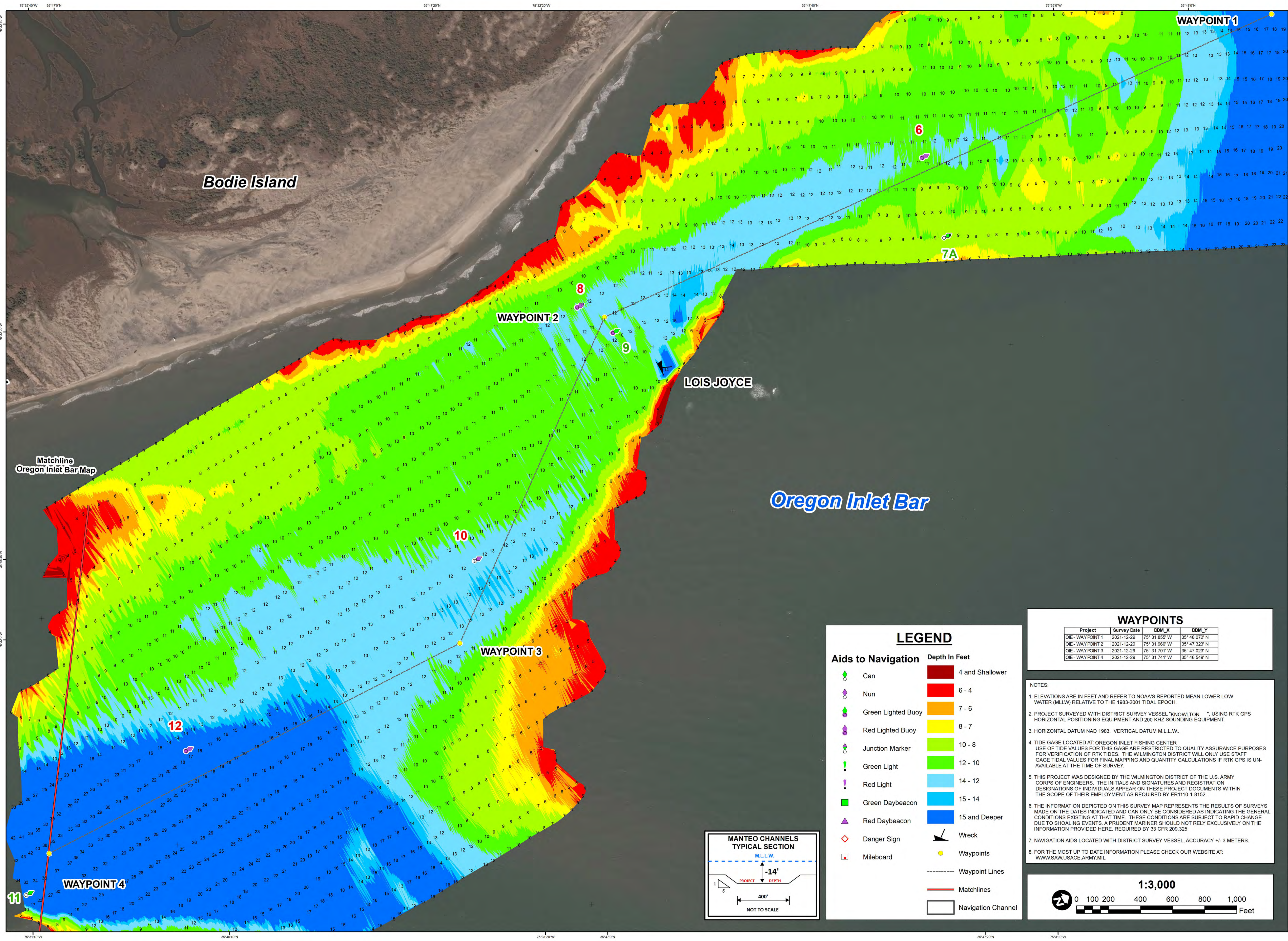
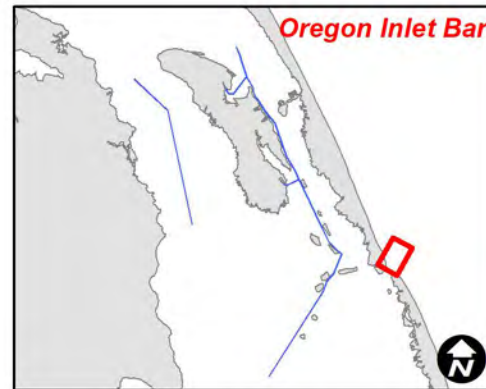






**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



SURVEYED BY: SSS, CAB	SURVEY DATE: 29 DECEMBER 2021
MAPPED BY: KTOPNAGF	MAP DATE: 30 DECEMBER 2021
PROCESSED BY: KTOPNAGF	
	MAP SCALE: 1:3,000
	IMAGERY DATE: 26 NOVEMBER 2021
	© 2021 DIGITAL GLOBE NEXTVIEW LICENSE
	MAP FILE NAME: MN_30_OIE_20211229_CS

HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Oregon Inlet Bar

MANTEO, NORTH CAROLINA

LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Wreck
- Waypoints
- Waypoint Lines
- Matchlines
- Navigation Channel

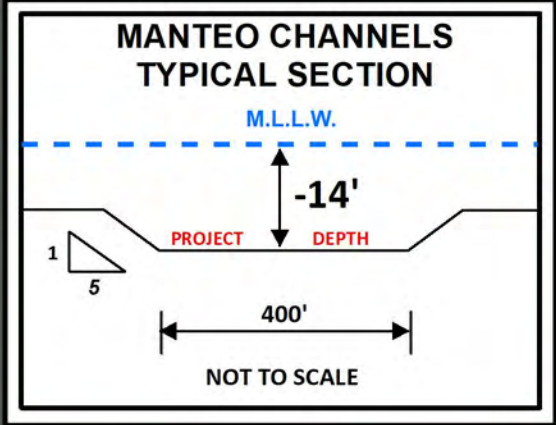
WAYPOINTS

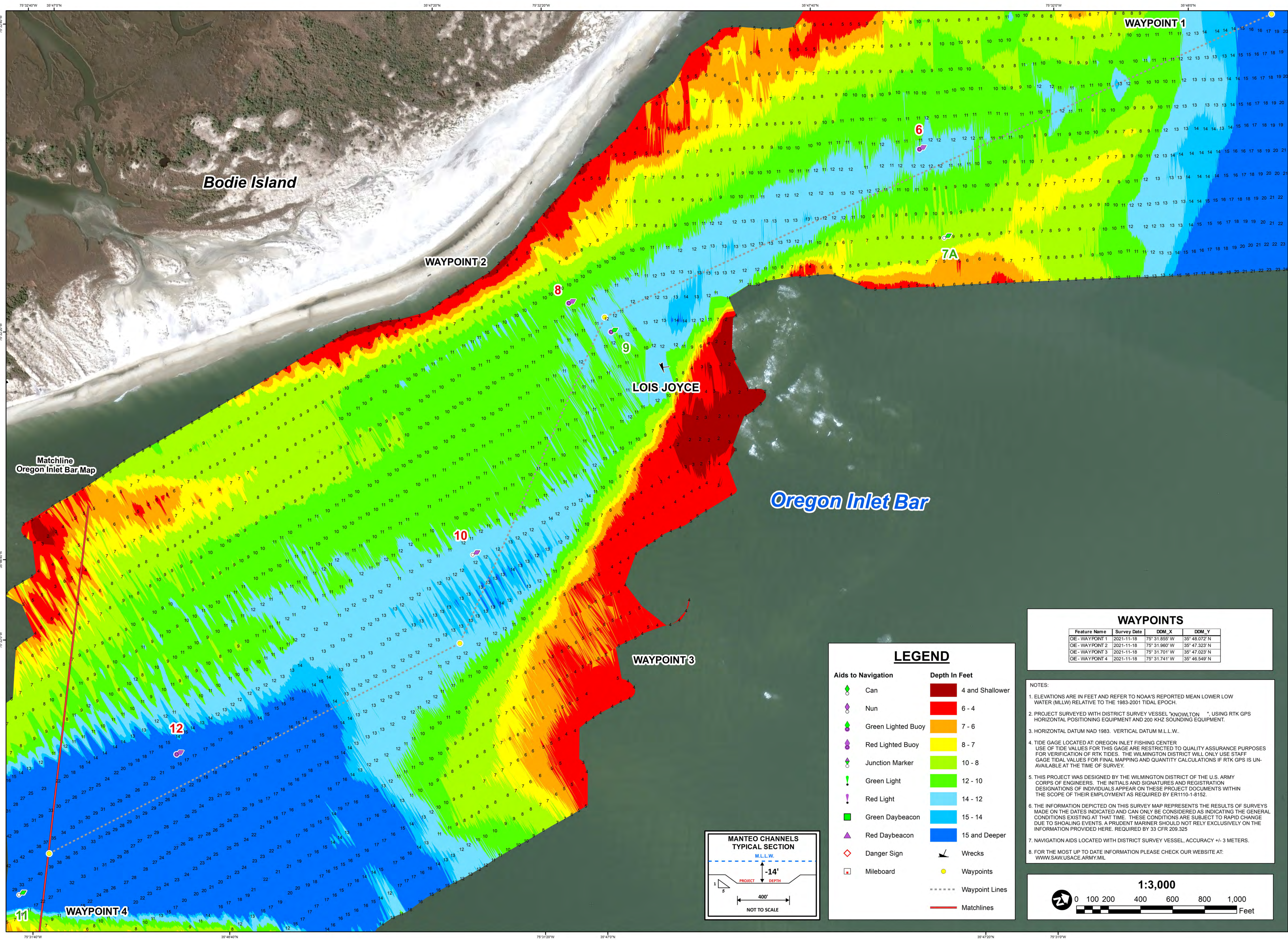
Project	Survey Date	DDM_X	DDM_Y
OIE- WAYPOINT 1	2021-12-29	75° 31.855' W	35° 46.072' N
OIE- WAYPOINT 2	2021-12-29	75° 31.980' W	35° 47.323' N
OIE- WAYPOINT 3	2021-12-29	75° 31.701' W	35° 47.023' N
OIE- WAYPOINT 4	2021-12-29	75° 31.741' W	35° 46.549' N

NOTES:

- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "KNOWLTON", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
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- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

1:3,000
0 100 200 400 600 800 1,000 Feet



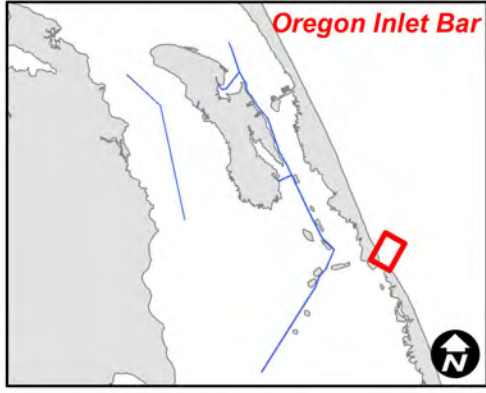




**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA





SURVEY DATE: 18 NOVEMBER 2021	SURVEYED BY: DCH, CAB
MAP DATE: 19 NOVEMBER 2021	MAPPED BY: K7OPNLAC
	PROCESSED BY: K7OPNLAC
MAP SCALE: 1:3,000	
IMAGERY DATE: 17 NOVEMBER 2021	
© 2021 DIGITAL GLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20211118_CS

HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA

LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Wrecks
- Waypoints
- Waypoint Lines
- Matchlines

WAYPOINTS

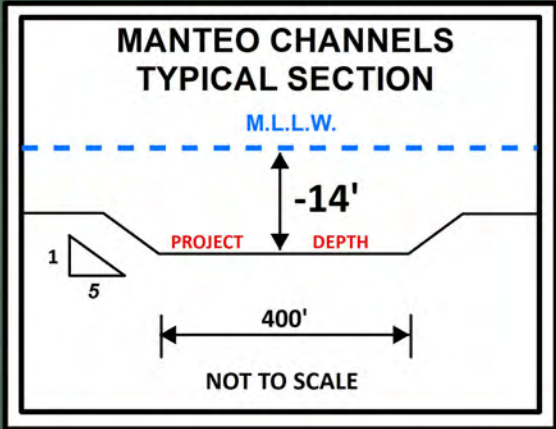
Feature Name	Survey Date	DDM_X	DDM_Y
OE - WAYPOINT 1	2021-11-18	75° 31.855' W	35° 48.072' N
OE - WAYPOINT 2	2021-11-18	75° 31.960' W	35° 47.323' N
OE - WAYPOINT 3	2021-11-18	75° 31.701' W	35° 47.023' N
OE - WAYPOINT 4	2021-11-18	75° 31.741' W	35° 46.549' N

NOTES:

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1:3,000

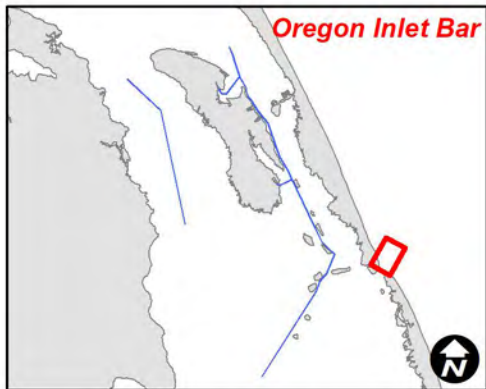
0 100 200 400 600 800 1,000 Feet





US Army Corps
of Engineers
Wilmington District

NORTH CAROLINA



SURVEY DATE: 27 SEPTEMBER 2021	SURVEYED BY: DCH, SSS
MAP DATE: 28 SEPTEMBER 2021	MAPPED BY: KTOPNLAC
	PROCESSED BY: KTOPNLAC
MAP SCALE: 1:3,000	
IMAGERY DATE: 14 APRIL & 26 MAY 2021	
© 2021 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20210927_CS

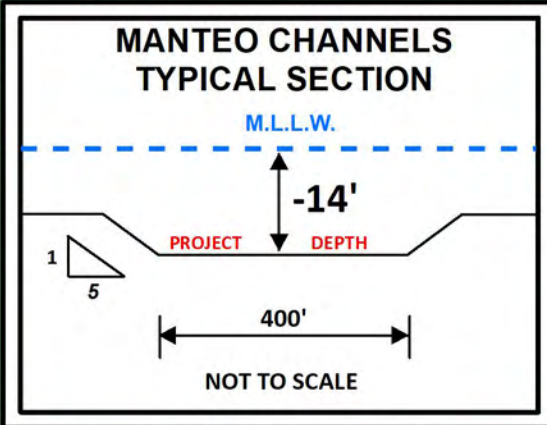
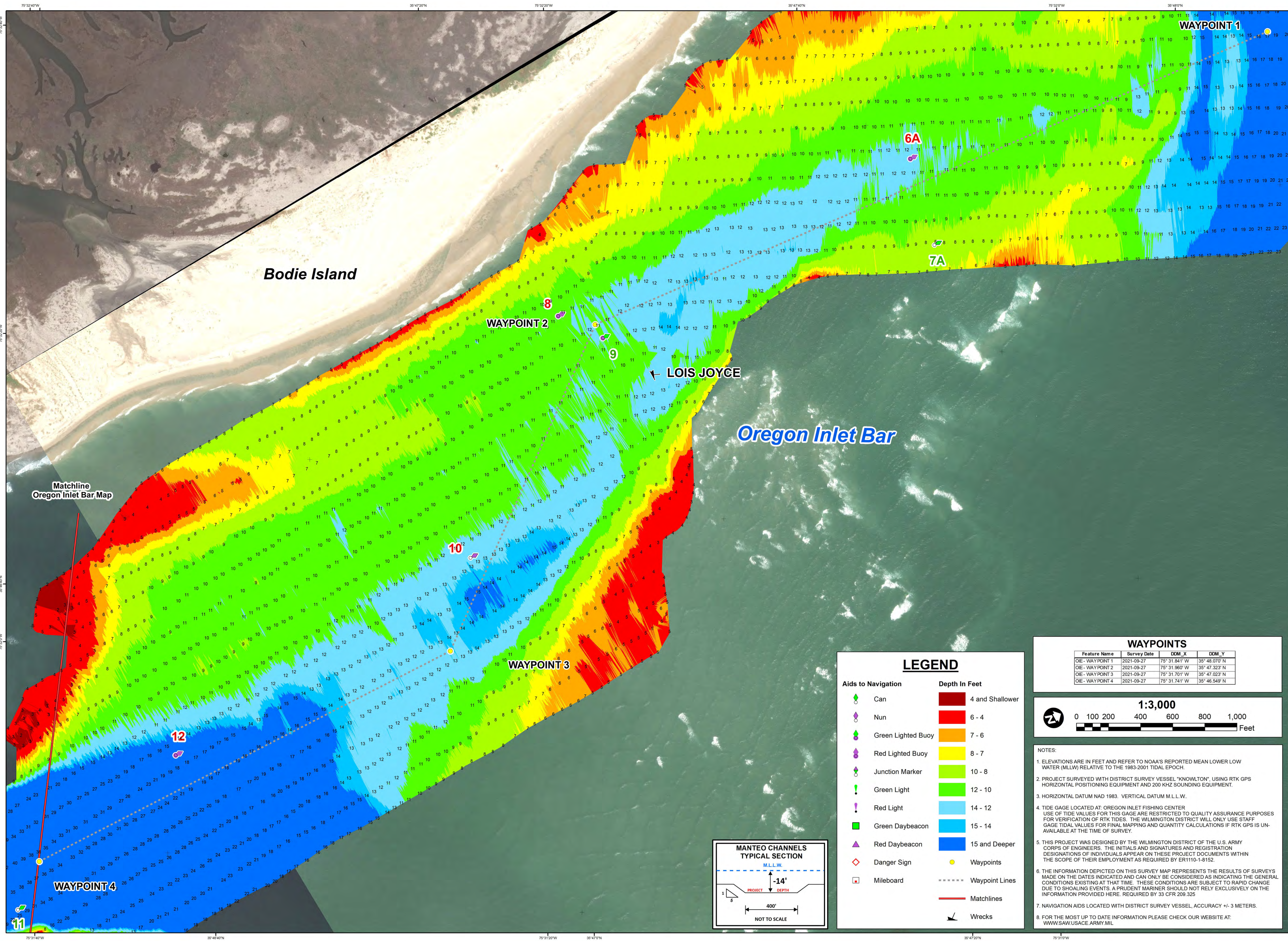
HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

MANTEO CHANNELS

Oregon Inlet Bar

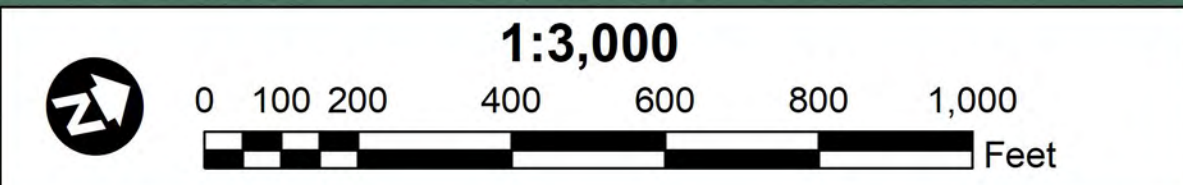
MANTEO, NORTH CAROLINA



LEGEND

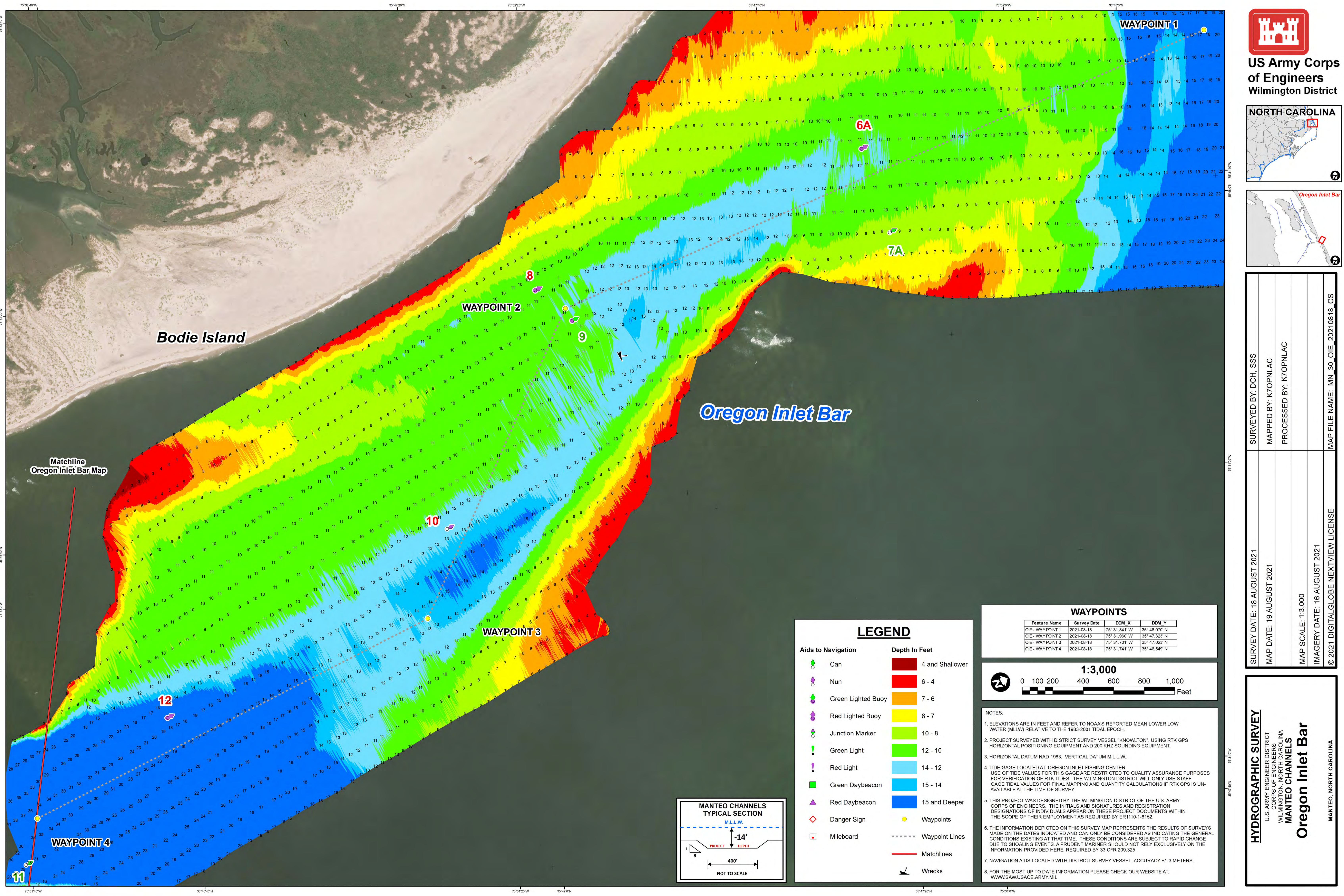
Aids to Navigation	Depth In Feet
Can	4 and Shallower
Nun	6 - 4
Green Lighted Buoy	7 - 6
Red Lighted Buoy	8 - 7
Junction Marker	10 - 8
Green Light	12 - 10
Red Light	14 - 12
Green Daybeacon	15 - 14
Red Daybeacon	15 and Deeper
Danger Sign	Waypoints
Mileboard	Waypoint Lines
	Matchlines
	Wrecks

WAYPOINTS			
Feature Name	Survey Date	DDM_X	DDM_Y
OIE - WAYPOINT 1	2021-09-27	75° 31.841' W	35° 48.070' N
OIE - WAYPOINT 2	2021-09-27	75° 31.960' W	35° 47.323' N
OIE - WAYPOINT 3	2021-09-27	75° 31.701' W	35° 47.023' N
OIE - WAYPOINT 4	2021-09-27	75° 31.741' W	35° 46.549' N



NOTES:

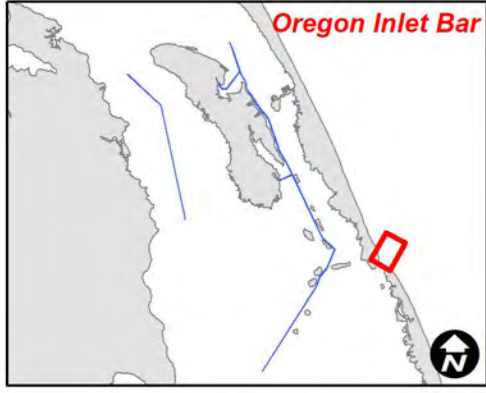
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**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



SURVEY DATE: 18 AUGUST 2021	SURVEYED BY: DCH, SSS
MAP DATE: 19 AUGUST 2021	MAPPED BY: KTOPNLAC
	PROCESSED BY: KTOPNLAC
MAP SCALE: 1:3,000	
IMAGERY DATE: 16 AUGUST 2021	
© 2021 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20210818_CS

LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Matchlines
- Wrecks

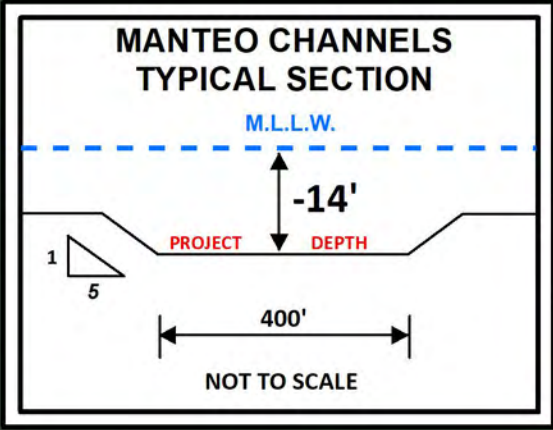
WAYPOINTS

Feature Name	Survey Date	DOM_X	DOM_Y
OIE- WAYPOINT 1	2021-08-18	75° 31.841' W	35° 48.070' N
OIE- WAYPOINT 2	2021-08-18	75° 31.960' W	35° 47.323' N
OIE- WAYPOINT 3	2021-08-18	75° 31.701' W	35° 47.023' N
OIE- WAYPOINT 4	2021-08-18	75° 31.741' W	35° 46.549' N

1:3,000
0 100 200 400 600 800 1,000 Feet

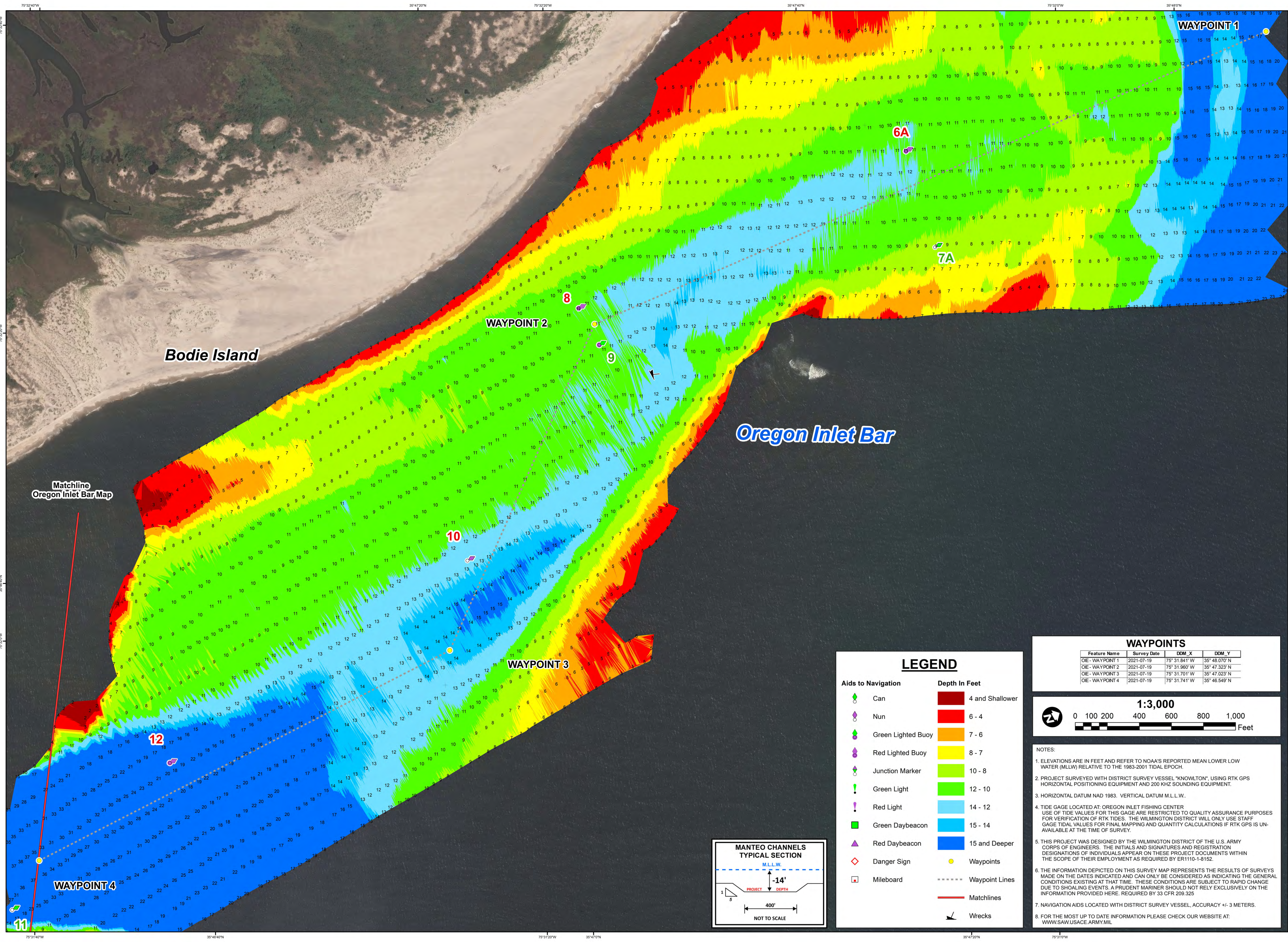
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HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTO CHANNELS
Oregon Inlet Bar

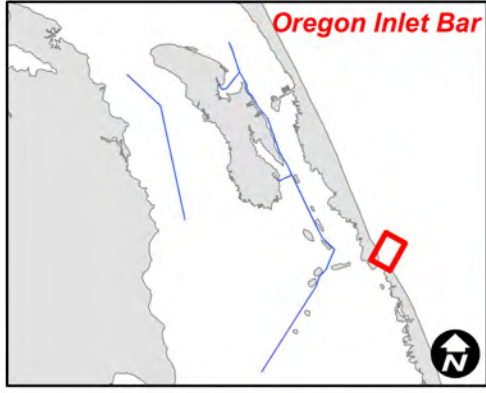
MANTO, NORTH CAROLINA





**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



SURVEY DATE: 19 JULY 2021	SURVEYED BY: DCH, SSS
MAP DATE: 20 JULY 2021	MAPPED BY: KTOPNAGF
	PROCESSED BY: KTOPNAGF
MAP SCALE: 1:3,000	
IMAGERY DATE: 16 JULY 2021	
© 2021 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20210719_CS

LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper

- Waypoints
- Waypoint Lines
- Matchlines
- Wrecks

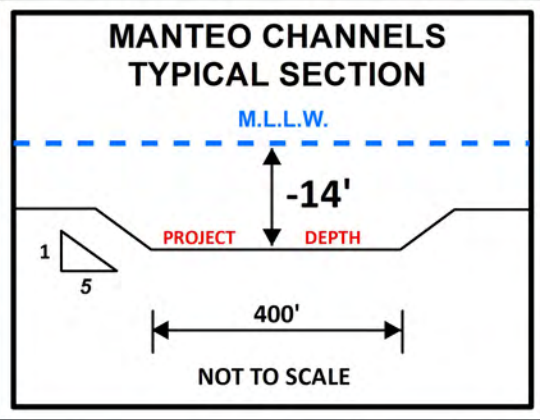
WAYPOINTS

Feature Name	Survey Date	DDM_X	DDM_Y
OIE - WAYPOINT 1	2021-07-19	75° 31.841' W	35° 48.070' N
OIE - WAYPOINT 2	2021-07-19	75° 31.980' W	35° 47.323' N
OIE - WAYPOINT 3	2021-07-19	75° 31.701' W	35° 47.023' N
OIE - WAYPOINT 4	2021-07-19	75° 31.741' W	35° 46.549' N

1:3,000
0 100 200 400 600 800 1,000 Feet

NOTES:

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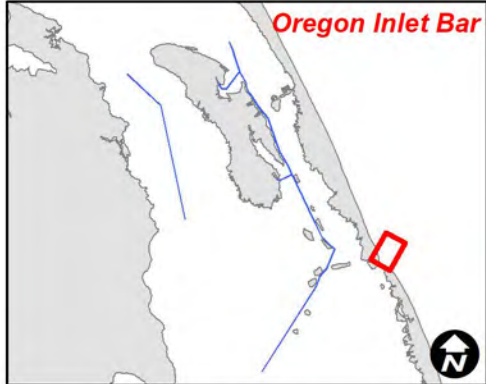
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Oregon Inlet Bar

MANTEO, NORTH CAROLINA



US Army Corps
of Engineers
Wilmington District

NORTH CAROLINA



SURVEY DATE: 16 JUNE 2021	SURVEYED BY: DCH, SSS
MAP DATE: 17 JUNE 2021	MAPPED BY: KTOPNLAC
	PROCESSED BY: KTOPNLAC
MAP SCALE: 1:3,000	
IMAGERY DATE: 01 MAY 2021	
© 2021 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20210616_CS

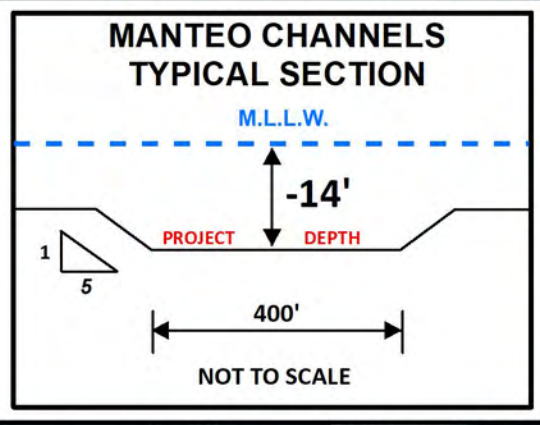
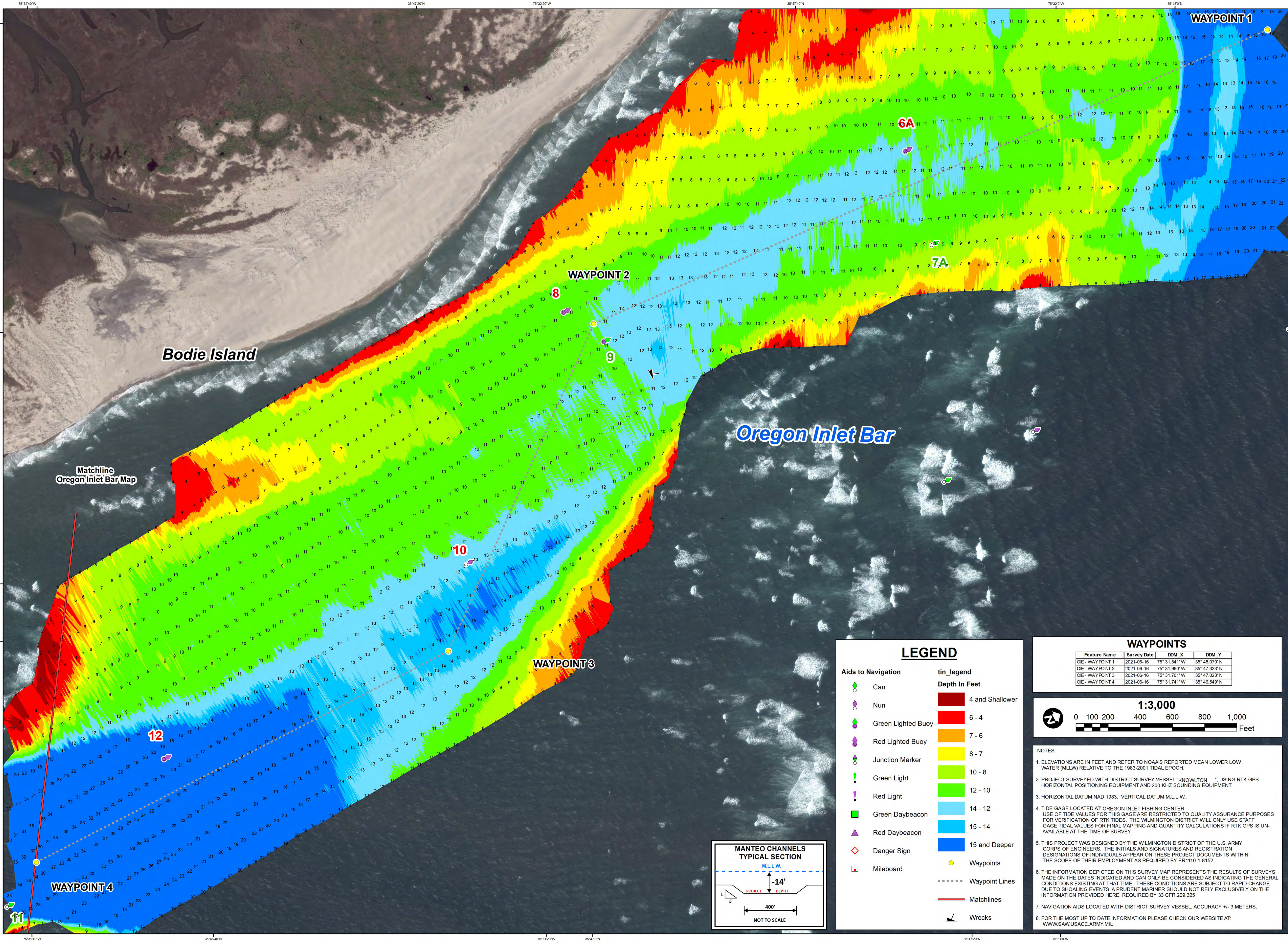
HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA



LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

tin_legend

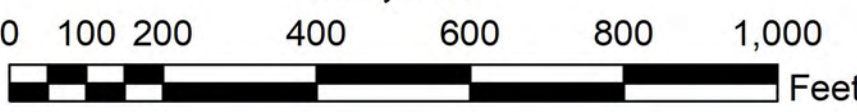
Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Matchlines
- Wrecks

WAYPOINTS

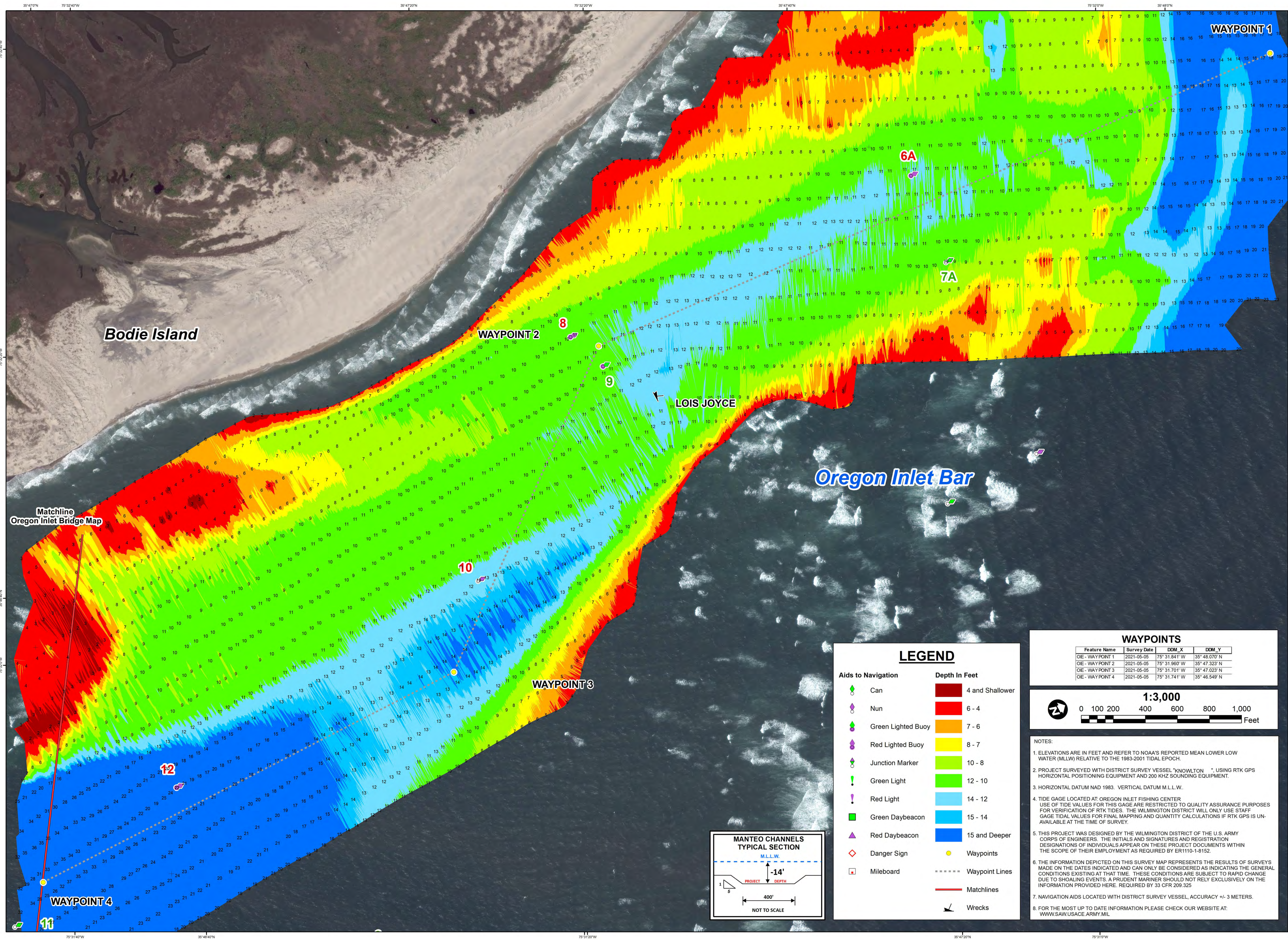
Feature Name	Survey Date	DDM_X	DDM_Y
OE - WAYPOINT 1	2021-06-16	75° 31.841' W	35° 48.070' N
OE - WAYPOINT 2	2021-06-16	75° 31.960' W	35° 47.323' N
OE - WAYPOINT 3	2021-06-16	75° 31.701' W	35° 47.023' N
OE - WAYPOINT 4	2021-06-16	75° 31.741' W	35° 46.549' N

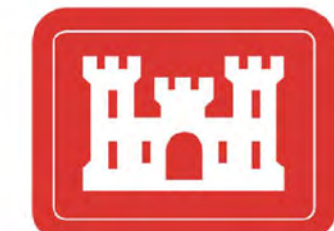
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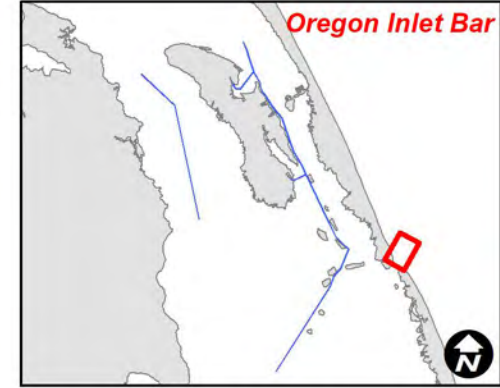
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**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



SURVEYED BY: DCH, SSS	
MAPPED BY: KTOPNLAC	
PROCESSED BY: KTOPNLAC	
MAP SCALE: 1:3,000	
IMAGERY DATE: 01 MAY 2021	
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MAP FILE NAME: MN_30_OIE_20210605_CS	

LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

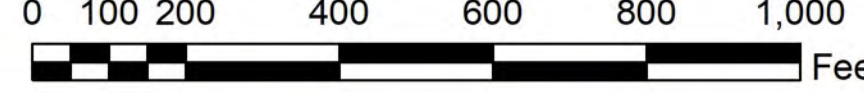
Depth In Feet

4 and Shallower
6 - 4
7 - 6
8 - 7
10 - 8
12 - 10
14 - 12
15 - 14
15 and Deeper

- Waypoints
- Waypoint Lines
- Matchlines
- Wrecks

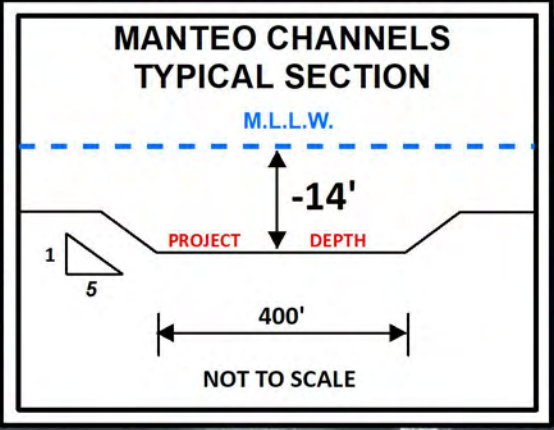
WAYPOINTS

Feature Name	Survey Date	DDM_X	DDM_Y
OIE - WAYPOINT 1	2021-05-05	75° 31.841' W	35° 48.070' N
OIE - WAYPOINT 2	2021-05-05	75° 31.960' W	35° 47.329' N
OIE - WAYPOINT 3	2021-05-05	75° 31.701' W	35° 47.029' N
OIE - WAYPOINT 4	2021-05-05	75° 31.741' W	35° 46.549' N



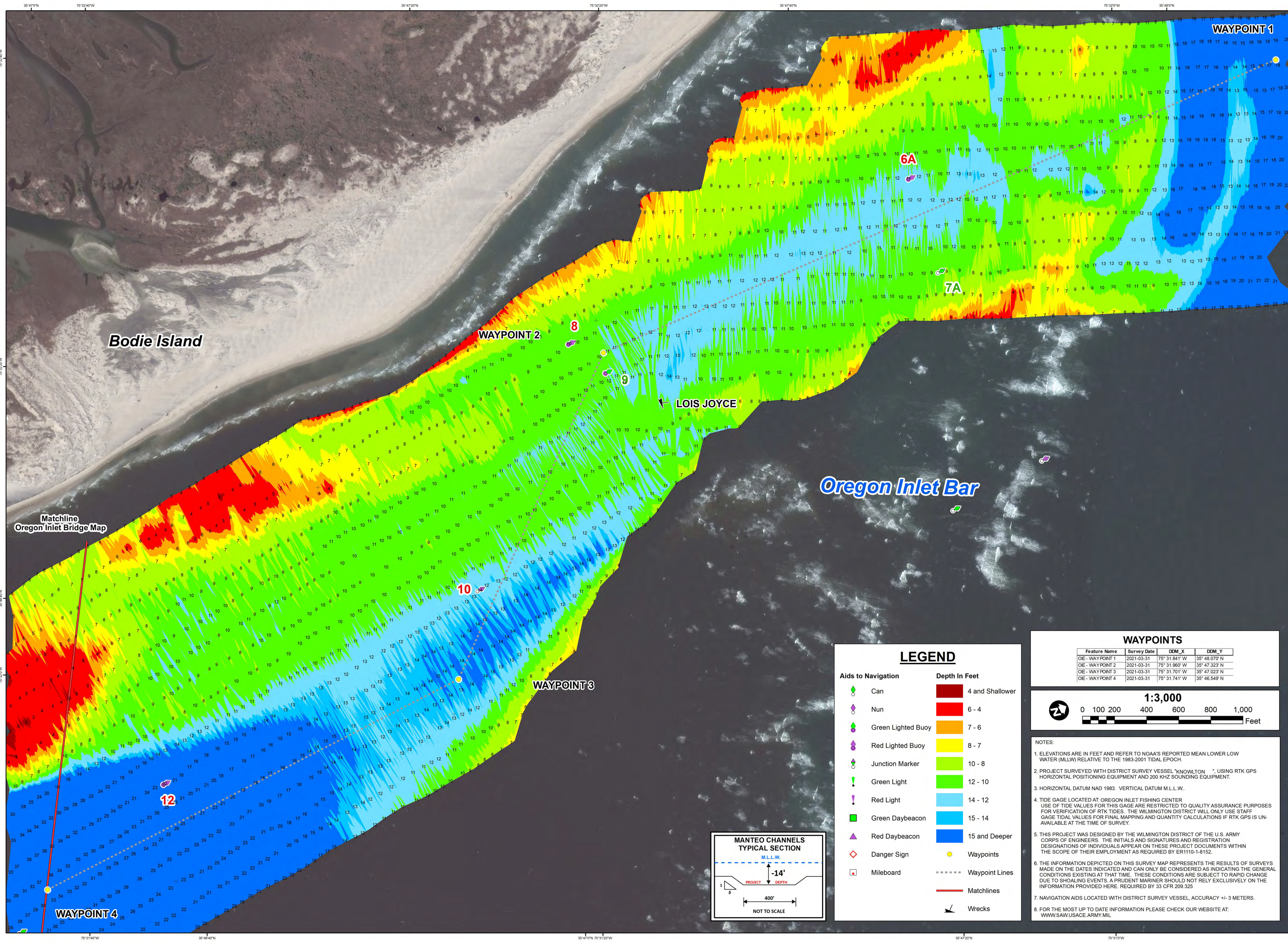
NOTES:

- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
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- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL



HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Oregon Inlet Bar

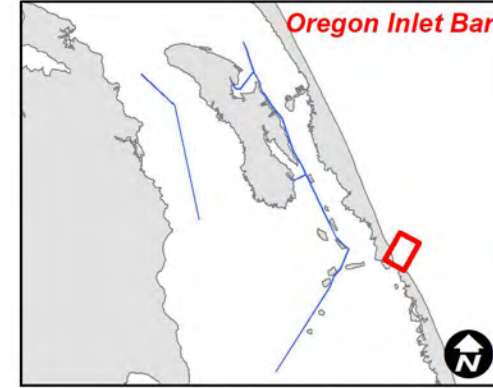
MANTEO, NORTH CAROLINA





**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



SURVEYED BY: DCH, SSS	SURVEY DATE: 31 MARCH 2021
MAPPED BY: K7OPNLAC	MAP DATE: 01 APRIL 2021
PROCESSED BY: K7OPNLAC	
	MAP SCALE: 1:3,000
	IMAGERY DATE: 07 MARCH 2021
	© 2021 DIGITALGLOBE NEXTVIEW LICENSE
	MAP FILE NAME: MN_30_OIE_20210331_CS

LEGEND

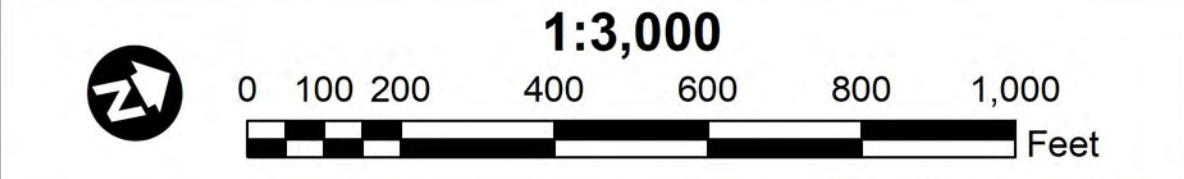
Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

Depth In Feet

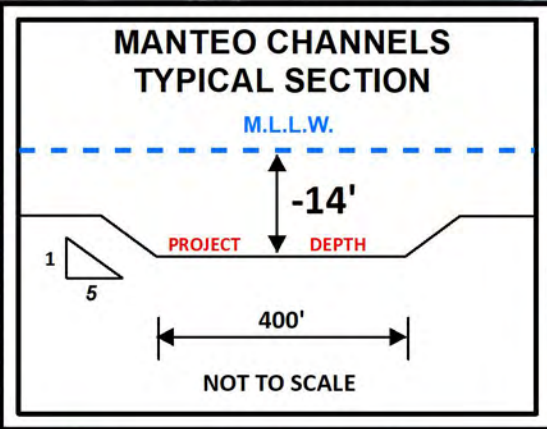
- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Matchlines
- Wrecks

WAYPOINTS			
Feature Name	Survey Date	DDM_X	DDM_Y
OIE - WAYPOINT 1	2021-03-31	75° 31.841' W	35° 48.070' N
OIE - WAYPOINT 2	2021-03-31	75° 31.960' W	35° 47.323' N
OIE - WAYPOINT 3	2021-03-31	75° 31.701' W	35° 47.023' N
OIE - WAYPOINT 4	2021-03-31	75° 31.741' W	35° 46.549' N



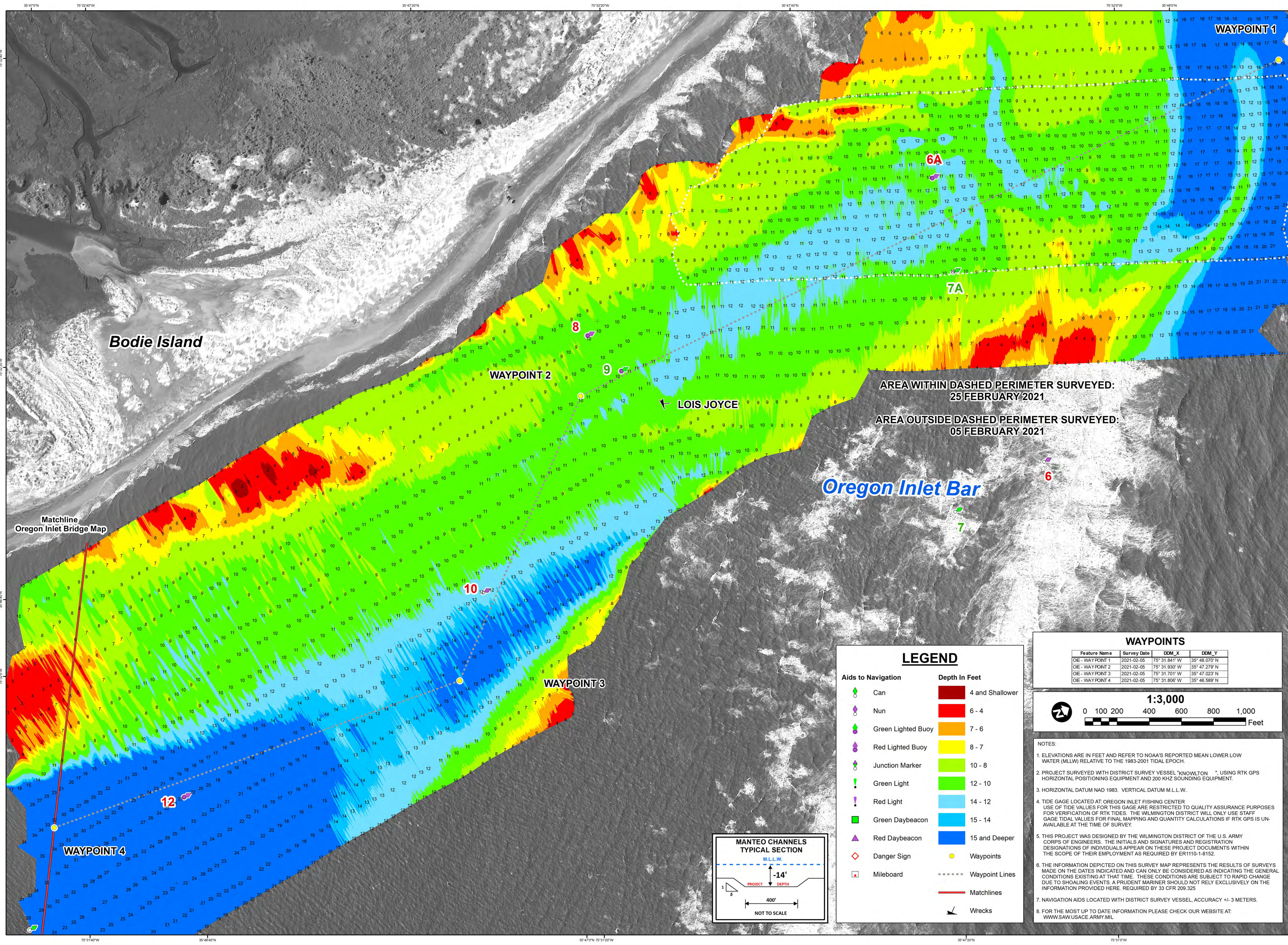
NOTES:

- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
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- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
- TIDE GAGE LOCATED AT: OREGON INLET FISHING CENTER. USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
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HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Oregon Inlet Bar

MANTEO, NORTH CAROLINA

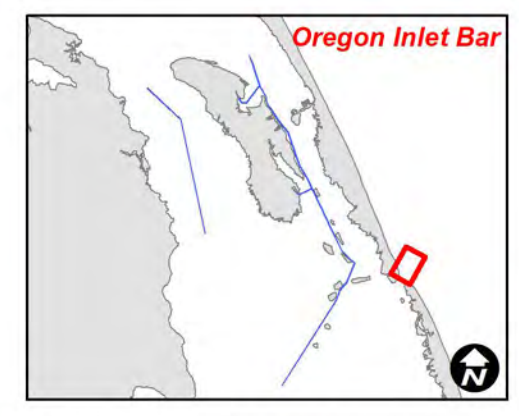




**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA





SURVEYED BY: DCH, SSS	SURVEY DATE: 05 & 25 FEBRUARY 2021
MAPPED BY: K7OPNLAC	MAP DATE: 26 FEBRUARY 2021
PROCESSED BY: K7OPNLAC	
	MAP SCALE: 1:3,000
	IMAGERY DATE: 29 JANUARY 2021
	© 2021 DIGITAL GLOBE NEXTVIEW LICENSE
	MAP FILE NAME: MN_30_OIE_20210205_CS

LEGEND

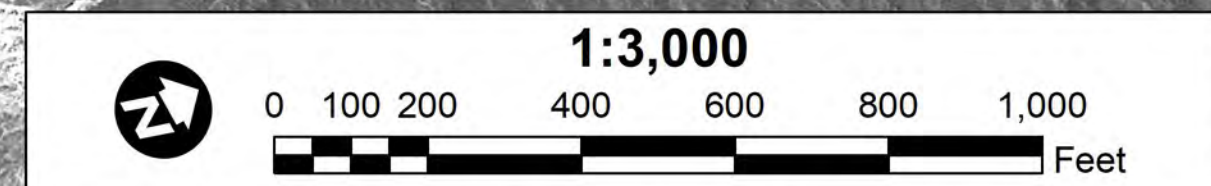
Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Matchlines
- Wrecks

WAYPOINTS			
Feature Name	Survey Date	DDM_X	DDM_Y
OIE - WAYPOINT 1	2021-02-05	75° 31.841' W	35° 48.070' N
OIE - WAYPOINT 2	2021-02-05	75° 31.930' W	35° 47.279' N
OIE - WAYPOINT 3	2021-02-05	75° 31.701' W	35° 47.023' N
OIE - WAYPOINT 4	2021-02-05	75° 31.806' W	35° 46.589' N



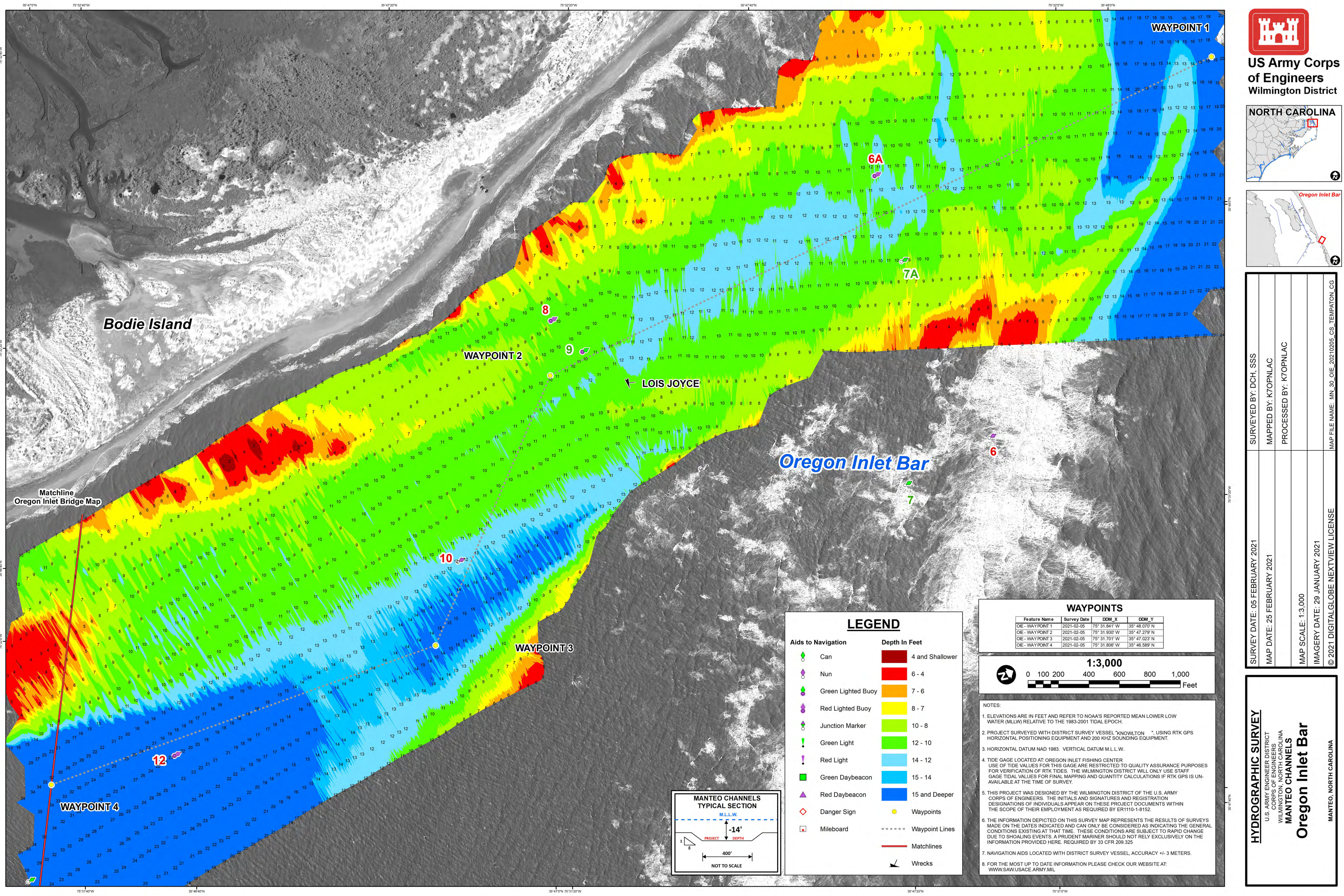
NOTES:

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HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Oregon Inlet Bar

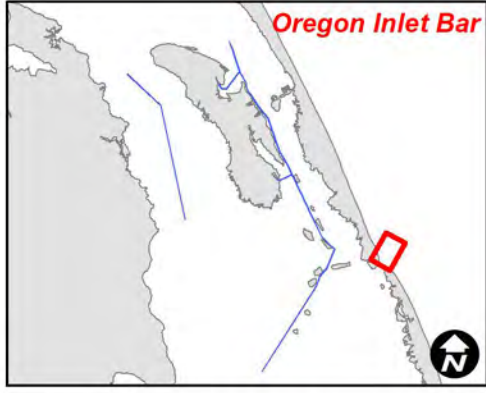
MANTEO, NORTH CAROLINA





**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



SURVEYED BY: DCH, SSS	SURVEY DATE: 05 FEBRUARY 2021
MAPPED BY: K7OPNLAC	MAP DATE: 25 FEBRUARY 2021
PROCESSED BY: K7OPNLAC	
	MAP SCALE: 1:3,000
	IMAGERY DATE: 29 JANUARY 2021
	© 2021 DIGITAL GLOBE NEXTVIEW LICENSE
	MAP FILE NAME: MN_30_OIE_20210205_CS_TEMPATON.CG

LEGEND

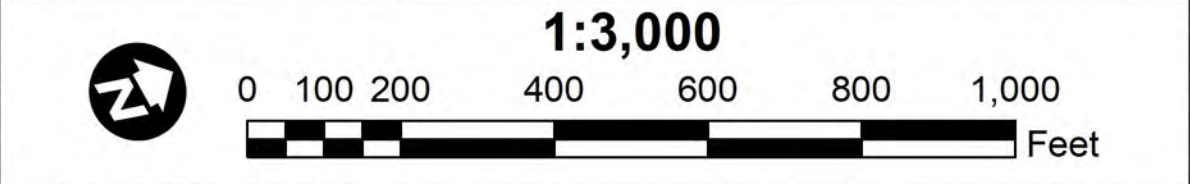
Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker
- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

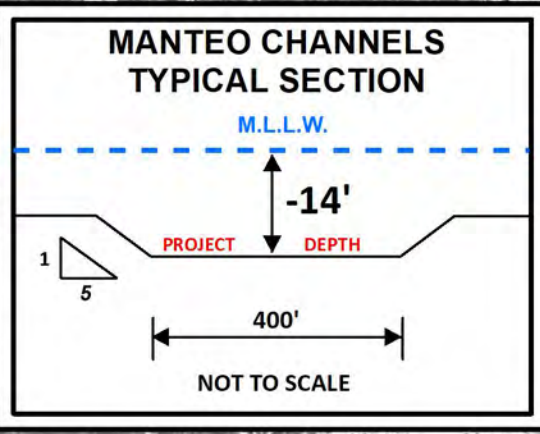
Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper
- Waypoints
- Waypoint Lines
- Matchlines
- Wrecks

WAYPOINTS			
Feature Name	Survey Date	DDM_X	DDM_Y
OIE - WAYPOINT 1	2021-02-05	75° 31.841' W	35° 48.070' N
OIE - WAYPOINT 2	2021-02-05	75° 31.930' W	35° 47.279' N
OIE - WAYPOINT 3	2021-02-05	75° 31.701' W	35° 47.023' N
OIE - WAYPOINT 4	2021-02-05	75° 31.806' W	35° 46.589' N

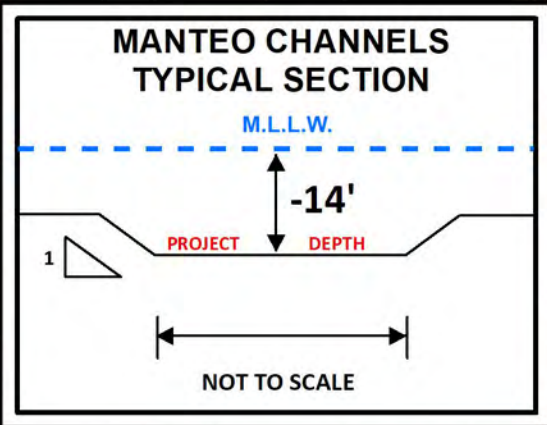
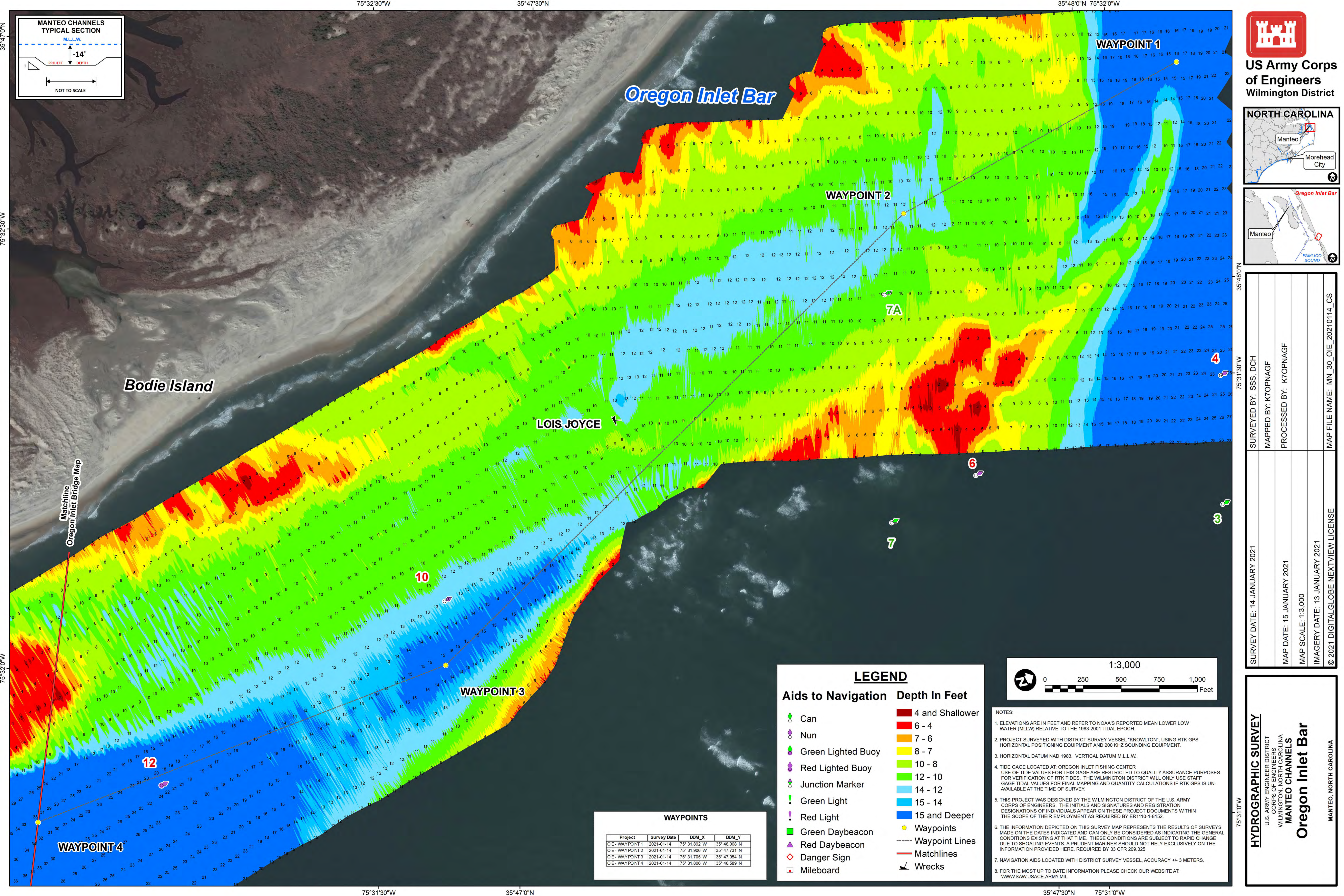


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HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Oregon Inlet Bar

MANTEO, NORTH CAROLINA



WAYPOINTS			
Project	Survey Date	DOM_X	DOM_Y
OIE - WAYPOINT 1	2021-01-14	75° 31.892' W	35° 48.068' N
OIE - WAYPOINT 2	2021-01-14	75° 31.906' W	35° 47.731' N
OIE - WAYPOINT 3	2021-01-14	75° 31.705' W	35° 47.054' N
OIE - WAYPOINT 4	2021-01-14	75° 31.806' W	35° 46.589' N

LEGEND

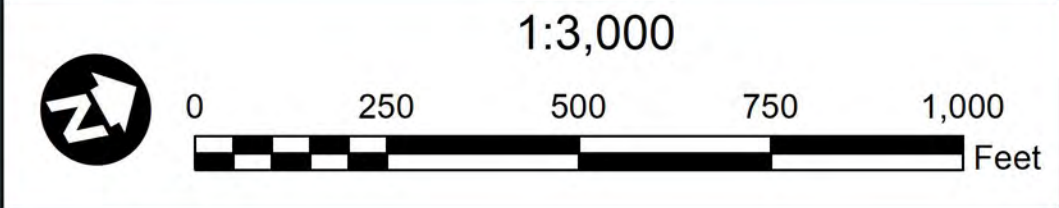
Aids to Navigation

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- Nun
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- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard

Depth In Feet

- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
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- 14 - 12
- 15 - 14
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Waypoints
Waypoint Lines
Matchlines
Wrecks



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**US Army Corps
of Engineers
Wilmington District**

NORTH CAROLINA

Manteo
Morehead City

Oregon Inlet Bar

SURVEY DATE: 14 JANUARY 2021	SURVEYED BY: SSS, DCH
MAP DATE: 15 JANUARY 2021	MAPPED BY: K7OPNAGF
MAP SCALE: 1:3,000	PROCESSED BY: K7OPNAGF
IMAGERY DATE: 13 JANUARY 2021	
© 2021 DIGITAL GLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20210114_CS

HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS
Oregon Inlet Bar

MANTEO, NORTH CAROLINA