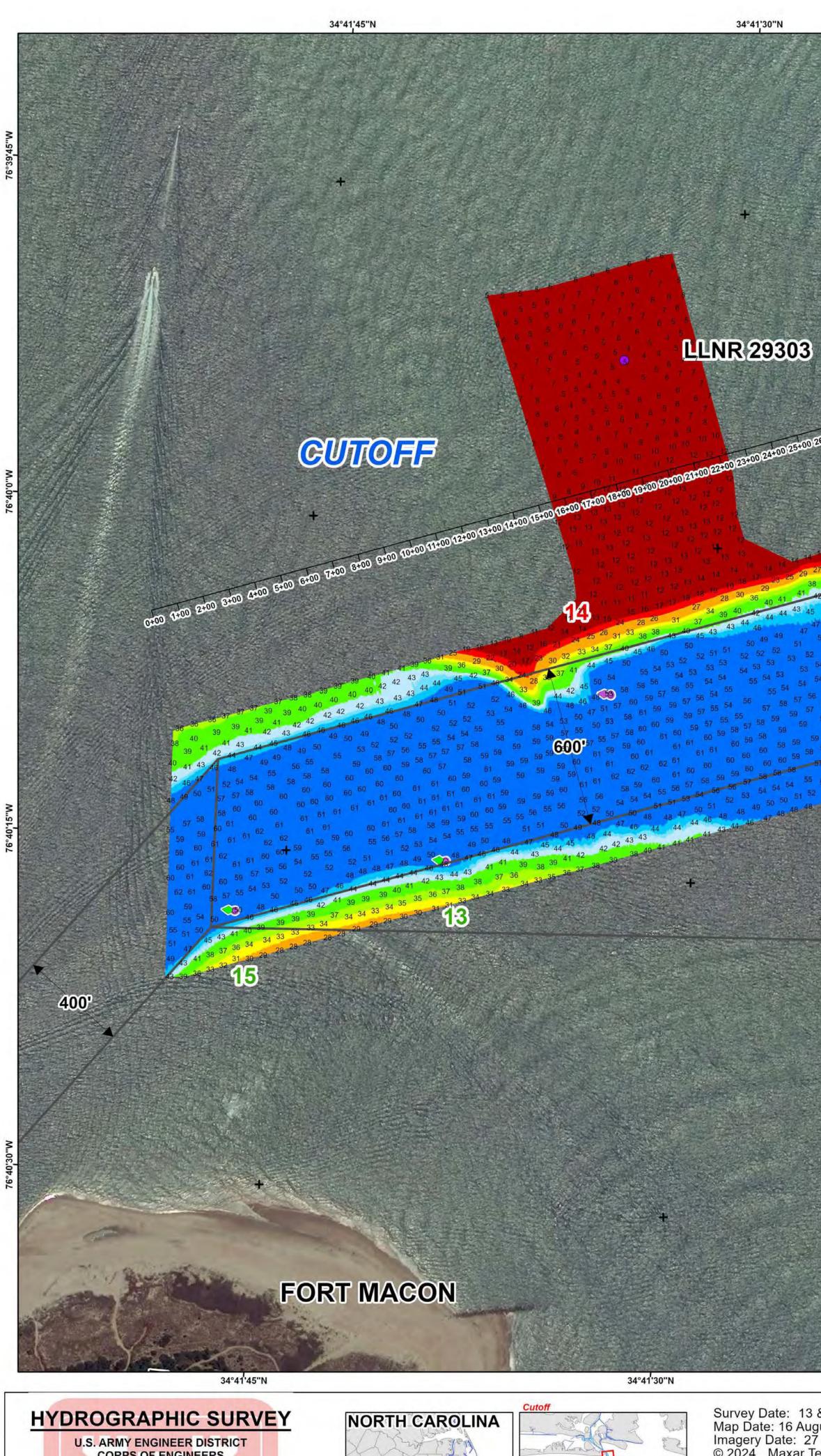


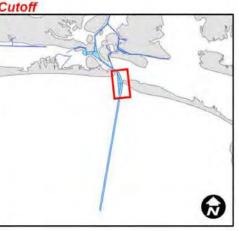


8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL









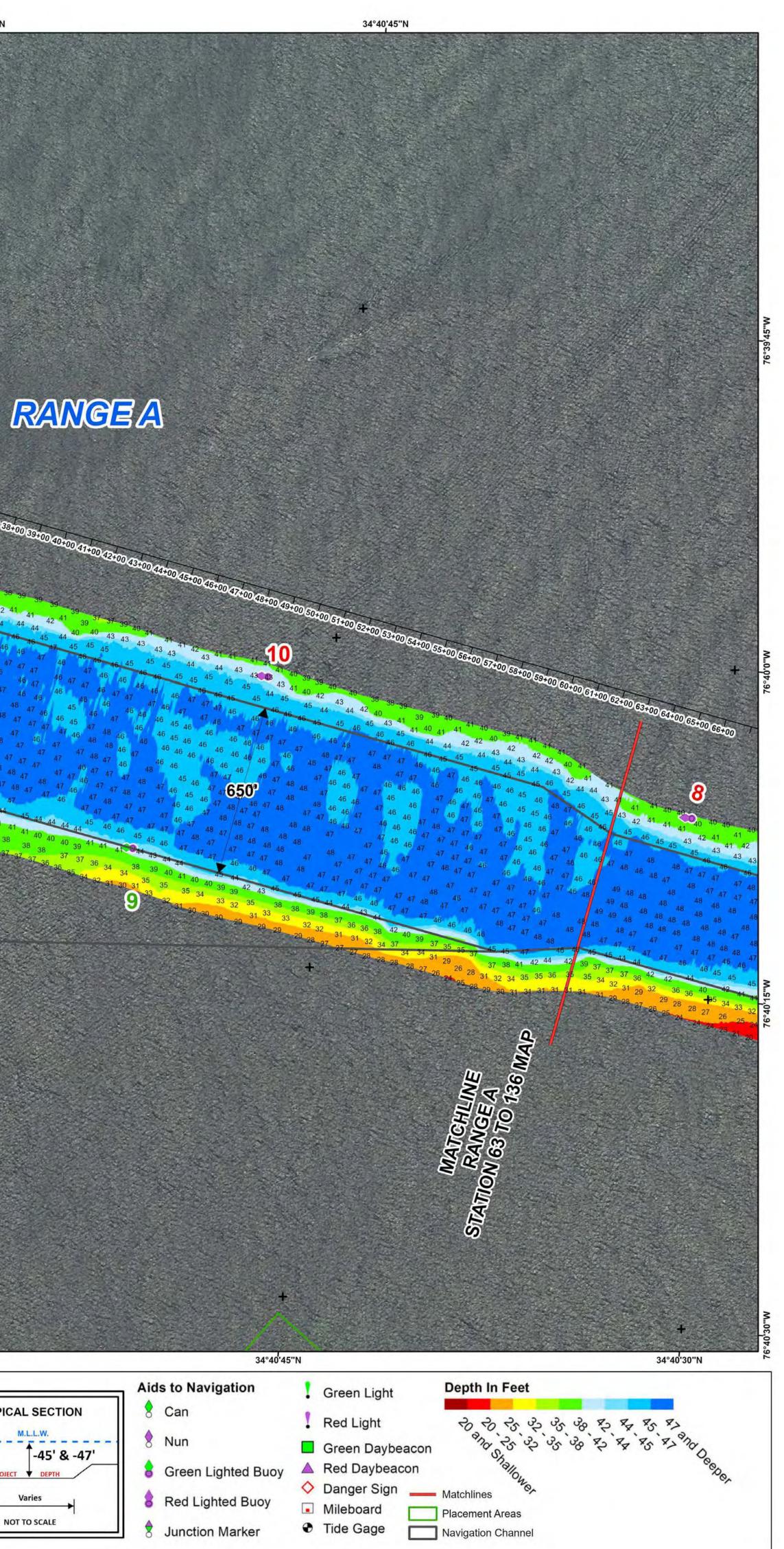
Survey Date: 13 & Map Date: 16 Augus Imagery Date: 27 A © 2024 Maxar Tech Scale: 1:3,000 File Name: MC_03_I Surveyed by: JAJ,R Mapped by: k7opnk Processed by: k7op

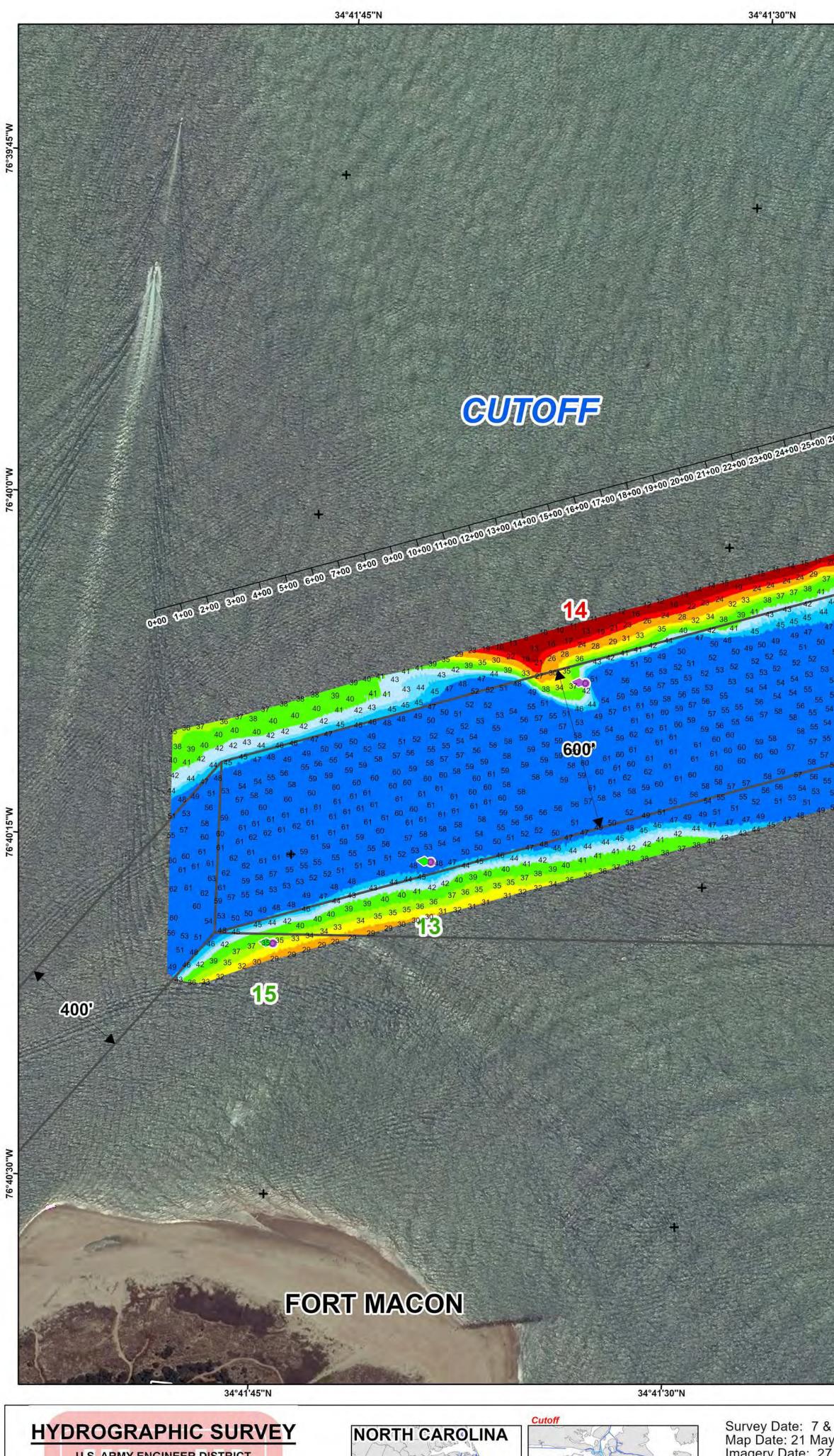
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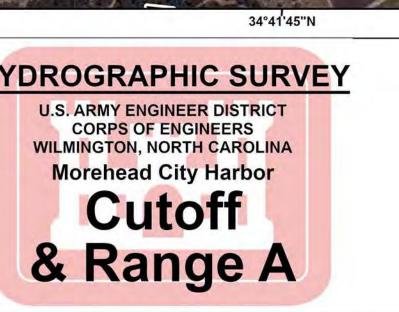
SHACKLEFORD BANKS 12 800 11

34°41'15"N

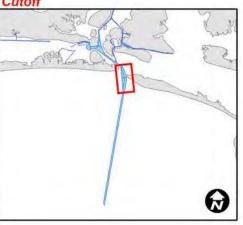
| | | | | 34°41'15"N 34°41'0"N | |
|--|-----|-----|--|--|--------------|
| & 14 August 2024 gust 2024 7 April 2024 echnologies 3_RGA_20240814_CS J,RW onkms 7 opnkms | | | ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "BEAUFORT ", 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: DUKE MARINE LAB 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 | TYPICAL SECTION M.L.L.W. -45' & PROJECT DEPTH 3 Varies | |
| 200 | 400 | 600 | 800 | 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 | NOT TO SCALE |
| | | | Feet | 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 | |











Survey Date: 7 & 1 Map Date: 21 May 2 Imagery Date: 27 A © 2024 Maxar Teo Scale: 1:3,000 File Name: MC_03_ Surveyed by: JAC, Mapped by: k7oph Processed by: k7oph

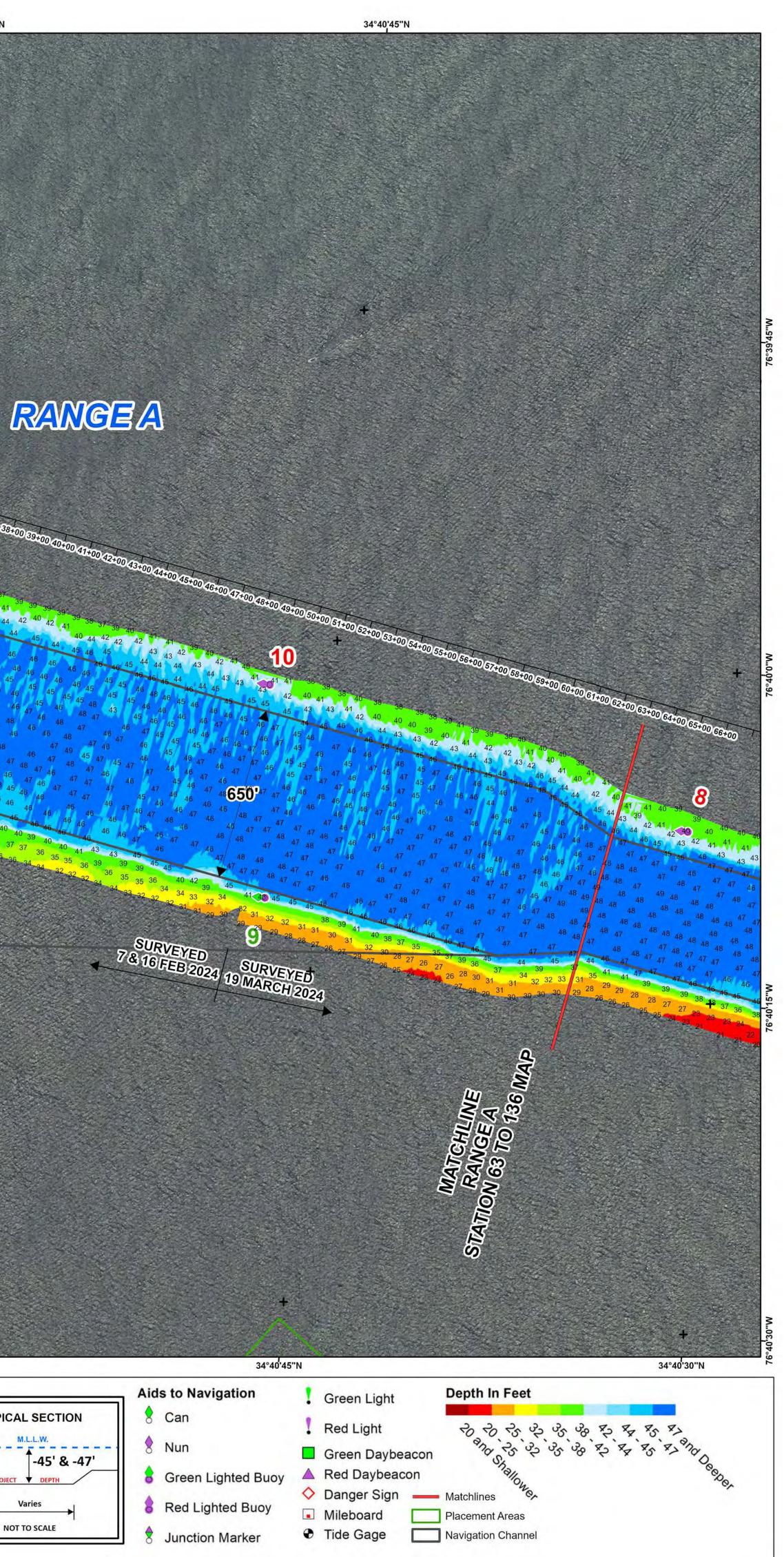
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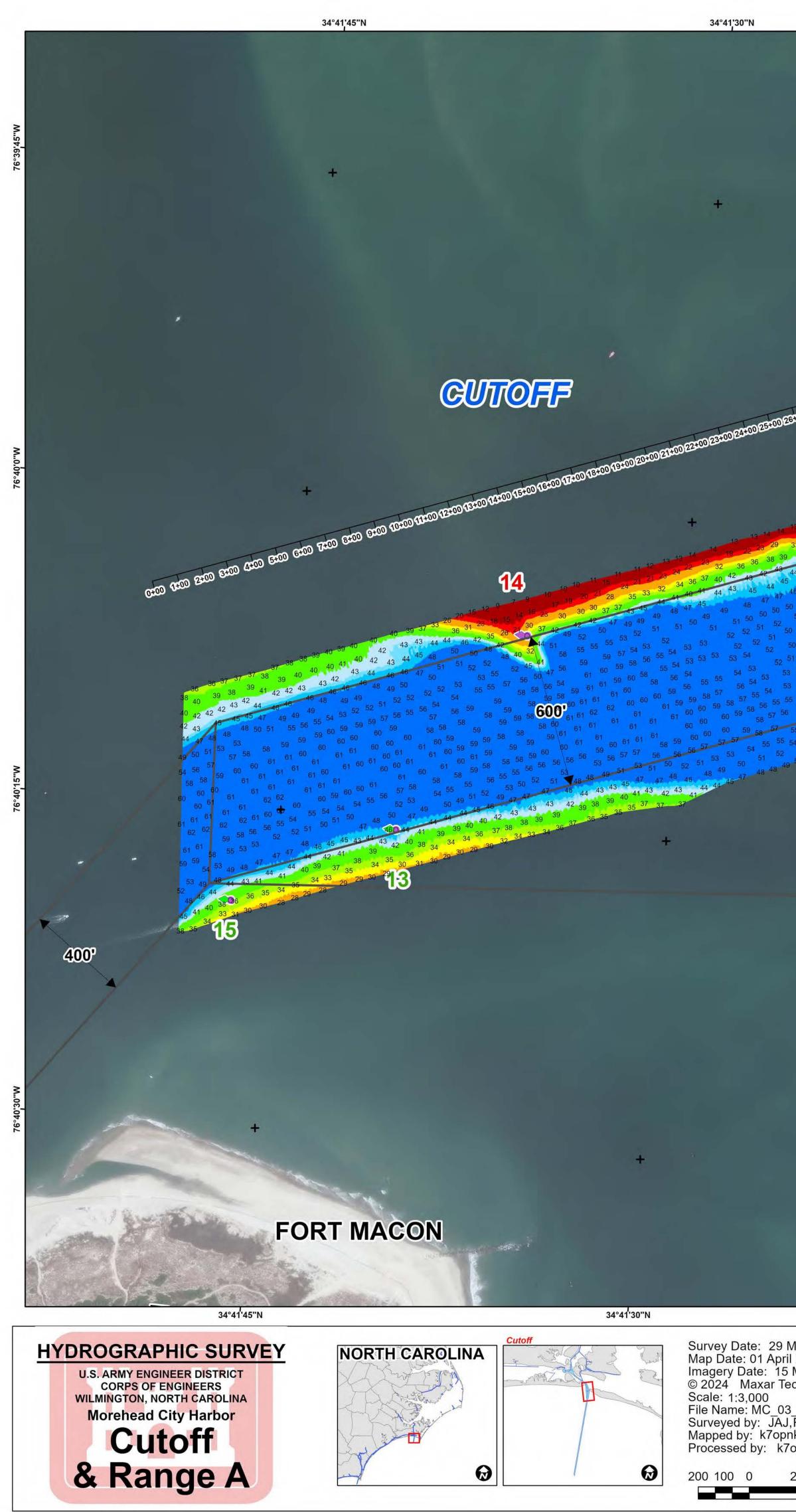
SHACKLEFORD BANKS 4800 SURVEYED SURVEYED 16 & 20 MAY 2024 7 & 16 FEB 2024

34°41'15"N

| 34°41'1 | 5"N 34°41'0"N |
|---|--|
| & 16 Feb, 19 March, 16 & 20 May 2024 ay 2024 27 April 2024 Technologies 03_RGA_20240516_CS AC,RW opnkms k7opnkms | 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 "BEAUFORT ", 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: DUKE MARINE LAB 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 |
| 200 400 600 800 | EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325 |
| East | 7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS. |

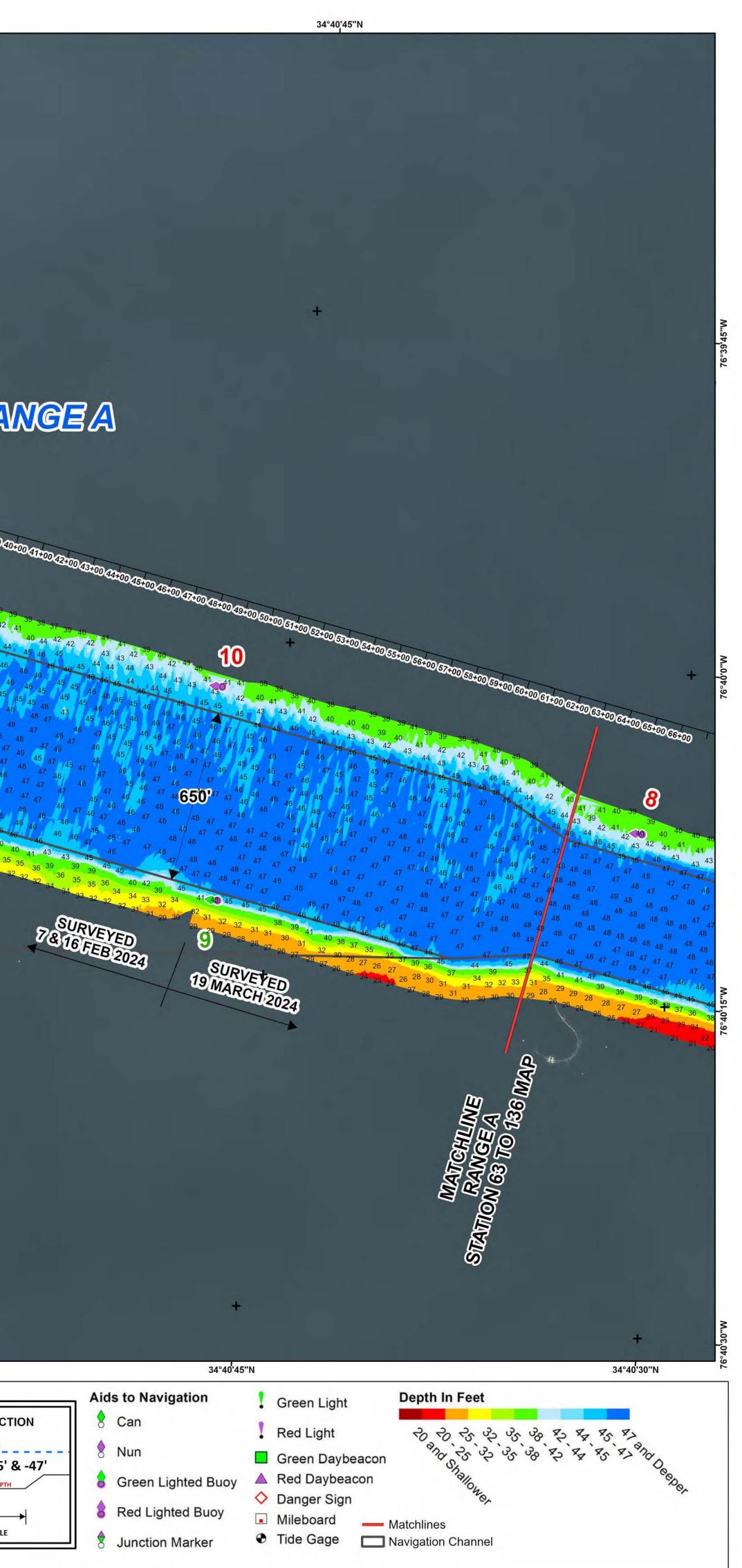
8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

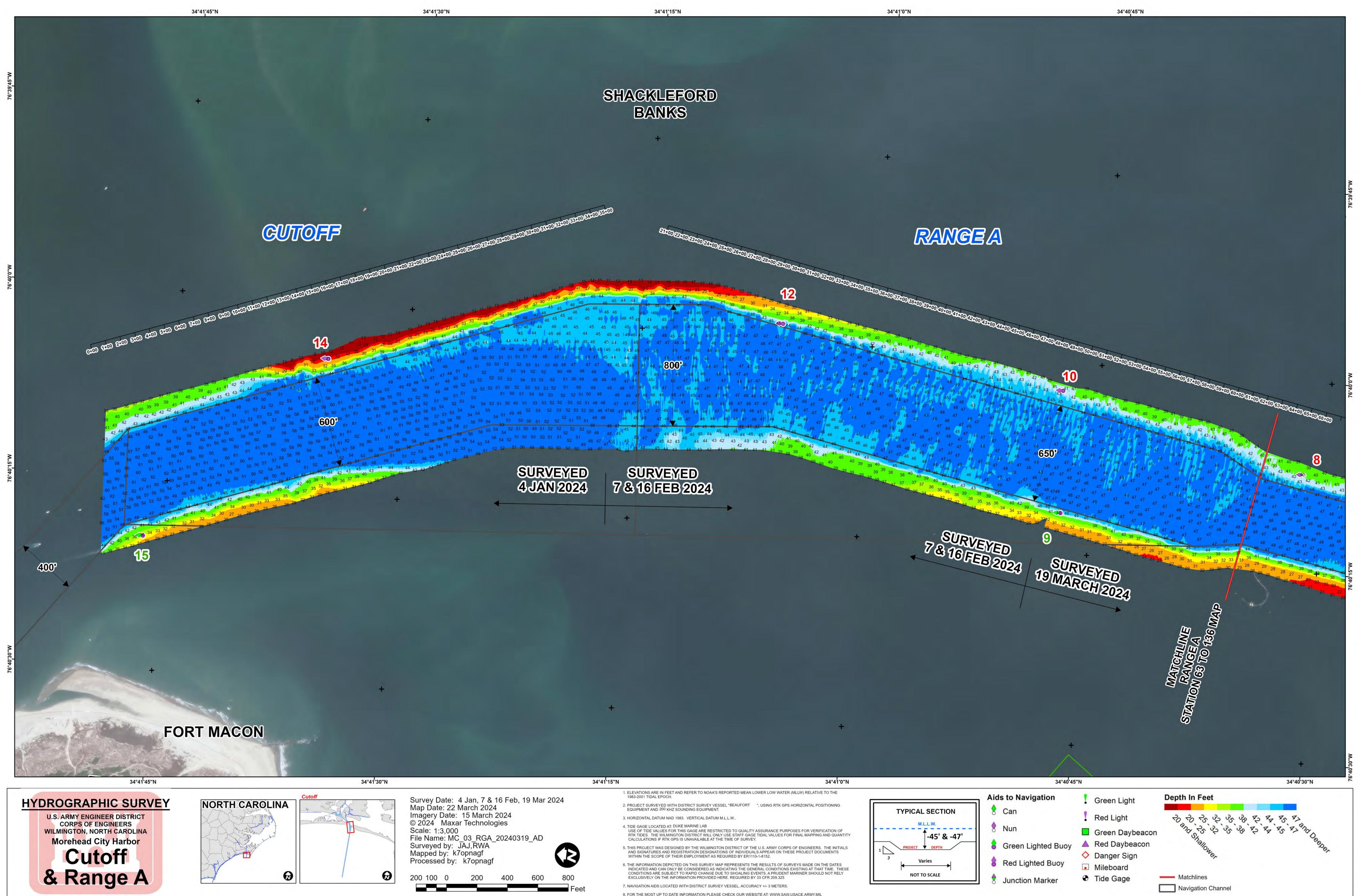




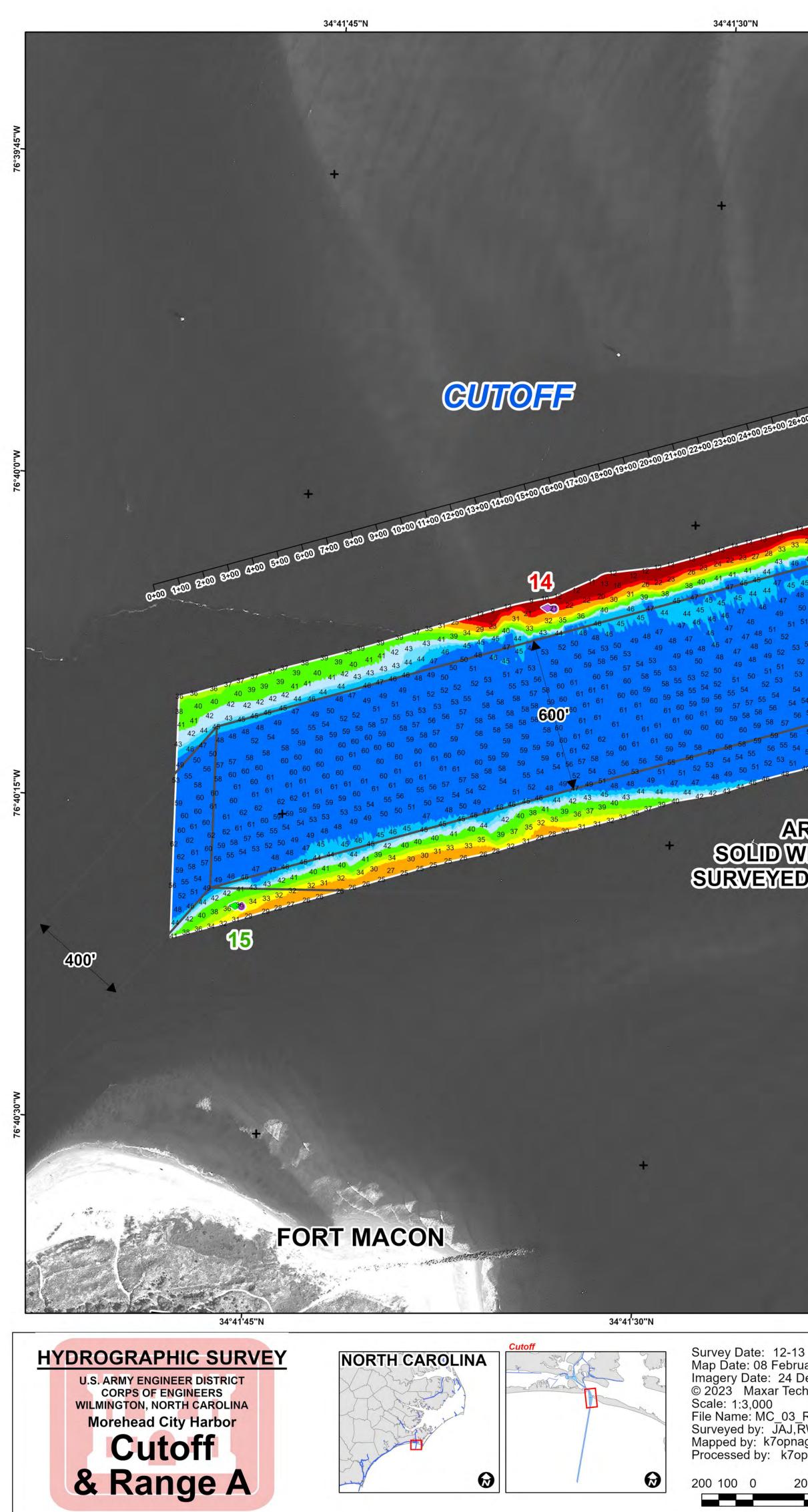
| | 34°41'15"N | | 34°41'0"N |
|---|---|--|---|
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| | KLEFORD | | |
| By | ANKS + | | |
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| 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 | | | |
| 26+00 27+00 28+00 29+00 30+00 50 | 21+0022+0023+0024+0025+0026 | 00 27+00 cm | RA |
| 15 12 11 12 12 13 15 14 13 15 12 11 25 18 18 | 14 15 15 16 17 17 18 19 20 nt | 5+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 32 $27 24 25 26 28 29 30$ $38 0 31 34 37 34 34 31 31 31 33 34$ $46 43 37 34 34 34 31 31 31 33 34$ | |
| 13 28 39 44 45 44 45 44 45 45 45 44 44 45 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | +00 36+00 37+00 38+00 39+00 40+0 |
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| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 44 45 46 46 47 46 46 46 46 3 44 45 46 46 46 46 46 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
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| SURVEYED 29 MARCH 2024 | SURVEYED 7&16FEB2024 | ³⁹ 39 39 39 39 | $ \begin{array}{ccccccccccccccccccccccccccccccccc$ |
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| 34 | 4°41′15″N 34°41′0″N | |
|---|---|--|
| March 2024 5 March 2024 5 March 2024 Technologies 03_RGA_20240329_CS AJ,RW pnkms K7opnkms 200 400 600 800 | 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 "BEAUFORT ", 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: DUKE MARINE LAB 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 | TYPICAL SECTI M.L.L.W. -45' & PROJECT -45' & DEPTH 3 Varies NOT TO SCALE |
| Feet | 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 | |





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



Shackleford Banks

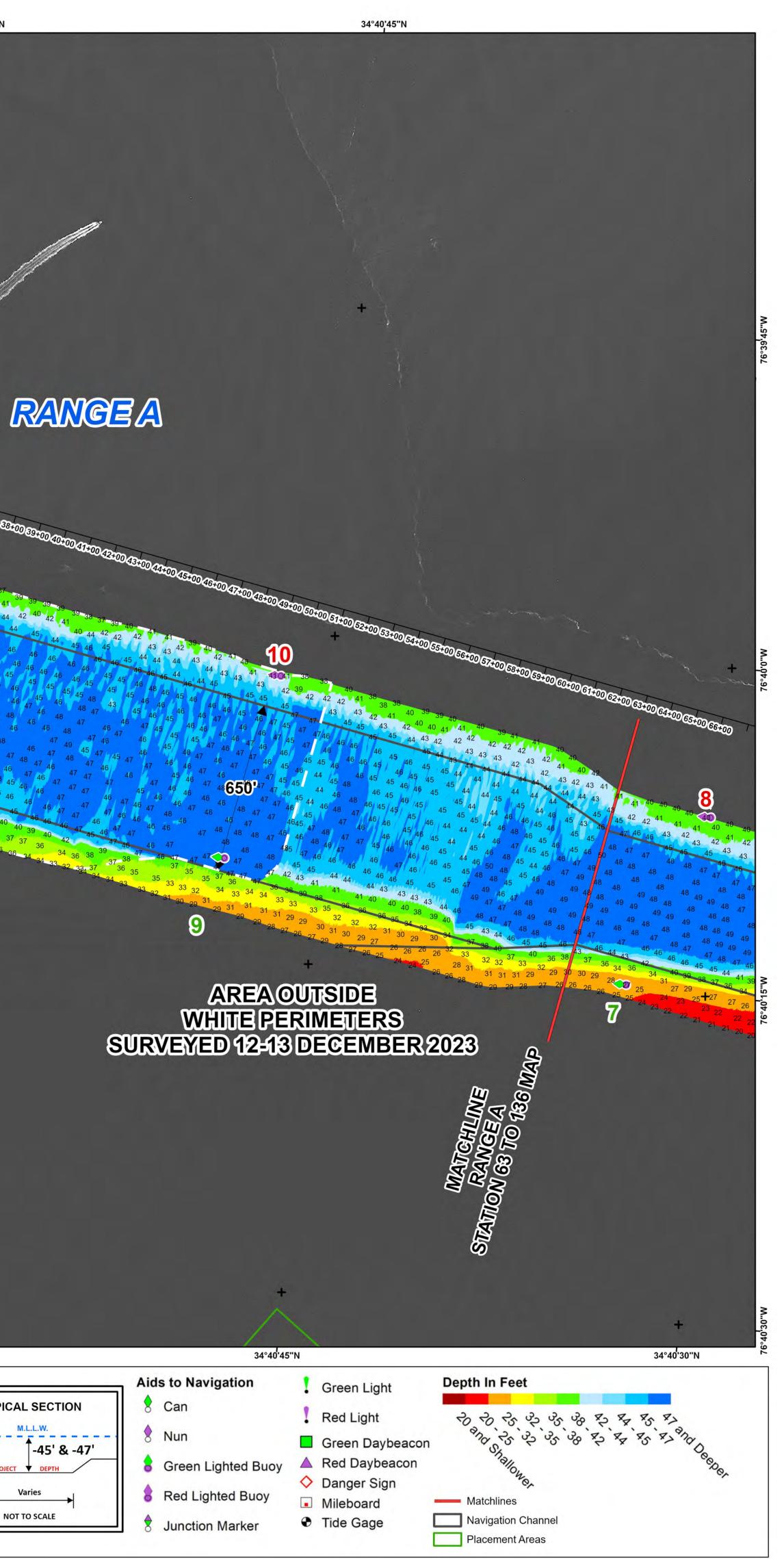
46**800'**

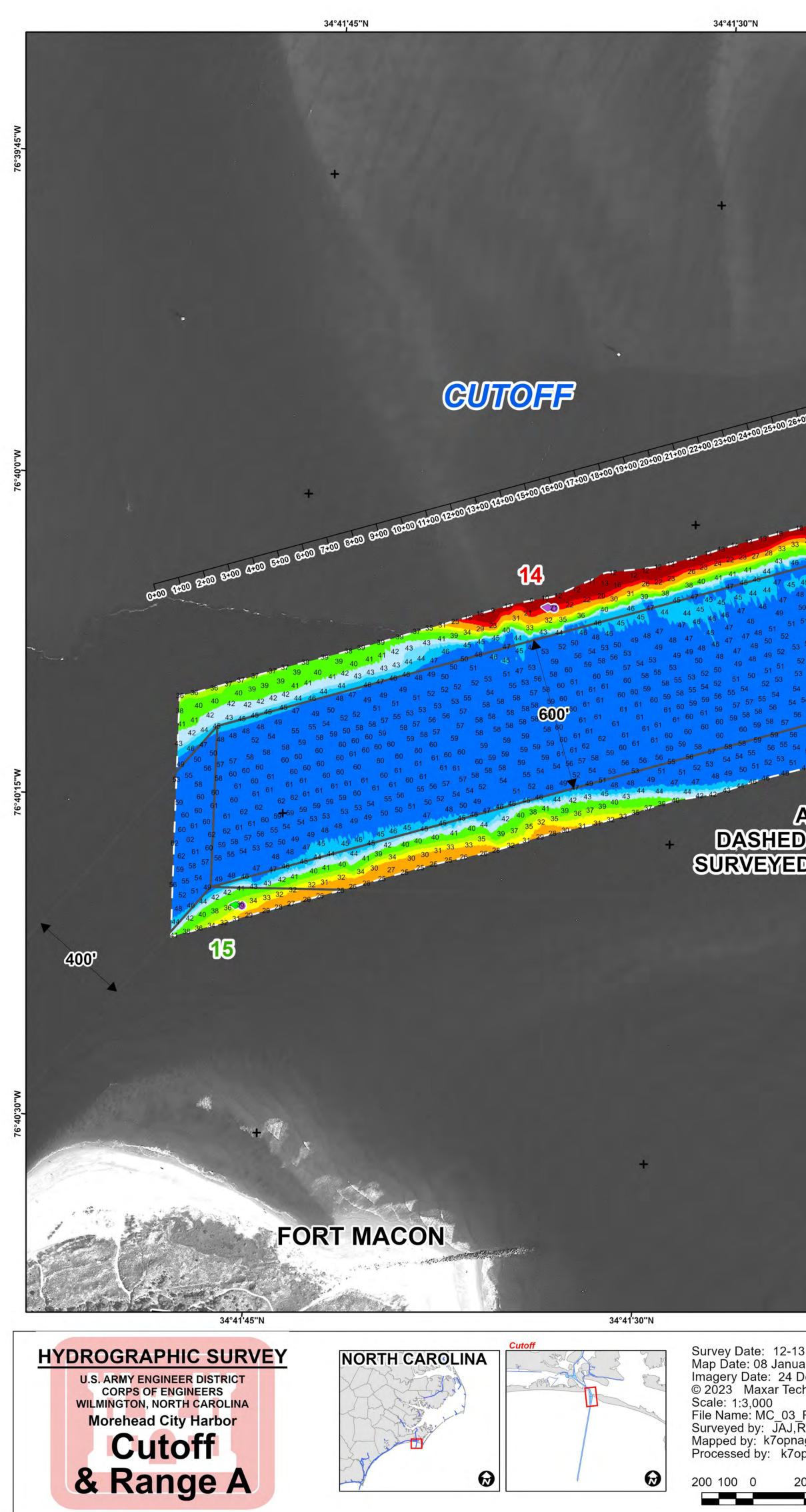
34°41'15"N

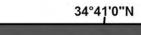
AREA INSIDE SOLID WHITE PERIMETER SURVEYED 4-5 JANUARY 2024

AREA INSIDE DASHED WHITE PERIMETER SURVEYED 7 FEBRUARY 2024

| 34°41 | '15"N 34°41'0"N | |
|--|---|--|
| 13 Dec 2023; 4-5 Jan & 7 Feb 2024 oruary 2024 December 2023 echnologies 3_RGA_20240207_AD I,RWA nagf Zopnagf 200 400 600 800 | 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 "BEAUFORT ", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT. ", 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: DUKE MARINE LAB 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 | TYPICAL SECT M.L.L.W. -45' & 1 3 Varies NOT TO SCALE |
| Feet | 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 | |







Shackleford Banks

34°41'15"N

AREA INSIDE DASHED WHITE PERIMETER SURVEYED 04-05 JANUARY 2024

AREA OUTSIDE DASHED WHITE PERIMETER SURVEYED 12-13 DECEMBER 2023

12

| 34°41'15 | 'N 34°41'0"N | |
|---------------------------------------|--|-------|
| 13 December 2023 & 04-05 January 2024 | 1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH. | |
| uary 2024 December 2023 | 2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "BEAUFORT ", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT. TYPICAL SE | ЕСТ |
| | 3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W. | |
| echnologies | 4. TIDE GAGE LOCATED AT: DUKE MARINE LAB | V. |
| 3_RGA_20240104_AD | 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. | 15' 8 |
| J,RWA | AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152. | DEPTH |
| 7opnagf | 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 | |
| 200 400 600 800 | EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325 | ALE |
| Feet | 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 | |
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