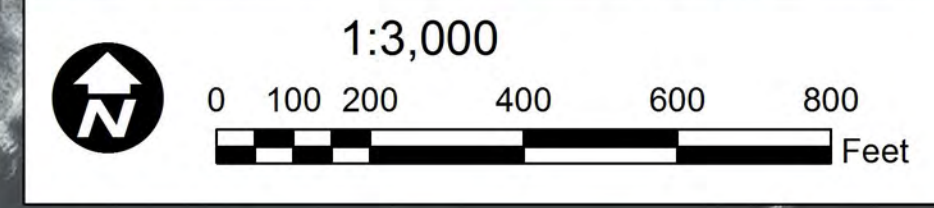


WAYPOINTS					
Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Topsail Banks - Waypoint 1	2016-10-18	2402877	218384	77° 39' 55.380" W	34° 20' 33.316" N
Topsail Banks - Waypoint 2	2016-10-18	2402571	218807	77° 39' 58.963" W	34° 20' 37.543" N
Topsail Banks - Waypoint 3	2016-10-18	2403038	219692	77° 39' 53.252" W	34° 20' 46.236" N
Topsail Banks - Waypoint 4	2016-10-18	2404742	220540	77° 39' 52.786" W	34° 20' 54.389" N
Topsail Inlet - Waypoint 1	2016-10-18	2408255	217148	77° 38' 51.444" W	34° 20' 20.374" N
Topsail Inlet - Waypoint 2	2016-10-18	2407879	217524	77° 38' 55.866" W	34° 20' 24.143" N
Topsail Inlet - Waypoint 3	2016-10-18	2405053	217213	77° 39' 29.618" W	34° 20' 21.445" N
Topsail Inlet - Waypoint 4	2016-10-18	2404421	217532	77° 39' 37.108" W	34° 20' 24.685" N
Topsail Inlet - Waypoint 5	2016-10-18	2403601	217614	77° 39' 46.866" W	34° 20' 25.605" N
Topsail Inlet - Waypoint 6	2016-10-18	2402877	218394	77° 39' 55.380" W	34° 20' 33.316" N
Topsail Inlet - Waypoint 7	2016-10-18	2402387	218341	77° 40' 1.232" W	34° 20' 32.955" N
Topsail Inlet - Waypoint 8	2016-10-18	2401918	217979	77° 40' 6.880" W	34° 20' 29.442" N
Topsail Inlet - Waypoint 9	2016-10-18	2401434	218058	77° 40' 12.638" W	34° 20' 30.289" N
Topsail Inlet - Waypoint 10	2016-10-18	2401331	218498	77° 40' 13.795" W	34° 20' 34.652" N
Topsail Inlet - Waypoint 11	2016-10-18	2401645	219818	77° 40' 9.834" W	34° 20' 47.663" N
Topsail Inlet - Waypoint 12	2016-10-18	2401803	220005	77° 40' 7.919" W	34° 20' 49.492" N
Topsail Inlet - Waypoint 13	2016-10-18	2402841	220663	77° 39' 57.827" W	34° 20' 55.886" 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 "BUTLER", 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 MILE BOARD 270. 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



LEGEND

Green Light	Red Light	Green Daybeacon	Red Daybeacon	Danger Sign	Mileboard	Tide Gage
Can	Nun	Green Lighted Buoy	Red Lighted Buoy	Junction Marker		
Green Light	Red Light	Green Daybeacon	Red Daybeacon	Danger Sign	Mileboard	Tide Gage
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
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Aids to Navigation

- Waypoints
- Waypoint Lines
- Matchlines

SURVEY DATE: 18-21 OCTOBER 2016	SURVEYED BY: LMT, SRV
MAP DATE: 25 OCTOBER 2016	MAPPED: K7OPNDJIM
MAP SCALE: 1:3,000	PROCESSED BY: K7OPNDJIM
IMAGERY DATE: 11 OCTOBER 2016	
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HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 WILMINGTON, NORTH CAROLINA

New Topsail Inlet
 TOPSAIL BEACH, NORTH CAROLINA