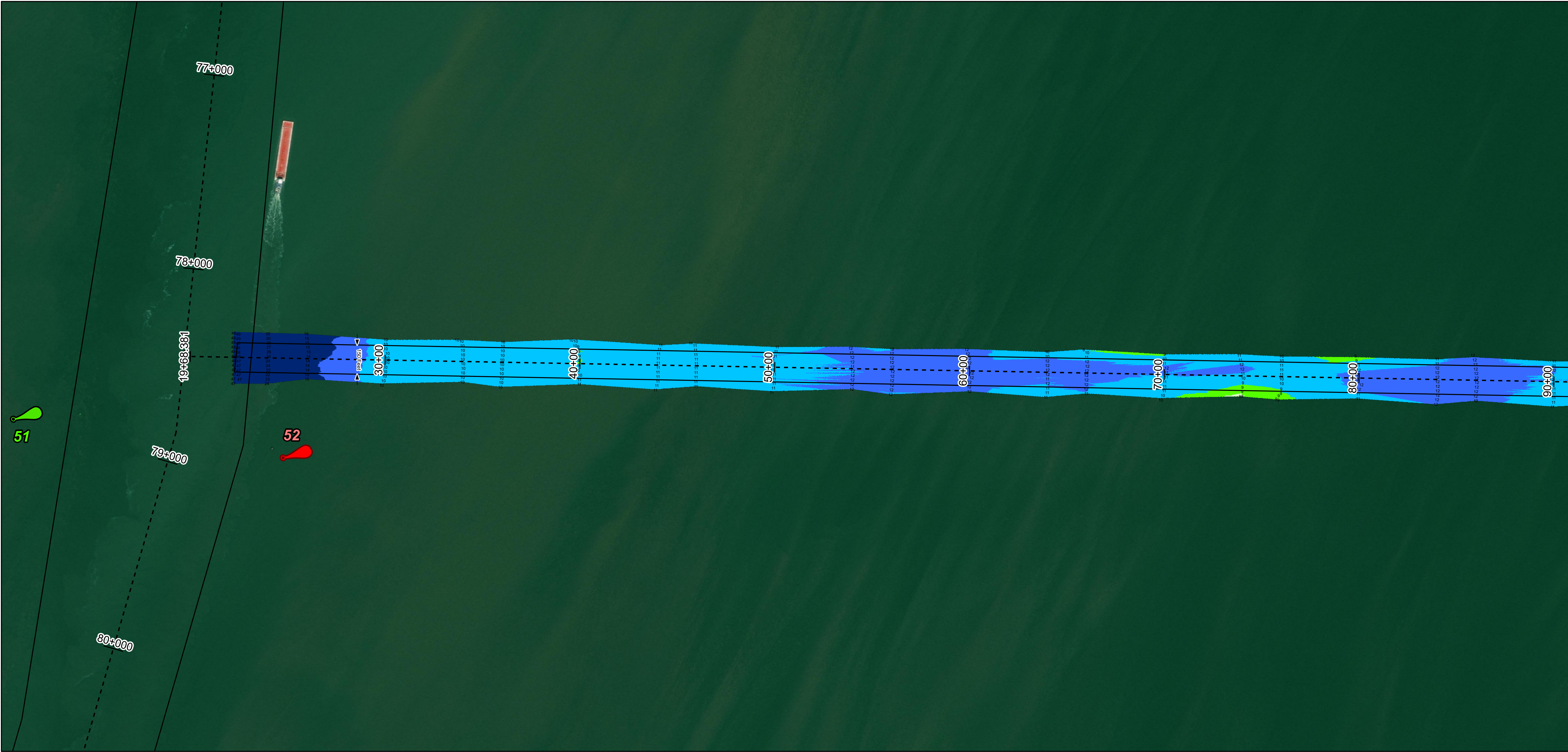
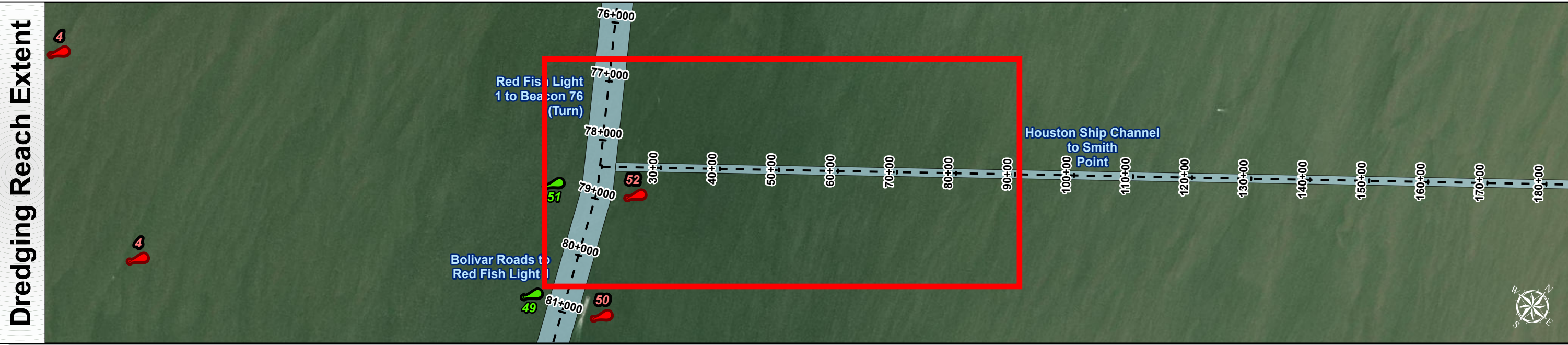
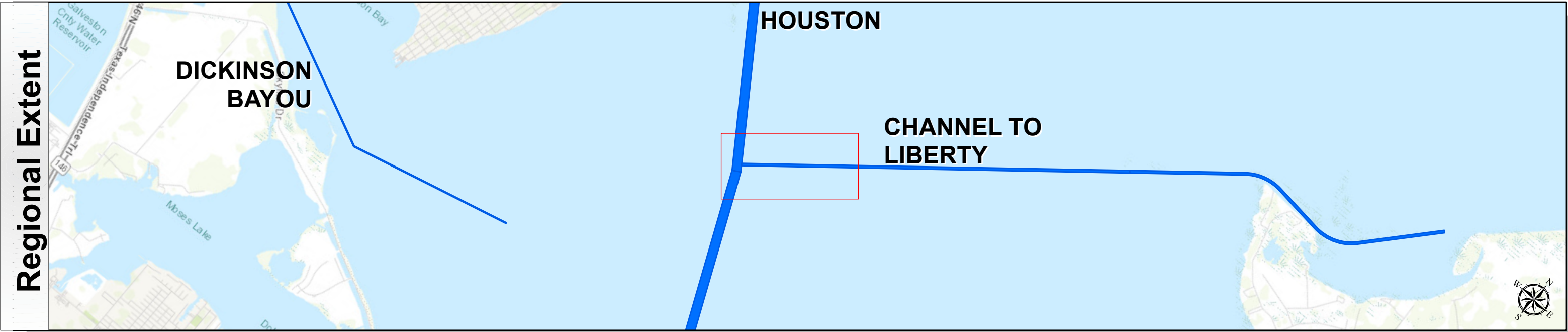
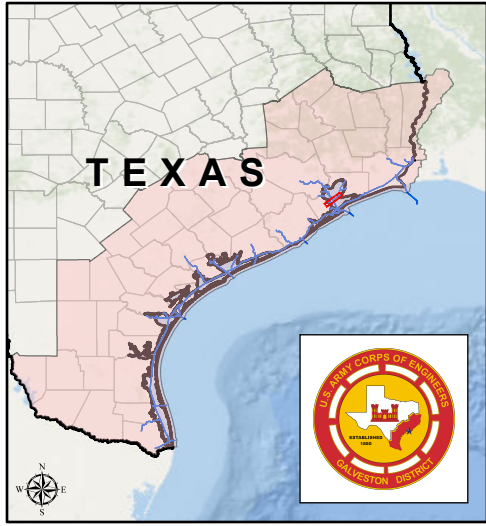
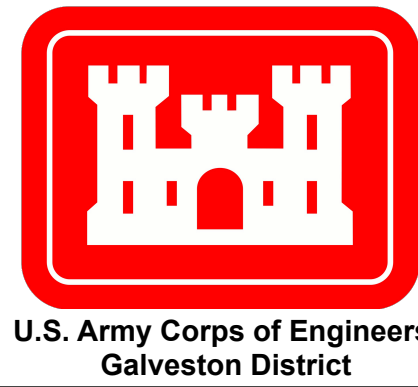


# Channel to Liberty: Houston Ship Channel to Smith Point



**Channel Features**

- Channel Center Line
- Channel Toe
- Channel Station Lines
- Channel Dimensions

**Aids to Navigation**

- Green Side Aids
- Red Side Aids
- Lights

**MLLW**

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14

**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 47 CFR 111.111-111.112.
- 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.
- For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>

Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA, EPA, USDA  
World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

**Additional Combined Survey Dates and Stationing:**

Combined survey dates 20220707; 20230815\_PR\_CS\_22P27\_250P00

**Coordinate System:** NAD 1983 StatePlane Texas South Central FIPS 4204 Feet  
**Projection:** Lambert Conformal Conic

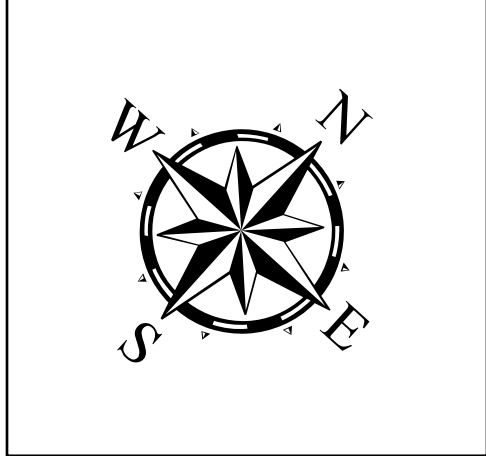
**Dredging Reach Extent**

0 0.3 0.6 1.2 Miles

**Hydrographic Survey Extent**

0 255 510 1,020 Feet

Latest Survey Collection Date: 15 August 2023		Authorized Depth: -10ft.
Document Page: 1 of 7	Website Index Number: 1	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000		PDF Print Date: 12/5/2023
Mapped by: M3AOXPAC		
Additional Imagery info:		



**HYDROGRAPHIC SURVEY**

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

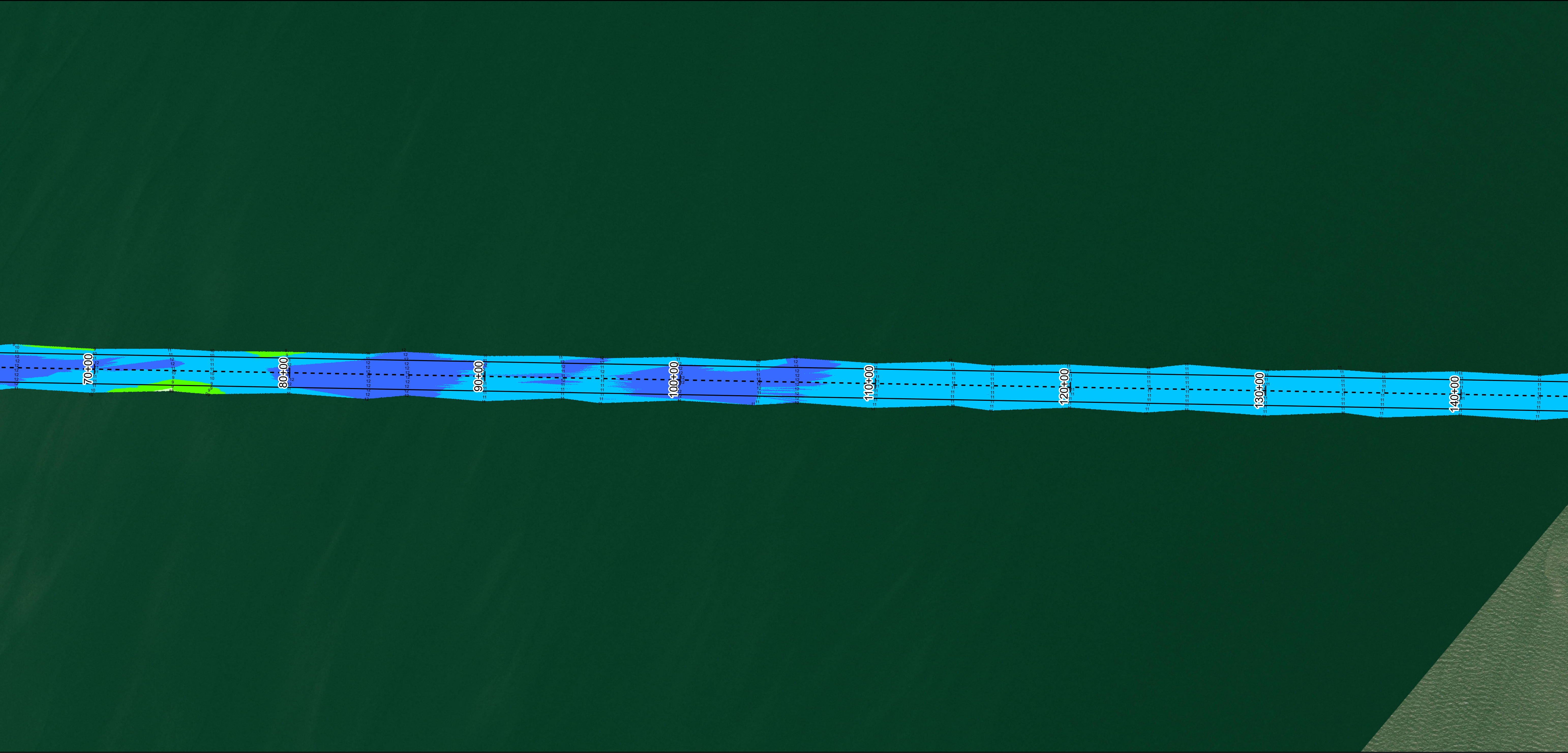
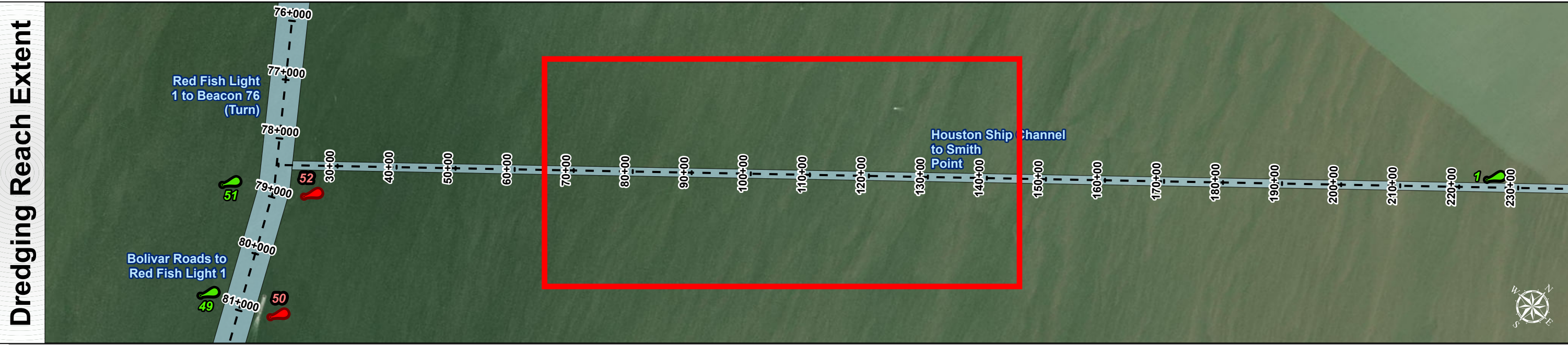
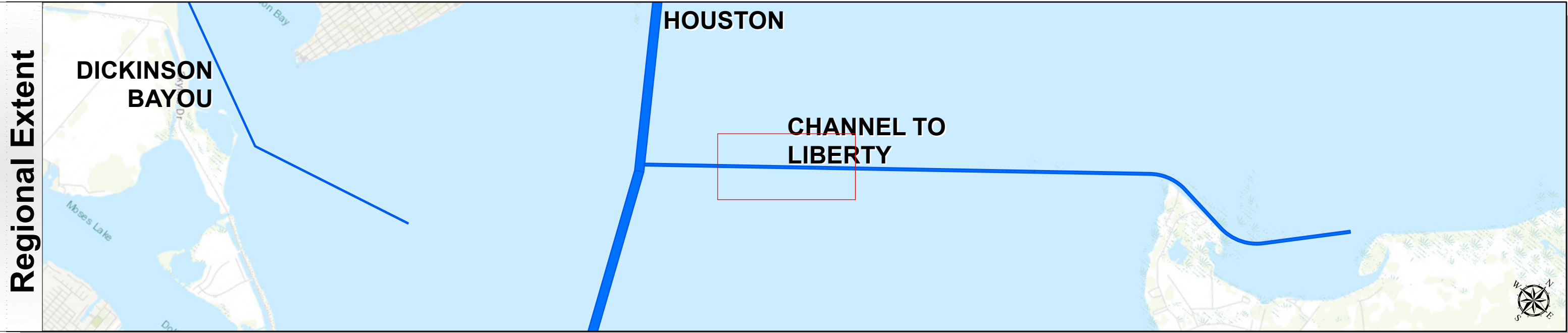
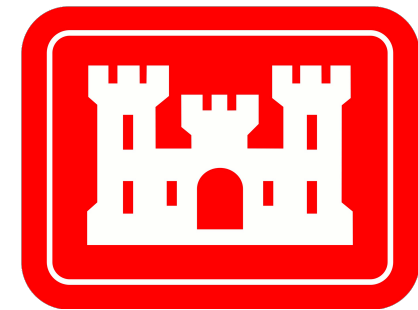
**Station: 19+68.381 to 450+00**

**CHANNEL TO LIBERTY**

Houston Ship Channel to Smith Point



# Channel to Liberty: Houston Ship Channel to Smith Point



**Channel Features**

- Channel Center Line
- Channel Toe
- Channel Station Lines
- Channel Dimensions

**Aids to Navigation**

- Green Side Aids
- Red Side Aids
- Lights

**MLLW**

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14

**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 47 CFR 111.05-01152.
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- For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>

Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA  
World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

**Additional Combined Survey Dates and Stationing:**

Combined survey dates 20220707; 20230815\_PR\_CS\_22P27\_250P00

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

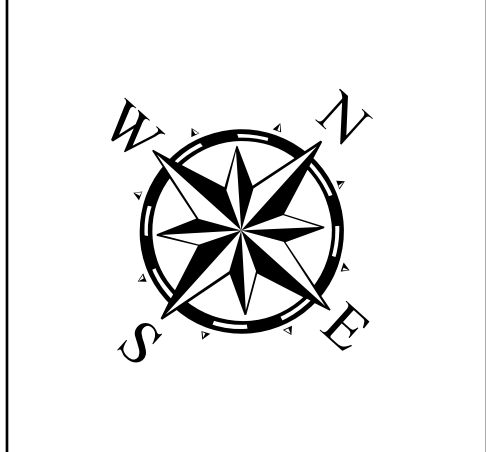
**Dredging Reach Extent**

0 0.3 0.6 1.2 Miles

**Hydrographic Survey Extent**

0 255 510 1,020 Feet

Latest Survey Collection Date: 15 August 2023		Authorized Depth: -10ft.
Document Page: 2 of 7	Website Index Number: 2	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000		PDF Print Date: 12/5/2023
Mapped by: M3AOXPAC		
Additional Imagery info:		



**HYDROGRAPHIC SURVEY**

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

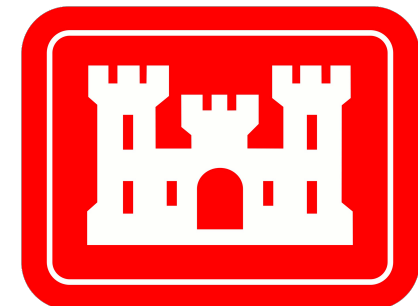
**Station: 19+68.381 to 450+00**

**CHANNEL TO LIBERTY**

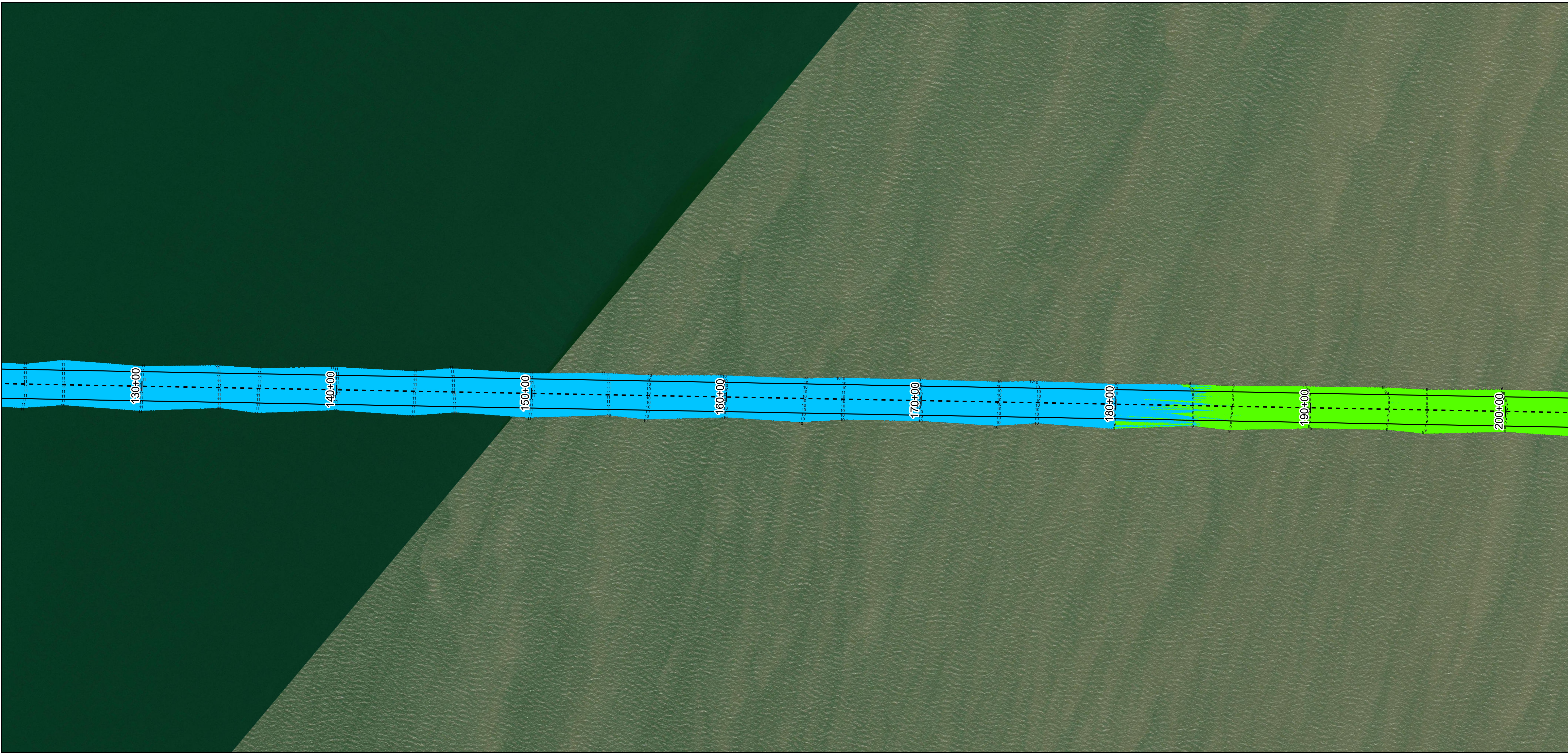
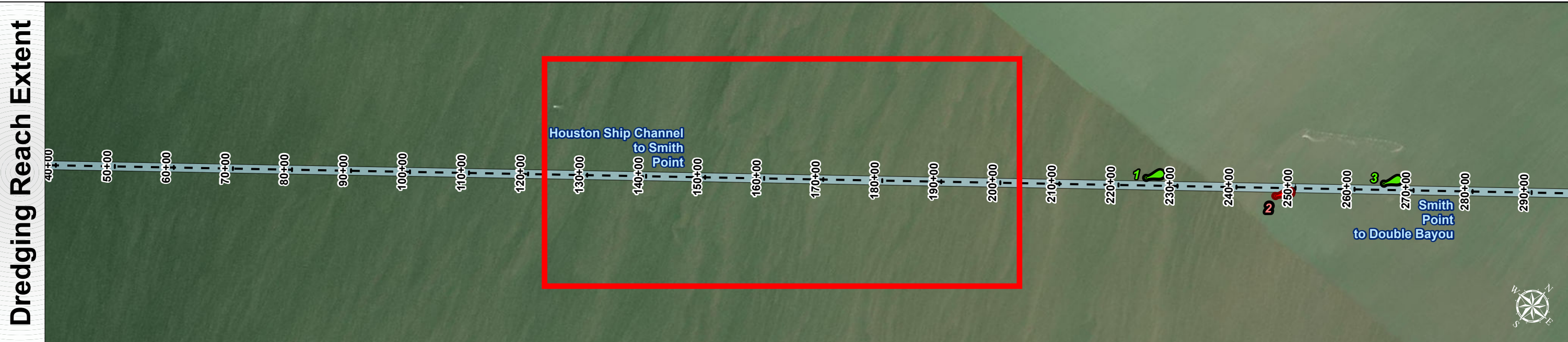
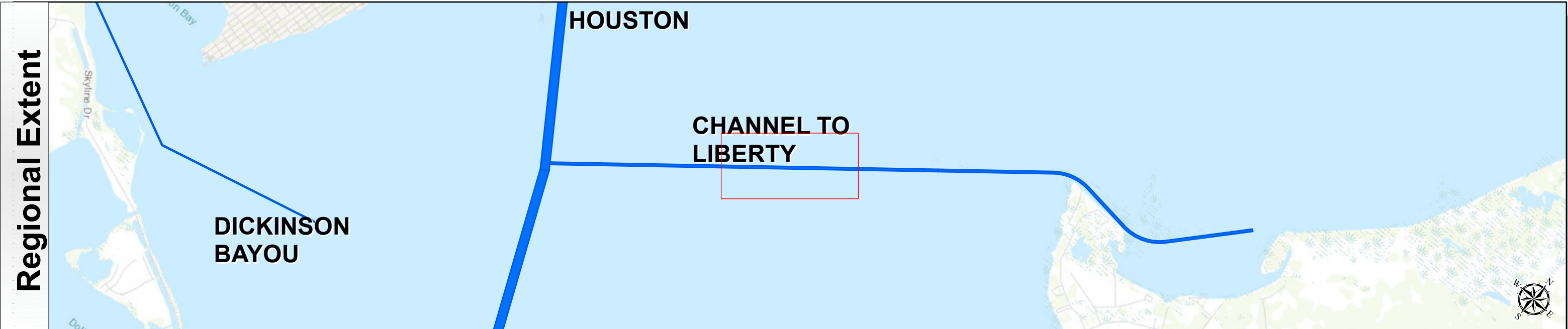
Houston Ship Channel to Smith Point



# Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers  
Galveston District



**Channel Features**

- Channel Center Line
- Channel Toe
- Channel Station Lines
- Channel Dimensions

**Aids to Navigation**

- Green Side Aids
- Red Side Aids
- Lights

**MLLW**

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14

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 47 CFR 111.11-111.12.  
4. 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.  
5. For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>

Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA, EPA, USDA  
World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:  
Combined survey dates 20220707; 20230815\_PR\_CS\_22P27\_250P00

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

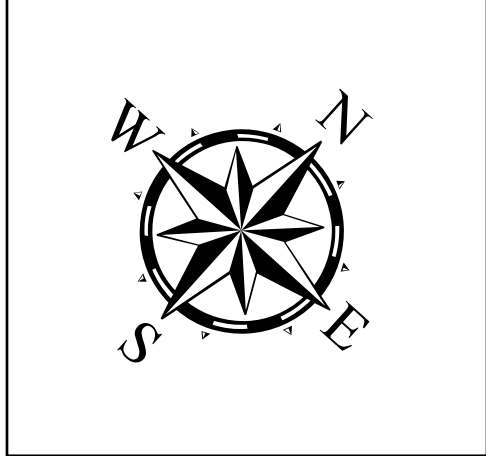
Dredging Reach Extent

0 0.3 0.6 1.2 Miles

Hydrographic Survey Extent

0 255 510 1,020 Feet

Latest Survey Collection Date: 15 August 2023		Authorized Depth: -10ft.
Document Page: 3 of 7	Website Index Number: 3	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000		PDF Print Date: 12/5/2023
Mapped by: M3AOXPAC		
Additional Imagery info:		

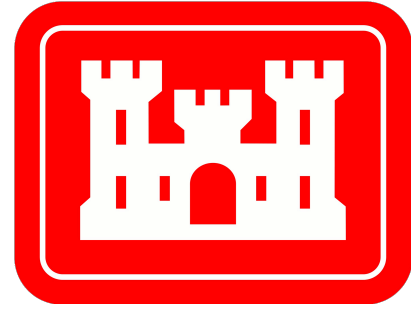


**HYDROGRAPHIC SURVEY**  
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

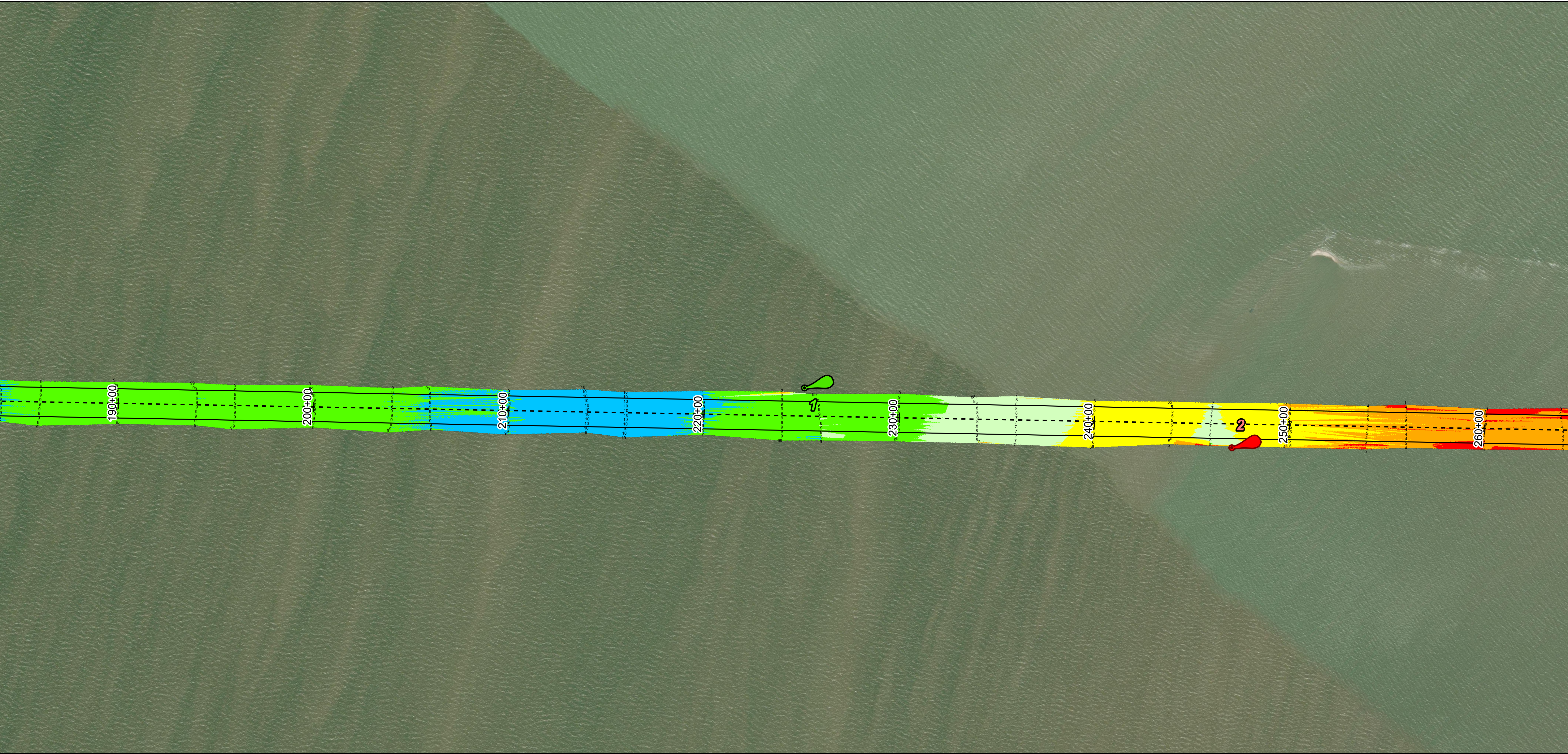
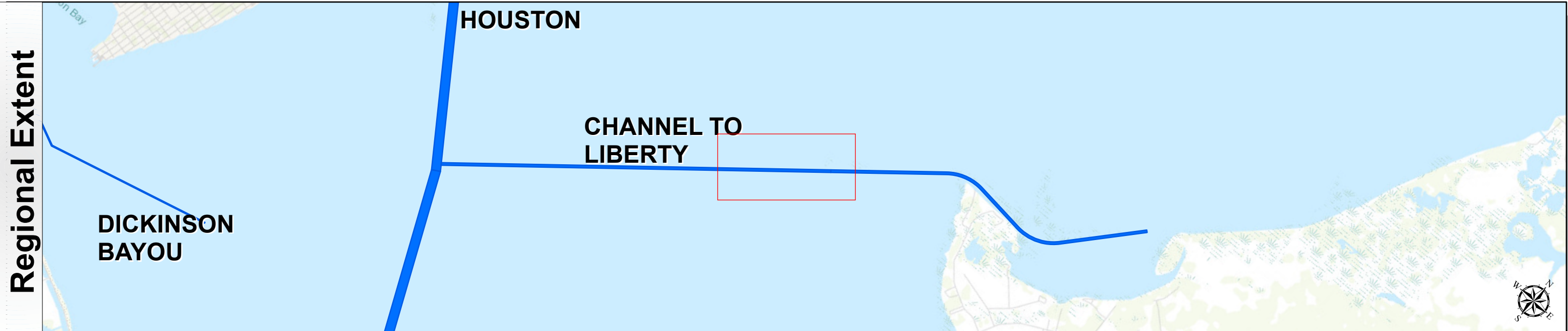
**Station: 19+68.381 to 450+00**  
**CHANNEL TO LIBERTY**  
Houston Ship Channel to Smith Point



# Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers  
Galveston District



**Channel Features**

- Channel Center Line
- Channel Toe
- Channel Station Lines
- Channel Dimensions

**Aids to Navigation**

- Green Side Aids
- Red Side Aids
- Lights

**MLLW**

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14
Red	Orange	Yellow	Light Green	Green	Dark Green	Blue	Dark Blue	Black

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 47 CFR 111.110-1 and 112.  
4. 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  
5. For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>

Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA  
World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:  
Combined survey dates 20220707; 20230815\_PR\_CS\_22P27\_250P00

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

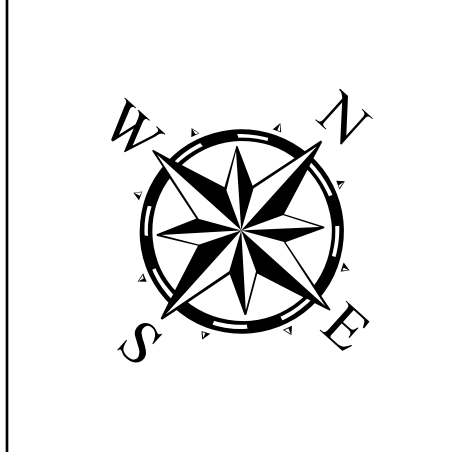
Dredging Reach Extent

0 0.3 0.6 1.2 Miles

Hydrographic Survey Extent

0 255 510 1,020 Feet

Latest Survey Collection Date: 15 August 2023		Authorized Depth: -10ft.
Document Page: 4 of 7	Website Index Number: 4	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000		PDF Print Date: 12/5/2023
Mapped by: M3AOXPAC		
Additional Imagery info:		

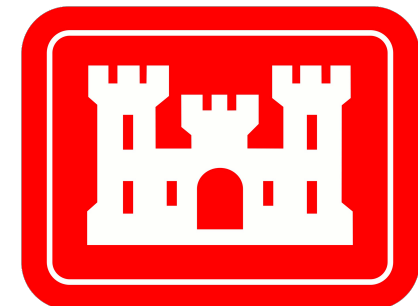


**HYDROGRAPHIC SURVEY**  
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 19+68.381 to 450+00**  
**CHANNEL TO LIBERTY**  
Houston Ship Channel to Smith Point



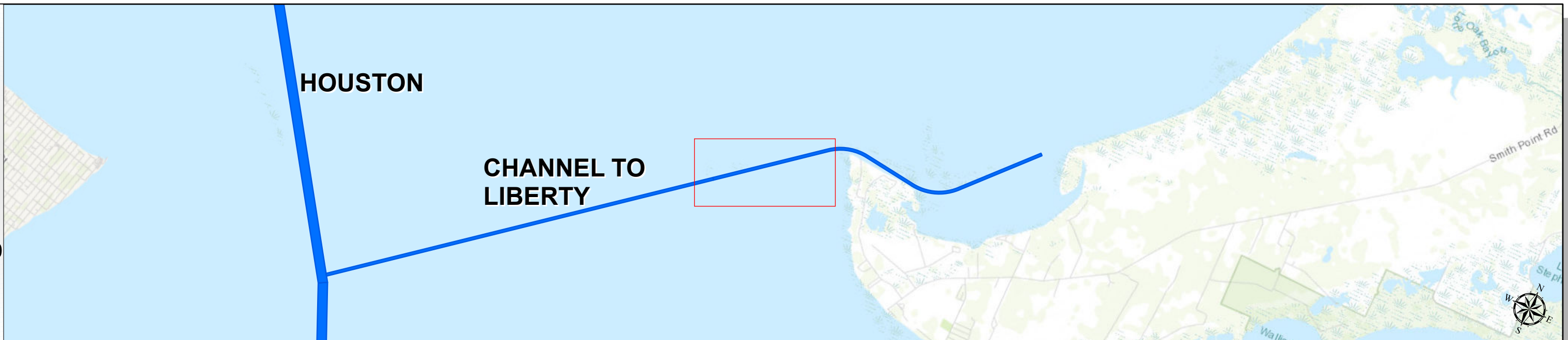
# Channel to Liberty: Houston Ship Channel to Smith Point



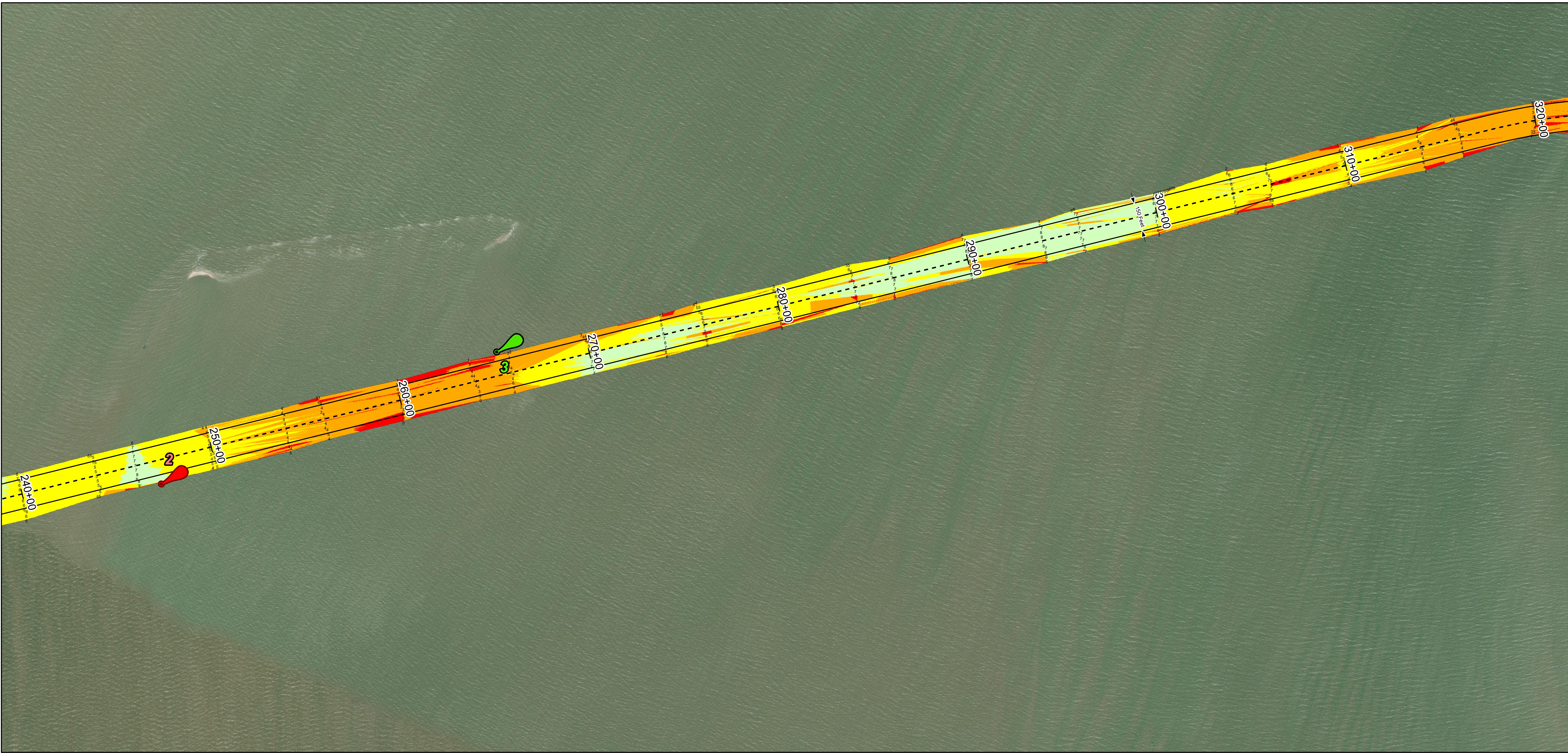
U.S. Army Corps of Engineers  
Galveston District



Regional Extent



Dredging Reach Extent



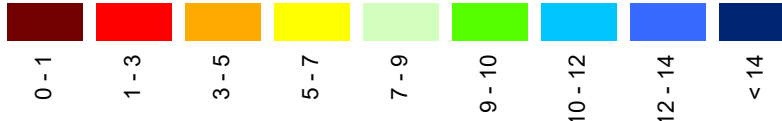
## Channel Features

- Channel Center Line
- Channel Toe
- Channel Station Lines
- Channel Dimensions

## Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

## MLLW

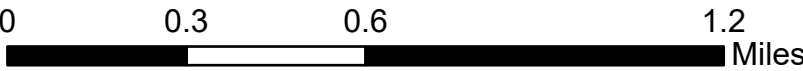


NOTES:  
1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.  
2. Elevations are referenced to mean lower low tide (MLLW) datum.  
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Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, MET/NASA, NGA, EPA, USDA  
World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

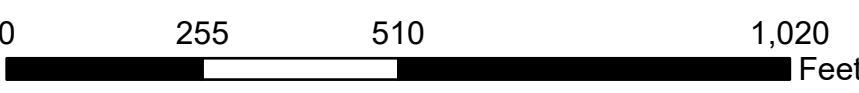
Additional Combined Survey Dates and Stationing:  
Combined survey dates 20220707; 20230815\_PR\_CS\_22P27\_250P00

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

## Dredging Reach Extent



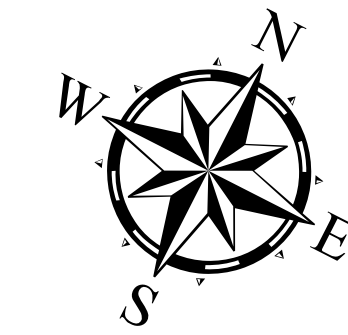
## Hydrographic Survey Extent



## HYDROGRAPHIC SURVEY

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

Station: 19+68.381 to 450+00  
CHANNEL TO LIBERTY  
Houston Ship Channel to Smith Point



Latest Survey Collection Date: 15 August 2023

Document Page: 5 of 7

Scale: 1:3,000

Website Index Number: 5

Authorized Depth: -10ft.

Side Slope Ratio: (Rise : Run)

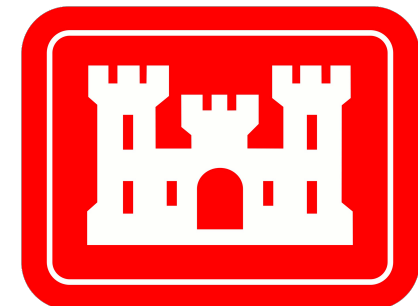
PDF Print Date: 12/5/2023

Mapped by: M3AOXPAC

Additional Imagery info:



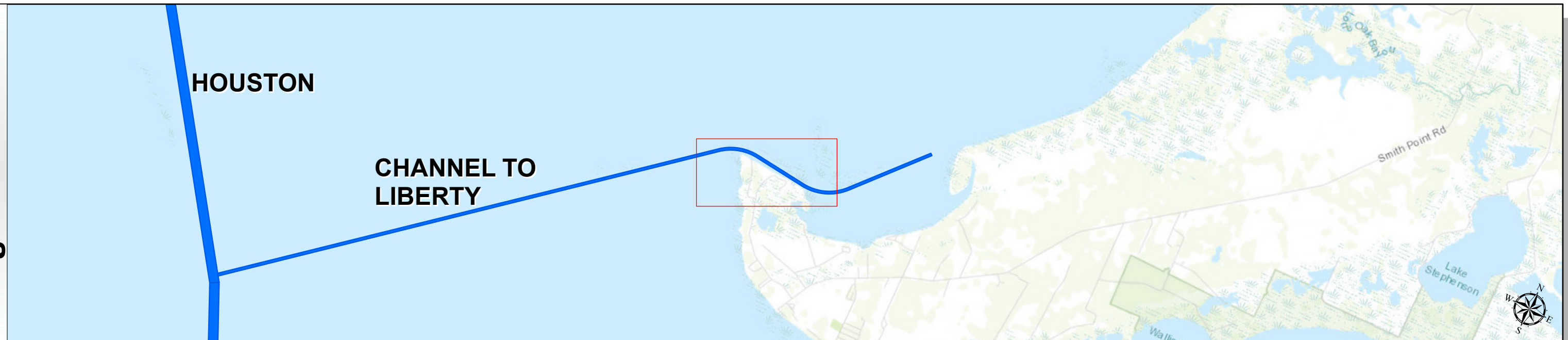
# Channel to Liberty: Houston Ship Channel to Smith Point



U.S. Army Corps of Engineers  
Galveston District



Regional Extent



Dredging Reach Extent



## Channel Features

- Channel Center Line
- Channel Toe
- Channel Station Lines
- Channel Dimensions

## Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

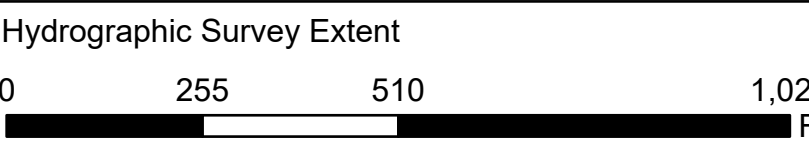
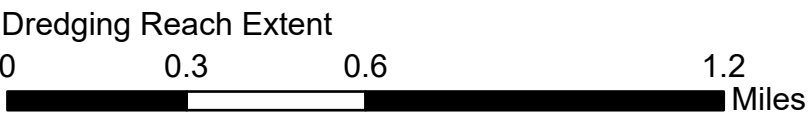
## MLLW



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 47CFR 117.15-117.16.  
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5. For the most up to date information please check our website at: <http://www.usace.army.mil/Missions/Navigation/HydrographicSurveys/>  
Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, MET/NASA, NGA, EPA, USDA  
World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

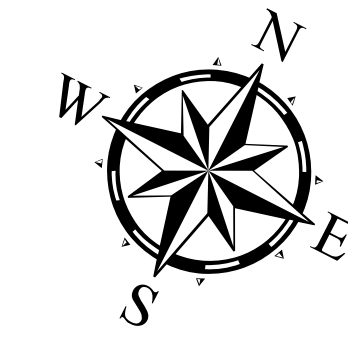
Additional Combined Survey Dates and Stationing:  
Combined survey dates 20220707; 20230815\_PR\_CS\_22P27\_250P00

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



## HYDROGRAPHIC SURVEY

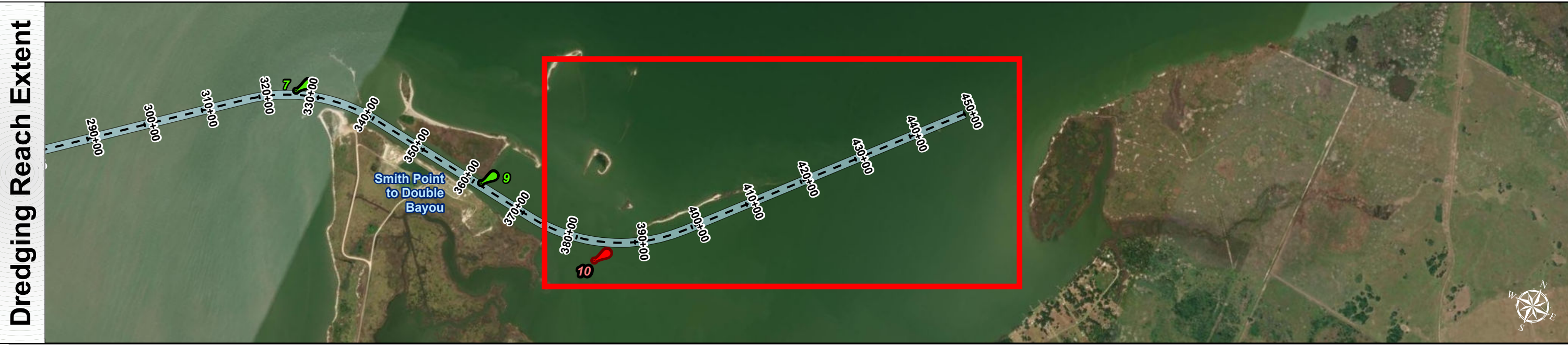
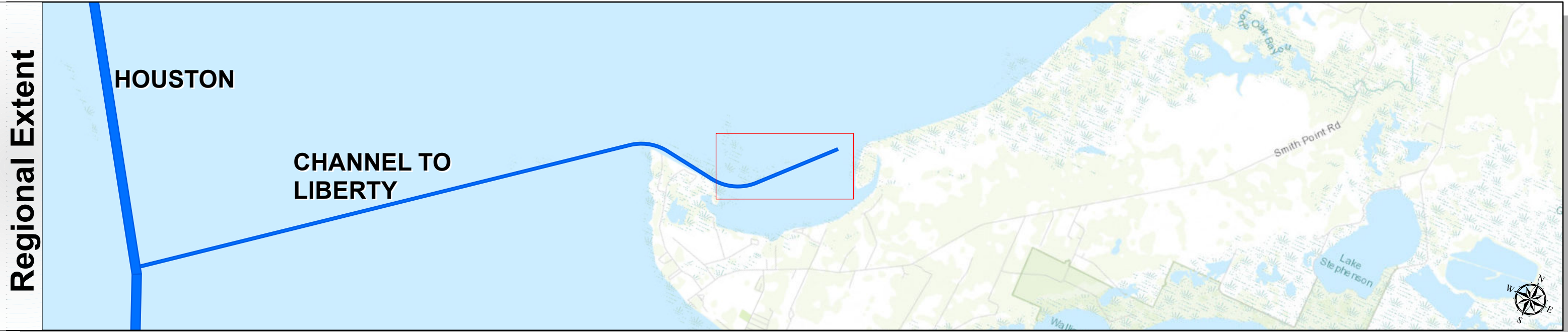
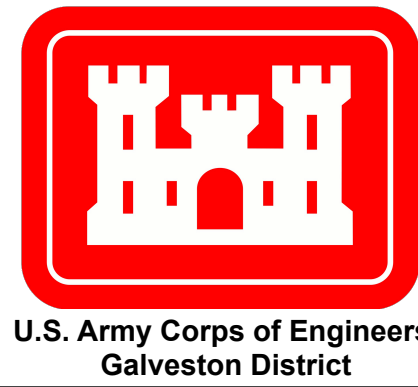
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS  
**Station: 19+68.381 to 450+00**  
**CHANNEL TO LIBERTY**  
Houston Ship Channel to Smith Point



Latest Survey Collection Date: 15 August 2023		Authorized Depth: ~10ft.	
Document Page: 6 of 7	Website Index Number: 6	Side Slope Ratio: (Rise : Run)	
Scale: 1:3,000		PDF Print Date: 12/5/2023	
Mapped by: M3AOXPAC			
Additional Imagery info:			



# Channel to Liberty: Houston Ship Channel to Smith Point



**Channel Features**

- Channel Center Line
- Channel Toe
- Channel Station Lines
- Channel Dimensions

**Aids to Navigation**

- Green Side Aids
- Red Side Aids
- Lights

**MLLW**

0 - 1	1 - 3	3 - 5	5 - 7	7 - 9	9 - 10	10 - 12	12 - 14	< 14

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.
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- For the most up to date information please check our website at: <http://www.svg.usace.army.mil/Missions/Navigation/HydrographicSurveys/>

Service Layer Credits: World Topographic Map: Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA, EPA, USDA  
World Imagery: Maxar  
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

Combined survey dates 20220707; 20230815\_PR\_CS\_22P27\_250P00

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

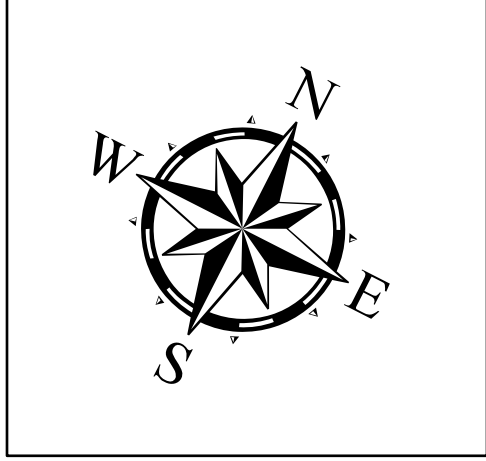
**Dredging Reach Extent**

0 0.3 0.6 1.2 Miles

**Hydrographic Survey Extent**

0 255 510 1,020 Feet

Latest Survey Collection Date: 15 August 2023		Authorized Depth: -10ft.
Document Page: 7 of 7	Website Index Number: 7	Side Slope Ratio: (Rise : Run)
Scale: 1:3,000		PDF Print Date: 12/5/2023
Mapped by: M3AOXPAC		
Additional Imagery info:		



**HYDROGRAPHIC SURVEY**

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 19+68.381 to 450+00**

**CHANNEL TO LIBERTY**

Houston Ship Channel to Smith Point