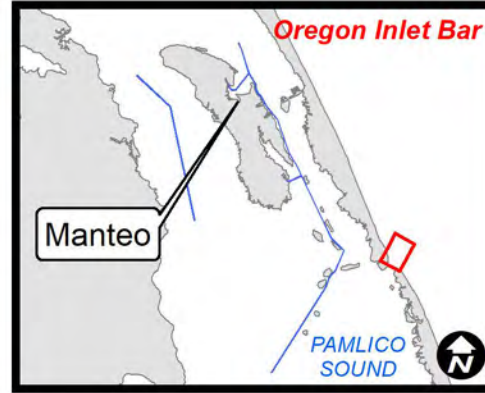
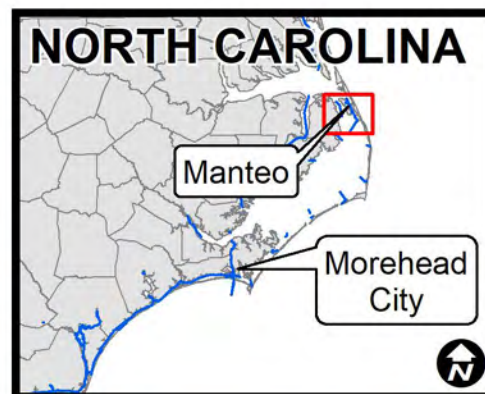


US Army Corps
of Engineers
Wilmington District



SURVEYED BY: DCH, SSS	SURVEY DATE: 25 NOVEMBER & 16 DECEMBER 2019
MAPPED BY: KTOPNAGF	MAP DATE: 17 DECEMBER 2019
PROCESSED BY: KTOPNAC & KTOPNAGF	MAP SCALE: 1:3,000
	IMAGERY DATE: 28 NOVEMBER 2019
MAP FILE NAME: MN_30_OIE_20191216_CS	© 2019 DIGITAL GLOBE NEXTVIEW LICENSE

HYDROGRAPHIC SURVEY

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

MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA

- 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.
 - TIDE GAGE LOCATED AT NW FENDER. 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 TIDE VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
 - THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
 - THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
 - 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

LEGEND

Can

Nun

Green Lighted Buoy

Red Lighted Buoy

Junction Marker

Green Light

Red Light

Green Daybeacon

Red Daybeacon

Danger Sign

Mileboard

Tide Gage

4 and Shallower

6 - 4

7 - 6

8 - 7

10 - 8

12 - 10

14 - 12

15 - 14

15 and Deeper

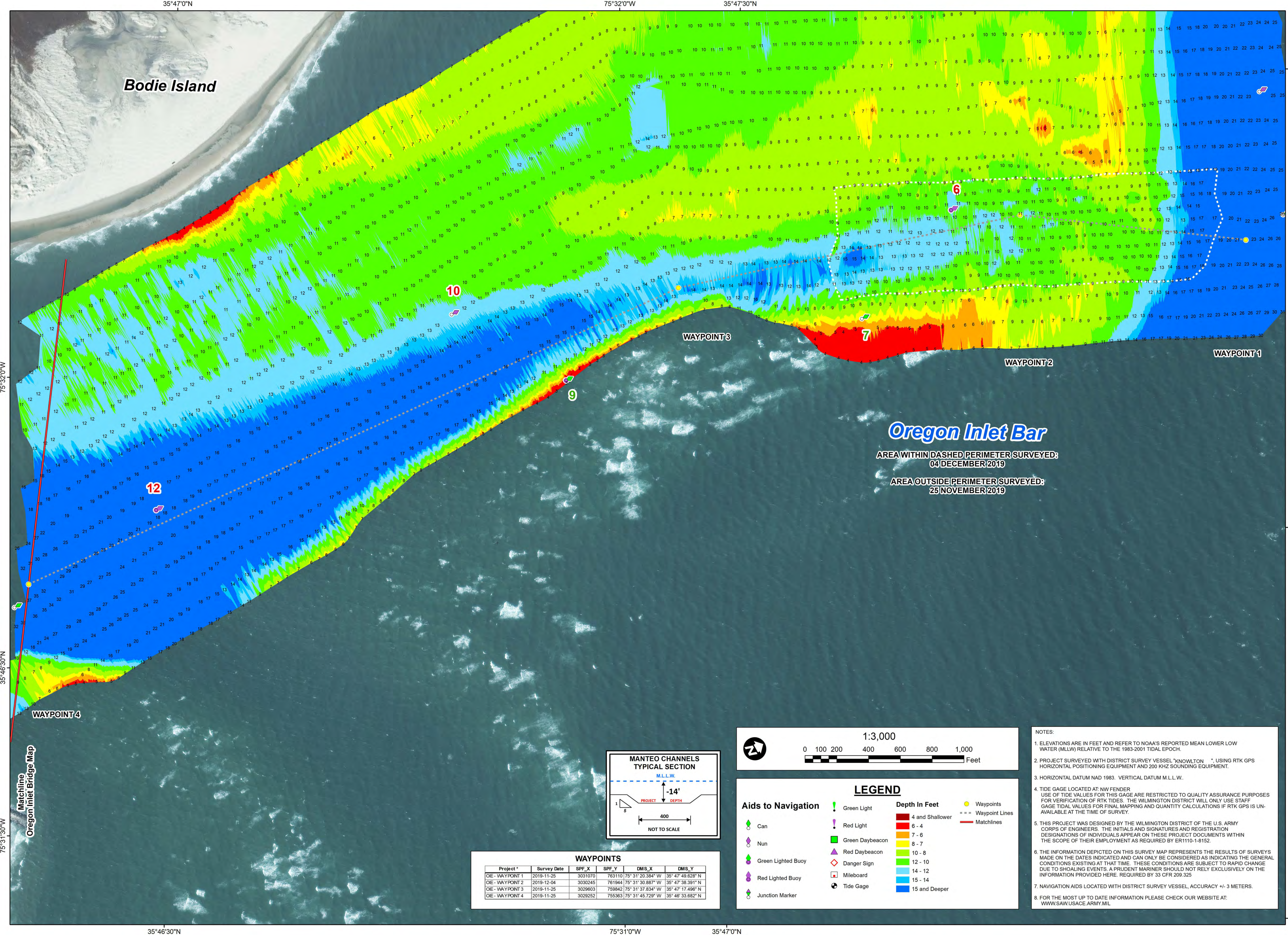
Waypoints

Waypoint Lines

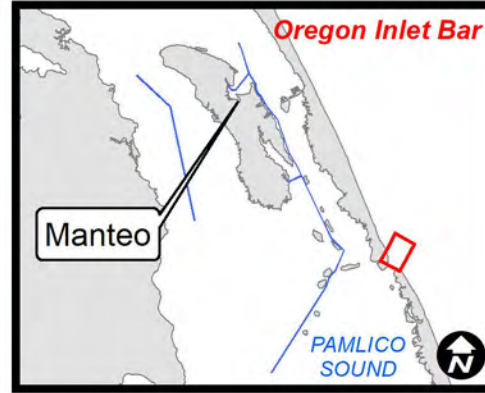
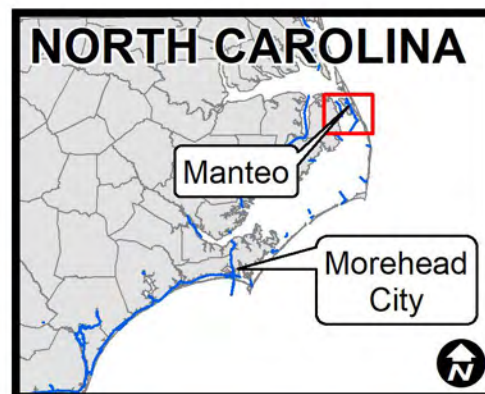
Matchlines

WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-11-25	3030830	762922	75° 31' 23.378" W	35° 47' 47.853" N
OIE - WAYPOINT 2	2019-12-16	3030138	761662	75° 31' 32.307" W	35° 47' 35.636" N
OIE - WAYPOINT 3	2019-12-16	3029603	759842	75° 31' 39.566" W	35° 47' 17.830" N
OIE - WAYPOINT 4	2019-11-25	3029252	755363	75° 31' 45.729" W	35° 46' 33.682" N

MANTEO CHANNELS
TYPICAL SECTION



US Army Corps
of Engineers
Wilmington District



SURVEYED BY: DCH, SSS	SURVEY DATE: 25 NOVEMBER & 04 DECEMBER 2019
MAPPED BY: KTOPNLAC	MAP DATE: 05 DECEMBER 2019
PROCESSED BY: KTOPNLAC	MAP SCALE: 1:3,000
	IMAGERY DATE: 28 NOVEMBER 2019
MAP FILE NAME: MN_30_OIE_20191204_CS	© 2019 DIGITAL GLOBE NEXTVIEW LICENSE

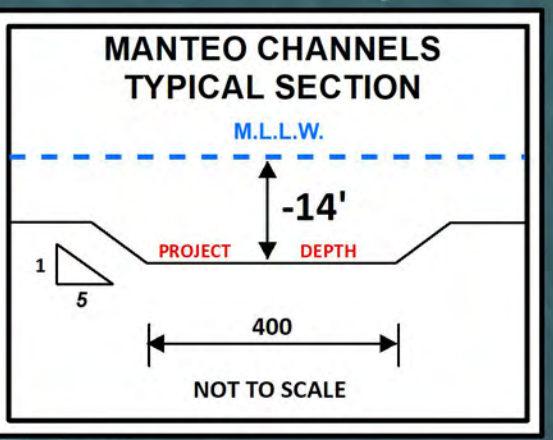
HYDROGRAPHIC SURVEY

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

MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA



Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-11-25	3031070	763110	75° 31' 20.384" W	35° 47' 48.628" N
OIE - WAYPOINT 2	2019-12-04	3030245	761944	75° 31' 30.887" W	35° 47' 38.391" N
OIE - WAYPOINT 3	2019-11-25	3029603	759842	75° 31' 37.834" W	35° 47' 17.496" N
OIE - WAYPOINT 4	2019-11-25	3029252	755363	75° 31' 45.729" W	35° 46' 33.682" N

1:3,000

0 100 200 400 600 800 1,000 Feet

Aids to Navigation

Can

Nun

Green Lighted Buoy

Red Lighted Buoy

Junction Marker

Green Light

Red Light

Green Daybeacon

Red Daybeacon

Danger Sign

Milebeard

Tide Gage

Depth In Feet

4 and Shallow

6 - 4

7 - 6

8 - 7

10 - 8

12 - 10

14 - 12

15 - 14

15 and Deeper

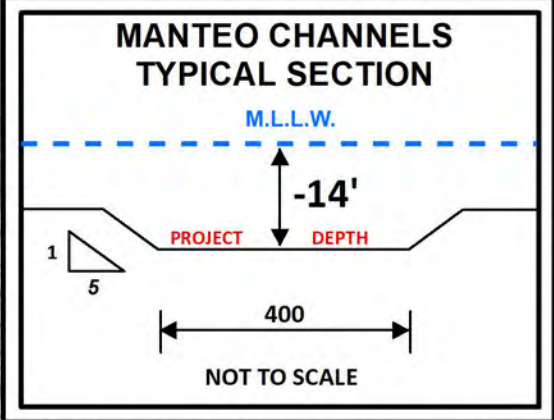
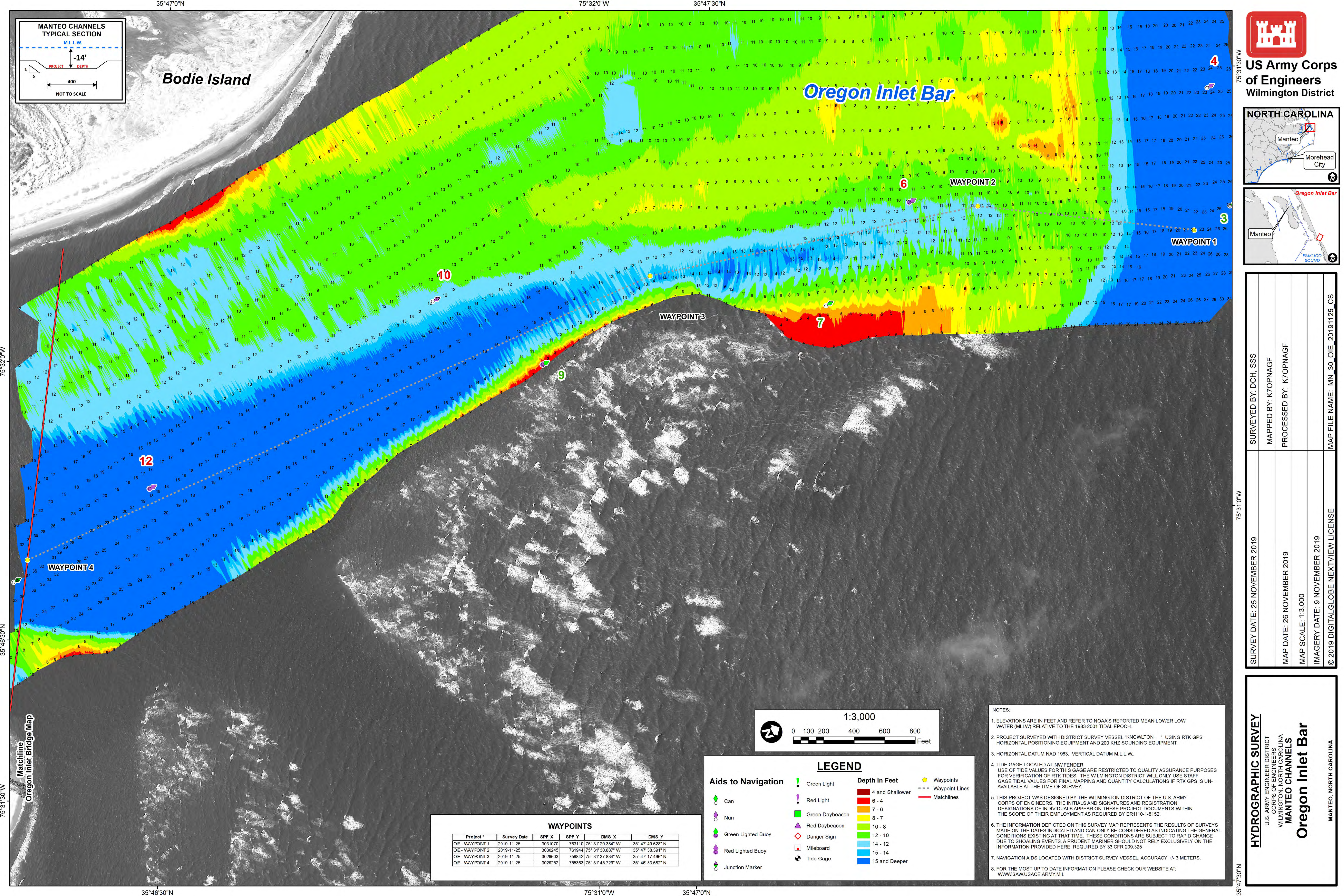
Waypoints

Waypoint Lines

Matchlines

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.
- TIDE GAGE LOCATED AT NW FENDER. 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.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
- 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

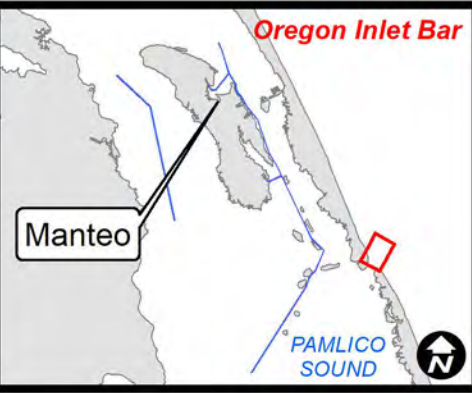


Bodie Island

Oregon Inlet Bar



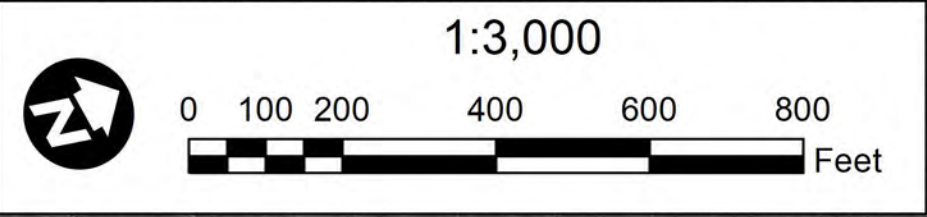
US Army Corps
of Engineers
Wilmington District



SURVEYED BY: DCH, SSS	MAP FILE NAME: MN_30_OIE_20191125_CS
MAPPED BY: KTOPNAGF	
PROCESSED BY: KTOPNAGF	
MAP DATE: 26 NOVEMBER 2019	
MAP SCALE: 1:3,000	
IMAGERY DATE: 9 NOVEMBER 2019	
© 2019 DIGITAL GLOBE NEXTVIEW LICENSE	

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	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-11-25	3031070	763110	75° 31' 20.384" W	35° 47' 49.628" N
OIE - WAYPOINT 2	2019-11-25	3030245	761944	75° 31' 30.887" W	35° 47' 38.391" N
OIE - WAYPOINT 3	2019-11-25	3029603	759842	75° 31' 37.834" W	35° 47' 17.496" N
OIE - WAYPOINT 4	2019-11-25	3029252	755363	75° 31' 45.728" W	35° 46' 33.682" N



Aids to Navigation

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

Depth In Feet

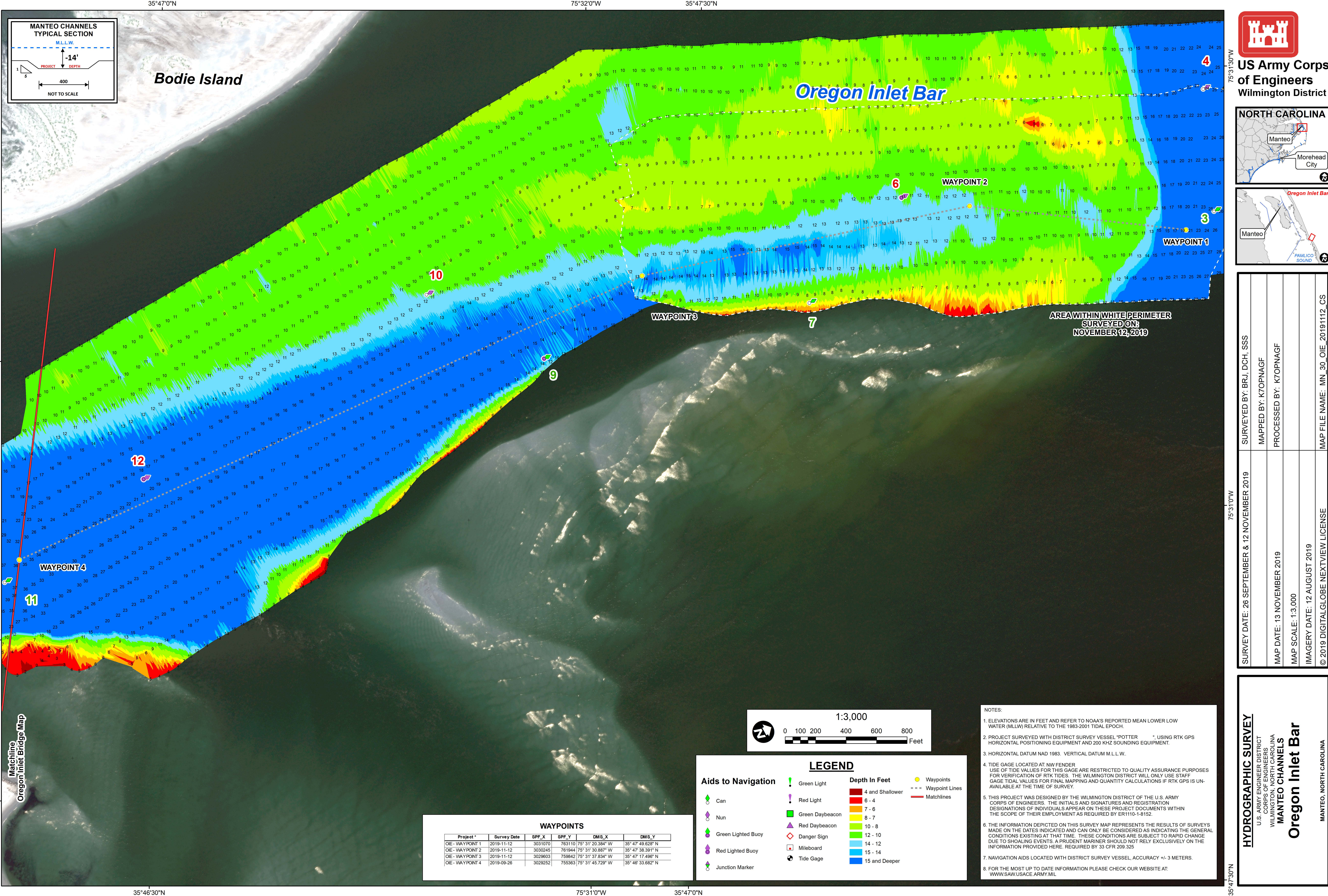
- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper

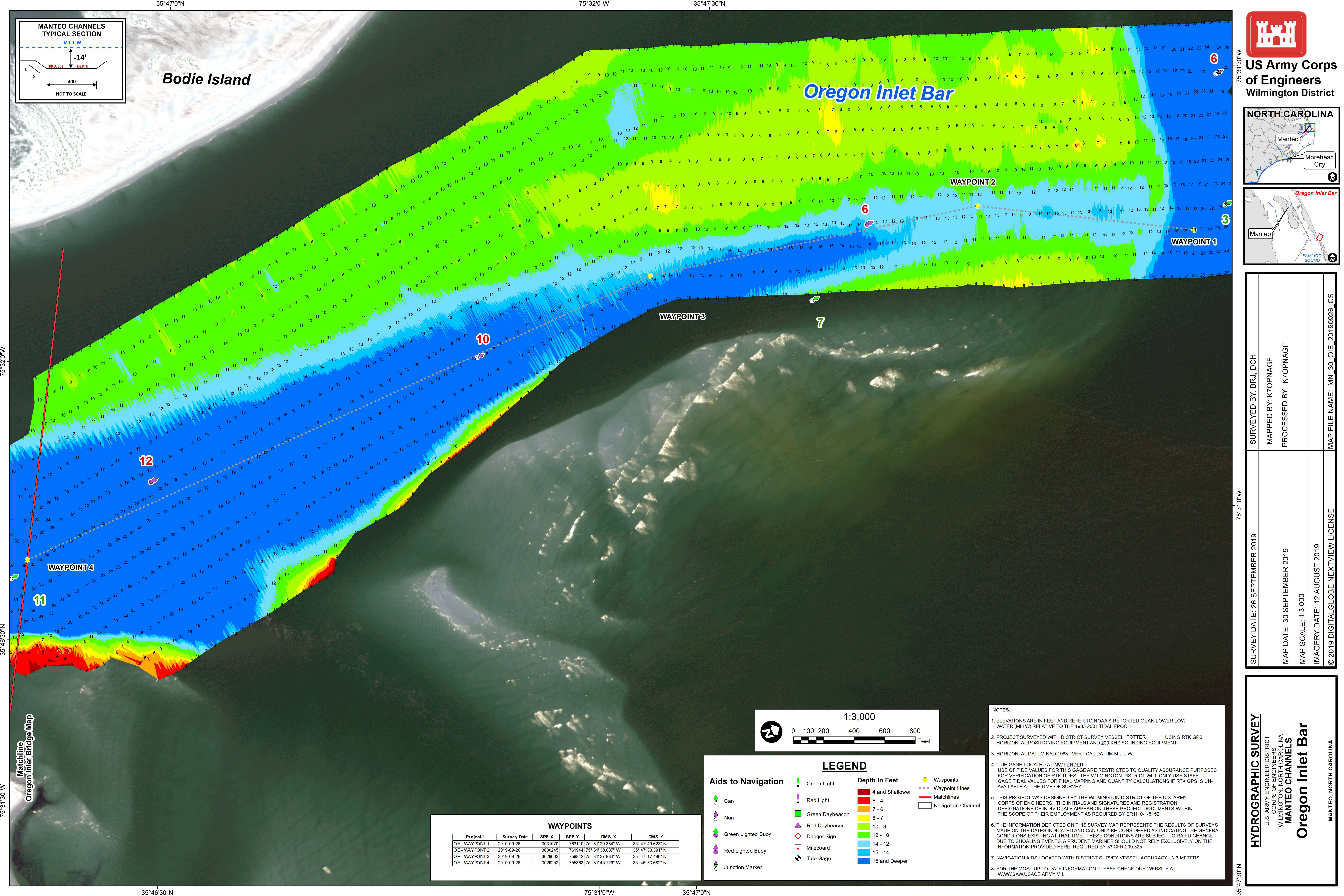
Waypoints

- Waypoints
- Waypoint Lines
- Matchlines

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.
- TIDE GAGE LOCATED AT NW FENDER. 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.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325.
- 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





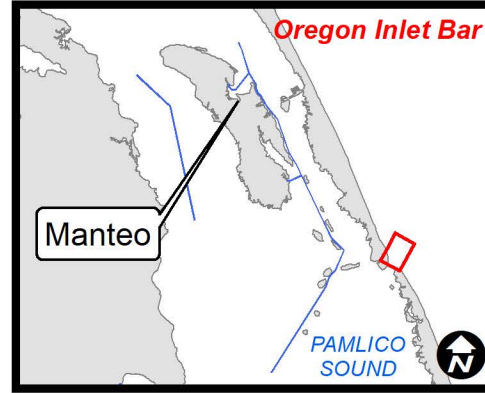


**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



Manteo
Morehead City



Manteo
PAMLICO SOUND

SURVEYED BY: BRJ, DCH	
MAPPED BY: KTOPNAGF	
PROCESSED BY: KTOPNAGF	
MAP DATE: 30 SEPTEMBER 2019	
MAP SCALE: 1:3,000	
IMAGERY DATE: 12 AUGUST 2019	
© 2019 DIGITALGLOBE NEXTVIEW LICENSE	
MAP FILE NAME: MN_30_OIE_20190926_CS	

HYDROGRAPHIC SURVEY

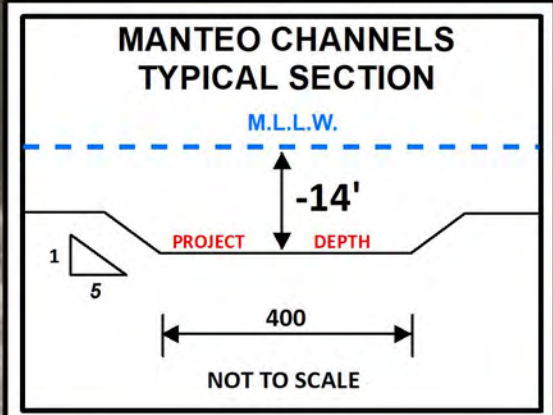
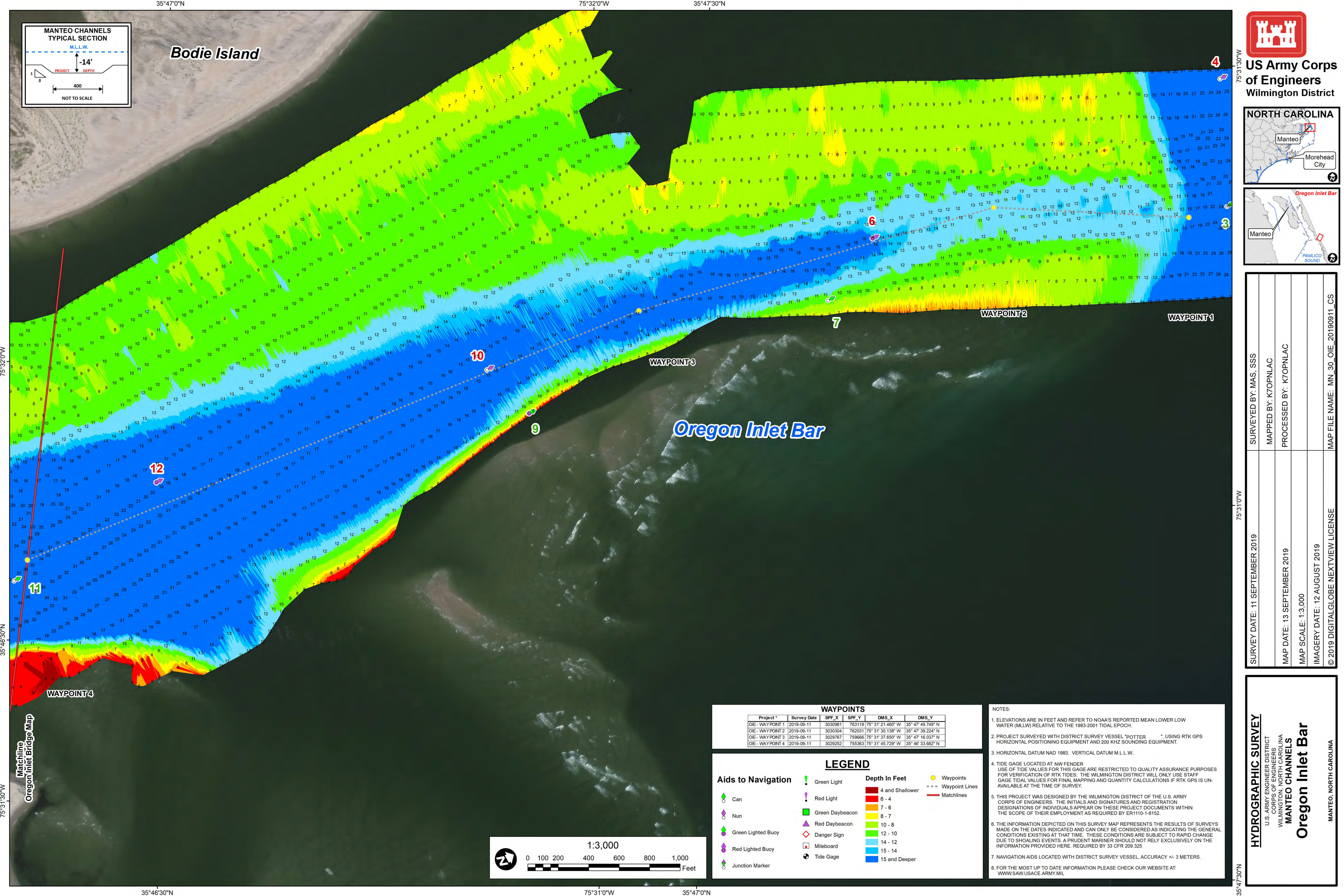
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA

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 "POTTER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
- TIDE GAGE LOCATED AT: NW FENDER. 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.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325.
- 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



**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA

Manteo
Morehead City

Oregon Inlet Bar

Manteo
PAMLICO SOUND

SURVEYED BY: MAS, SSS	MAPPED BY: KTOPNLAC	PROCESSED BY: KTOPNLAC	MAP FILE NAME: MN_30_OIE_20190911_CS
SURVEY DATE: 11 SEPTEMBER 2019	MAP DATE: 13 SEPTEMBER 2019	MAP SCALE: 1:3,000	IMAGERY DATE: 12 AUGUST 2019
© 2019 DIGITAL GLOBE NEXTVIEW LICENSE			

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	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-09-11	3030981	763119	75° 31' 21.460" W	35° 47' 49.749" N
OIE - WAYPOINT 2	2019-09-11	3030304	762031	75° 31' 30.138" W	35° 47' 39.224" N
OIE - WAYPOINT 3	2019-09-11	3029767	759666	75° 31' 37.650" W	35° 47' 16.037" N
OIE - WAYPOINT 4	2019-09-11	3028252	755363	75° 31' 45.729" W	35° 46' 33.682" N

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker

Legend

- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard
- Tide Gage

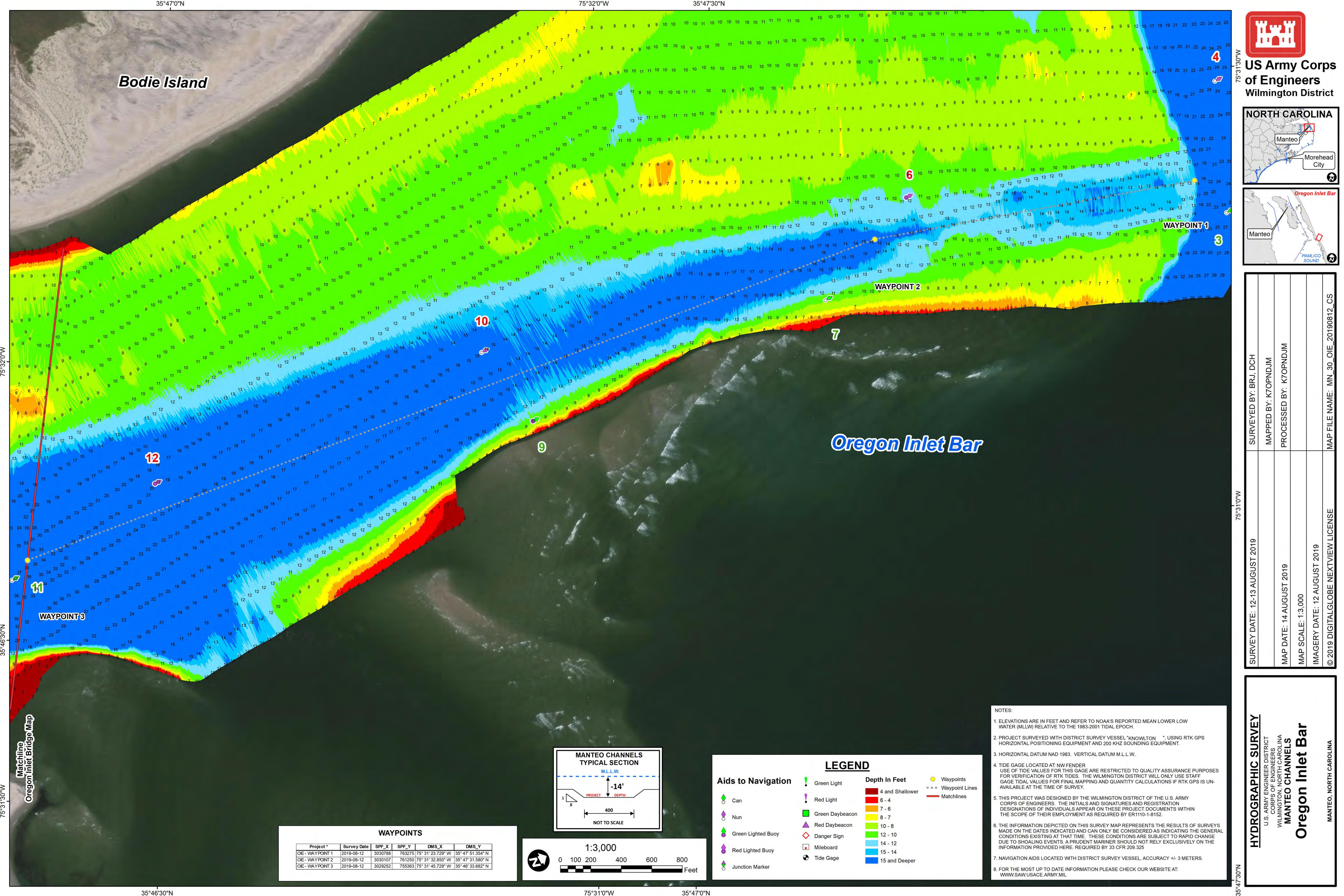
Depth In Feet

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

Waypoints

- Waypoint Lines
- Matchlines

- 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 "POTTER" * USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
 - HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
 - TIDE GAGE LOCATED AT NW FENDER. 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.
 - THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-6152.
 - THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
 - 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





**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



Manteo
Morehead City



Oregon Inlet Bar
Manteo
PAMLICO SOUND

	SURVEYED BY: BRJ, DCH
	MAPPED BY: KTOPNDJM
	PROCESSED BY: KTOPNDJM
	MAP FILE NAME: MN_30_OIE_20190812_CS

SURVEY DATE: 12-13 AUGUST 2019
MAP DATE: 14 AUGUST 2019
MAP SCALE: 1:3,000
IMAGERY DATE: 12 AUGUST 2019
© 2019 DIGITALGLOBE NEXTVIEW LICENSE

HYDROGRAPHIC SURVEY

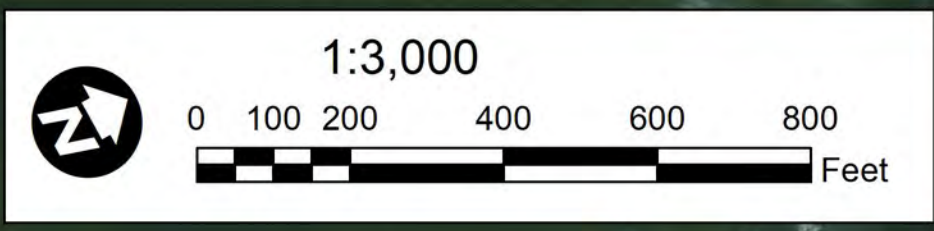
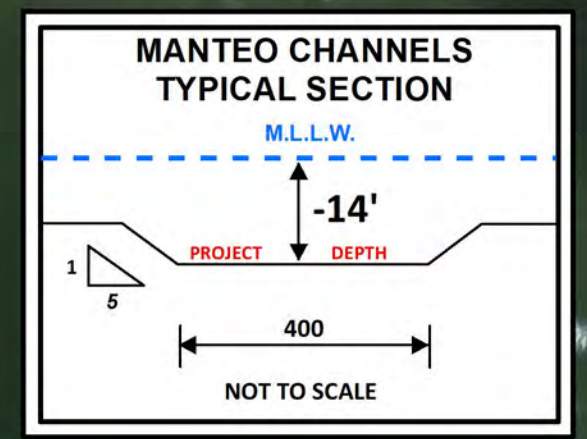
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA

WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-08-12	3030788	763275	75° 31' 23.729" W	35° 47' 51.354" N
OIE - WAYPOINT 2	2019-08-12	3030107	761250	75° 31' 32.850" W	35° 47' 31.580" N
OIE - WAYPOINT 3	2019-08-12	3029252	755363	75° 31' 45.729" W	35° 46' 33.682" N



Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker

LEGEND

- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard
- Tide Gage

Depth In Feet

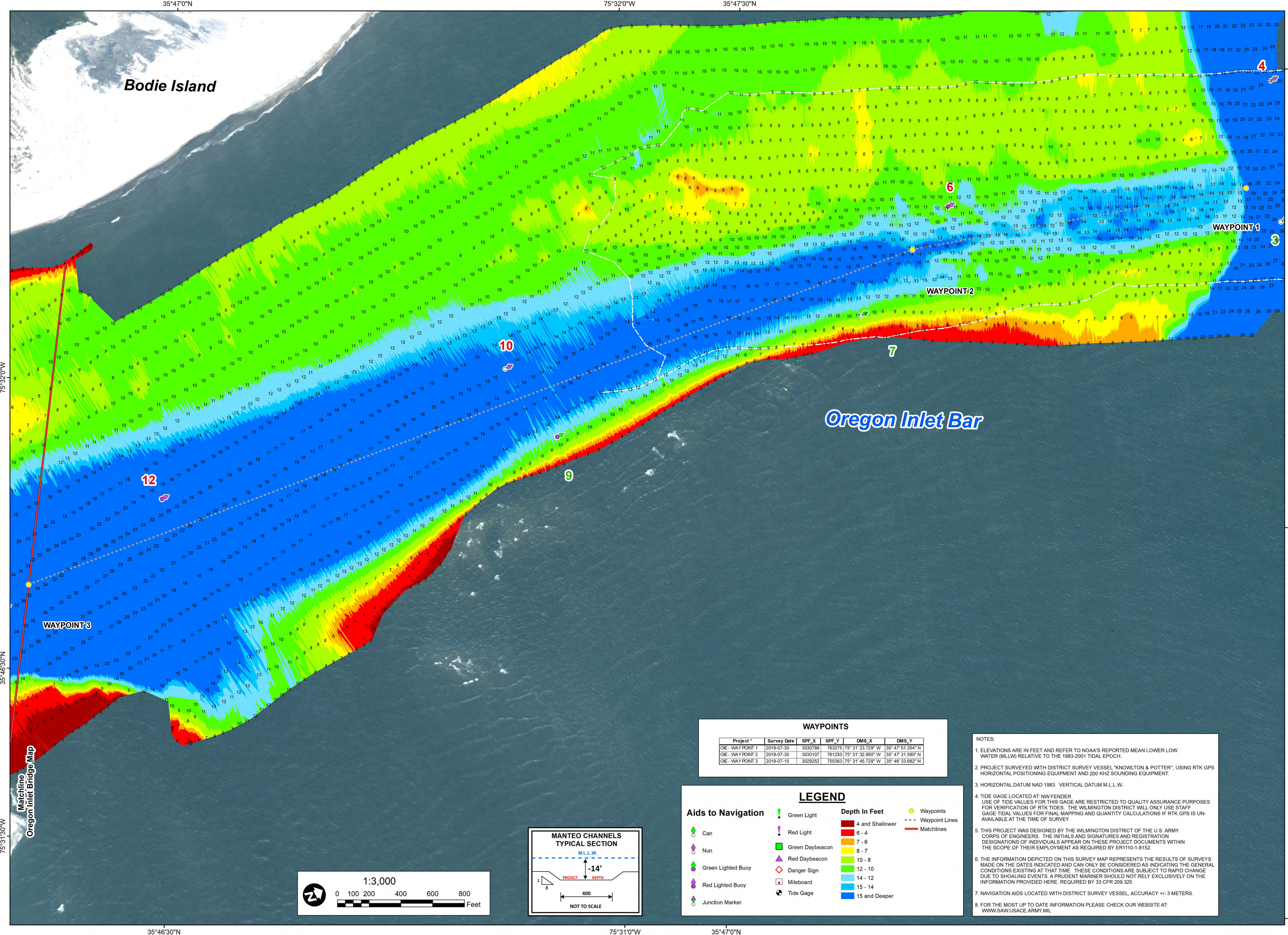
- 4 and Shallower
- 6 - 4
- 7 - 6
- 8 - 7
- 10 - 8
- 12 - 10
- 14 - 12
- 15 - 14
- 15 and Deeper

Waypoints

- Waypoint Lines
- Matchlines

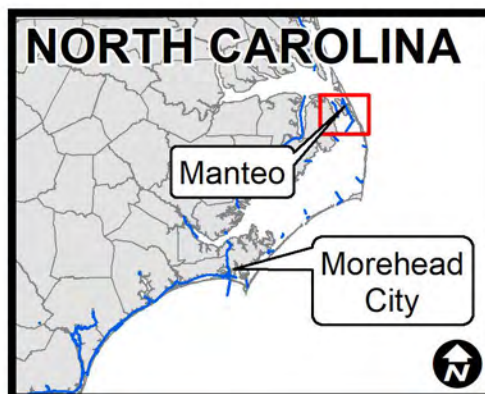
NOTES:

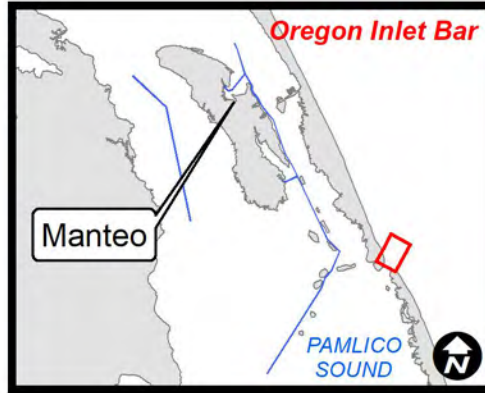
- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "KNOWLTON", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
- TIDE GAGE LOCATED AT NW FENDER. 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.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL. ACCURACY +/- 3 METERS.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAV.USACE.ARMY.MIL





**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA



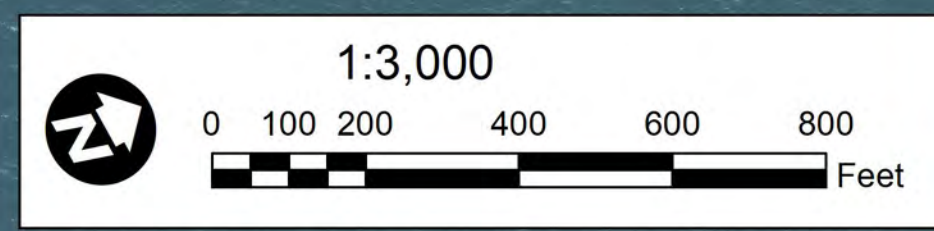
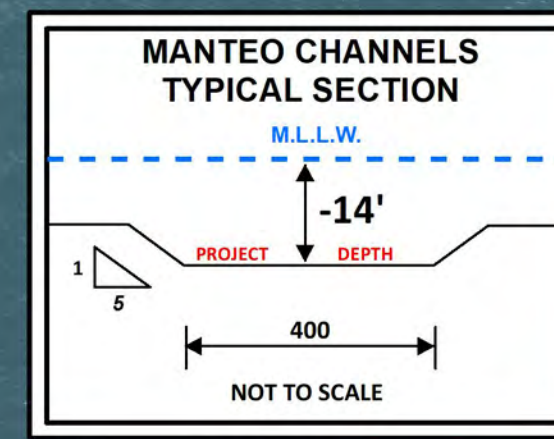
SURVEYED BY: DCH, BRJ, SSS	SURVEY DATE: 15 & 30 JULY 2019
MAPPED BY: KTOPNDJM	MAP DATE: 01 AUGUST 2019
PROCESSED BY: KTOPNDJM	MAP SCALE: 1:3,000
	IMAGERY DATE: 24 MAY 2019
© 2019 DIGITALGLOBE NEXTVIEW LICENSE	
MAP FILE NAME: MN_30_OIE_20190730_CS	

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	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-07-30	3030788	763275	75° 31' 23.729" W	35° 47' 51.354" N
OIE - WAYPOINT 2	2019-07-30	3030107	761250	75° 31' 32.850" W	35° 47' 31.580" N
OIE - WAYPOINT 3	2019-07-15	3029252	755363	75° 31' 45.729" W	35° 46' 33.682" 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 & POTTER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
 - HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
 - TIDE GAGE LOCATED AT: NW FENDER. 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.
 - THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-6152.
 - THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
 - 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





Aids to Navigation


 Can


 Nun


 Green Lighted Buoy


 Red Lighted Buoy


 Junction Marker


 Green Light


 Red Light

 Green Daybeacon


 Red Daybeacon


 Danger Sign


 Mileboard


 Tide Gage


Depth In Feet


 4 and Shallower


 6 - 4

 7 - 6

 8 - 7


 10 - 8


 12 - 10


 14 - 12

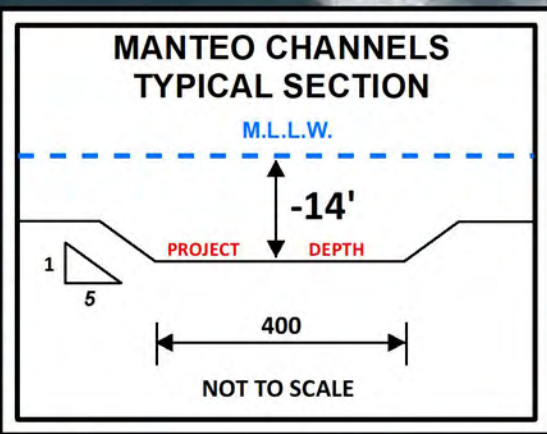
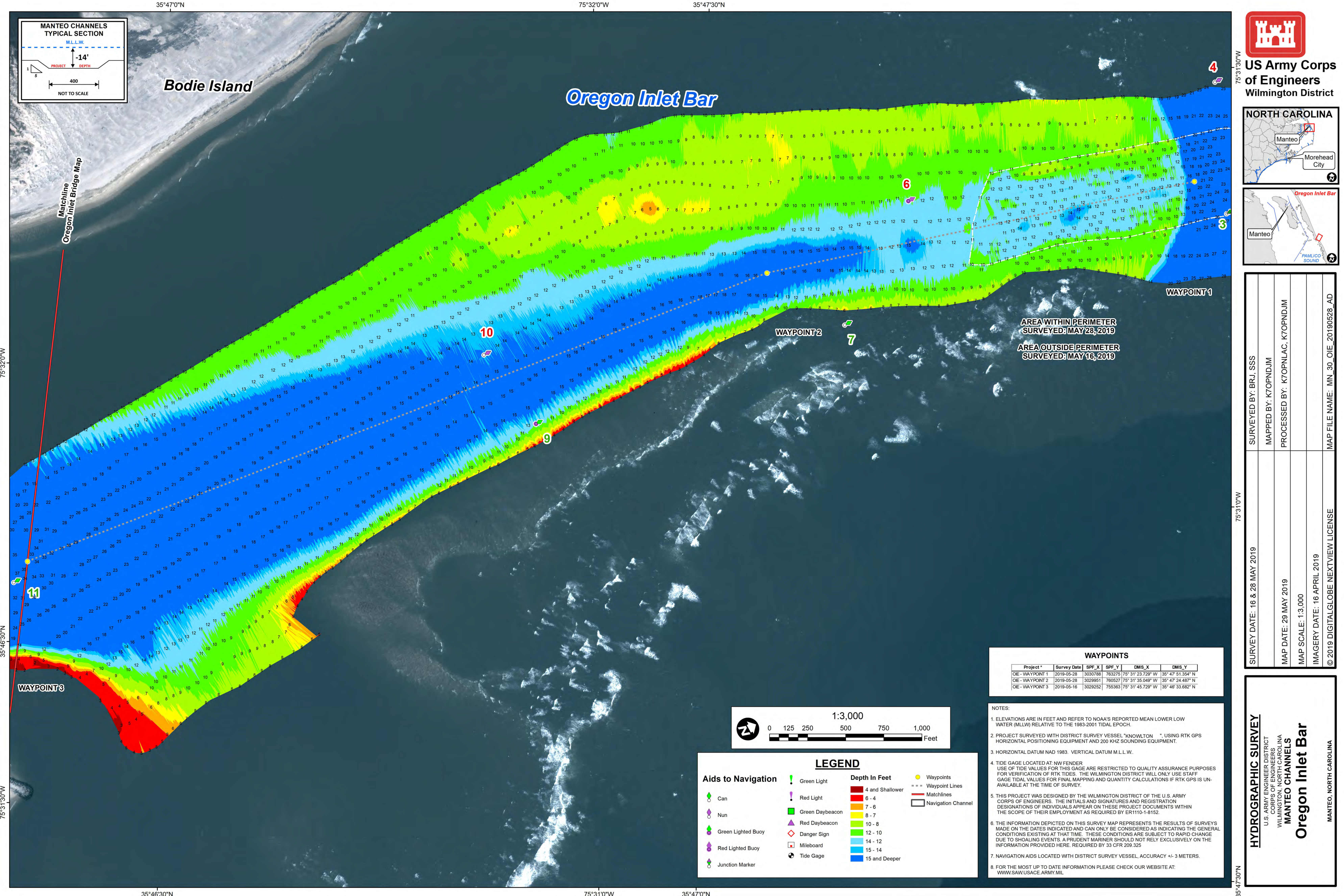
 15 - 14

 15 and Deeper

 Waypoints

 Waypoint Lines

 Matchlines



**US Army Corps
of Engineers**
Wilmington District

NORTH CAROLINA

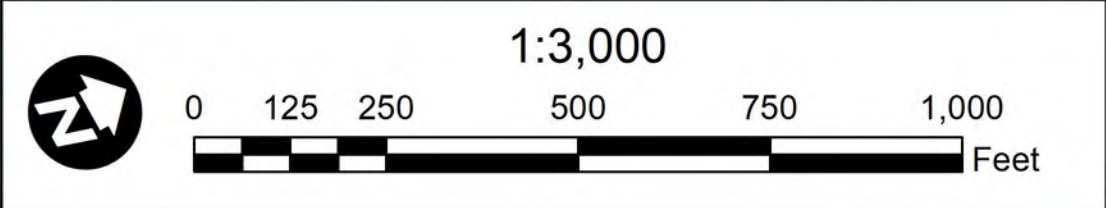
Manteo
Morehead City

Oregon Inlet Bar
Manteo
PAMLIKO SOUND

SURVEYED BY: BRJ, SSS	
MAPPED BY: KTOPNDJM	
PROCESSED BY: KTOPNLAC, KTOPNDJM	
MAP DATE: 29 MAY 2019	
MAP SCALE: 1:3,000	
IMAGERY DATE: 16 APRIL 2019	
© 2019 DIGITALGLOBE NEXTVIEW LICENSE	
MAP FILE NAME: MN_30_OIE_20190528_AD	

WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-05-28	3030788	763275	75° 31' 23.729" W	35° 47' 51.354" N
OIE - WAYPOINT 2	2019-05-28	3029951	760527	75° 31' 35.049" W	35° 47' 24.487" N
OIE - WAYPOINT 3	2019-05-16	3029252	756363	75° 31' 45.729" W	35° 46' 33.682" 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.
 - TIDE GAGE LOCATED AT: NW FENDER. 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 TIDE VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
 - THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY 33 CFR 209.325.
 - THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325.
 - 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



LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker

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
- Navigation Channel

Other Symbols

- Green Light
- Red Light
- Green Daybeacon
- Red Daybeacon
- Danger Sign
- Mileboard
- Tide Gage

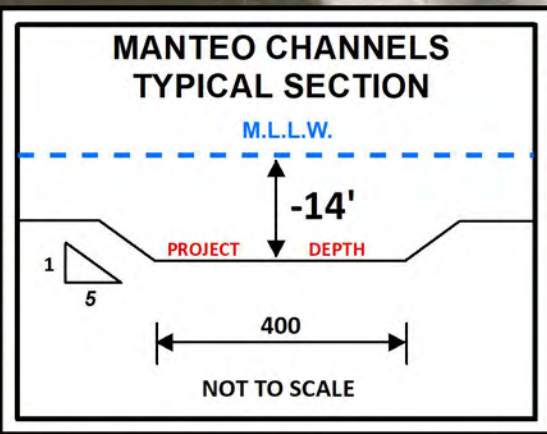
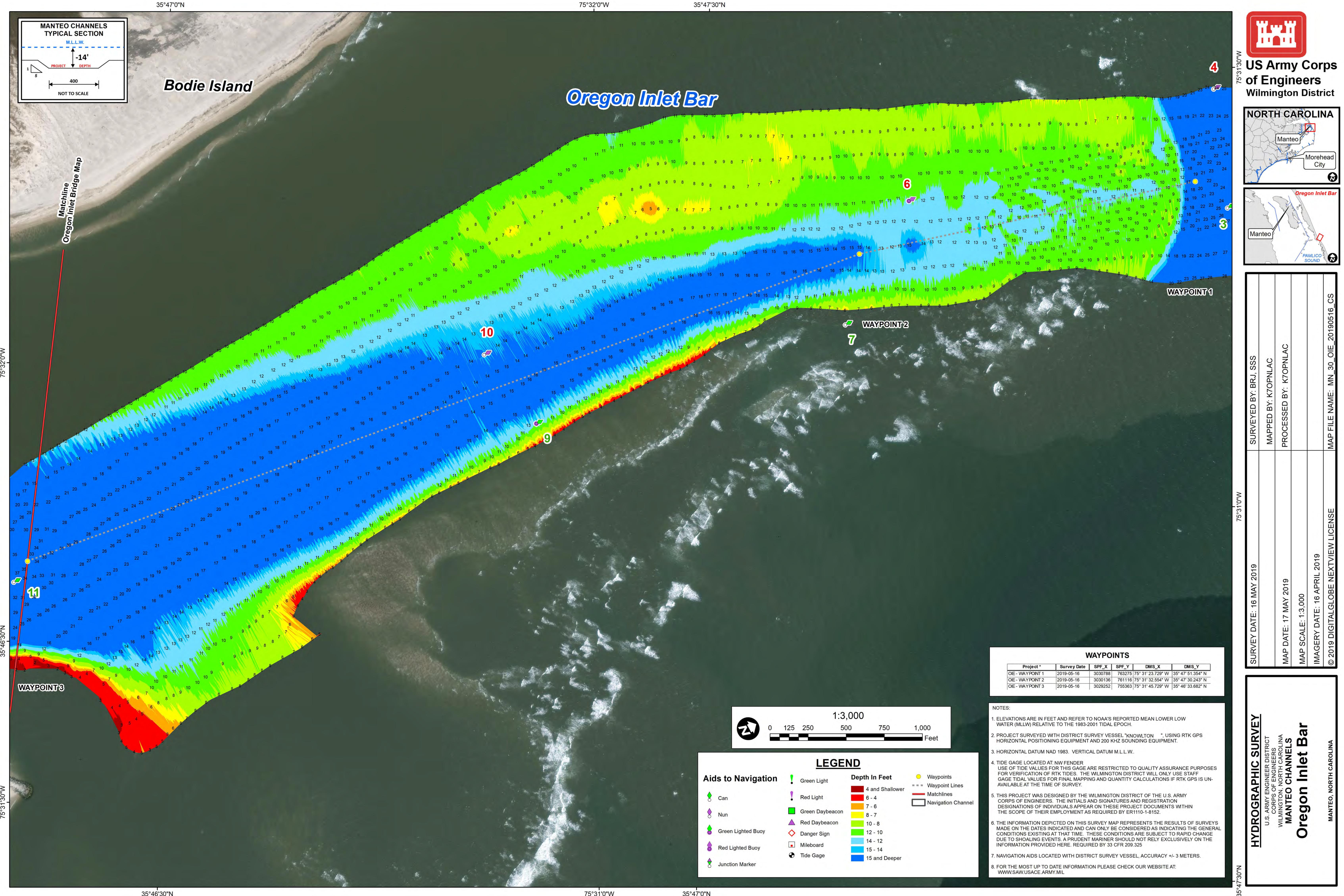
HYDROGRAPHIC SURVEY

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

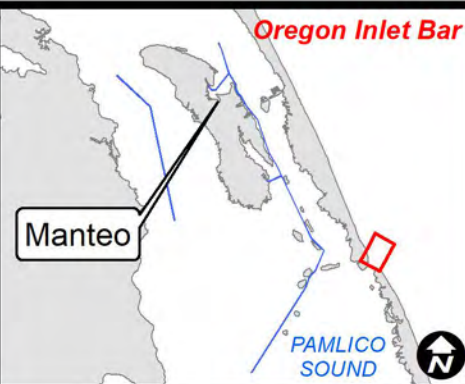
MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA



US Army Corps
of Engineers
Wilmington District



SURVEYED BY: BRJ, SSS	
MAPPED BY: KTOPNLAC	
PROCESSED BY: KTOPNLAC	
MAP DATE: 17 MAY 2019	
MAP SCALE: 1:3,000	
IMAGERY DATE: 16 APRIL 2019	
© 2019 DIGITAL GLOBE NEXTVIEW LICENSE	
MAP FILE NAME: MN_30_OIE_20190516_CS	

WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-05-16	3030788	763275	75° 31' 23.729" W	35° 47' 51.354" N
OIE - WAYPOINT 2	2019-05-16	3030136	761116	75° 31' 32.554" W	35° 47' 30.243" N
OIE - WAYPOINT 3	2019-05-16	3029252	755363	75° 31' 45.729" W	35° 46' 33.682" 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.
 - TIDE GAGE LOCATED AT NW FENDER. 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 TIDE VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
 - THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY 33 CFR 209.325.
 - THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325.
 - 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

LEGEND

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Marker

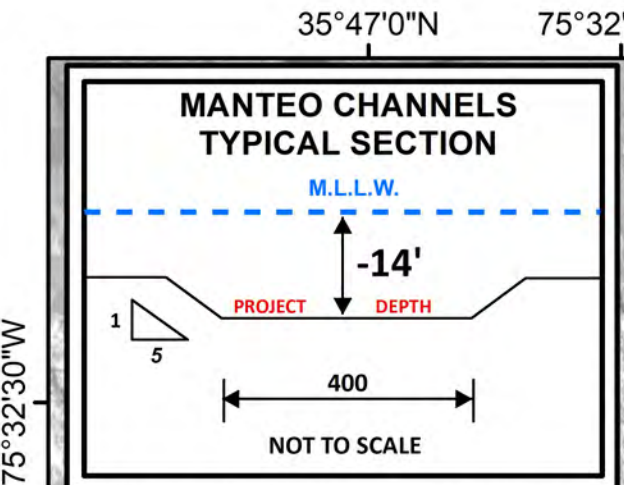
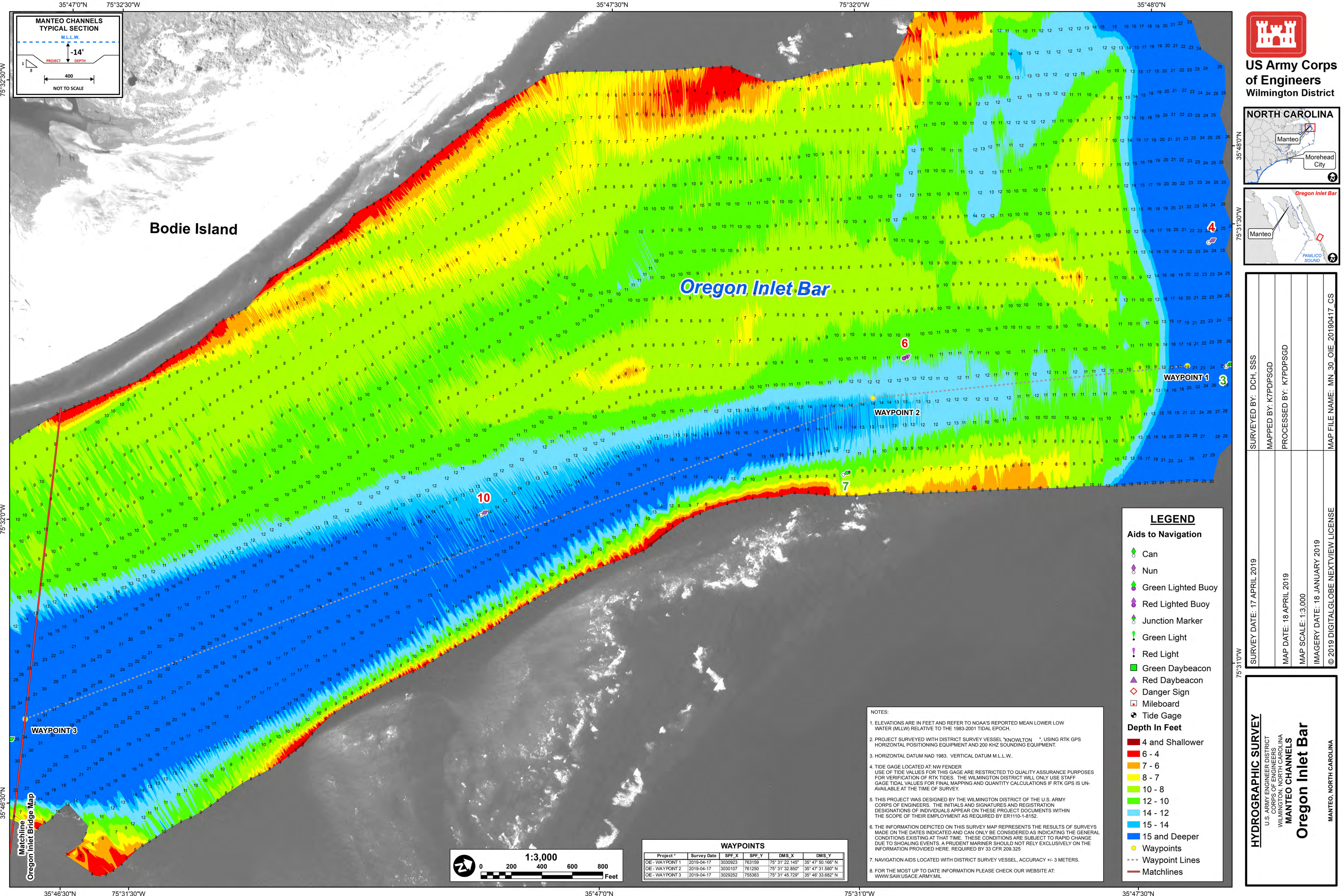
Depth In Feet

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

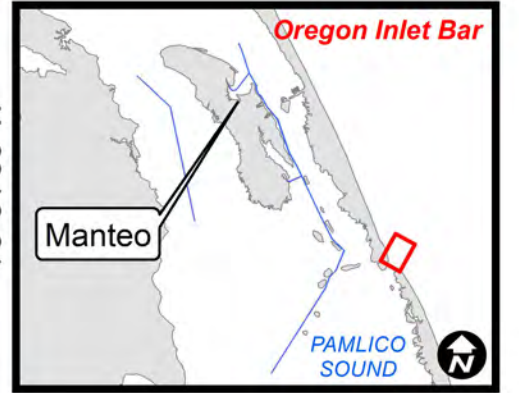
Waypoints

- Waypoint Lines
- Matchlines
- Navigation Channel

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



SURVEYED BY: DCH, SSS	MAP DATE: 18 APRIL 2019	IMAGERY DATE: 18 JANUARY 2019	MAP FILE NAME: MN_30_OIE_20190417_CS
MAPPED BY: K7DPDPSGD	MAP SCALE: 1:3,000		
PROCESSED BY: K7DPDPSGD			

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
- Tide Gage

Depth In Feet

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

Waypoints
Waypoint Lines
Matchlines

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.

2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "KNOWLTON", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.

3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.

4. TIDE GAGE LOCATED AT: NW FENDER
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.

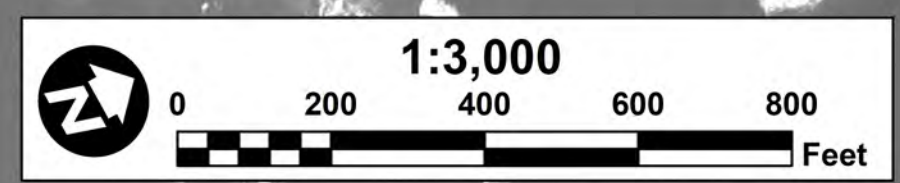
5. THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.

6. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325

7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.

8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

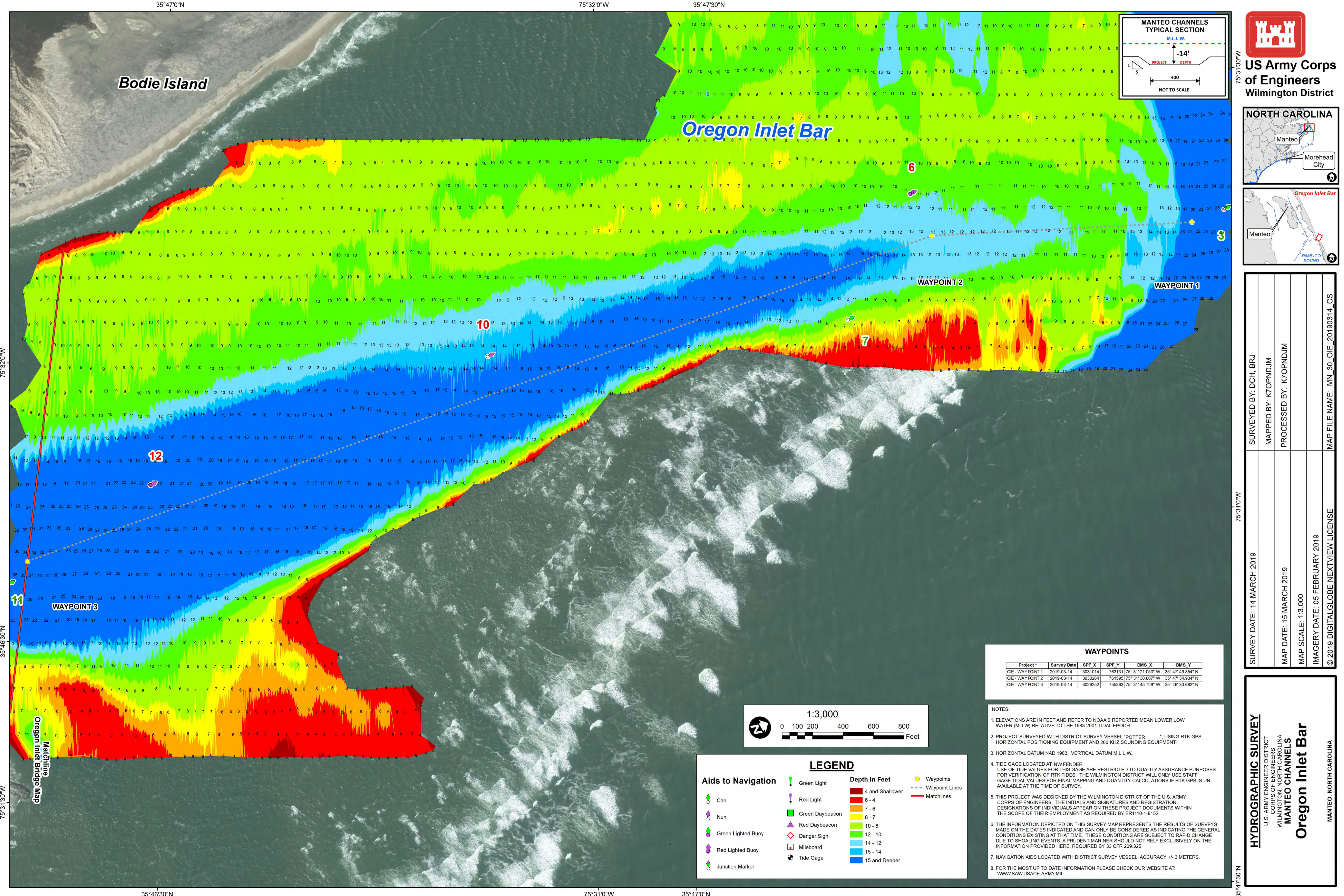
WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
OE - WAYPOINT 1	2019-04-17	3030923	763159	75° 31' 22.145" W	35° 47' 50.168" N
OE - WAYPOINT 2	2019-04-17	3030107	761250	75° 31' 32.850" W	35° 47' 31.580" N
OE - WAYPOINT 3	2019-04-17	3029252	755363	75° 31' 45.729" W	35° 48' 33.682" N



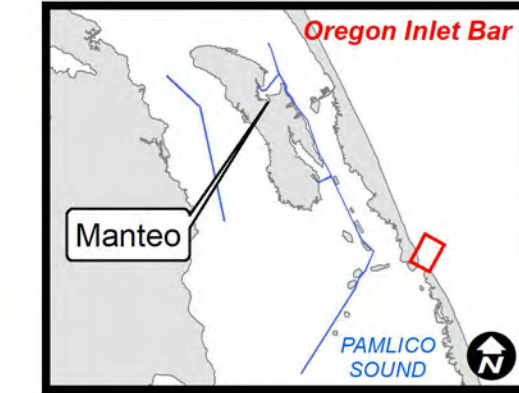
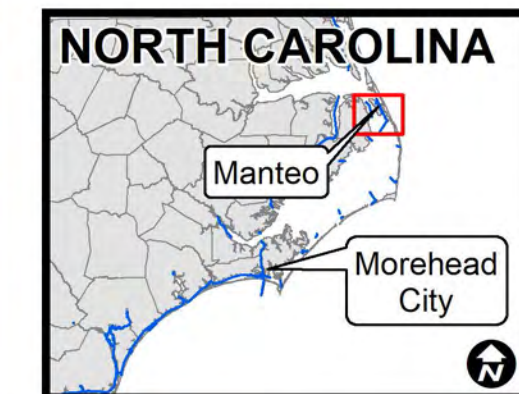
HYDROGRAPHIC SURVEY

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



SURVEY DATE: 14 MARCH 2019	SURVEYED BY: DCH, BRJ
MAP DATE: 15 MARCH 2019	MAPPED BY: KTOPNDJM
MAP SCALE: 1:3,000	PROCESSED BY: KTOPNDJM
IMAGERY DATE: 05 FEBRUARY 2019	
© 2019 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20190314_CS

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	SPF_X	SPF_Y	DMS_X	DMS_Y
OIE - WAYPOINT 1	2019-03-14	3031014	763131	75° 31' 21.053" W	35° 47' 49.854" N
OIE - WAYPOINT 2	2019-03-14	3030264	761595	75° 31' 30.807" W	35° 47' 34.934" N
OIE - WAYPOINT 3	2019-03-14	3029252	755363	75° 31' 45.729" W	35° 46' 33.682" N

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.

2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "POTTER", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.

3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.

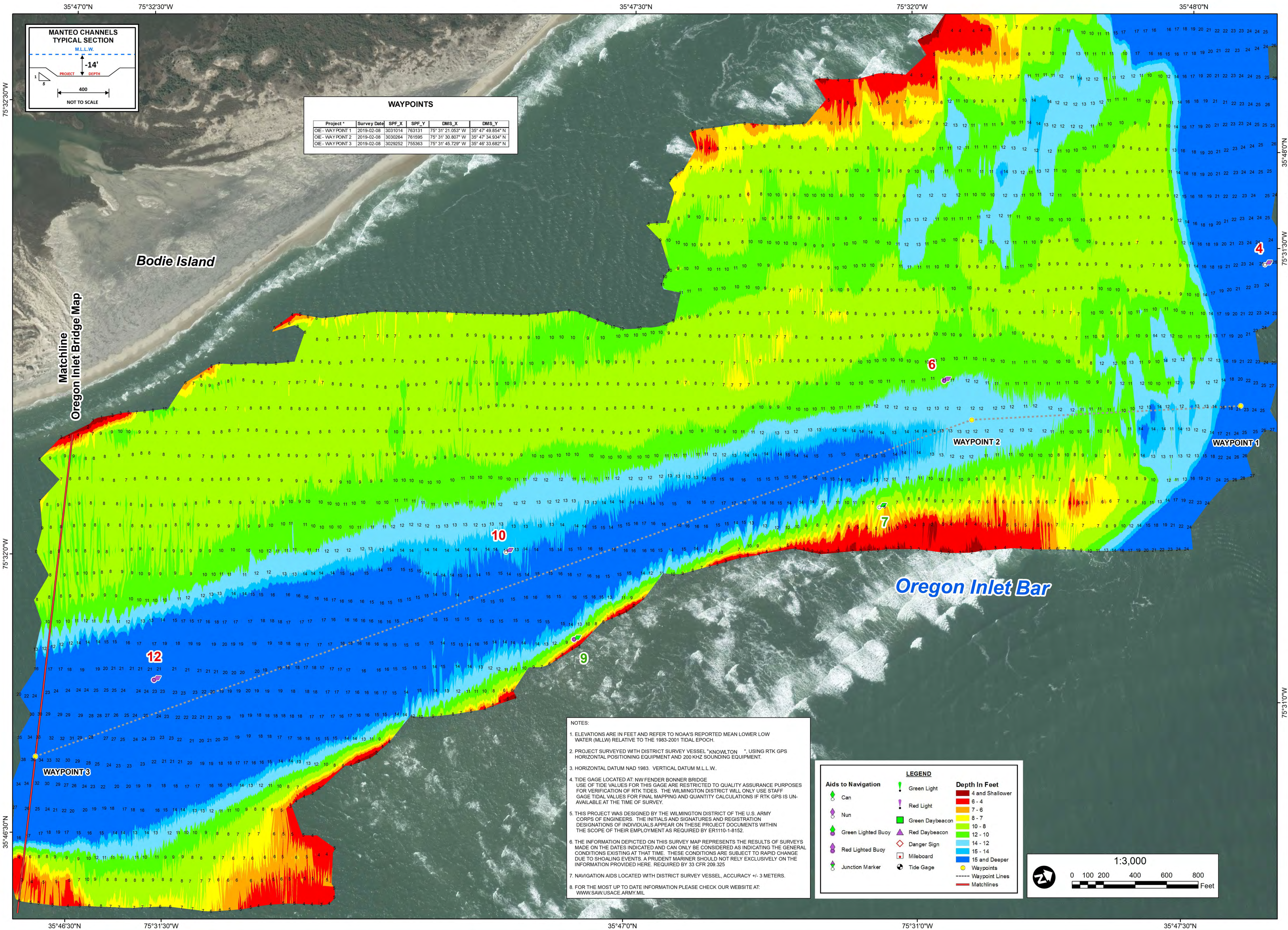
4. TIDE GAGE LOCATED AT: NW FENDER. USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDAL VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.

5. THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.

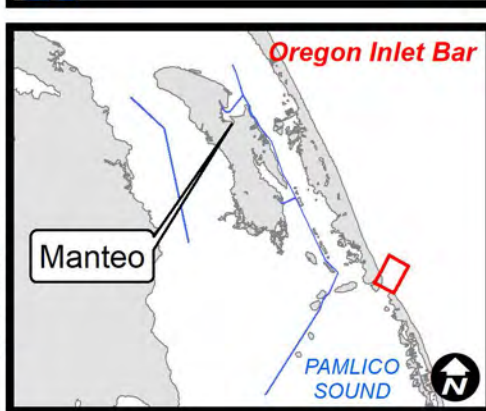
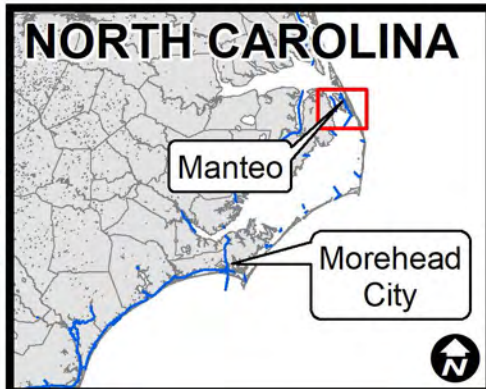
6. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325.

7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.

8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL



**US Army Corps
of Engineers**
Wilmington District



SURVEY DATE: 08 FEBRUARY 2019	SURVEYED BY: DCH, BRJ
MAP DATE: 12 FEBRUARY 2019	MAPPED: K7OPNSSS
MAP SCALE: 1:3,000	PROCESSED BY: K7OPNSSS
IMAGERY DATE: 05 FEBRUARY 2019	
© 2019 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20190208_CS.MXD

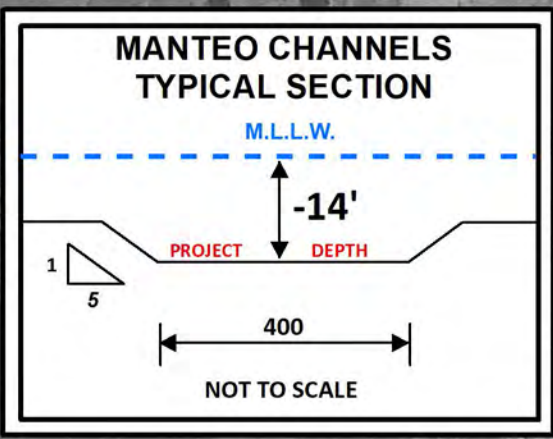
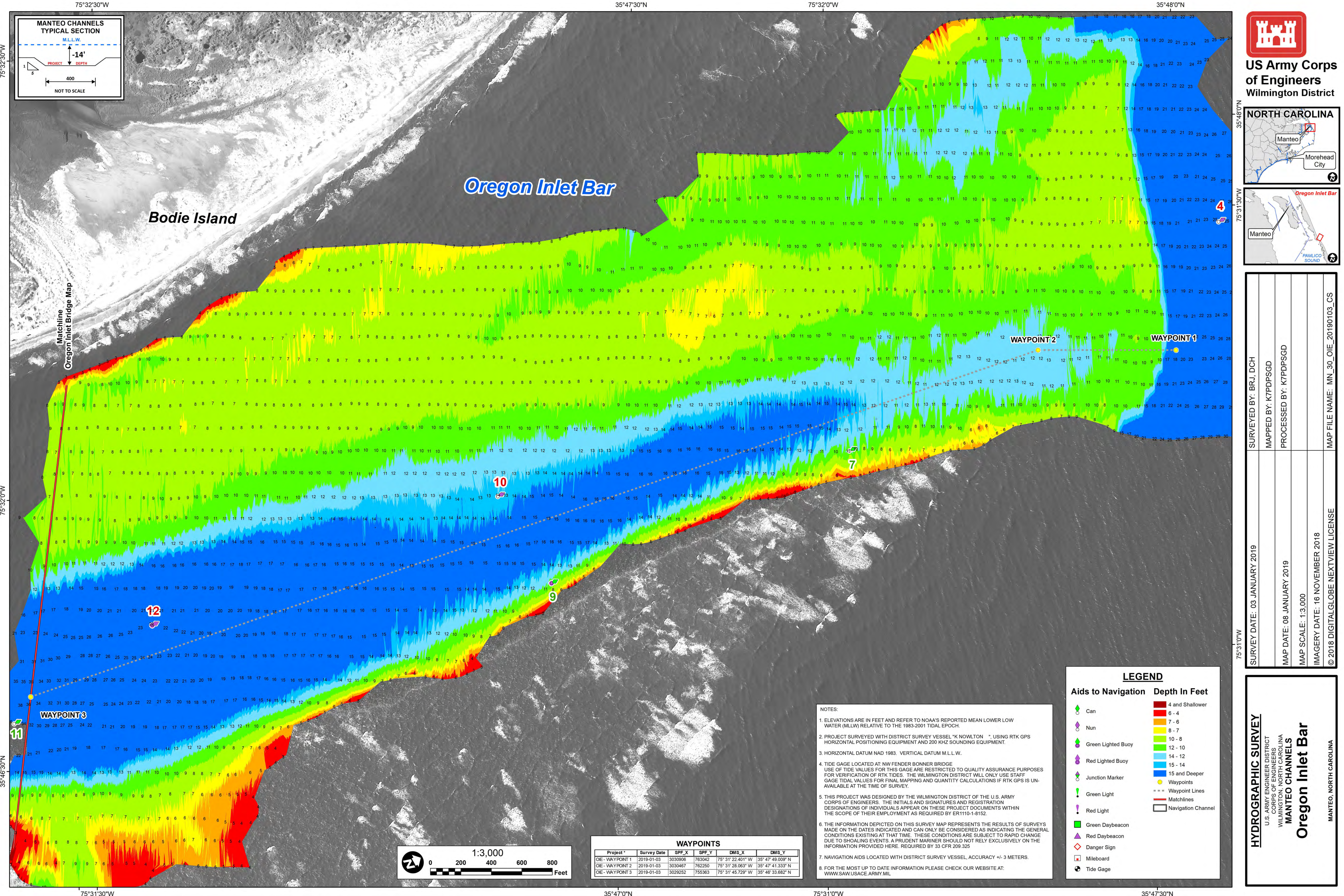
HYDROGRAPHIC SURVEY

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



Manteo
Morehead City



Manteo
PAMLICO SOUND

SURVEY DATE: 03 JANUARY 2019	SURVEYED BY: BRJ, DCH
MAP DATE: 08 JANUARY 2019	MAPPED BY: K7PDPSGD
MAP SCALE: 1:3,000	PROCESSED BY: K7PDPSGD
IMAGERY DATE: 16 NOVEMBER 2018	
© 2018 DIGITALGLOBE NEXTVIEW LICENSE	MAP FILE NAME: MN_30_OIE_20190103_CS

HYDROGRAPHIC SURVEY

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

MANTEO CHANNELS

Oregon Inlet Bar

MANTEO, NORTH CAROLINA

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 "K NOWLTON", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
- TIDE GAGE LOCATED AT NW FENDER BONNER BRIDGE. 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.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325.
- 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

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
- Tide Gage

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
- Navigation Channel

WAYPOINTS					
Project *	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
OE - WAYPOINT 1	2019-01-03	3030908	763042	75° 31' 22.401" W	35° 47' 49.009" N
OE - WAYPOINT 2	2019-01-03	3030467	762250	75° 31' 28.063" W	35° 47' 41.333" N
OE - WAYPOINT 3	2019-01-03	3029252	755363	75° 31' 45.729" W	35° 46' 33.682" N

