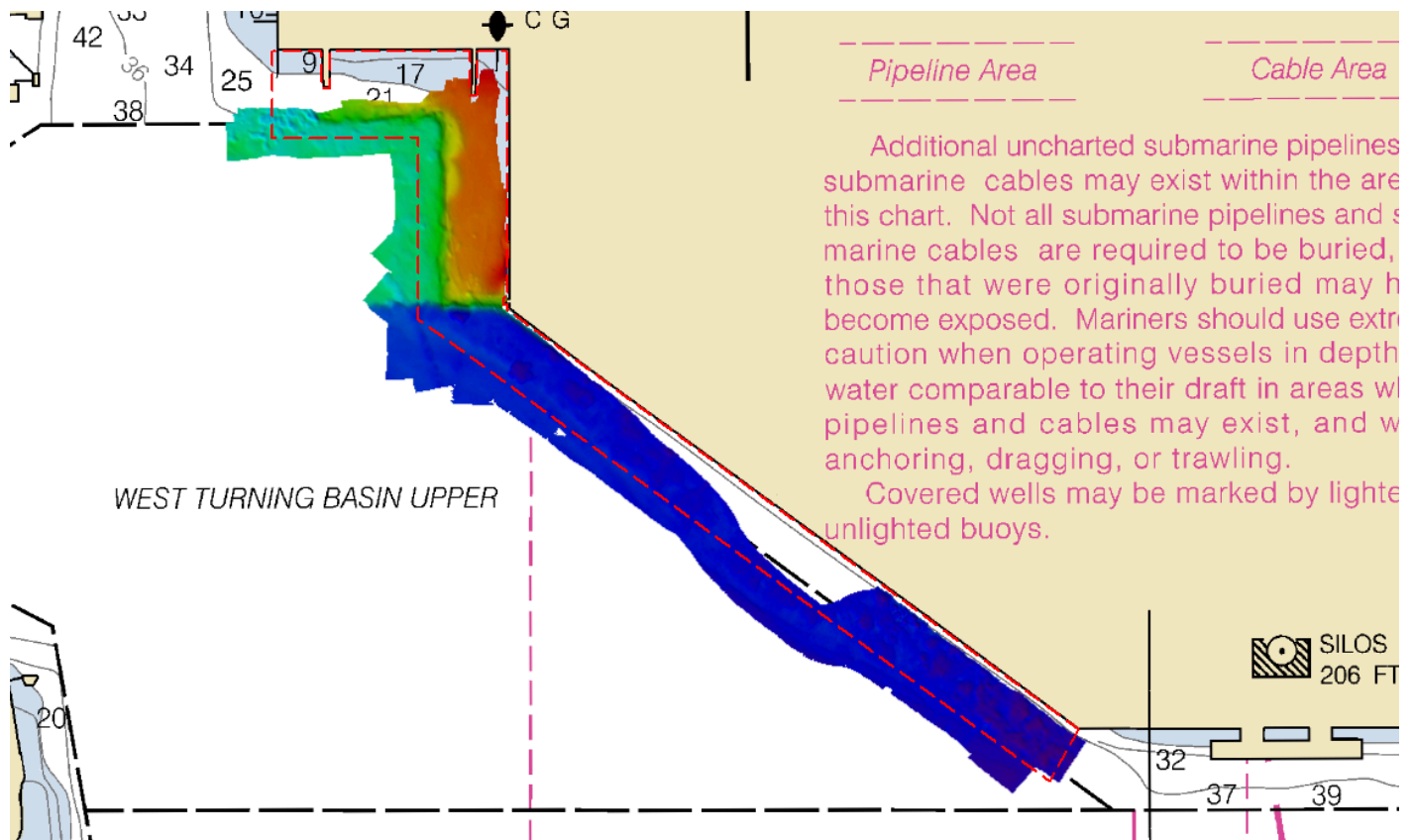


Figure 5: MBES coverage detailed.

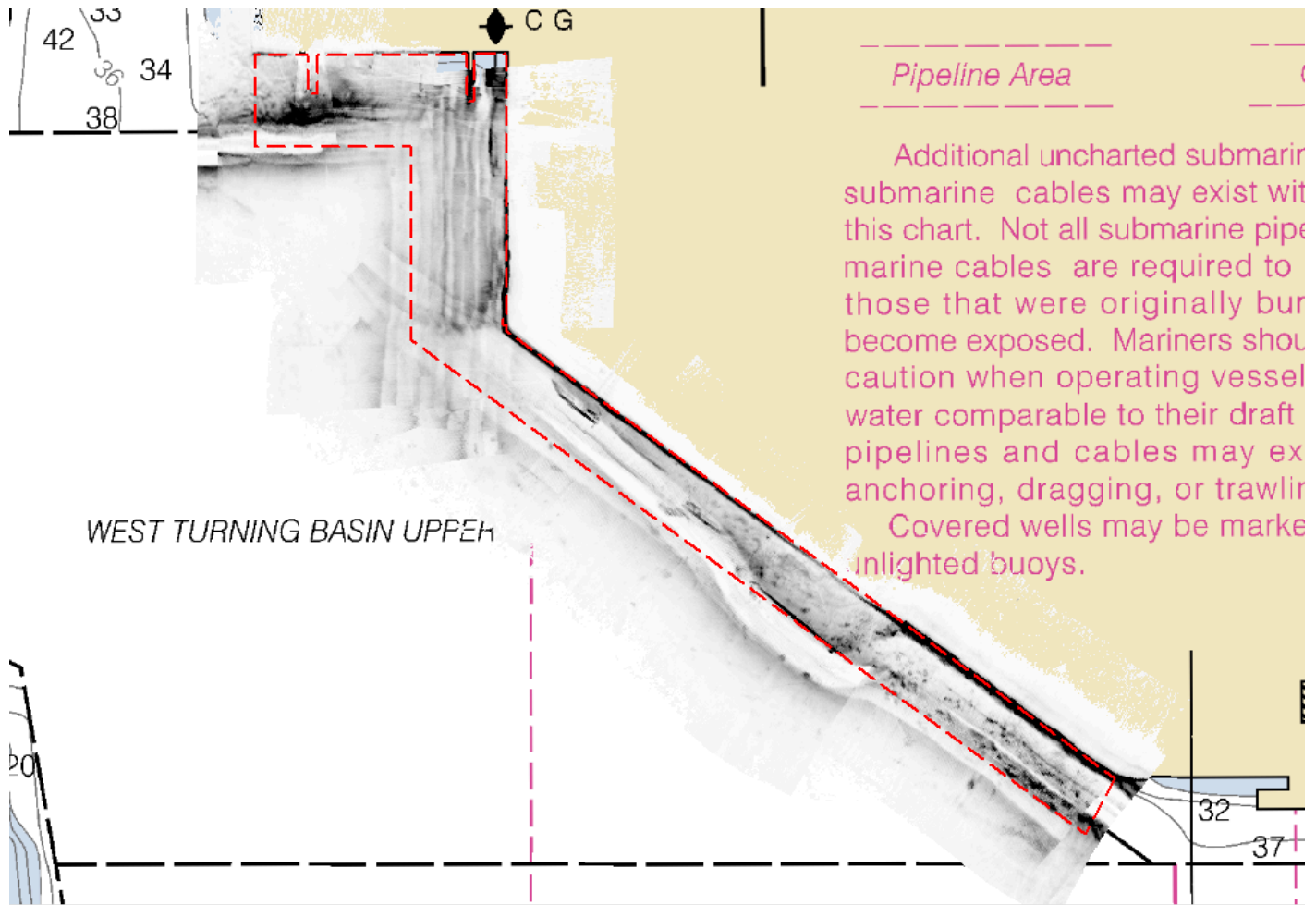


Figure 6: SSS coverage detailed.

A.6 Survey Statistics

The following table lists the mainscheme and crossline acquisition mileage for this survey:

	HULL ID	<i>S3009</i>	<i>Total</i>
LNM	SBES Mainscheme	0	0
	MBES Mainscheme	0	0
	Lidar Mainscheme	0	0
	SSS Mainscheme	0	0
	SBES/SSS Mainscheme	0	0
	MBES/SSS Mainscheme	3.205	3.205
	SBES/MBES Crosslines	0	0
	Lidar Crosslines	0	0
Number of Bottom Samples			0
Number Maritime Boundary Points Investigated			0
Number of DPs			0
Number of Items Investigated by Dive Ops			0
Total SNM			0.046

Table 3: Hydrographic Survey Statistics

The following table lists the specific dates of data acquisition for this survey:

Survey Dates	Day of the Year
06/04/2019	155

Table 4: Dates of Hydrography

Crosslines not acquired for response survey.

B. Data Acquisition and Processing

B.1 Equipment and Vessels

Refer to the Data Acquisition and Processing Report (DAPR) for a complete description of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods. Additional information to supplement sounding and survey data, and any deviations from the DAPR are discussed in the following sections.

B.1.1 Vessels

The following vessels were used for data acquisition during this survey:

Hull ID	<i>S3009</i>
LOA	32 feet
Draft	2 feet

Table 5: Vessels Used



Figure 7: Survey vessel S3009.

S3009 is a 32 foot hydrographic survey vessel used for inshore and nearshore surveys.

B.1.2 Equipment

The following major systems were used for data acquisition during this survey:

Manufacturer	Model	Type
AML Oceanographic	MicroX SV	Sound Speed System
Applanix	POS MV 320 v5	Positioning and Attitude System
EdgeTech	4125	SSS
Kongsberg Maritime	EM 2040C	MBES
YSI	CastAway-CTD	Conductivity, Temperature, and Depth Sensor

Table 6: Major Systems Used

B.2 Quality Control

B.2.1 Crosslines

Dedicated crosslines were not acquired for this response survey. Areas of overlapping mainscheme lines were examined and are in good agreement.

B.2.2 Uncertainty

The following survey specific parameters were used for this survey:

Method	Measured	Zoning
ERS via VDATUM	0 meters	10 centimeters

Table 7: Survey Specific Tide TPU Values.

Hull ID	Measured - CTD	Measured - MVP	Surface
S3009	2.0 meters/second	N/A	0.5 meters/second

Table 8: Survey Specific Sound Speed TPU Values.

The 50cm CUBE surface was examined with QCTools and found 100% of all nodes to pass specifications.

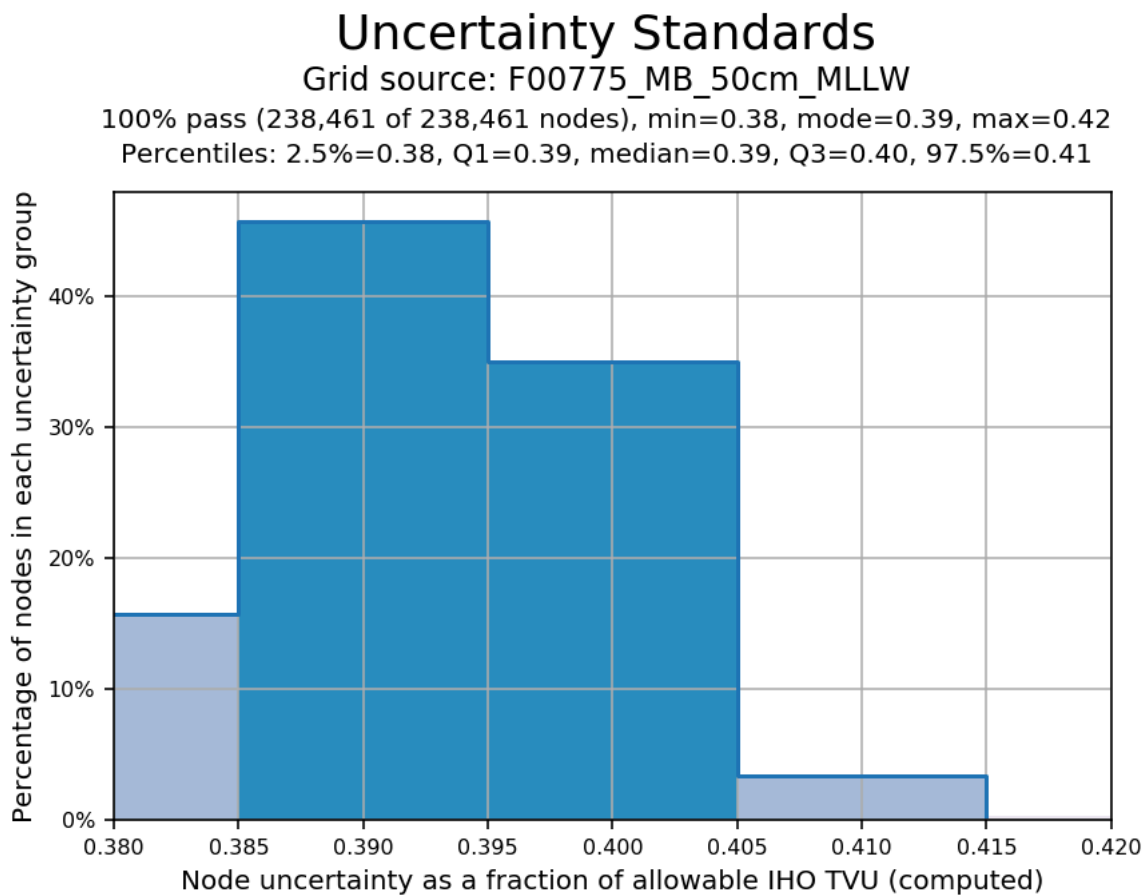


Figure 8: CUBE uncertainty standards.

B.2.3 Junctions

No junctions exist for this survey.

There are no contemporary surveys that junction with this survey.

B.2.4 Sonar QC Checks

Sonar system quality control checks were conducted as detailed in the quality control section of the DAPR.

B.2.5 Equipment Effectiveness

There were no conditions or deficiencies that affected equipment operational effectiveness.

B.2.6 Factors Affecting Soundings

There were no other factors that affected corrections to soundings.

B.2.7 Sound Speed Methods

Sound Speed Cast Frequency: A total of two casts were taken for this small survey within one hour and 15 minutes of each other.

B.2.8 Coverage Equipment and Methods

A Kongsberg 2040C Multibeam Echosounder with concurrent Edgetech 4125 Side Scan Sonar were used to meet the coverage requirements for the entire survey.

B.3 Echo Sounding Corrections

B.3.1 Corrections to Echo Soundings

All data reduction procedures conform to those detailed in the DAPR.

B.3.2 Calibrations

All sounding systems were calibrated as detailed in the DAPR.

B.4 Backscatter

All equipment and survey methods were used as detailed in the DAPR.

B.5 Data Processing

B.5.1 Primary Data Processing Software

The following Feature Object Catalog was used: NOAA Profile Version 2019.

B.5.2 Surfaces

The following surfaces and/or BAGs were submitted to the Processing Branch:

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
F00775_MB_50cm_MLLW_Final	CARIS Raster Surface (CUBE)	0.5 meters	12.4 US Survey feet - 51.7 US Survey feet	NOAA_0.5m	Object Detection
F00775_MB_50cm_MLLW	CARIS Raster Surface (CUBE)	0.5 meters	12.4 US Survey feet - 51.7 US Survey feet	NOAA_0.5m	Object Detection
F00775_SSS_1m_1of2	SSS Mosaic	1 meters	0 meters - 0 meters	N/A	100% SSS
F00775_SSS_1m_2of2	SSS Mosaic	1 meters	0 meters - 0 meters	N/A	200% SSS

Table 9: Submitted Surfaces

C. Vertical and Horizontal Control

ERS via Vdatum was used over the entire survey area. Details on the process can be found in the accompanying DAPR.

C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

ERS Datum Transformation

The following ellipsoid-to-chart vertical datum transformation was used:

Method	Ellipsoid to Chart Datum Separation File
ERS via VDATUM	S-G919_VdatumLimits_xyNAD83-MLLW_geoid12b.csar

Table 10: ERS method and SEP file

C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD 83).

The projection used for this project is Universal Transverse Mercator (UTM) Zone 17.

The following PPK methods were used for horizontal control:

- Smart Base

WAAS

KZMA and KZJX

D. Results and Recommendations

D.1 Chart Comparison

A sounding plot was created from the 50cm CUBE surface and directly compared to the ENC and RNC.

D.1.1 Electronic Navigational Charts

The following are the largest scale ENCs, which cover the survey area:

ENC	Scale	Edition	Update Application Date	Issue Date
US5FL82M	1:10000	41	05/22/2019	05/22/2019

Table 11: Largest Scale ENCs

D.1.2 Shoal and Hazardous Features

No shoals or potentially hazardous features exist for this survey.

D.1.3 Charted Features

No charted features exist for this survey.

D.1.4 Uncharted Features

No uncharted features exist for this survey.

D.1.5 Channels

No channels exist for this survey. There are no designated anchorages, precautionary areas, safety fairways, traffic separation schemes, pilot boarding areas, or channel and range lines within the survey limits.

D.2 Additional Results

D.2.1 Aids to Navigation

No Aids to navigation (ATONs) exist for this survey.

D.2.2 Maritime Boundary Points

No Maritime Boundary Points were assigned for this survey.

D.2.3 Bottom Samples

No bottom samples were required for this survey.

D.2.4 Overhead Features

No overhead features exist for this survey.

D.2.5 Submarine Features

A submarine cable and pipeline area exists within the survey limits. No exposed cables or pipelines were observed in the SSS imagery.

D.2.6 Platforms

No platforms exist for this survey.

D.2.7 Ferry Routes and Terminals

No ferry routes or terminals exist for this survey.

D.2.8 Abnormal Seafloor or Environmental Conditions

No abnormal seafloor and/or environmental conditions exist for this survey.

D.2.9 Construction and Dredging

No present or planned construction or dredging exist within the survey limits.

D.2.10 New Survey Recommendations

No new surveys or further investigations are recommended for this area.

D.2.11 ENC Scale Recommendations

No new insets are recommended for this area.

E. Approval Sheet

As Chief of Party, field operations for this hydrographic survey were conducted under my direct supervision, with frequent personal checks of progress and adequacy. I have reviewed the attached survey data and reports.

All field sheets, this Descriptive Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to the Processing Branch.

The survey data meets or exceeds requirements as set forth in the NOS Hydrographic Surveys Specifications and Deliverables, Field Procedures Manual, Letter Instructions, and all HSD Technical Directives. These data are adequate to supersede charted data in their common areas. This survey is complete and no additional work is required with the exception of deficiencies noted in the Descriptive Report.

A GeoPDF chartlet was produced by NRT2 and delivered to CAPT Zezula prior to the arrival of the Okeanus Explorer into port. It is included in the Public Relations and Constituents Products folder of this submission.

Approver Name	Approver Title	Approval Date	Signature
---------------	----------------	---------------	-----------

KIRKPATRICK.JAMES.L
EROY.IV.1400487398

Digitally signed by
KIRKPATRICK.JAMES.LEROY.IV.14
00487398
Date: 2019.06.13 13:23:36 -04'00'

F. Table of Acronyms

Acronym	Definition
AHB	Atlantic Hydrographic Branch
AST	Assistant Survey Technician
ATON	Aid to Navigation
AWOIS	Automated Wreck and Obstruction Information System
BAG	Bathymetric Attributed Grid
BASE	Bathymetry Associated with Statistical Error
CO	Commanding Officer
CO-OPS	Center for Operational Products and Services
CORS	Continuously Operating Reference Station
CTD	Conductivity Temperature Depth
CEF	Chart Evaluation File
CSF	Composite Source File
CST	Chief Survey Technician
CUBE	Combined Uncertainty and Bathymetry Estimator
DAPR	Data Acquisition and Processing Report
DGPS	Differential Global Positioning System
DP	Detached Position
DR	Descriptive Report
DTON	Danger to Navigation
ENC	Electronic Navigational Chart
ERS	Ellipsoidal Referenced Survey
ERTDM	Ellipsoidally Referenced Tidal Datum Model
ERZT	Ellipsoidally Referenced Zoned Tides
FFF	Final Feature File
FOO	Field Operations Officer
FPM	Field Procedures Manual
GAMS	GPS Azimuth Measurement Subsystem
GC	Geographic Cell
GPS	Global Positioning System
HIPS	Hydrographic Information Processing System
HSD	Hydrographic Surveys Division

Acronym	Definition
HSSD	Hydrographic Survey Specifications and Deliverables
HSTB	Hydrographic Systems Technology Branch
HSX	Hypack Hysweep File Format
HTD	Hydrographic Surveys Technical Directive
HVCR	Horizontal and Vertical Control Report
HVF	HIPS Vessel File
IHO	International Hydrographic Organization
IMU	Inertial Motion Unit
ITRF	International Terrestrial Reference Frame
LNM	Linear Nautical Miles
MBAB	Multibeam Echosounder Acoustic Backscatter
MCD	Marine Chart Division
MHW	Mean High Water
MLLW	Mean Lower Low Water
NAD 83	North American Datum of 1983
NALL	Navigable Area Limit Line
NTM	Notice to Mariners
NMEA	National Marine Electronics Association
NOAA	National Oceanic and Atmospheric Administration
NOS	National Ocean Service
NRT	Navigation Response Team
NSD	Navigation Services Division
OCS	Office of Coast Survey
OMAO	Office of Marine and Aviation Operations (NOAA)
OPS	Operations Branch
MBES	Multibeam Echosounder
NWLON	National Water Level Observation Network
PDBS	Phase Differencing Bathymetric Sonar
PHB	Pacific Hydrographic Branch
POS/MV	Position and Orientation System for Marine Vessels
PPK	Post Processed Kinematic
PPP	Precise Point Positioning
PPS	Pulse per second

Acronym	Definition
PRF	Project Reference File
PS	Physical Scientist
RNC	Raster Navigational Chart
RTK	Real Time Kinematic
RTX	Real Time Extended
SBES	Singlebeam Echosounder
SBET	Smooth Best Estimate and Trajectory
SNM	Square Nautical Miles
SSS	Side Scan Sonar
SSSAB	Side Scan Sonar Acoustic Backscatter
ST	Survey Technician
SVP	Sound Velocity Profiler
TCARI	Tidal Constituent And Residual Interpolation
TPU	Total Propagated Uncertainty
USACE	United States Army Corps of Engineers
USCG	United States Coast Guard
UTM	Universal Transverse Mercator
XO	Executive Officer
ZDF	Zone Definition File



James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>

Fwd: NRT Survey Request

3 messages

Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>
To: James Kirkpatrick <James.Kirkpatrick@noaa.gov>

Tue, May 21, 2019 at 12:50 PM

Just FYI. I will let you know.

----- Forwarded message -----

From: **CO.MOC Atlantic - NOAA Service Account** <co.moc.atlantic@noaa.gov>

Date: Tue, May 21, 2019 at 12:38 PM

Subject: Fwd: NRT Survey Request

To: Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>, Kyle Ward - NOAA Federal <kyle.ward@noaa.gov>

Cc: David Zezula - NOAA Federal <david.j.zezula@noaa.gov>

Christopher and Kyle,

FYI....

----- Forwarded message -----

From: **CO.MOC Atlantic - NOAA Service Account** <co.moc.atlantic@noaa.gov>

Date: Tue, May 21, 2019 at 10:54 AM

Subject: NRT Survey Request

To: John Lomnický <john.lomnický@noaa.gov>, James Crocker <james.m.crocker@noaa.gov>

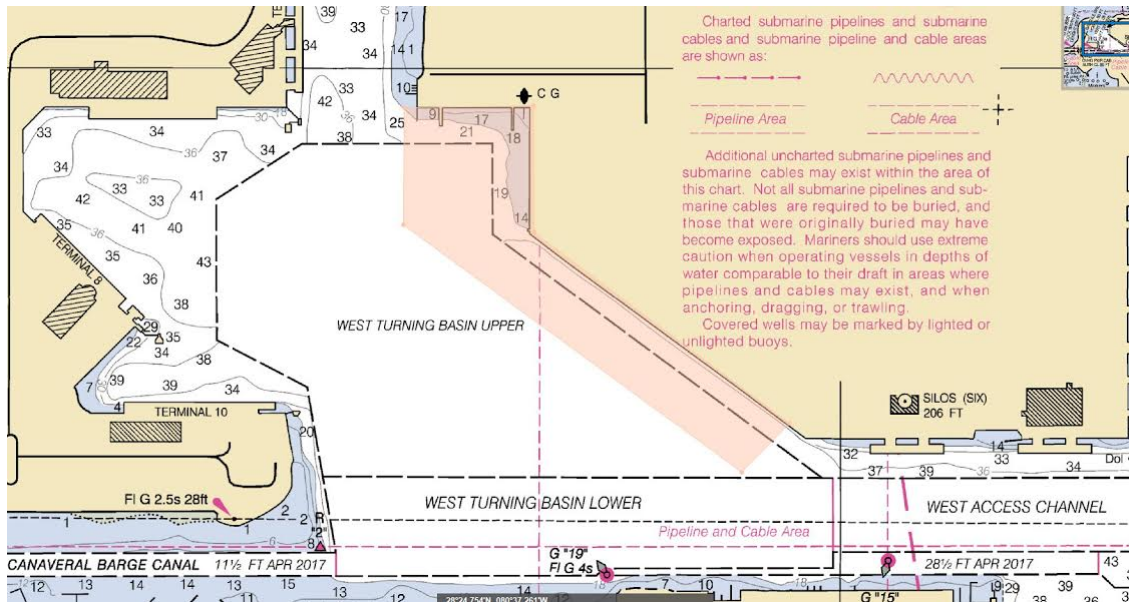
Jim, Jay,

Is it possible to have the NRTs survey the pier face at Port Canaveral USCG Base (see attached graphic) before 1 June, and provide chartlets by 7 June? EX is pulling in on the 14 Jun and I have a few concerns regarding the depth. The last time that pier face was surveyed by NOAA was 1978 and although the USACE surveys the basin I assume they did not survey the pier face (I don't have access to their data). If an NRT is available I can forward you some contact information for the USCG.

Additionally, a pier survey would benefit all parties and go a long way to building good relations with USCG Canaveral as we are trying to setup IAAs with them for future ship visits.

If you need a more formal request let me know and I can put it in whatever format you need.

Thanks
DZ



--

CAPT David Zezula, NOAA
 Commanding Officer
 NOAA Marine Operations Center - Atlantic
 439 West York Street
 Norfolk, VA 23510
 757-441-6778: office
 757-275-4395: cell
co.moc.atlantic@noaa.gov

--

CAPT David Zezula, NOAA
 Commanding Officer
 NOAA Marine Operations Center - Atlantic
 439 West York Street
 Norfolk, VA 23510
 757-441-6778: office
 757-275-4395: cell
co.moc.atlantic@noaa.gov

--

Chris Hare
 Project Manager
 Navigation Response Branch
 NOAA's Office of Coast Survey
 240-533-0065

Christopher Hare - NOAA Federal <christopher.hare@noaa.gov> Thu, May 23, 2019 at 3:41 PM
 To: Chief NRB OCS - NOAA Service Account <chief.nrb.ocs@noaa.gov>
 Cc: James Kirkpatrick <James.Kirkpatrick@noaa.gov>, Michael Annis <Michael.J.Annis@noaa.gov>

----- Forwarded message -----
 From: **Kyle Ward - NOAA Federal** <kyle.ward@noaa.gov>
 Date: Thu, May 23, 2019 at 3:22 PM
 Subject: Re: NRT Survey Request

To: Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>

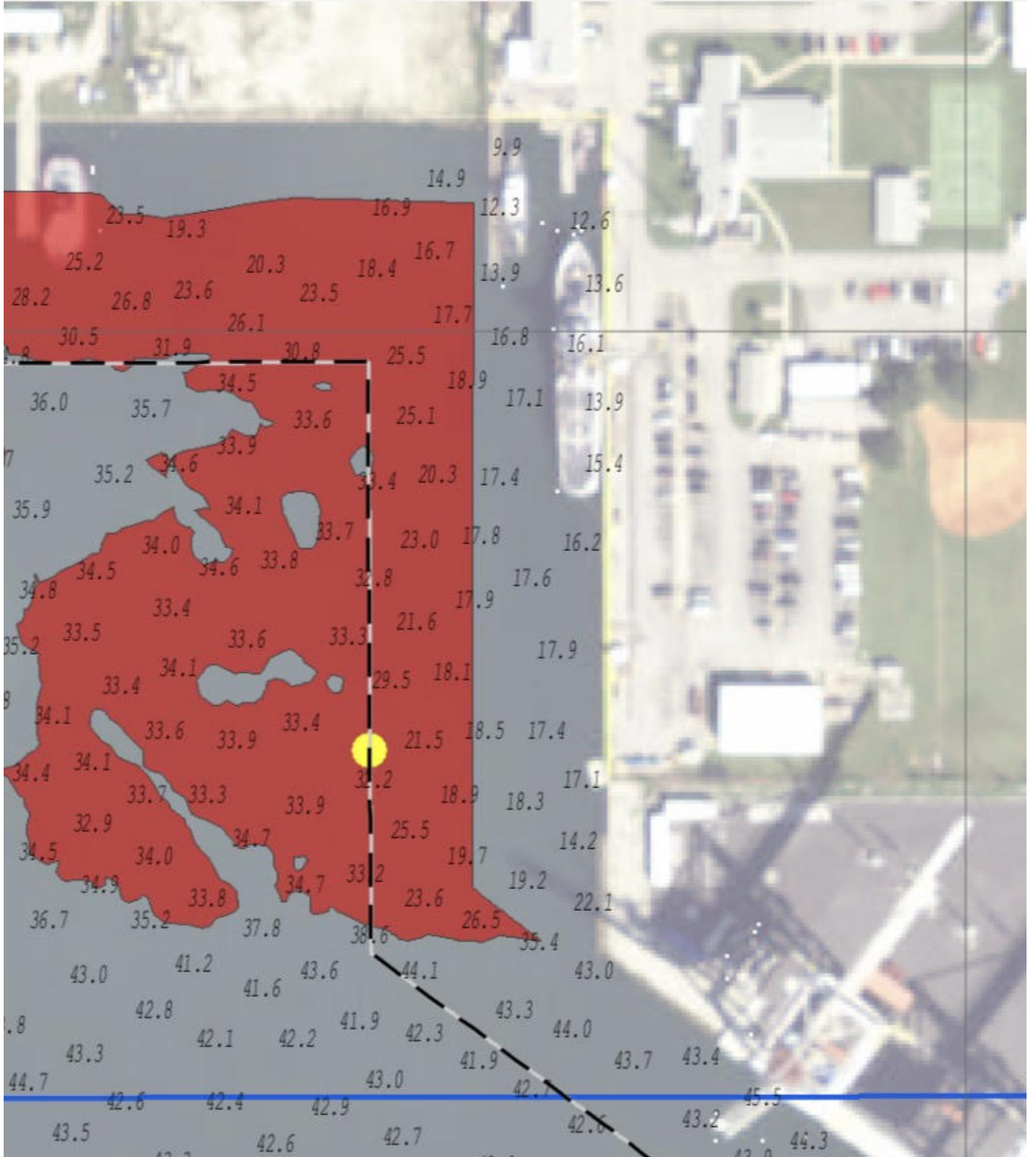
Cc: David Zezula - NOAA Federal <david.j.zezula@noaa.gov>

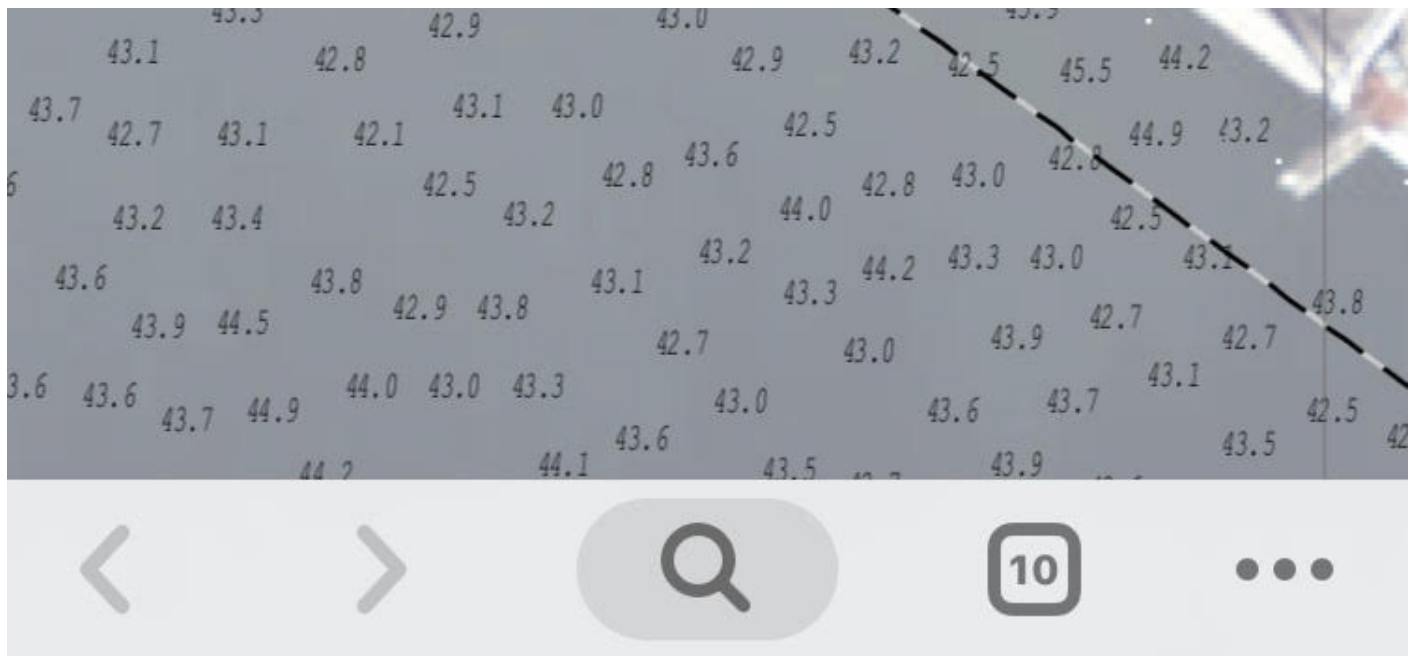
Sprint LTE

3:21 PM

67%

ehydro.blob.core.windows.net





On Thu, May 23, 2019 at 3:16 PM Kyle Ward - NOAA Federal <kyle.ward@noaa.gov> wrote:

The Army Corps of Engineers has surveyed it recently.

https://ehydro.blob.core.windows.net/ehydro-surveys-pdf/CESAJ/CH_01_CAH_20190403_CS_2019_131_01.PDF

That link should work. Sorry for the slow response I have been on travel.

On Thu, May 23, 2019 at 2:09 PM Christopher Hare - NOAA Federal <christopher.hare@noaa.gov> wrote:

Kyle,

Did you find any data for this area? If not, I am thinking of sending NRT2 down.

Chris

[Quoted text hidden]

--

Kyle R. Ward
Southeast Navigation Manager
NOAA Office of Coast Survey
301.651.4852 cell

--

Kyle R. Ward
Southeast Navigation Manager
NOAA Office of Coast Survey
301.651.4852 cell

[Quoted text hidden]

Jay Lomnicky - NOAA Federal <chief.nrb.ocs@noaa.gov>
To: James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>

Tue, May 28, 2019 at 11:03 AM

Hey James,
Can you get this done within his timelines?

jay

----- Forwarded message -----

From: **CO.MOC Atlantic - NOAA Service Account** <co.moc.atlantic@noaa.gov>

Date: Tue, May 21, 2019 at 10:55 AM

Subject: NRT Survey Request

To: John Lomnicky <john.lomnicky@noaa.gov>, James Crocker <james.m.crocker@noaa.gov>

Jim, Jay,

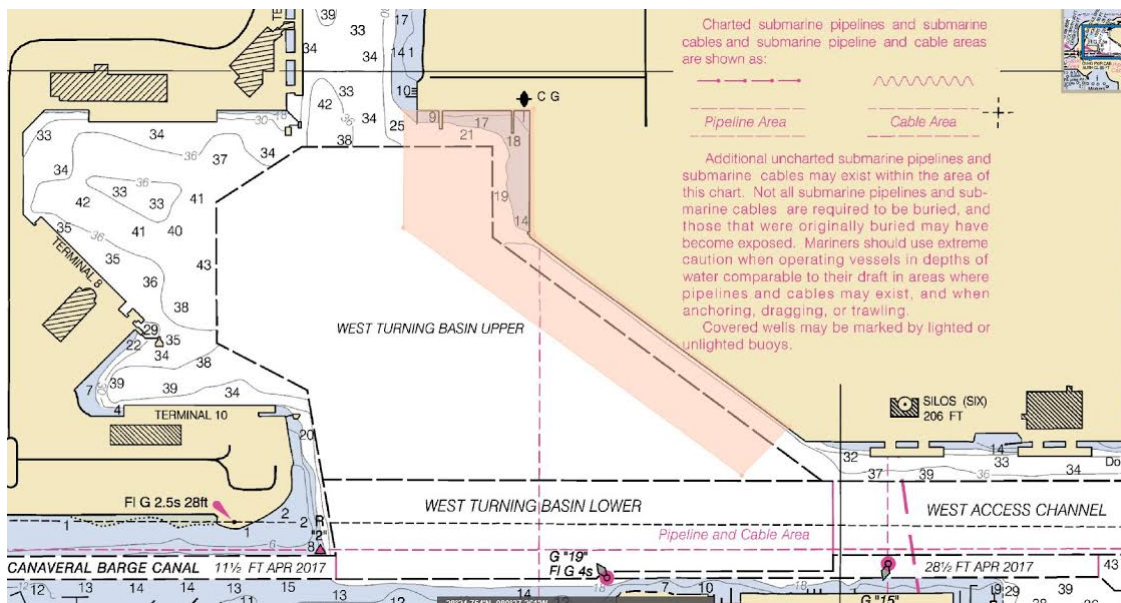
Is it possible to have the NRTs survey the pier face at Port Canaveral USCG Base (see attached graphic) before 1 June, and provide chartlets by 7 June? EX is pulling in on the 14 Jun and I have a few concerns regarding the depth. The last time that pier face was surveyed by NOAA was 1978 and although the USACE surveys the basin I assume they did not survey the pier face (I don't have access to their data). If an NRT is available I can forward you some contact information for the USCG.

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If you need a more formal request let me know and I can put it in whatever format you need.

Thanks

DZ



--
 CAPT David Zezula, NOAA
 Commanding Officer
 NOAA Marine Operations Center - Atlantic
 439 West York Street
 Norfolk, VA 23510
 757-441-6778: office
 757-275-4395: cell
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--
 CAPT James Crocker, NOAA
 Chief, Navigation Services Division
 Office of Coast Survey
 1315 East West Highway
 Silver Spring, MD 20910
 SSMC3, Room 6301
 Work: 240-533-0095
 Fax: 301-713-9312

<http://www.nauticalcharts.noaa.gov>

Any mention of a commercial product is for informational purposes and does not constitute an endorsement by the U.S. Government or any of its employees or contractors.

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=====
HONOR RESPECT COMMITMENT
=====

CDR John "Jay" Lomnicky, NOAA
Chief, Navigation Response Branch
Navigation Services Division
NOAA Office of Coast Survey
(o) 240-533-0056 ***NEW NUMBER***
(c) 202-641-1801
chief.nrb.ocs@noaa.gov
john.lomnicky@noaa.gov



James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>

Port Canaveral USCG pier

8 messages

James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov> Thu, Jun 6, 2019 at 4:53 PM
To: David Zezula - NOAA Federal <david.j.zezula@noaa.gov>, Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>, Chief NRB OCS - NOAA Service Account <chief.nrb.ocs@noaa.gov>, Louis Licate - NOAA Affiliate <louis.licate@noaa.gov>

CAPT Zezula,


Please find attached the GeoPDF for the USCG Canaveral pier face. Unfortunately there was a large cutter in the northernmost berth on the survey day so there is a bit of a gap in coverage there. We also completed 200% SSS on the area and did not find any obstructions. Please let me know if there is any more information needed and I'll be happy to send it along.

Best,

James

--

James Kirkpatrick
Team Lead NRT2
904-310-9208
757-903-7199

 **S-G919-NRT2-19-Canaveral.pdf**
1988K

David Zezula - NOAA Federal <david.j.zezula@noaa.gov> Thu, Jun 6, 2019 at 5:33 PM
To: James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>
Cc: Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>, Chief NRB OCS - NOAA Service Account <chief.nrb.ocs@noaa.gov>, Louis Licate - NOAA Affiliate <louis.licate@noaa.gov>, "co. explorer" <co.explorer@noaa.gov>, "xo. explorer" <xo.explorer@noaa.gov>

James

Thank you very much. I really appreciate the effort and the quick turn around. If you are in the area on 16 Jun you and NRT2 are invited to The EX change of command.

Vr
DZ

CAPT David Zezula
Commanding Officer
NOAA Marine Operations - Atlantic
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> <S-G919-NRT2-19-Canaveral.pdf>

James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov> Thu, Jun 6, 2019 at 6:16 PM
To: David Zezula - NOAA Federal <david.j.zezula@noaa.gov>
Cc: Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>, Chief NRB OCS - NOAA Service Account <chief.nrb.ocs@noaa.gov>, Louis Licate - NOAA Affiliate <louis.licate@noaa.gov>, "co. explorer" <co.explorer@noaa.gov>, "xo. explorer" <xo.explorer@noaa.gov>

Our pleasure, I think the 3 hour drive is a little much for the change of command ceremony but we appreciate the

invitation.

Best,

James

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[Quoted text hidden]

CO Explorer - NOAA Service Account <co.explorer@noaa.gov>

Fri, Jun 7, 2019 at 9:55 AM

To: James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>

Cc: David Zezula - NOAA Federal <david.j.zezula@noaa.gov>, Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>, Chief NRB OCS - NOAA Service Account <chief.nrb.ocs@noaa.gov>, Louis Licate - NOAA Affiliate <louis.licate@noaa.gov>, "xo. explorer" <xo.explorer@noaa.gov>, Nicole Manning - NOAA Federal <nicole.manning@noaa.gov>

James,

I'd like to second the thanks to you and your team for the quick turnaround on this survey. This data is a great help for the EX as we pull into the CG base for the first time. I'll also be sharing it with the CO of the base to help him out in the future, great stuff all around!

Thanks,

Eric Johnson

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CDR Eric Johnson
Commanding Officer
NOAA Ship Okeanos Explorer

2578 Davisville Road
North Kingstown, RI 02852
CO Cell: 401-439-7848
Iridium: (808) 659 9179
<http://oceanexplorer.noaa.gov/okeanos/about.html>

Jay Lomnicky - NOAA Federal <chief.nrb.ocs@noaa.gov>

Fri, Jun 7, 2019 at 10:07 AM

To: James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>

NICE WORK!!!! The fast turn around was awesome.

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HONOR RESPECT COMMITMENT
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CDR John "Jay" Lomnicky, NOAA
Chief, Navigation Response Branch
Navigation Services Division
NOAA Office of Coast Survey
(o) 240-533-0056 *NEW NUMBER*
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chief.nrb.ocs@noaa.gov
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James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>

Fri, Jun 7, 2019 at 10:11 AM

To: Jay Lomnicky - NOAA Federal <chief.nrb.ocs@noaa.gov>

Thanks, I would have liked to go see the change of command ceremony but it's on Father's Day and we are heading to Miami later that week so it just isn't in the cards.

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Jay Lomnicky - NOAA Federal <chief.nrb.ocs@noaa.gov>
To: James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>

Fri, Jun 7, 2019 at 10:28 AM

CAPT Crocker is curious when you think you can have this processed and submitted to PHB? I think he's looking to see what we can do for discrepancy work.

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James Kirkpatrick - NOAA Federal <james.kirkpatrick@noaa.gov>
To: Jay Lomnicky - NOAA Federal <chief.nrb.ocs@noaa.gov>

Fri, Jun 7, 2019 at 10:39 AM

I'm hoping to get it all packaged up next week. Since it is so small it should be a pretty quick turn around.

On Friday, June 7, 2019, Jay Lomnicky - NOAA Federal <chief.nrb.ocs@noaa.gov> wrote:

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APPROVAL PAGE

F00775

Data meet or exceed current specifications as certified by the OCS survey acceptance review process. Descriptive Report and survey data except where noted are adequate to supersede prior surveys and nautical charts in the common area.

The following products will be sent to NCEI for archive

- Descriptive Report
- Collection of Bathymetric Attributed Grids (BAGs)
- Collection of backscatter mosaics
- Processed survey data and records
- GeoPDF of survey product

The survey evaluation and verification has been conducted according current OCS Specifications, and the survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Approved: _____

Commander Olivia Hauser, NOAA
Chief, Pacific Hydrographic Branch