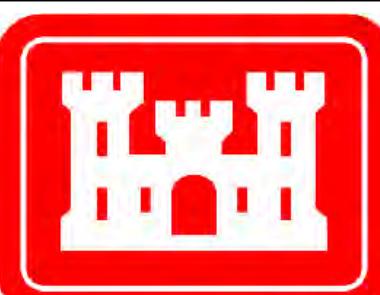


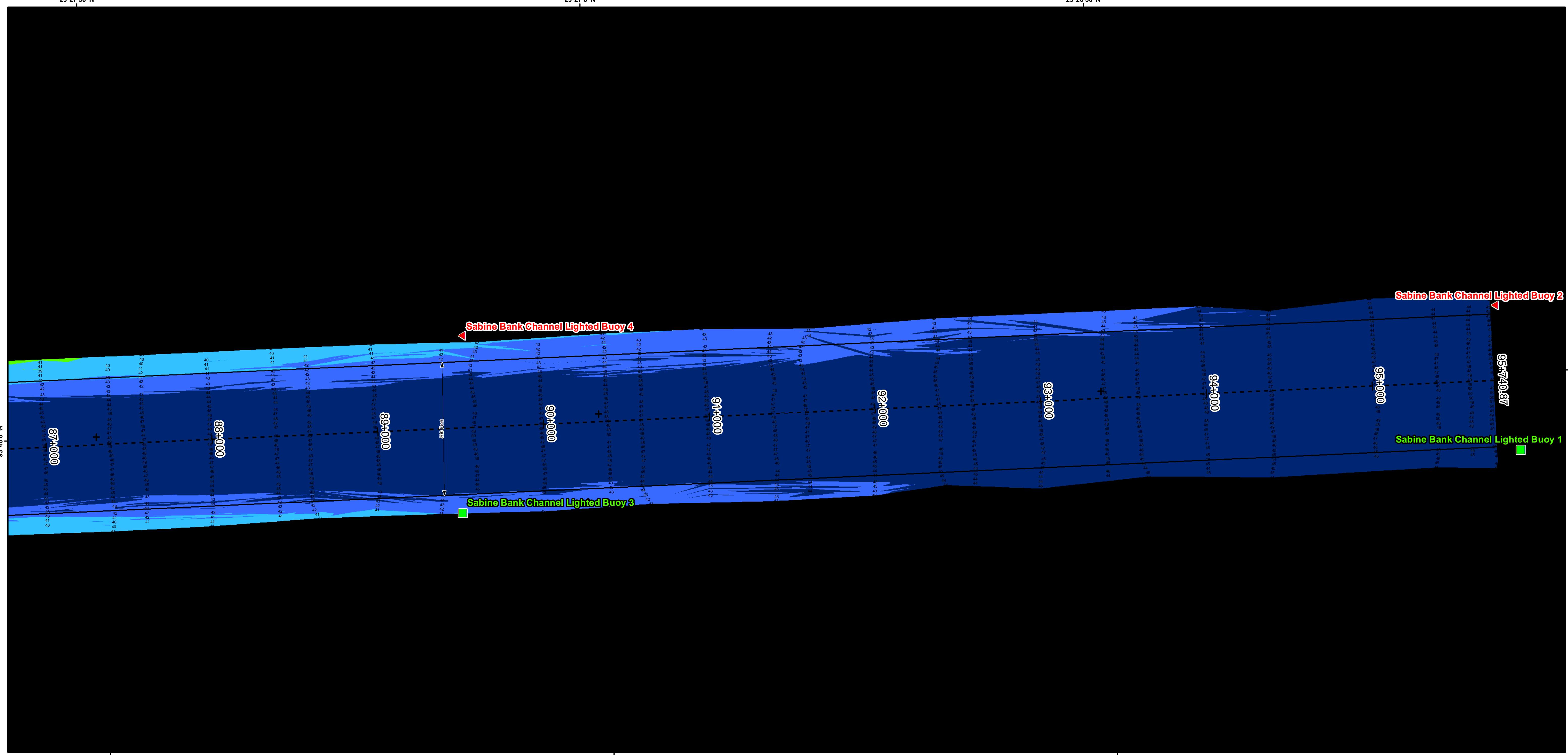
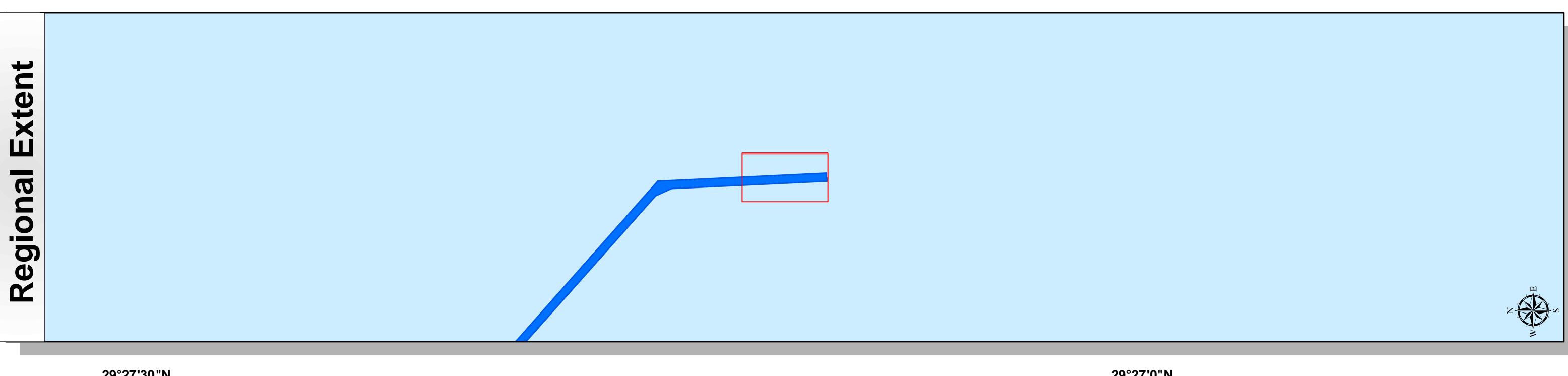
Sabine Nечес Waterway: Sabine Bank Channel



U.S. Army Corps of Engineers
Galveston District



Regional Extent



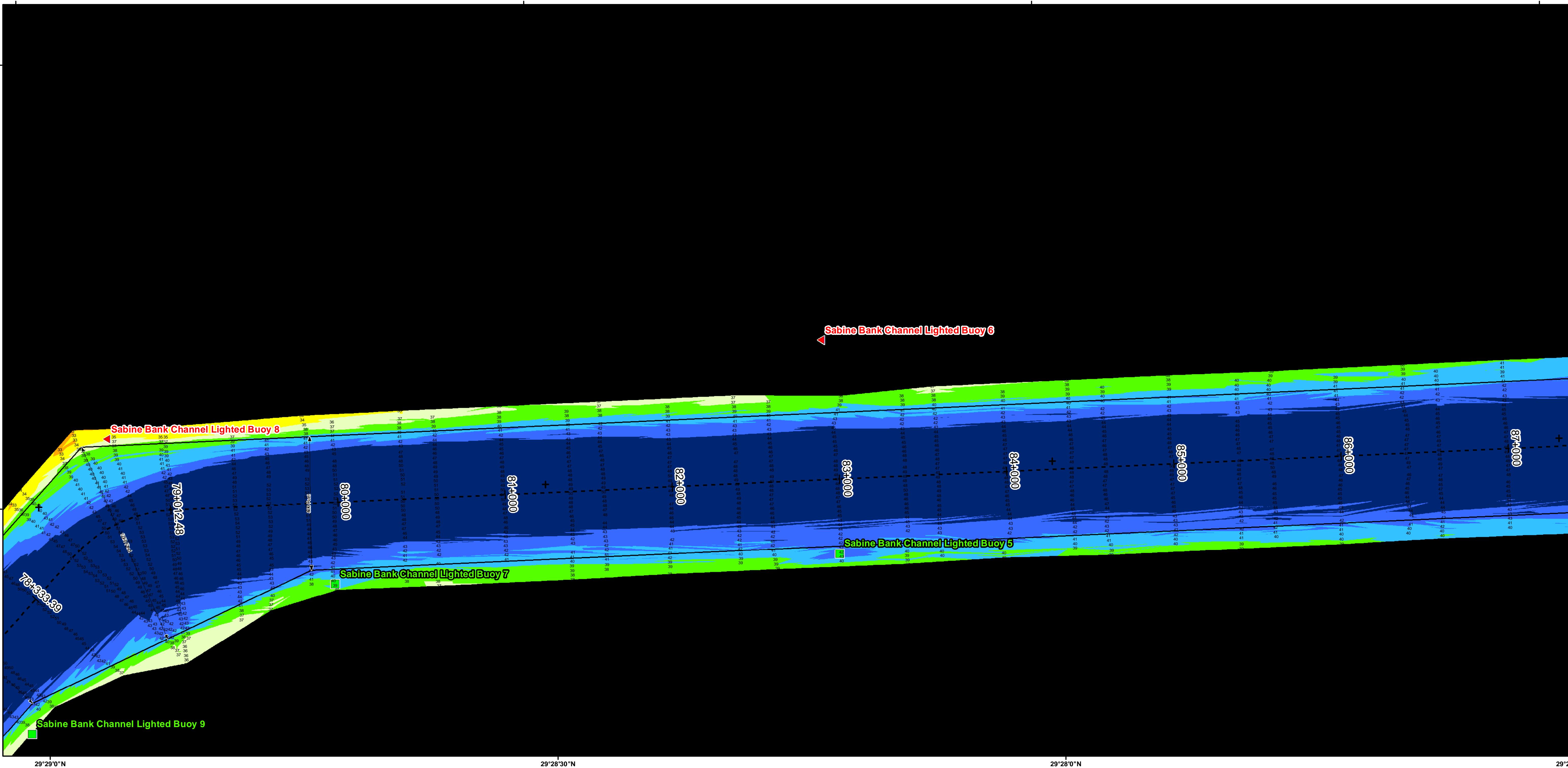
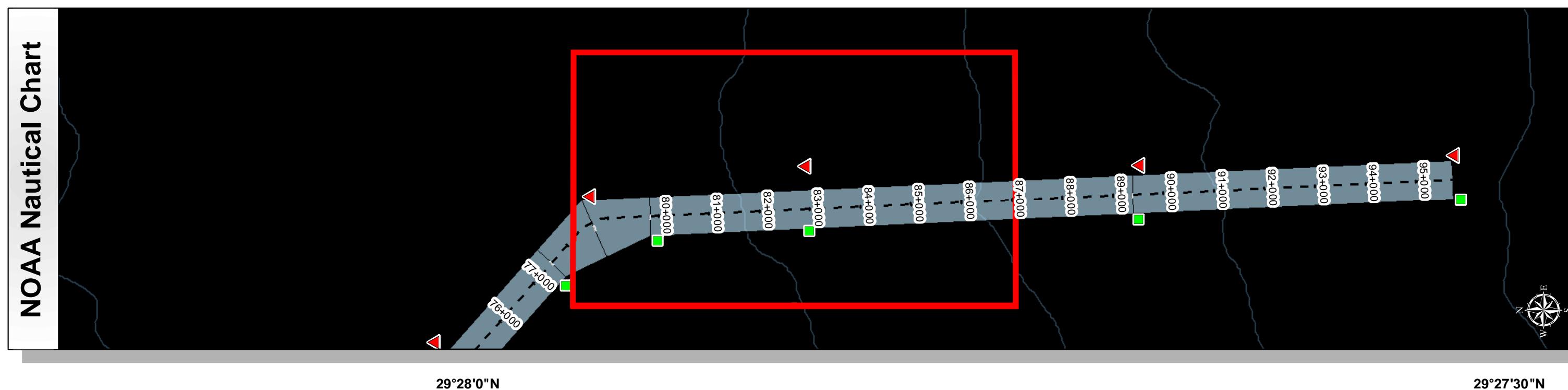
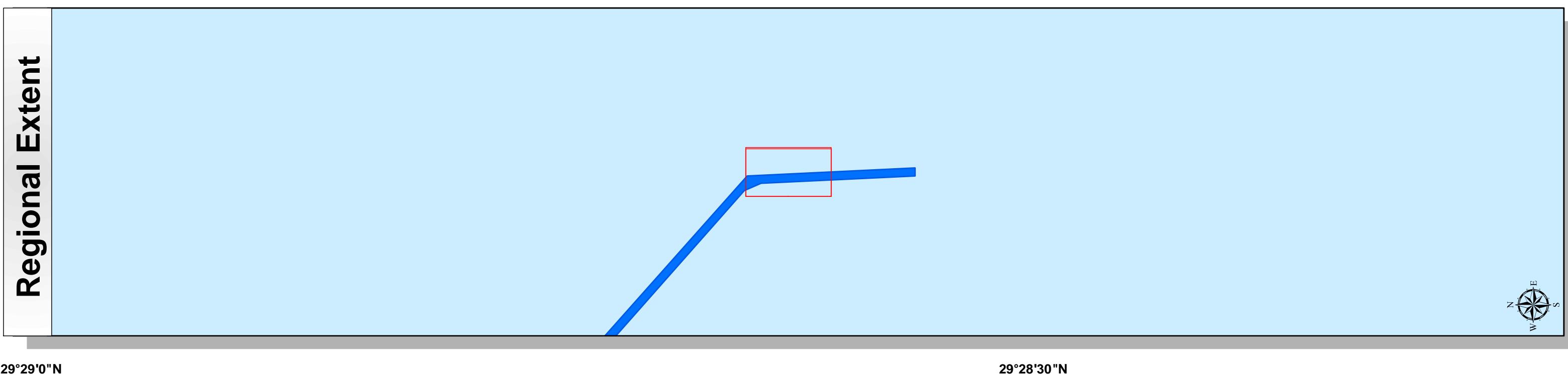
Survey Date(s): 27 September 2018	Authorized Depth: -42ft.
Page: 1 of 72	Map:
Scale: 1:3,500	Side Slope Ratio: (Rise : Run)
Mapped by: M3AOXPAC	Additional Imagery: © DigitalGlobe Inc.
Additional Info:	Print Date: 10/3/2018

HYDROGRAPHIC SURVEY		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS GALVESTON, TEXAS		
Station: 95+740.87 to 18+091.09=0+000	SABINE NECHES	PORT ARTHUR, TEXAS
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet	Projection: Lambert Conformal Conic /Datum: North American 1983	
Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community	NOAA Nautical Chart Extent	
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community	0 0.375 0.75 1.5 Miles	
Hydrographic Survey Extent	0 295 590 1,180 Feet	

Sabine Nечес Waterway: Sabine Bank Channel



Regional Extent



Channel Features		Aids to Navigation		MLLW
Channel Toe		Lights		0 - 25
Channel Center Line		Red Side Aids		25 - 30
Channel Station Lines		Green Side Aids		30 - 34
Channel Dimensions		Moorings		34 - 36
				36 - 38
				38 - 40
				40 - 42
				42 - 44
				44

NOAA Bathymetry (DREDGING REACH EXTENT)
0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50

NOTES:
 1. HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET.
 2. ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW TIDE (MLLW) DATUM.
 3. THIS PROJECT WAS DESIGNED BY THE GALVESTON 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 ER110-1-8152.

4. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE DATES INDICATED AND CAN NOT BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT ANY 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
 5. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT [HTTP://WWW.SNG.USACE.ARMY.MILMISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/](http://WWW.SNG.USACE.ARMY.MILMISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/)
 6. NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) SURVEYS CONDUCTED BY THE NOAA NATIONAL SURVEY AND COAST SURVEY AVAILABLE FROM THE NOAA GENERAL SURVEY CENTER. SURVEY DATA AND SURVEY DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION. NOAA NAUTICAL CHARTS PROVIDED VIA RNC MAP SERVICE

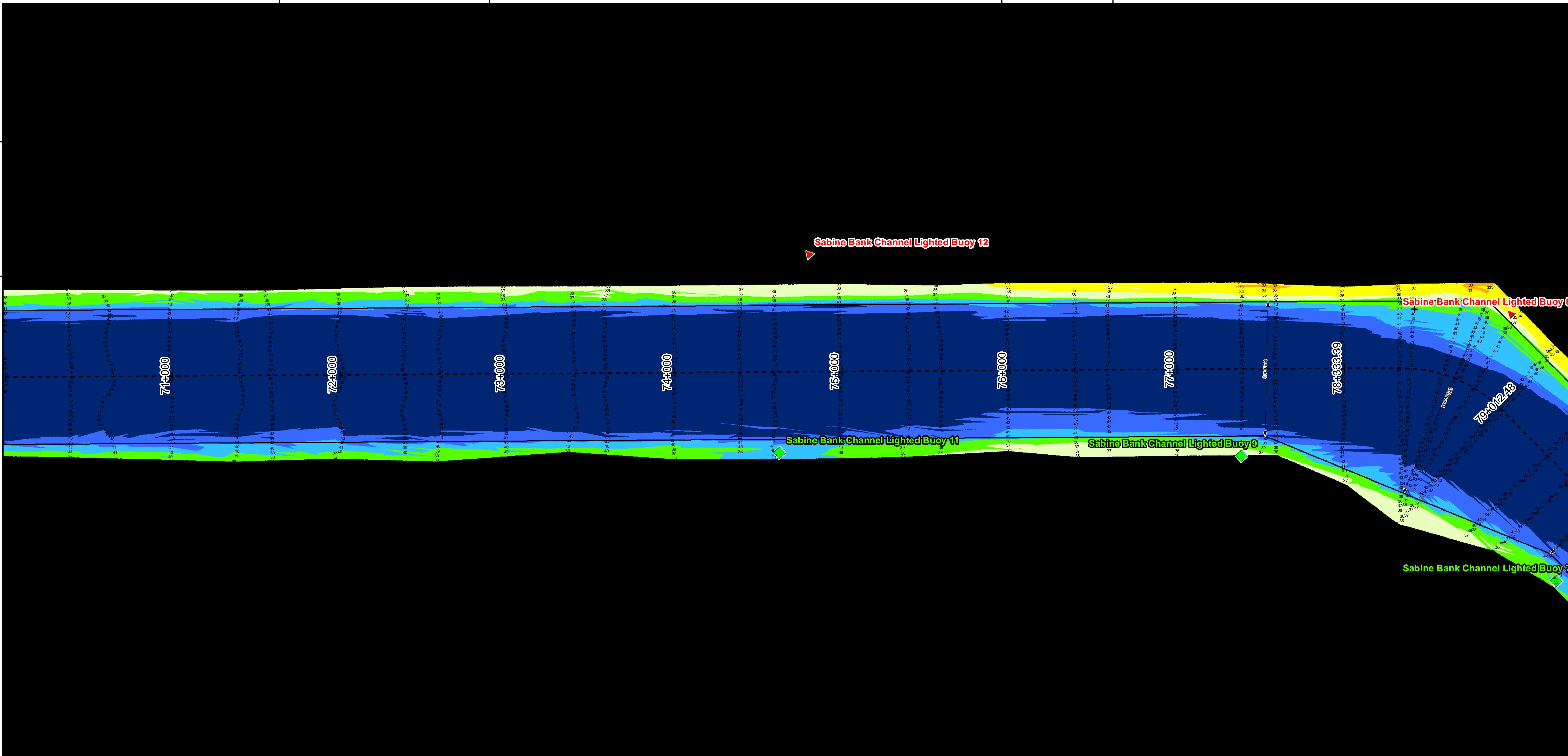
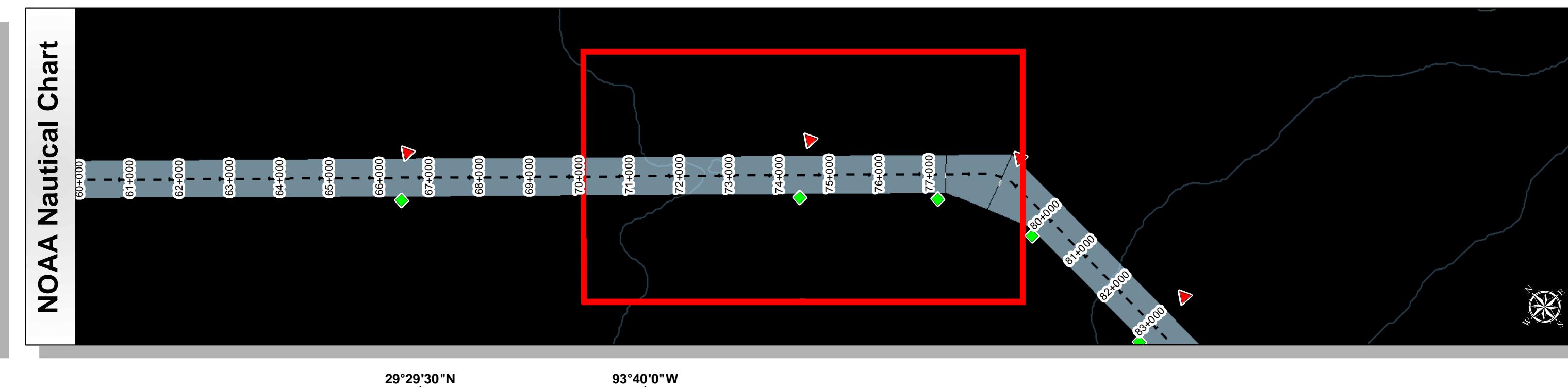
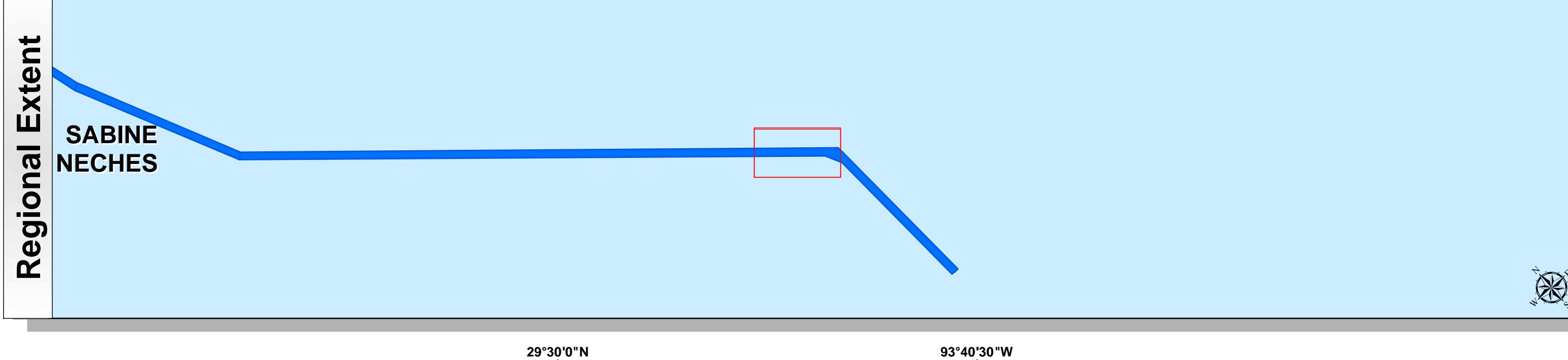
Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community
 Esri, Garmin, GEBCO, NOAA NGDC, and other contributors
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Projection: Lambert Conformal Conic /Datum: North American 1983		
NOAA Nautical Chart Extent 0 0.375 0.75 1.5 Miles		
0	295	590 1,180 Feet
Hydrographic Survey Extent		

HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS
 Station: 95+740.87 to 18+091.09=0+000
 SABINE NEЧЕС
 PORT ARTHUR, TEXAS

Survey Date(s): 27 September 2018	Page: 2 of 72	Map:	Authorized Depth: -42ft.
			Side Slope Ratio: (Rise : Run)
			Additional Imagery: © DigitalGlobe Inc.
			Print Date: 10/3/2018
			Additional Info:

Sabine Neches Waterway: Sabine Bank Channel



Channel Features	Aids to Navigation	MLLW
Channel Toe	Lights	0 - 25
Channel Center Line	Red Side Aids	25 - 30
Channel Station Lines	Green Side Aids	30 - 34
Channel Dimensions	Moorings	34 - 36
		36 - 38
		38 - 40
		40 - 42
		42 - 44
		44 ^
	NOAA Bathymetry (DREDGING REACH EXTENT)	0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50

NOTES:

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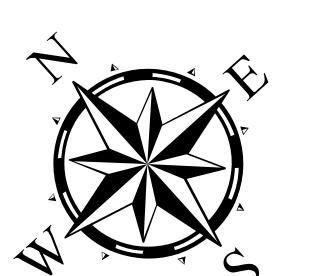
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE DURING THE DATES INDICATED AND CAN NOT BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
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Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic /Datum: North American 1983

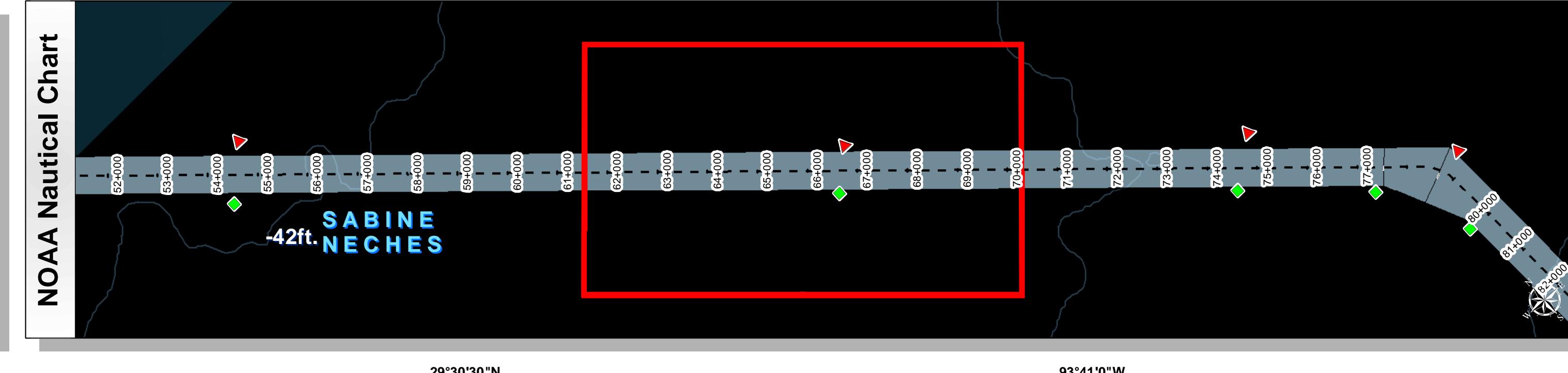
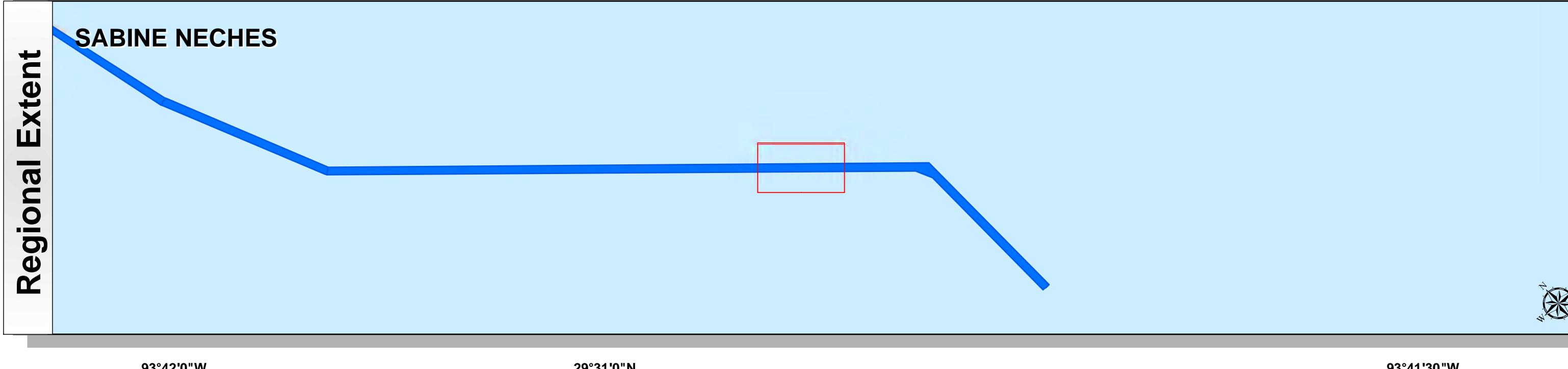
NOAA Nautical Chart Extent
0 0.375 0.75 1.5
Miles

Hydrographic Survey Extent
0 295 590 1,180
Feet

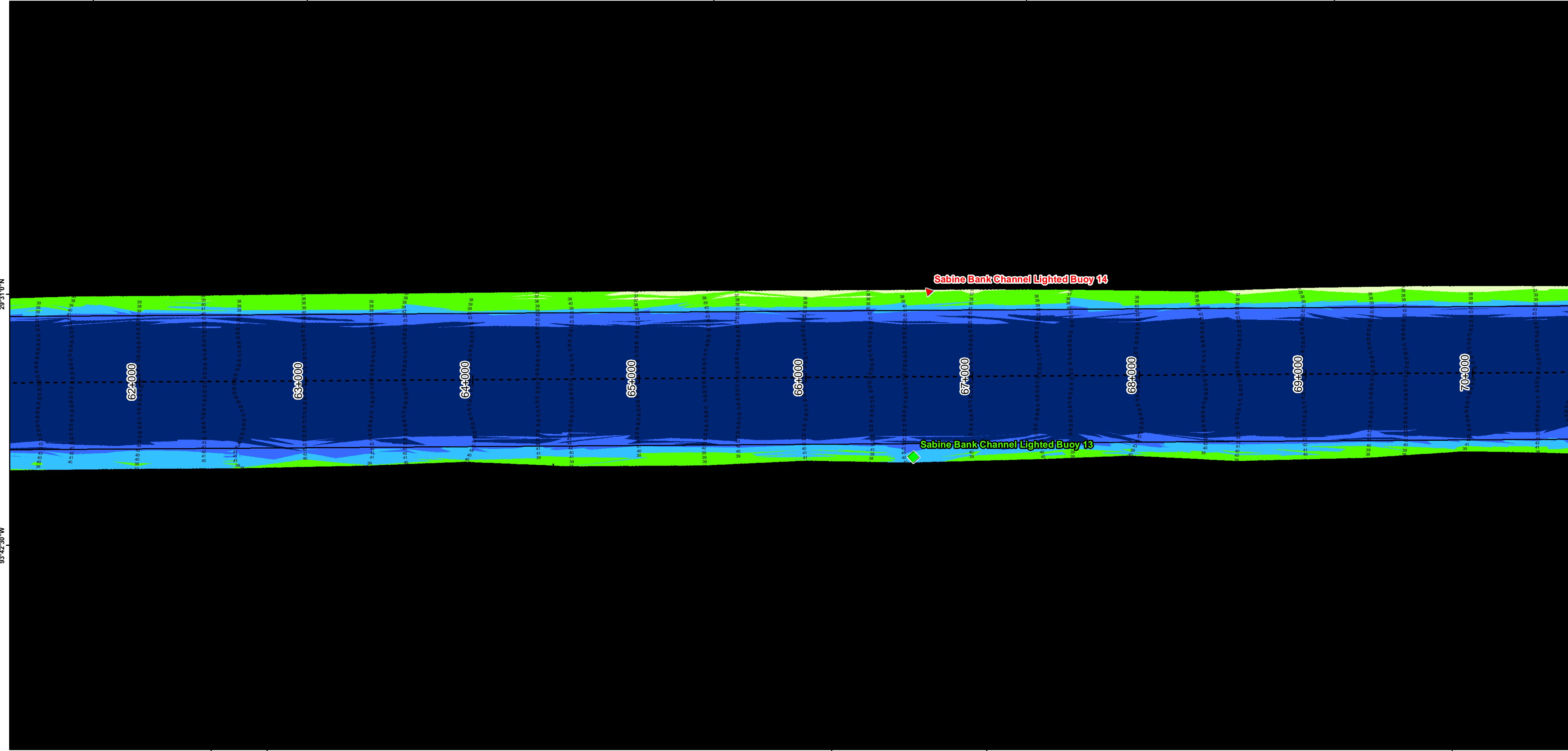


HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS
Station: 95+740.87 to 18+091.09=0+000
SABINE NECHES
PORT ARTHUR, TEXAS

Sabine Neches Waterway: Sabine Bank Channel



Survey Date(s): 27 September 2018	Authorized Depth: -42ft.
Page: 4 of 72	Map:
Scale: 1:3,500	Side Slope Ratio: (Rise : Run)
Mapped by: M3AOXPAC	Additional Imagery: © DigitalGlobe Inc.
Additional Info:	Print Date: 10/3/2018



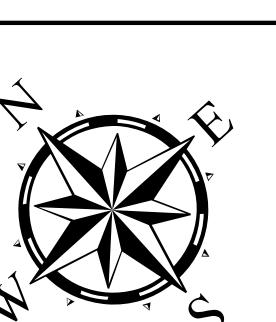
Channel Features	Aids to Navigation	MLLW
Channel Toe	Lights	0 - 25
Channel Center Line	Red Side Aids	25 - 30
Channel Station Lines	Green Side Aids	30 - 34
Channel Dimensions	Mooring Buoy	34 - 36
		36 - 38
		38 - 40
		40 - 42
		42 - 44
		44 ^
	NOAA Bathymetry (DREDGING REACH EXTENT)	0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50

NOTES:

- HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET.
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Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



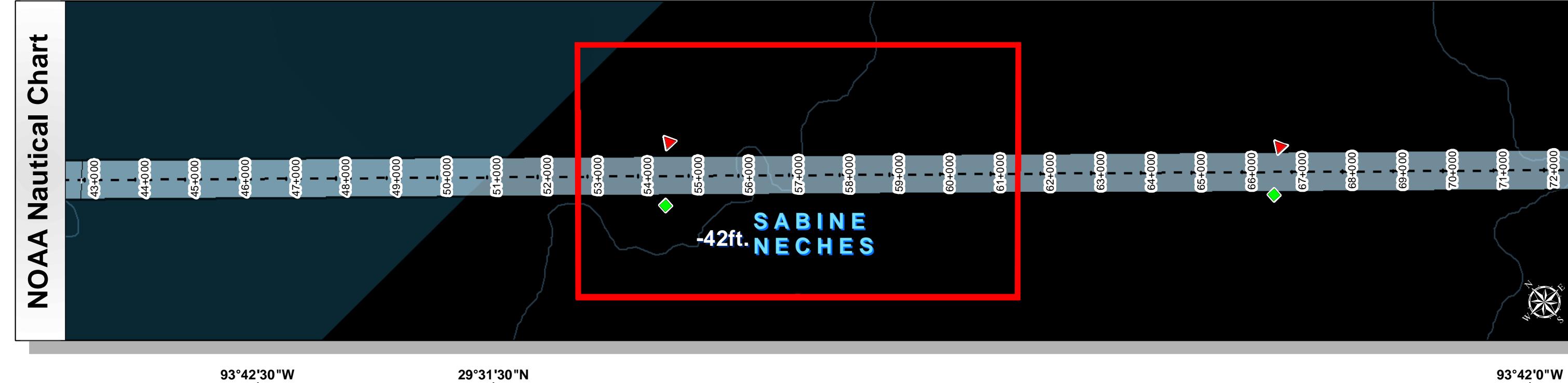
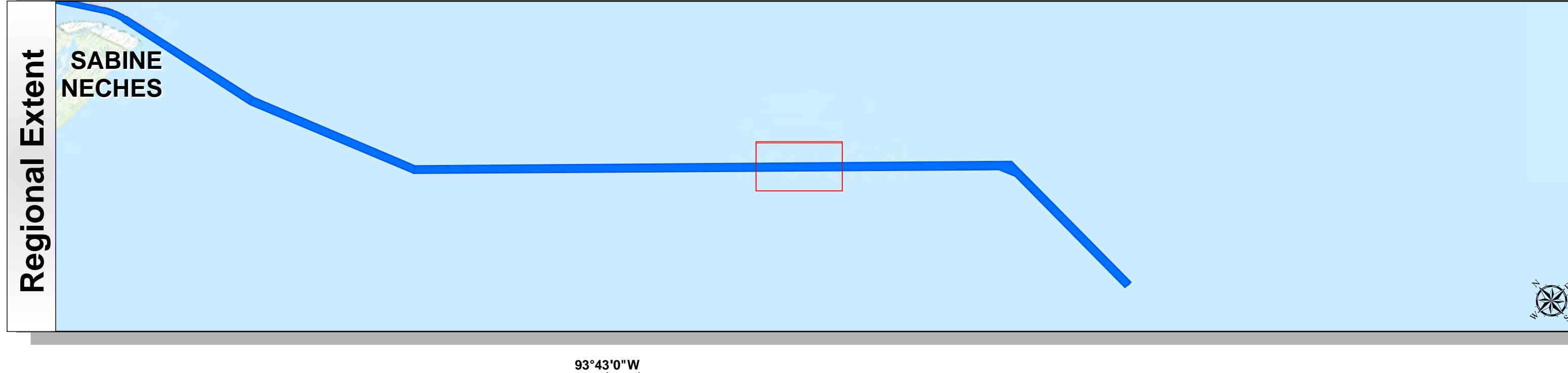
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Projection: Lambert Conformal Conic /Datum: North American 1983

NOAA Nautical Chart Extent
0 0.375 0.75 1.5 Miles

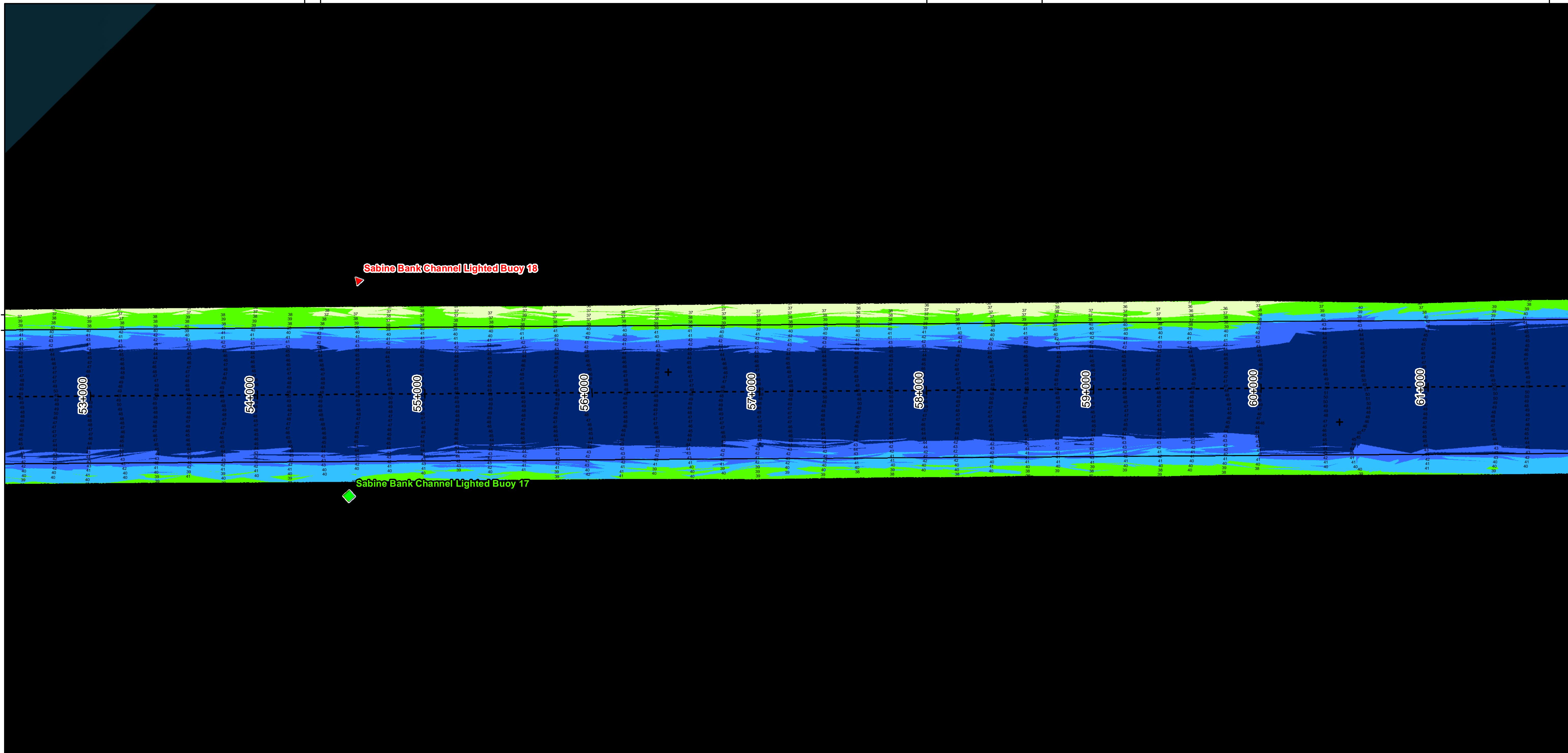
Hydrographic Survey Extent
0 295 590 1,180 Feet

HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS
Station: 95+740.87 to 18+091.09=0+000
SABINE NECHES
PORT ARTHUR, TEXAS

Sabine Neches Waterway: Sabine Bank Channel



Survey Date(s): 27 September 2018	Authorized Depth: -42ft.
Page: 5 of 72	Map:
Scale: 1:3,500	Additional Imagery: © DigitalGlobe Inc.
Mapped by: M3AOXPAC	Print Date: 10/3/2018
Additional Info:	



Channel Features	Aids to Navigation	MLLW
Channel Toe	Lights	0 - 25
Channel Center Line	Red Side Aids	25 - 30
Channel Station Lines	Green Side Aids	30 - 34
Channel Dimensions	Mooring Buoy	34 - 36
		36 - 38
		38 - 40
		40 - 42
		42 - 44
		44 ▲
		NOAA Bathymetry (DREDGING REACH EXTENT)
		0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50

NOTES:

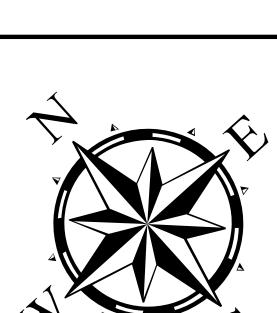
- HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET.
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6. NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) SURVEYS CONDUCTED BY THE NOAA COASTAL SURVEY AND CO-LOCATED SURVEY AVAILABLE FROM THE COASTAL GEOPHYSICAL CENTER. SURVEY VARY IN CONFIDENCE, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY, AND TYPE OF INSTRUMENTATION. NOAA NAUTICAL CHARTS PROVIDED VIA RNC MAP SERVICE

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic /Datum: North American 1983

1.5

Miles

0.375

0.75

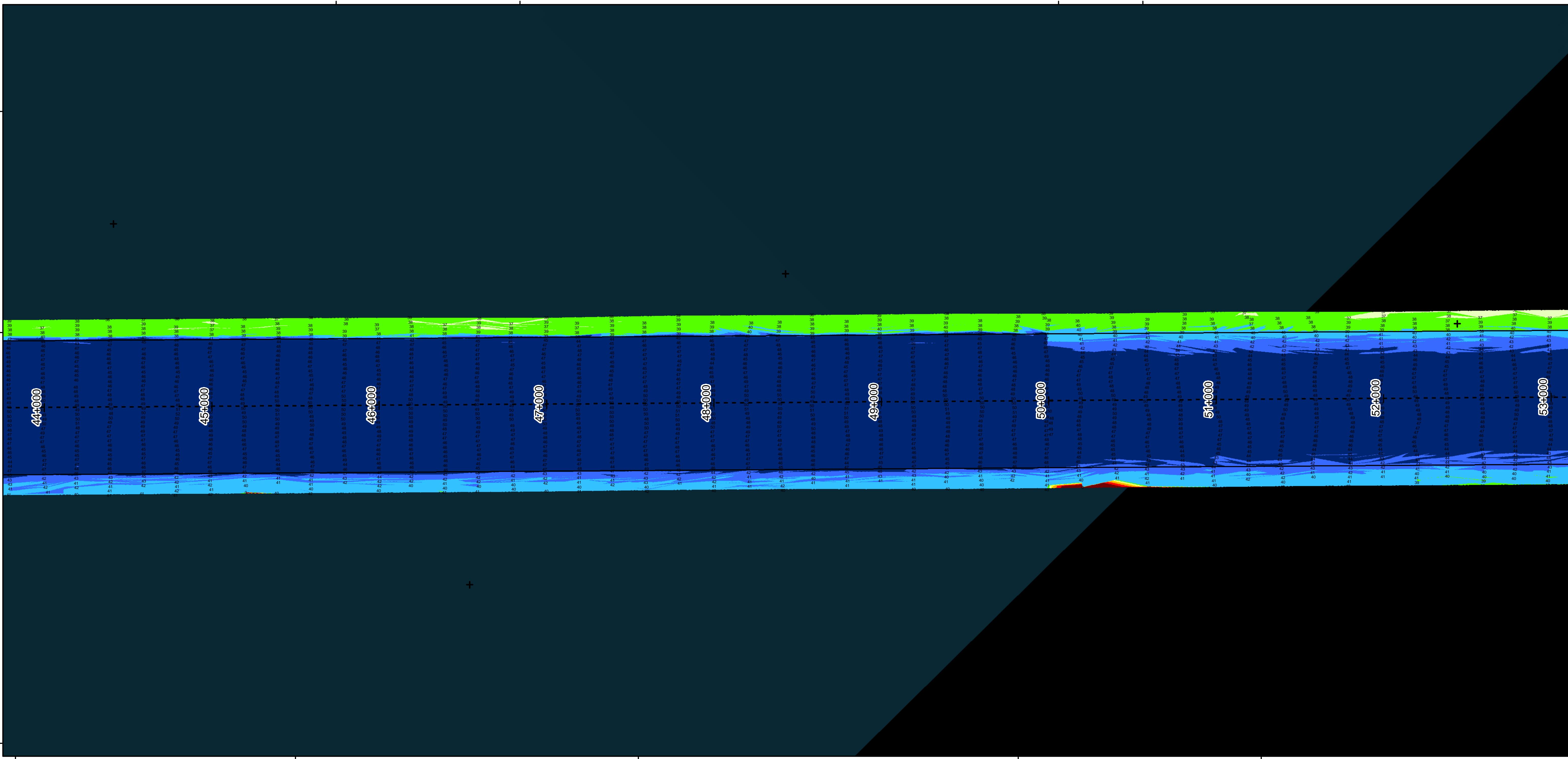
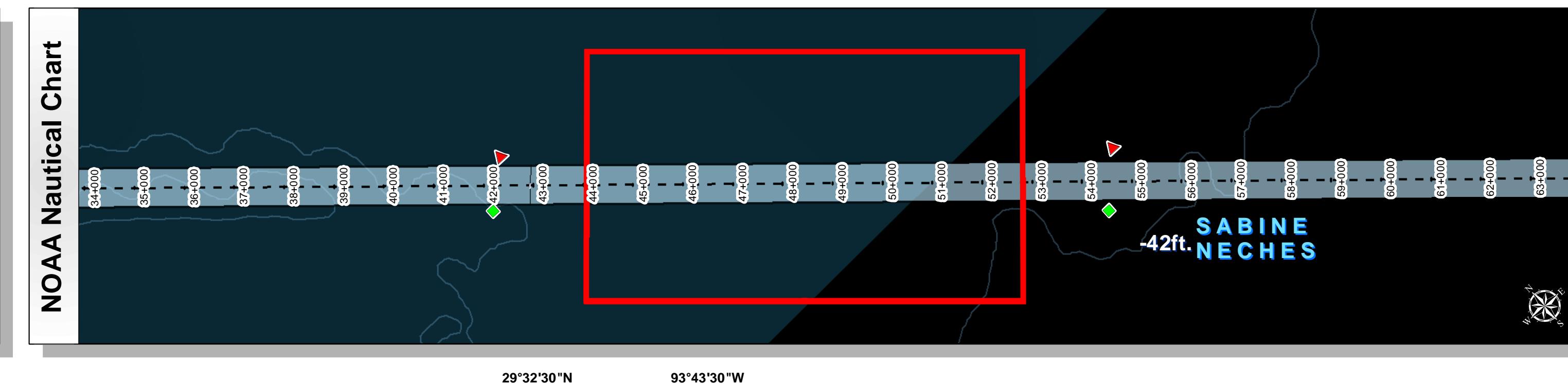
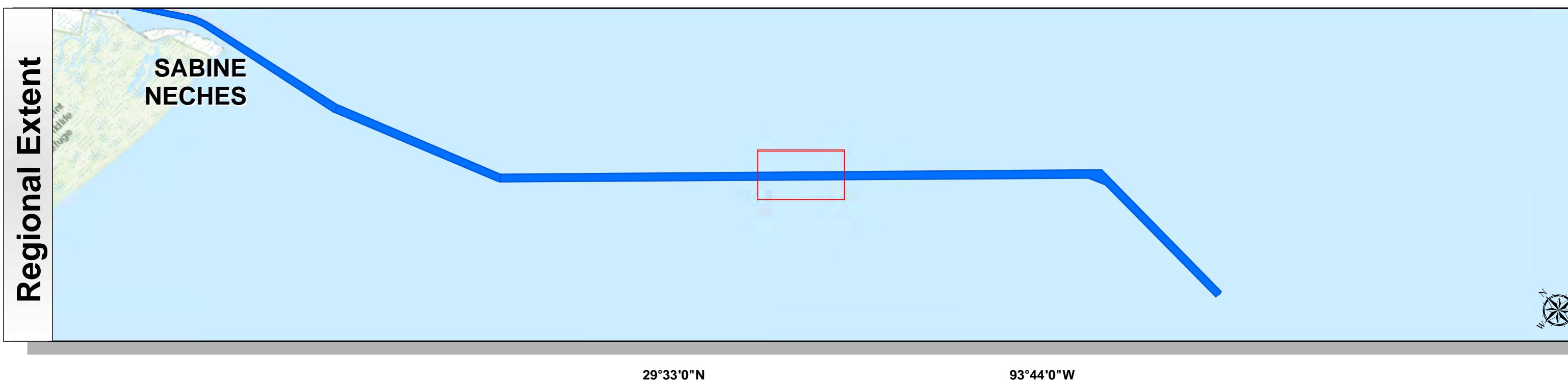
Hydrographic Survey Extent

1,180

Feet

HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS
Station: 95+740.87 to 18+091.09=0+000
SABINE NECHES
PORT ARTHUR, TEXAS

Sabine Neches Waterway: Sabine Bank Channel



Channel Features	Aids to Navigation	MLLW
Channel Toe	Lights	0 - 25
Channel Center Line	Red Side Aids	25 - 30
Channel Station Lines	Green Side Aids	30 - 34
Channel Dimensions	Moorings Buoy	34 - 36
		36 - 38
		38 - 40
		40 - 42
		42 - 44
		44 ▲
		NOAA Bathymetry (DREDGING REACH EXTENT)
		0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50

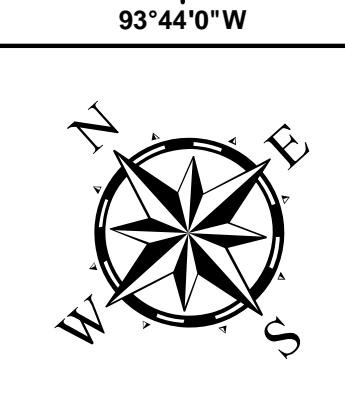
NOTES:

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic /Datum: North American 1983

1.5

Miles

0.375 0.75

Hydrographic Survey Extent

Feet

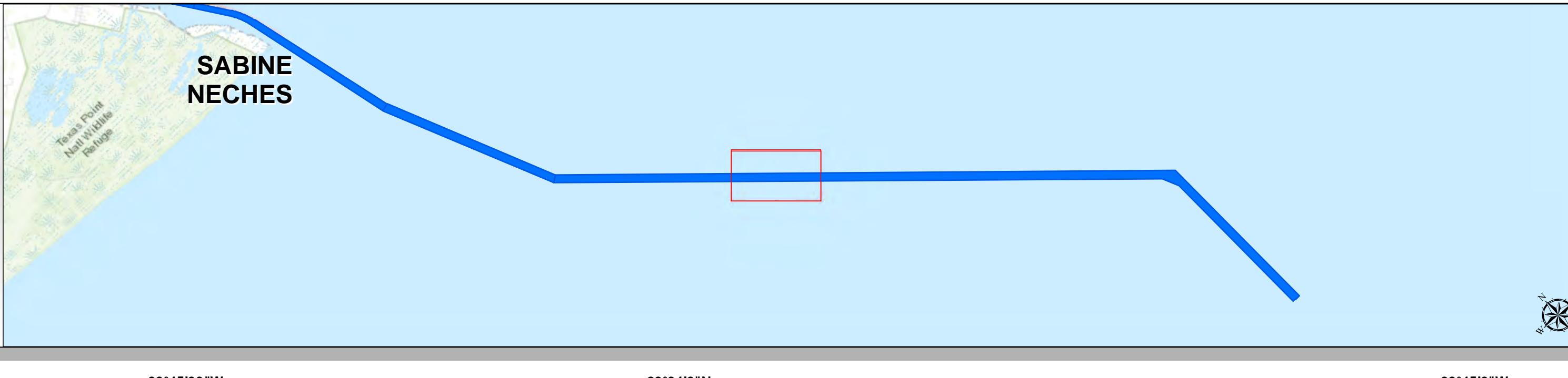
295 590 1,180

HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS
Station: 95+740.87 to 18+091.09=0+000
SABINE NECHES
PORT ARTHUR, TEXAS

Sabine Nечес Waterway: Sabine Bank Channel



Regional Extent



93°45'30"W

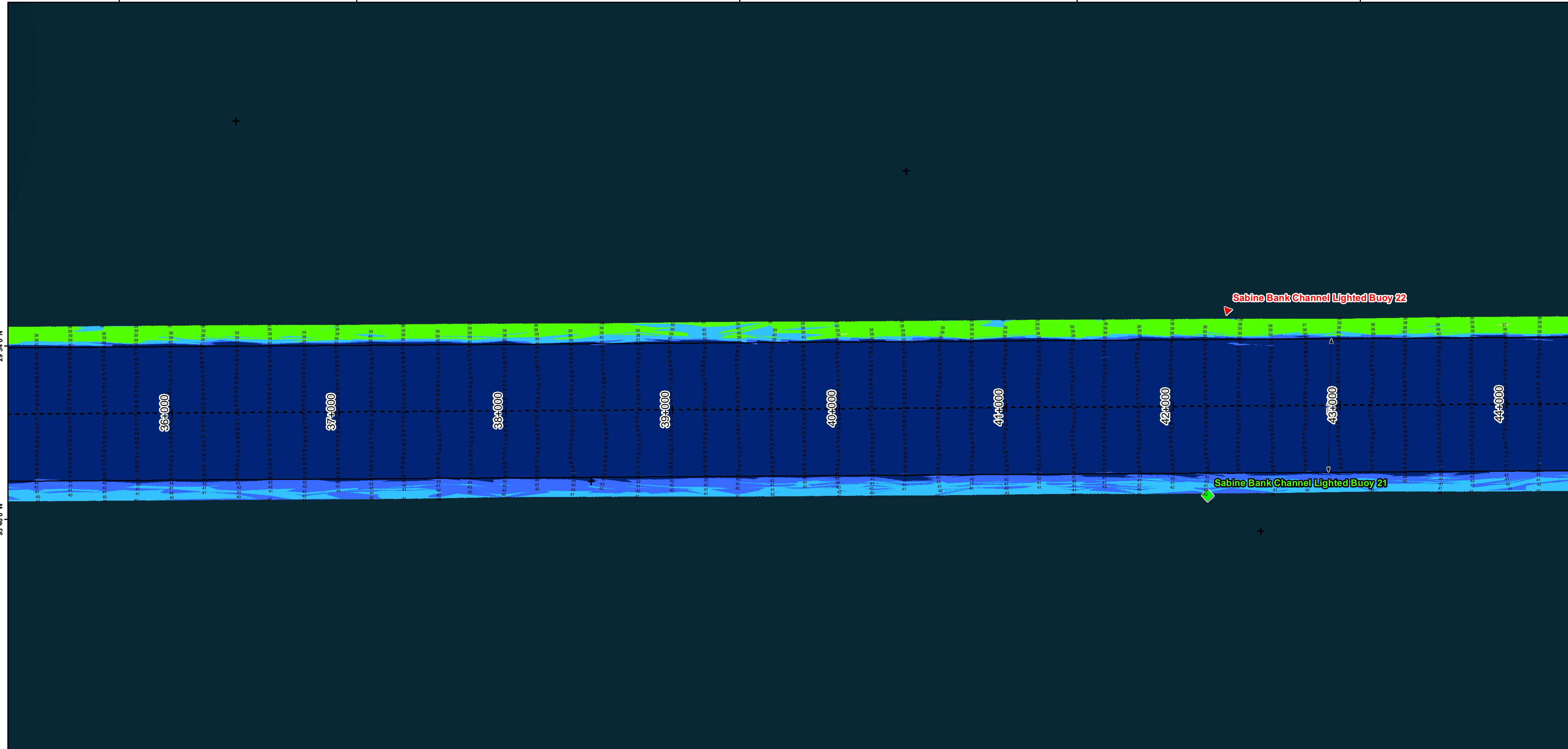
29°34'0"N

93°45'0"W

29°33'30"N

93°44'30"W

29°33'0"N



Channel Features

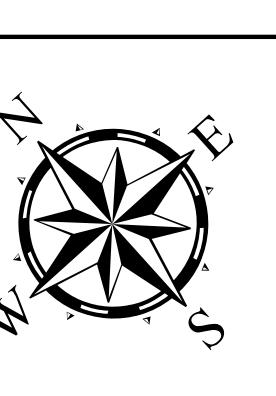
	Aids to Navigation	MLLW
Channel Toe	Lights	0 - 25 25 - 30 30 - 34 34 - 36 36 - 38 38 - 40 40 - 42 42 - 44 44 ^
Channel Center Line	Red Side Aids	0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50
Channel Station Lines	Green Side Aids	
Channel Dimensions	Mooring Buoy	

NOTES:

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- NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) SURVEYS CONDUCTED BY THE NOAA COASTAL SURVEY AND CO-CONDUCTED SURVEY AVAILABLE FROM THE COASTAL GEOPHYSICAL CENTER. SURVEY DATA AND SURVEY DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION. NOAA NAUTICAL CHARTS PROVIDED VIA RNC MAP SERVICE

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community.
 Esri, Garmin, GEBCO, NOAA NGDC, and other contributors
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
 Projection: Lambert Conformal Conic /Datum: North American 1983

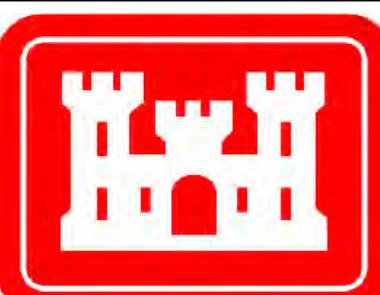
NOAA Nautical Chart Extent
 0 0.375 0.75 1.5 Miles

Hydrographic Survey Extent
 0 295 590 1,180 Feet

HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS
 Station: 95+740.87 to 18+091.09=0+000
 SABINE NEЧЕС
 PORT ARTHUR, TEXAS

Survey Date(s): 27 September 2018	Page: 7 of 72	Map:
Authorized Depth: -42ft.	Side Slope Ratio: (Rise : Run)	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,500	Mapped by: M3AOXPAC	Print Date: 10/3/2018
Additional Info:		

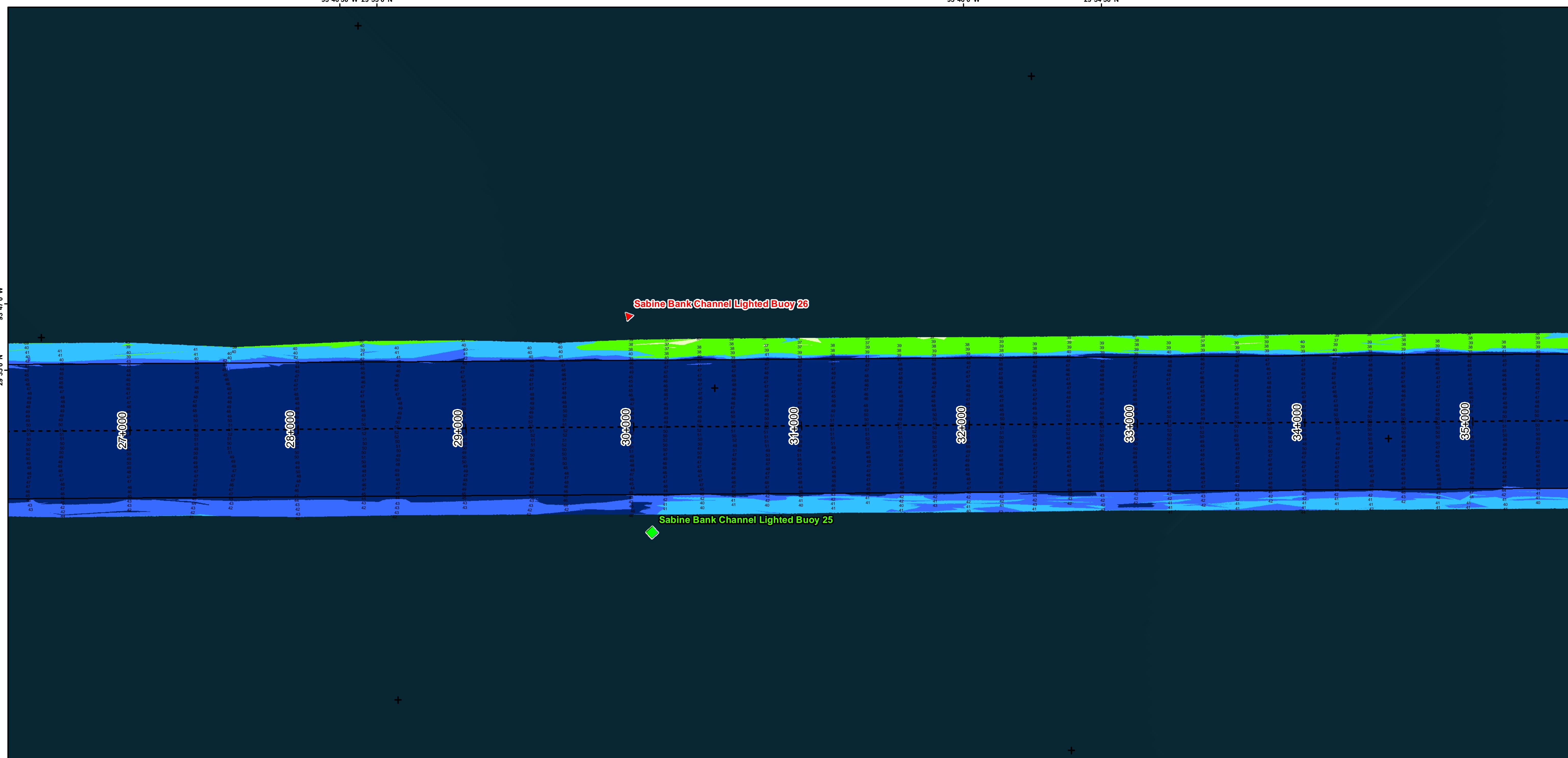
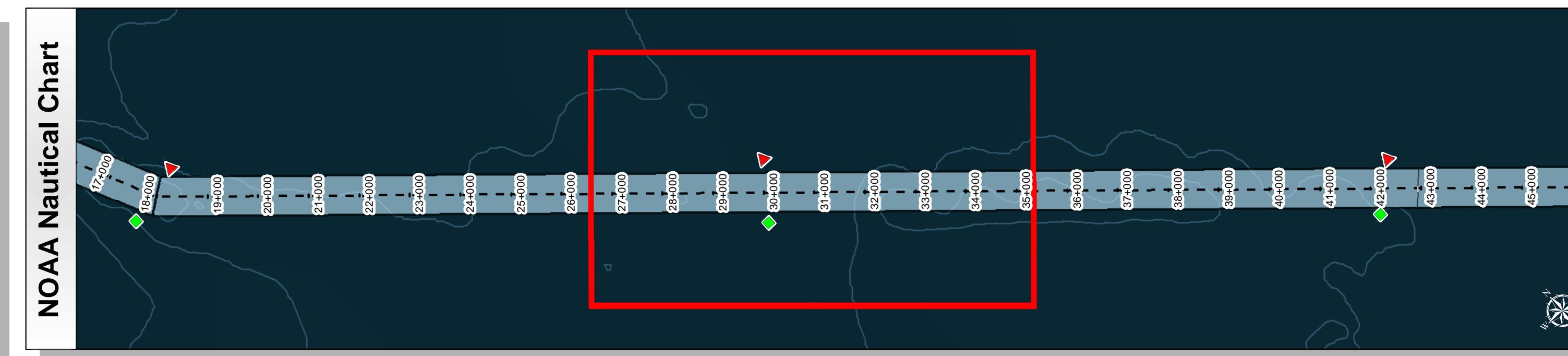
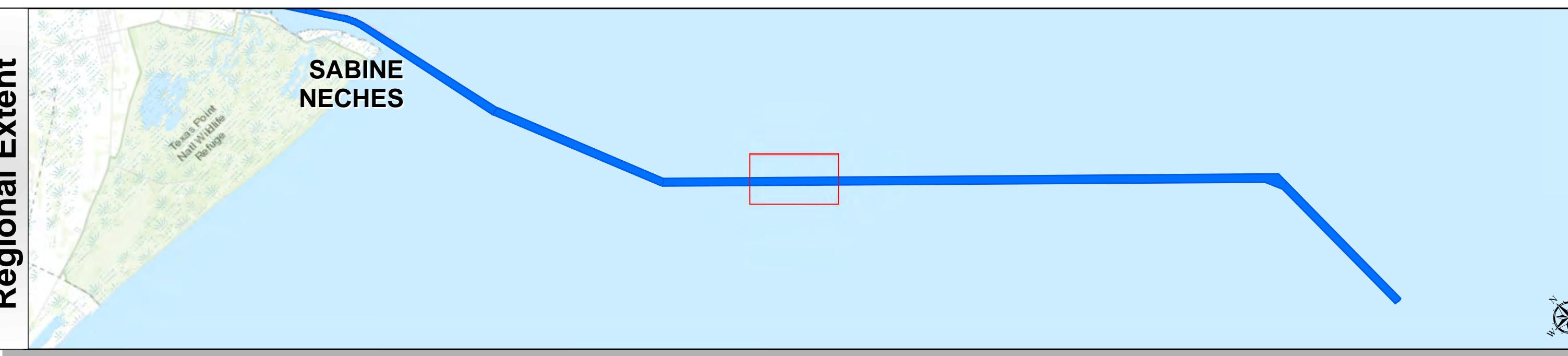
Sabine Neches Waterway: Sabine Bank Channel



U.S. Army Corps of Engineers
Galveston District



Regional Extent



Channel Features	Aids to Navigation	MLLW
Channel Toe	Lights	0 - 25
Channel Center Line	Red Side Aids	25 - 30
Channel Station Lines	Green Side Aids	30 - 34
Channel Dimensions	Moorings	34 - 36
		36 - 38
		38 - 40
		40 - 42
		42 - 44
		44

NOTES:

- HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET.
- ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW TIDE (MLLW) DATUM.
- THIS PROJECT WAS DESIGNED BY THE GALVESTON 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 ER110-1-8152.

4. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE DATES INDICATED AND CAN NOT 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

5. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT [HTTP://WWW.SNG.USACE.ARMY.MILMISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/](http://WWW.SNG.USACE.ARMY.MILMISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/)

6. NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) SURVEYS CONDUCTED BY THE NOAA COASTAL SURVEY AND CO-LOCATED SURVEY AVAILABLE FROM THE NOAA GENERAL SURVEY CENTER. SURVEY DATA AND SURVEY DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION. NOAA NAUTICAL CHARTS PROVIDED VIA RNC MAP SERVICE

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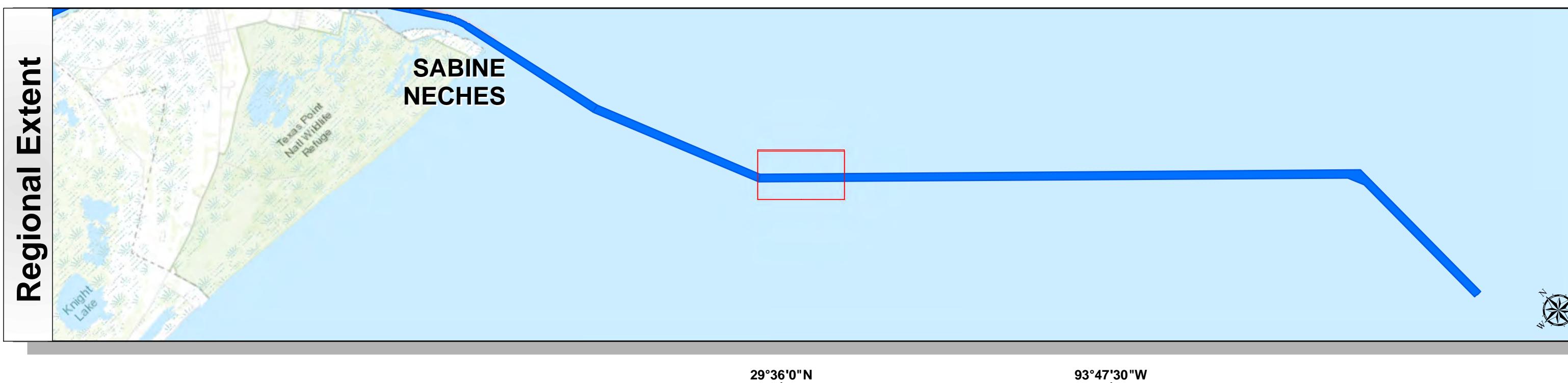
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet	Projection: Lambert Conformal Conic /Datum: North American 1983
NOAA Nautical Chart Extent	0 0.375 0.75 1.5 Miles
Hydrographic Survey Extent	0 295 590 1,180 Feet

HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS
Station: 95+740.87 to 18+091.09=0+000
SABINE NECHES
PORT ARTHUR, TEXAS

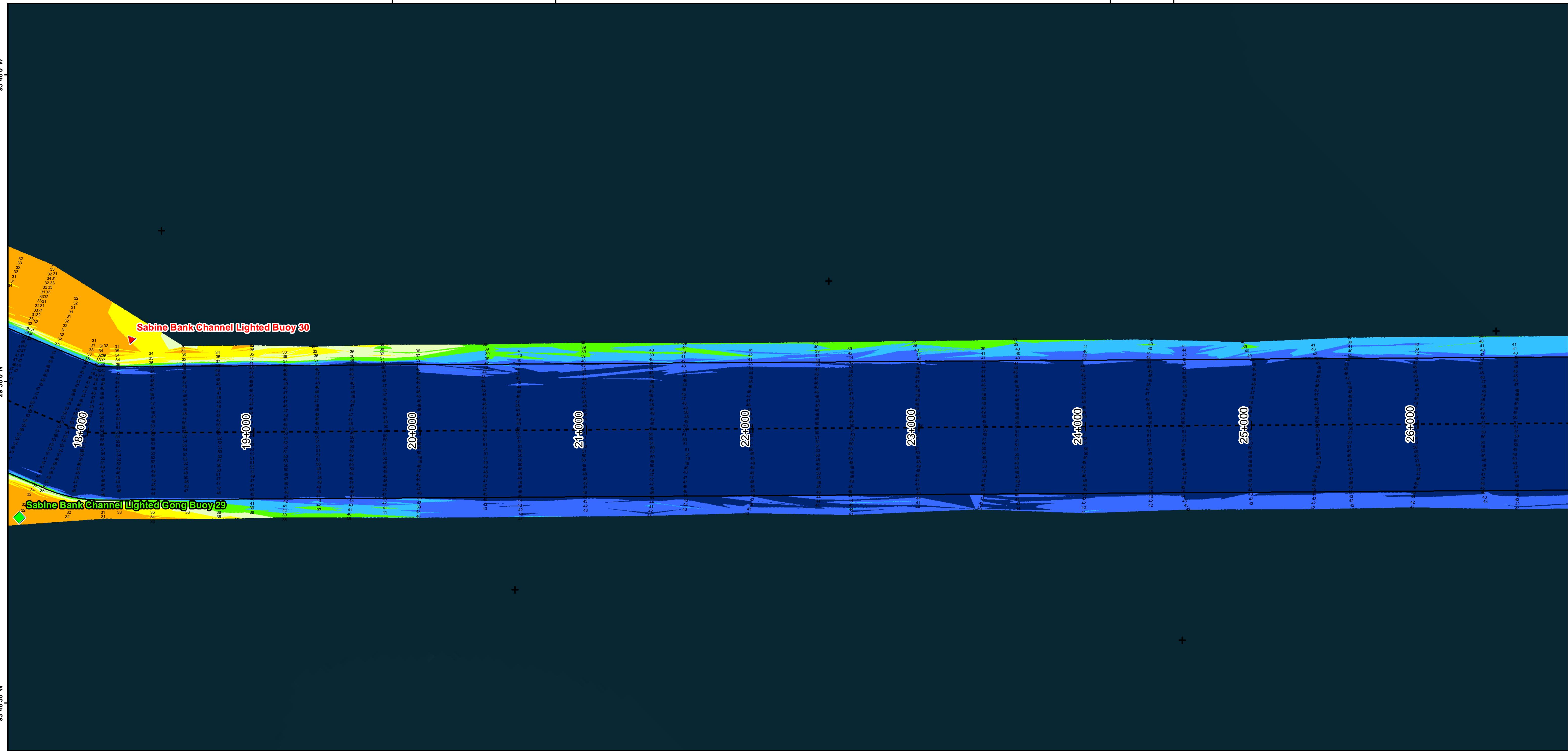
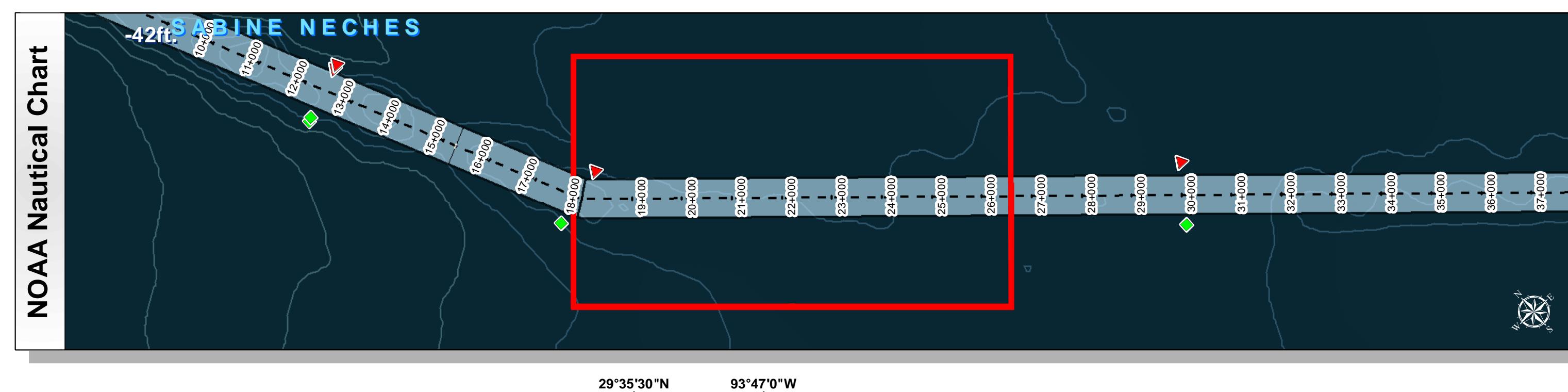
Sabine Neches Waterway: Sabine Bank Channel



Regional Extent



NOAA Nautical Chart



Survey Date(s): 27 September 2018	Authorized Depth: -42ft.
Page: 9 of 72	Side Slope Ratio: (Rise : Run)
Scale: 1:3,500	Additional Imagery: © DigitalGlobe Inc.
Mapped by: M3AOXPAC	Print Date: 10/3/2018
Additional Info:	

HYDROGRAPHIC SURVEY		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS GALVESTON, TEXAS		
Station: 95+740.87 to 18+091.09=0+000	SABINE NECHES	PORT ARTHUR, TEXAS
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet	Projection: Lambert Conformal Conic /Datum: North American 1983	
Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community	NOAA Nautical Chart Extent	
1. HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET.	0 0.375 0.75 1.5 Miles	
2. ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW TIDE (MLLW) DATUM.	Hydrographic Survey Extent	
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