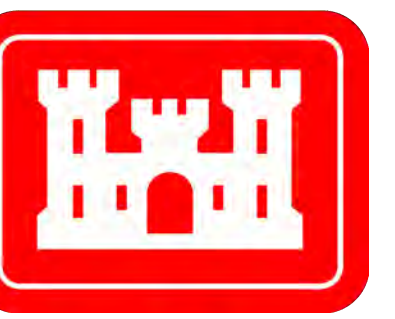
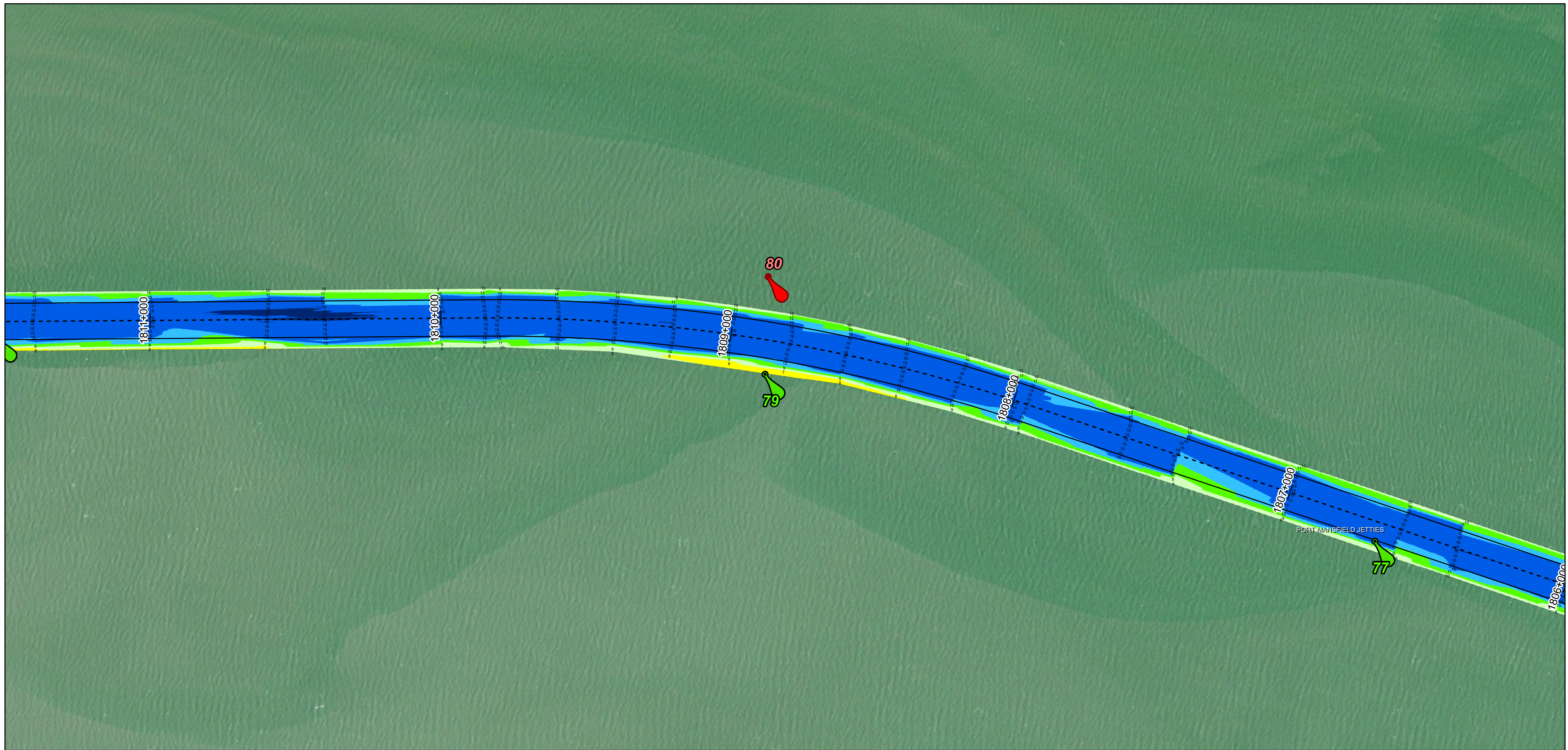
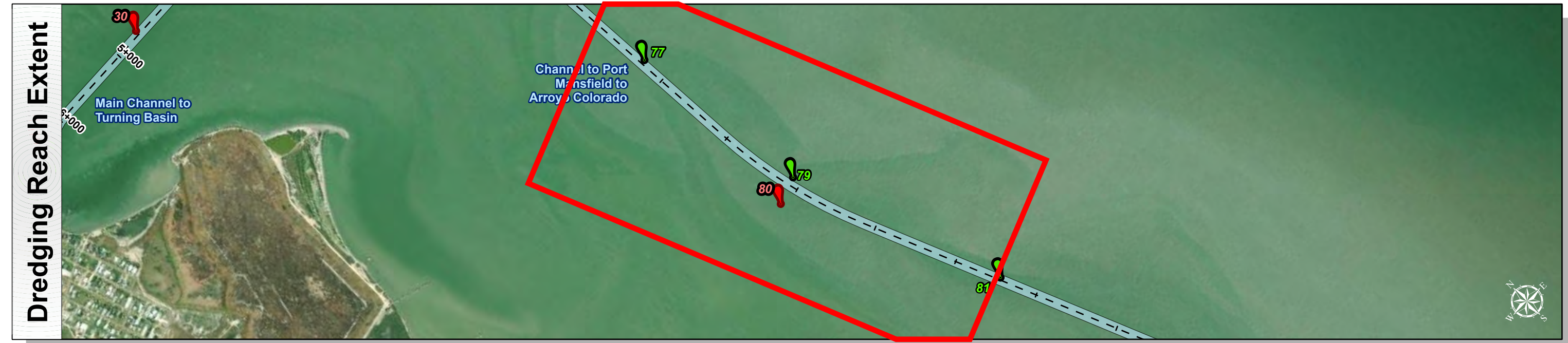
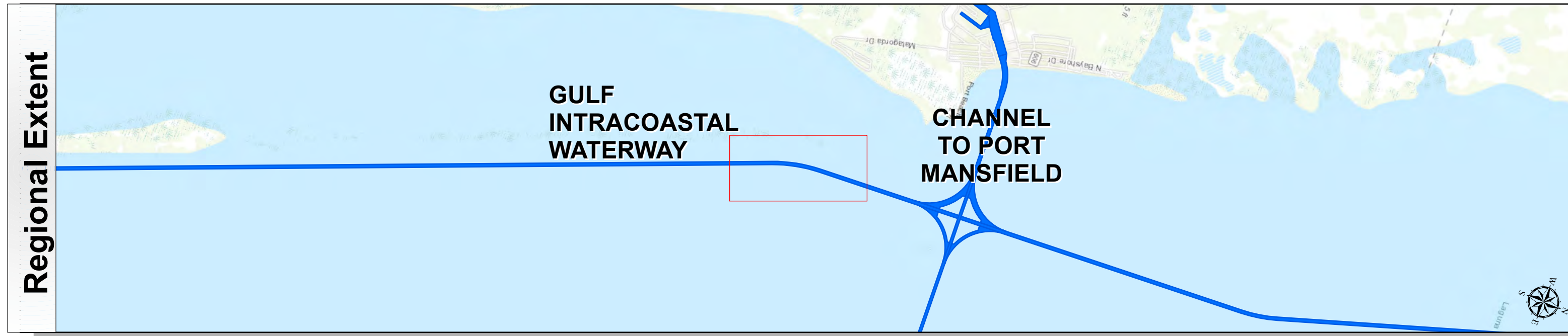


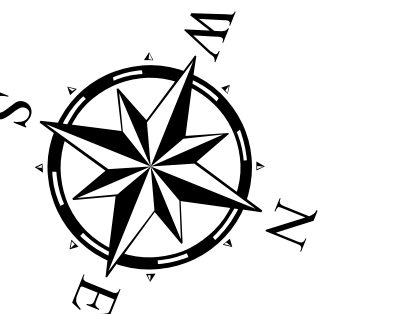
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 2 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	PDF Print Date: 3/10/2023
Mapped by: M3AOXPAC	
Additional Imagery info:	
Website Index Number: 301	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	0 - 3
— Channel Toe	Red Side Aids	3 - 5
— Channel Station Lines	Lights	5 - 7
↔ Channel Dimensions		7 - 9
		9 - 11
		11 - 13
		13 - 15
		15 - 17
		< 17

NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 117.1-117.12.
- 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 Ocean Base, Esri, GEBCO, Delorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

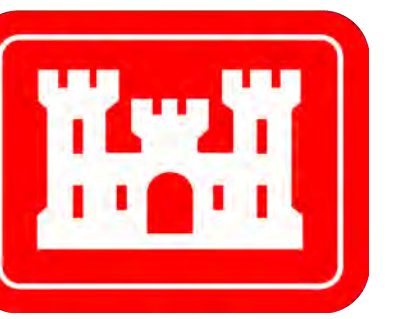
Hydrographic Survey Extent

0 170 340 680 Feet

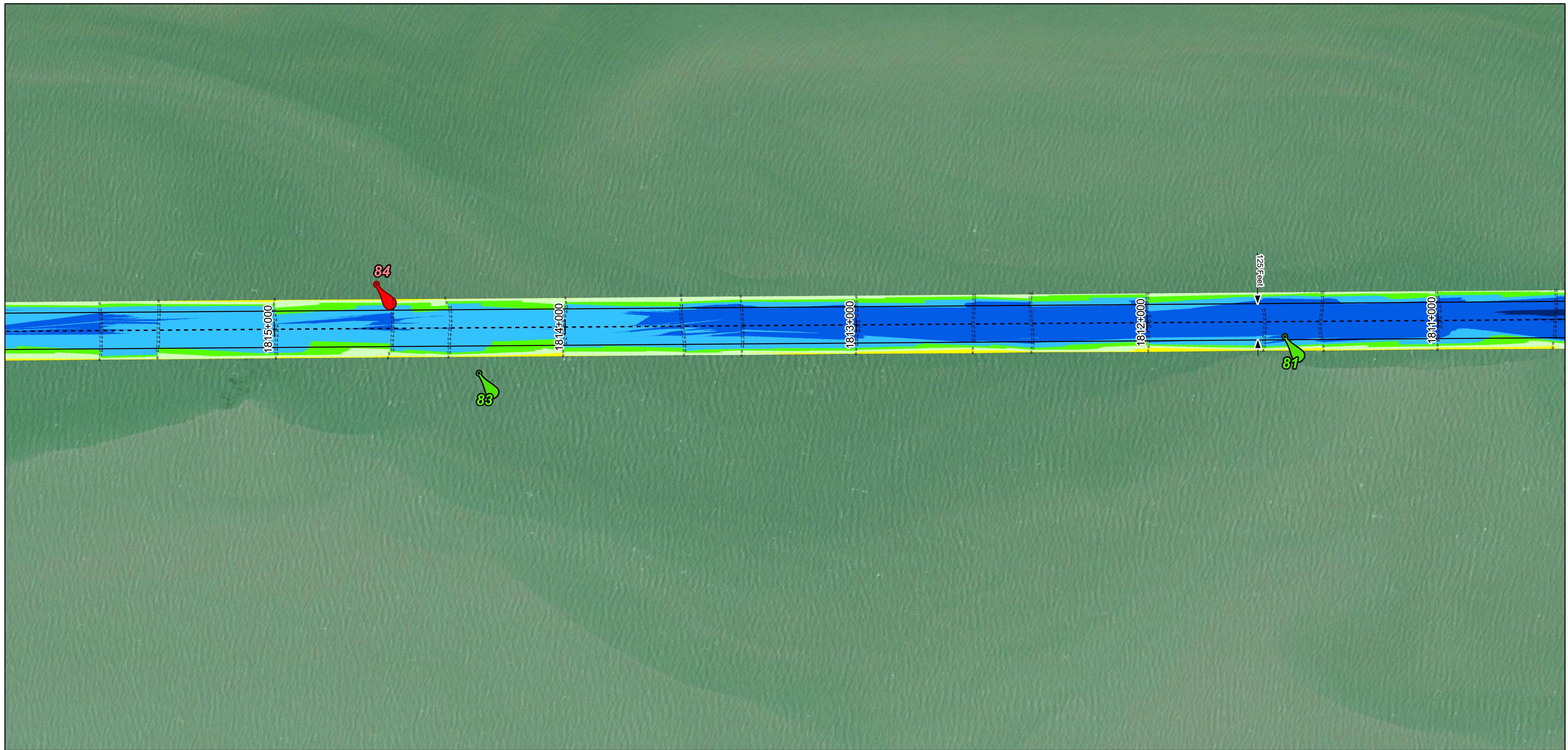
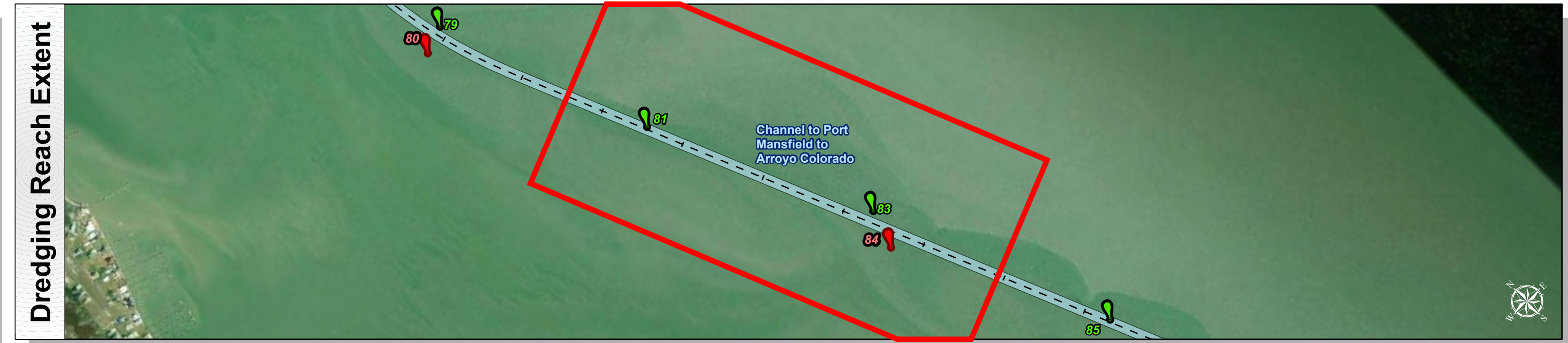
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

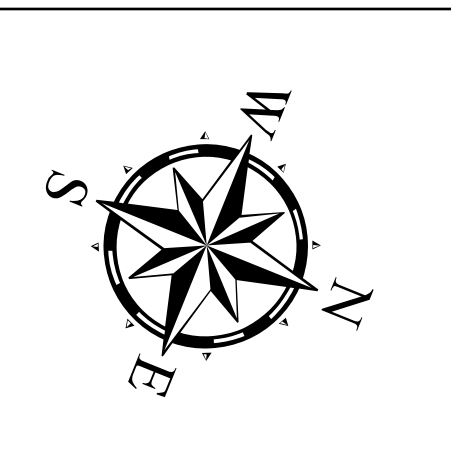
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 3 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	PDF Print Date: 3/10/2023
Mapped by: M3AOXPAC	
Website Index Number: 302	
Additional Imagery info:	



Channel Features

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

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

LWD

0 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17	< 17
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NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 er1110-d152.
- 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 209.225
- 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 Ocean Base; Esri; GEBCO; Delorme; NaturalVue
World Imagery; Maxar; Microsoft
World Imagery; Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

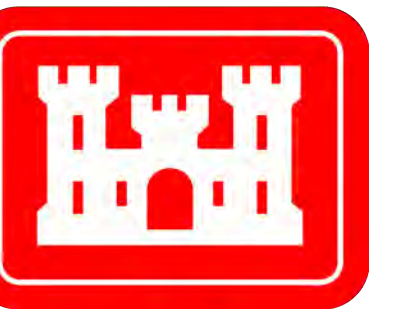
Hydrographic Survey Extent

0 170 340 680 Feet

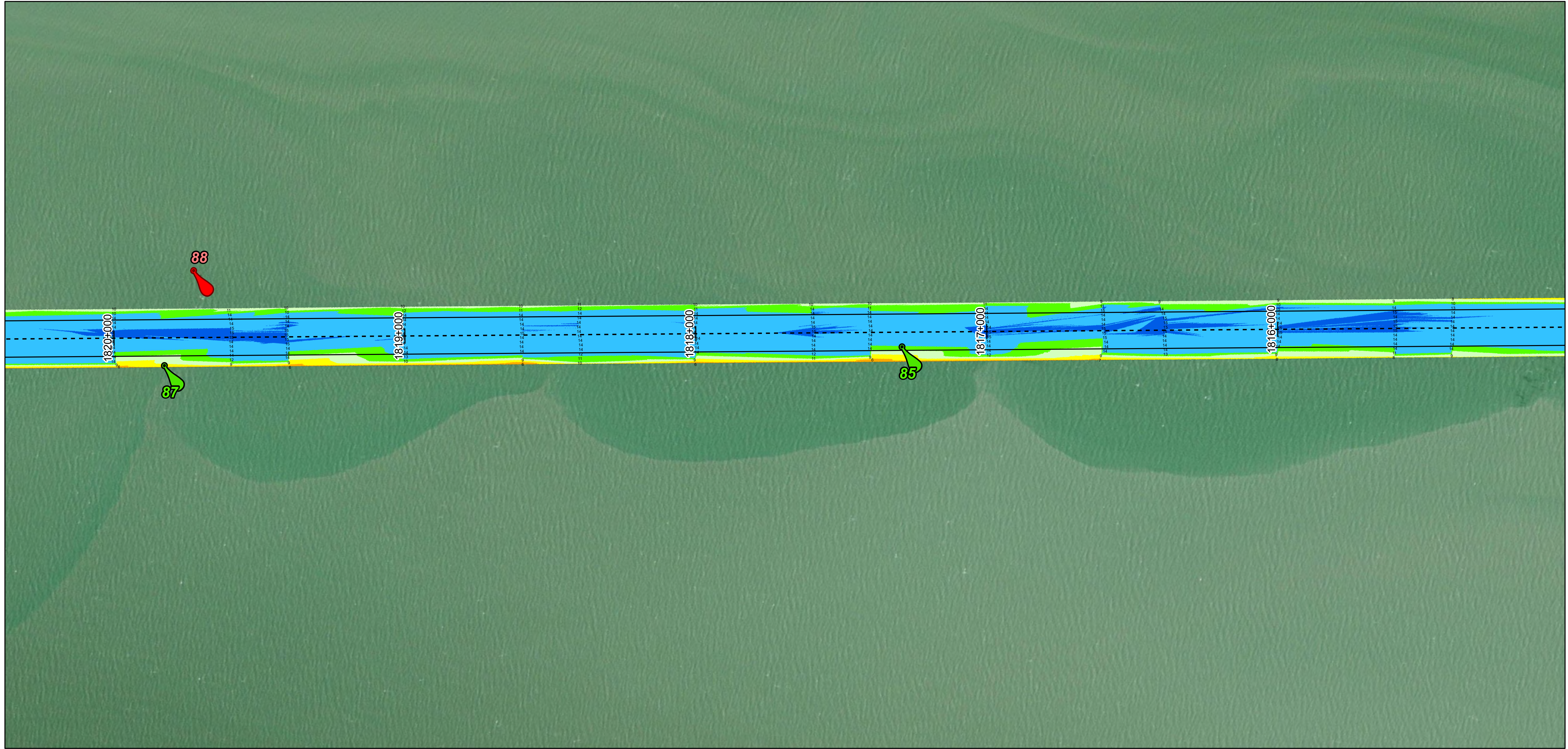
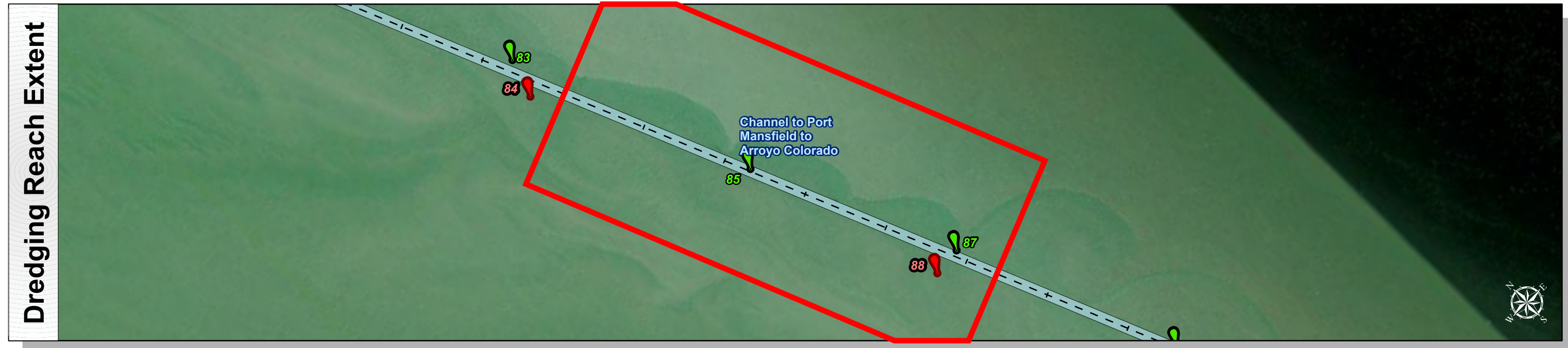
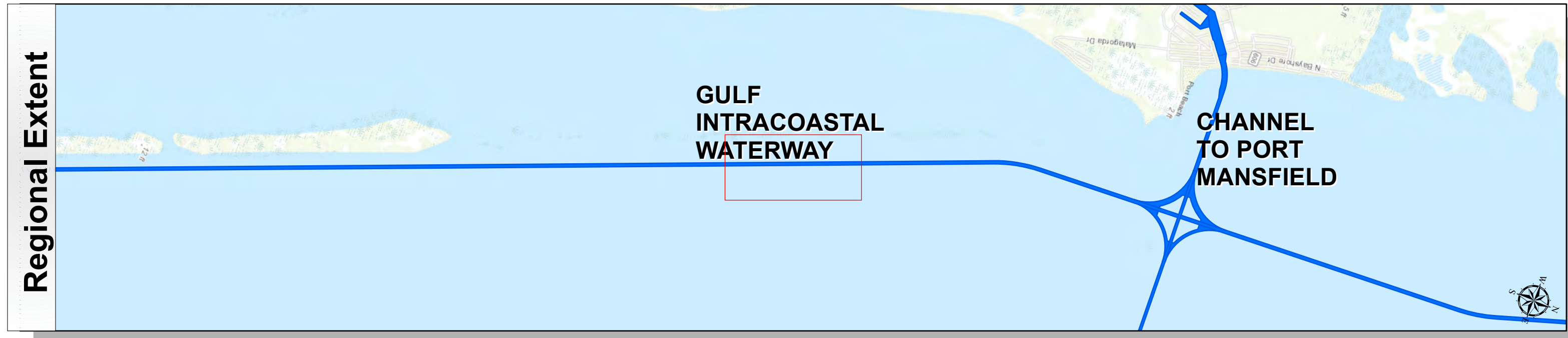
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

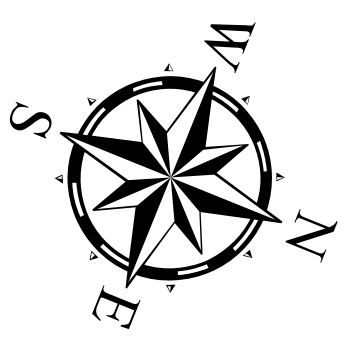
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 4 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	Website Index Number: 303
Mapped by: M3AOXPAC	PDF Print Date: 3/10/2023
Additional Imagery info:	



Channel Features

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

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

LWD

0 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17	< 17
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NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 117.1-117.12.
- 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 Ocean Base, Esri, GEBCO, Delorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

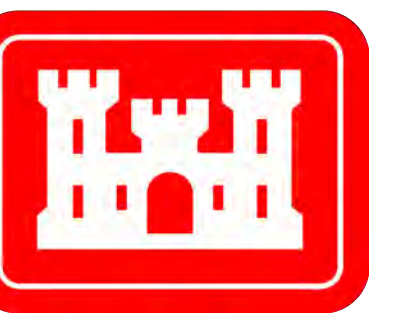
Hydrographic Survey Extent

0 170 340 680 Feet

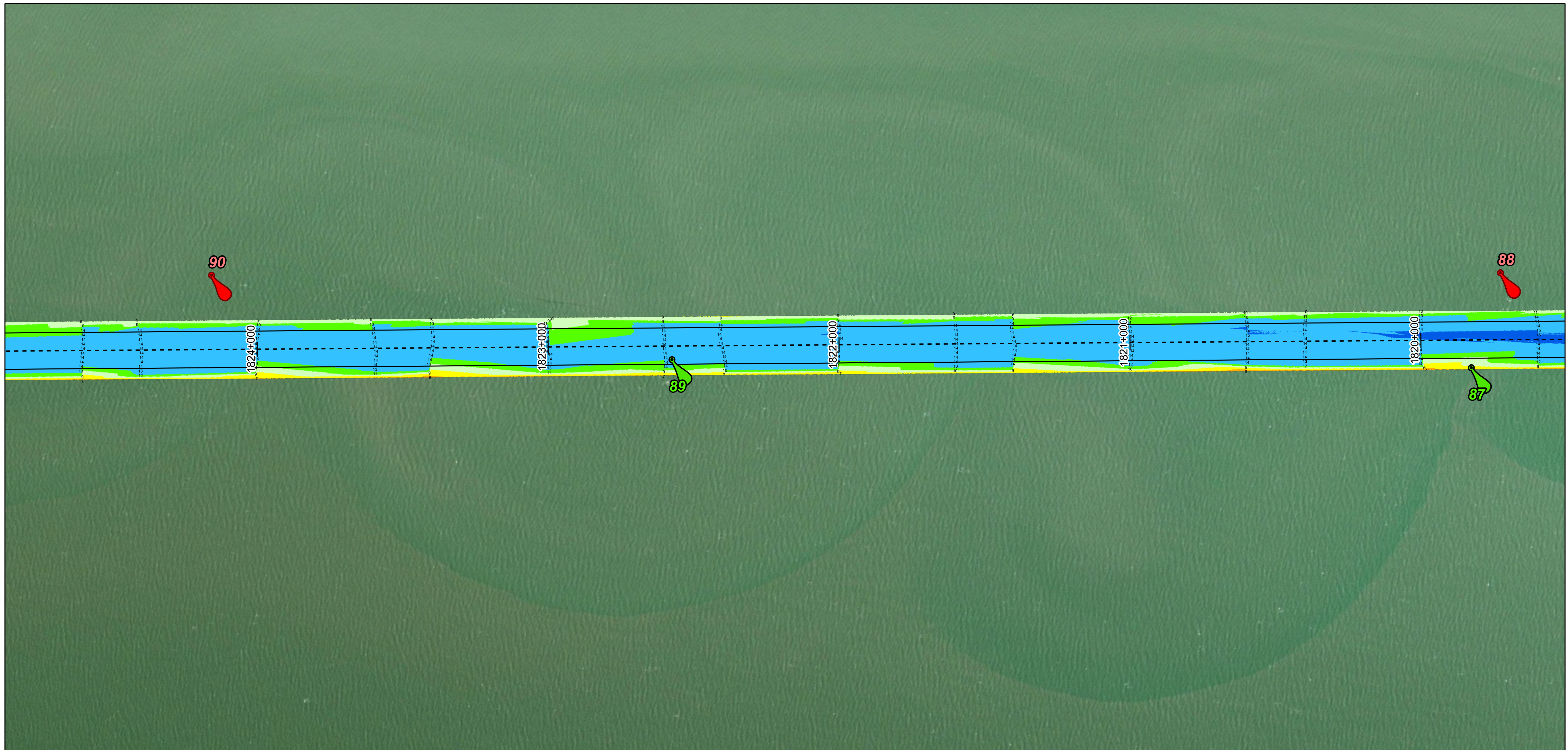
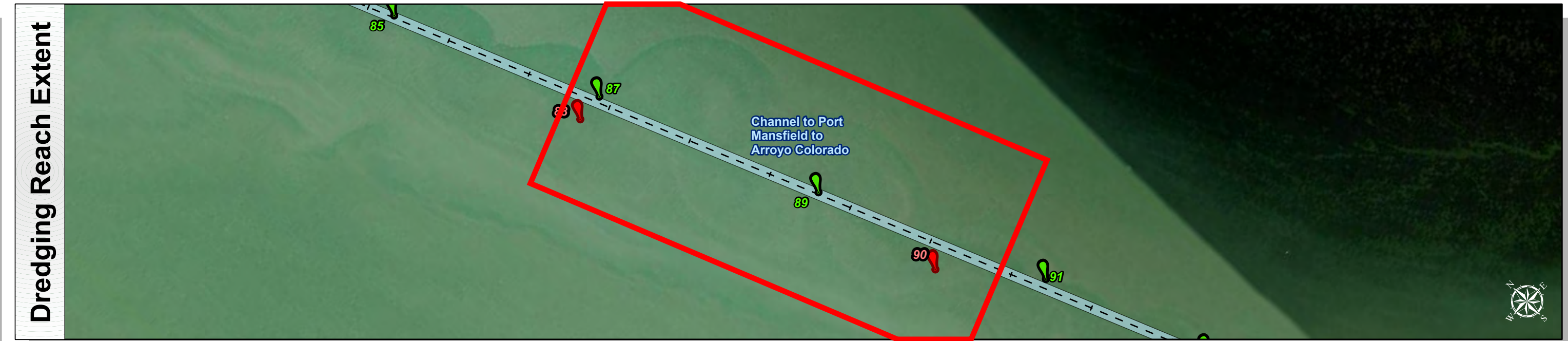
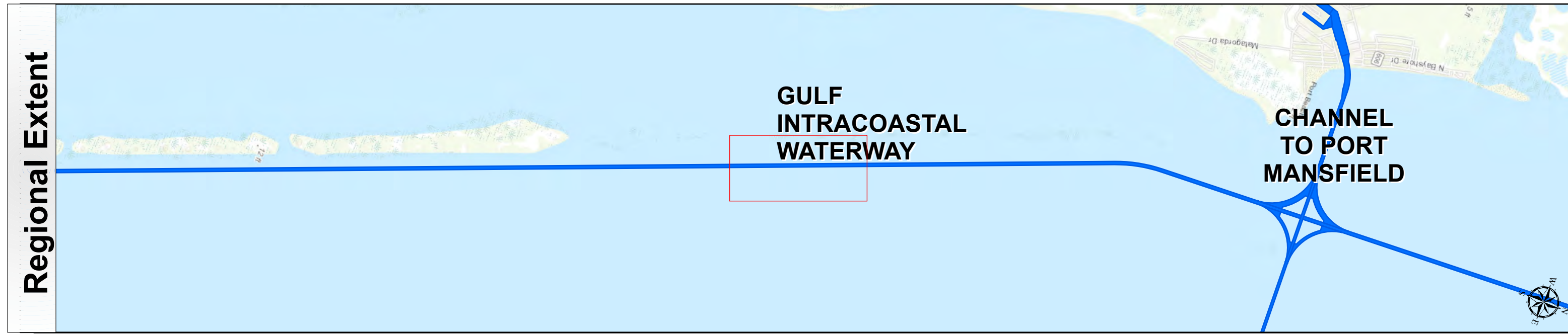
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

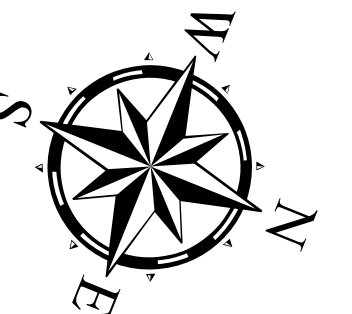
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 5 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	PDF Print Date: 3/10/2023
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

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

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

LWD

0 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17	< 17
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NOTES:

- Horizontal coordinates are referenced to texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 er1110-8152.
- 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
- 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 Ocean Base: Esri, GEBCO, Delorme, NaturalVue
World Imagery: Maxar, Microsoft
World Imagery: Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

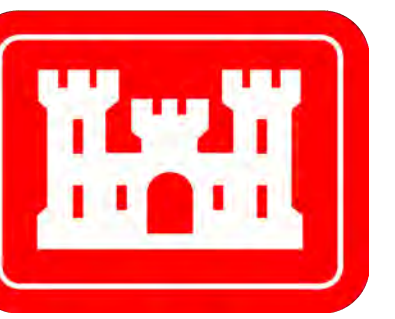
Hydrographic Survey Extent

0 170 340 680 Feet

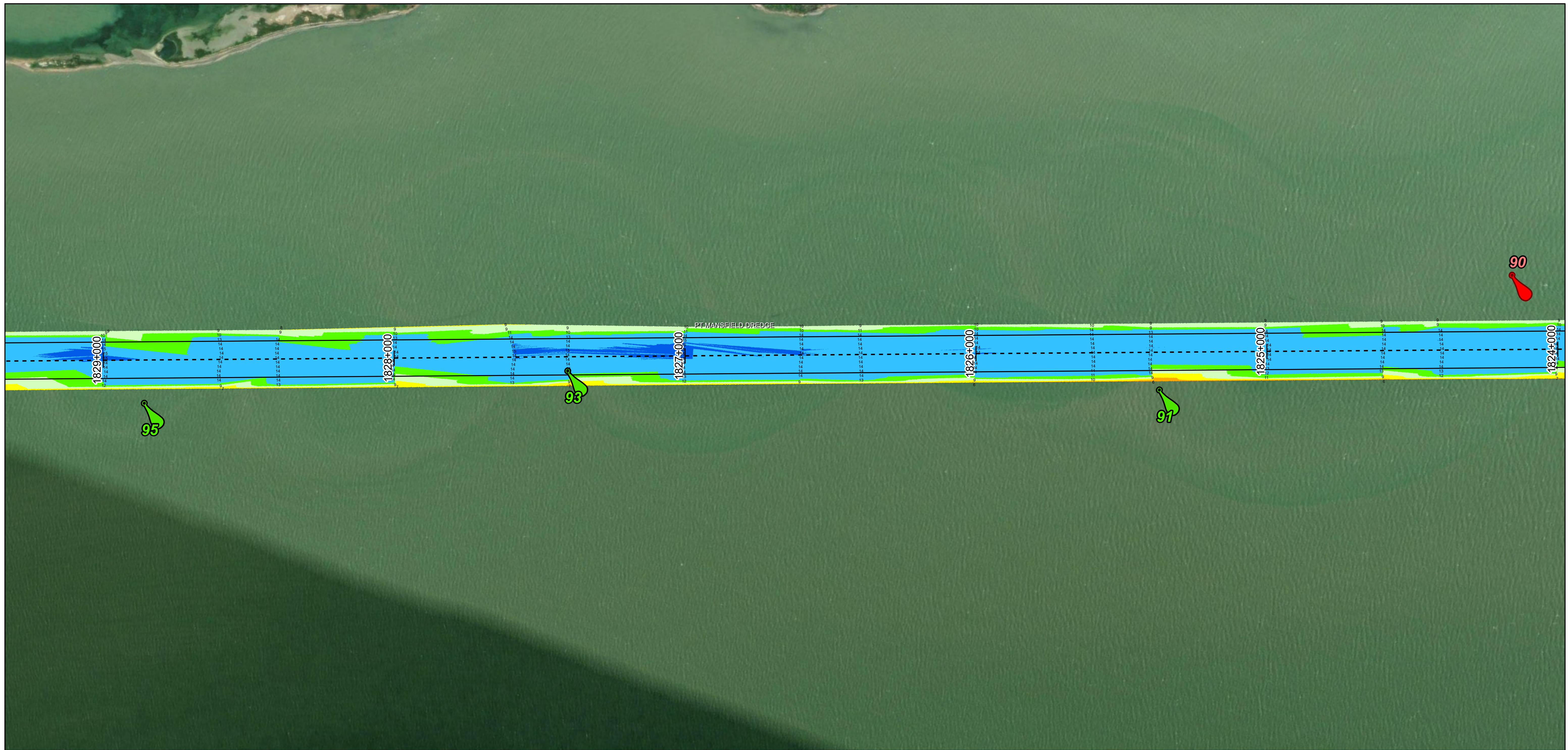
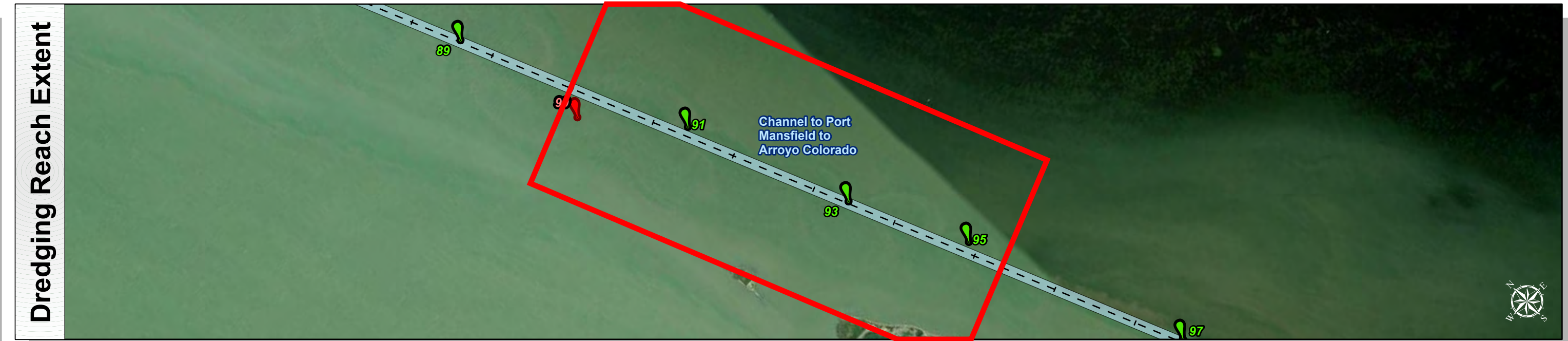
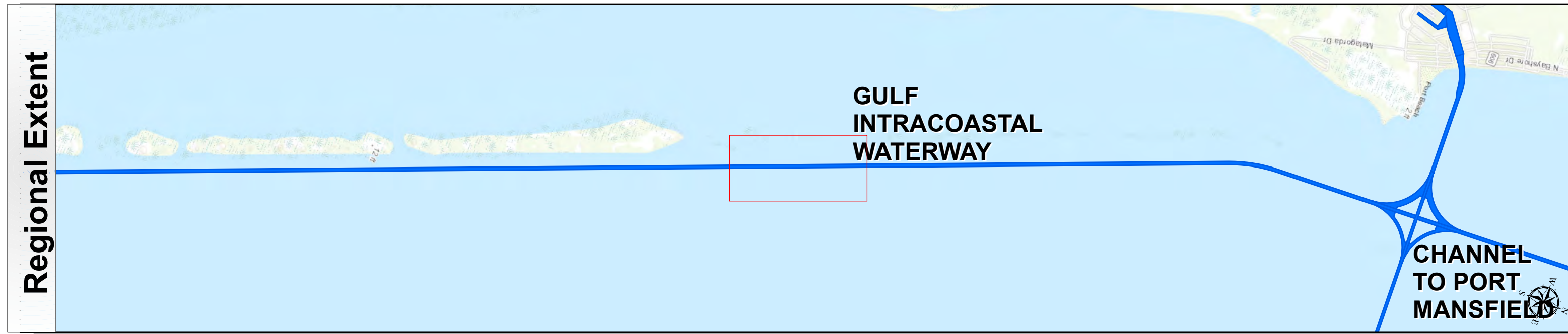
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

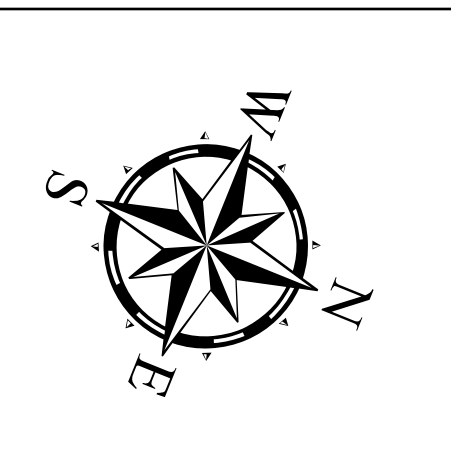
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 6 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	Website Index Number: 305
Mapped by: M3AOXPAC	PDF Print Date: 3/10/2023
Additional Imagery info:	



Channel Features

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

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

LWD

0 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17	< 17
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NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 117.11-11.12.
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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 Ocean Base, Esri, GEBCO, Delorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

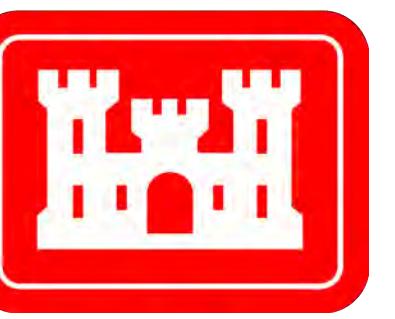
Hydrographic Survey Extent

0 170 340 680 Feet

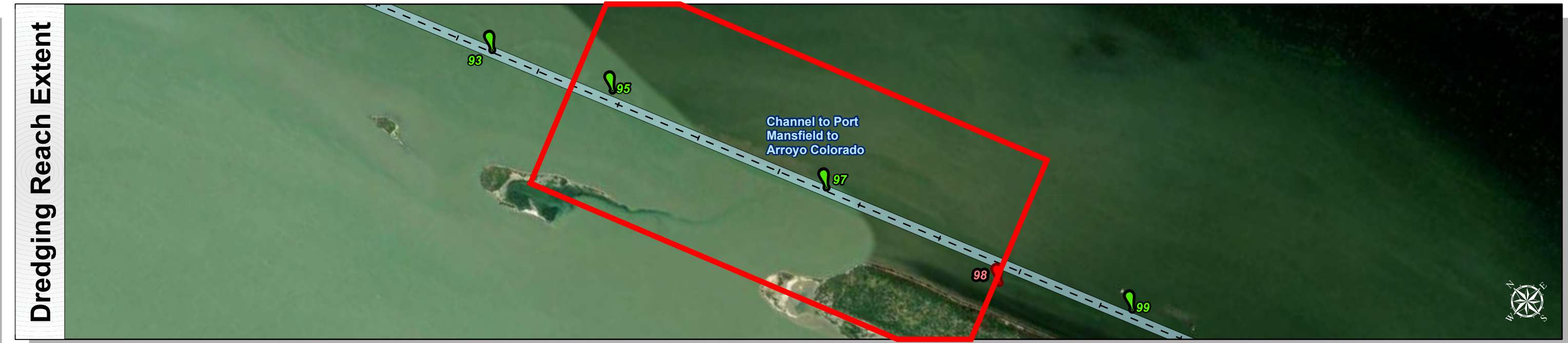
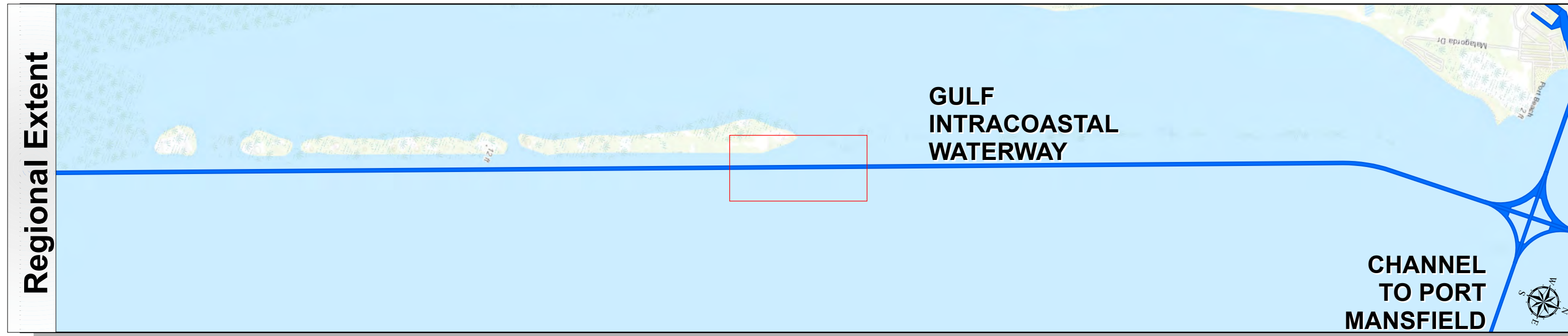
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

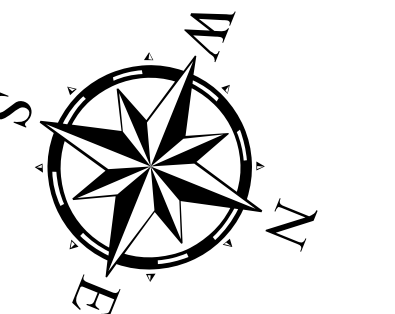
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 7 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	PDF Print Date: 3/10/2023
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

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

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

LWD

0 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17	< 17
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NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 117.1-117.12.
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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 Ocean Base, Esri, GEBCO, Delorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

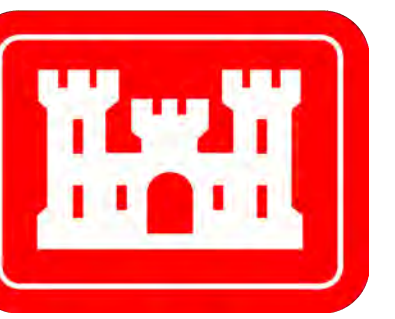
Hydrographic Survey Extent

0 170 340 680 Feet

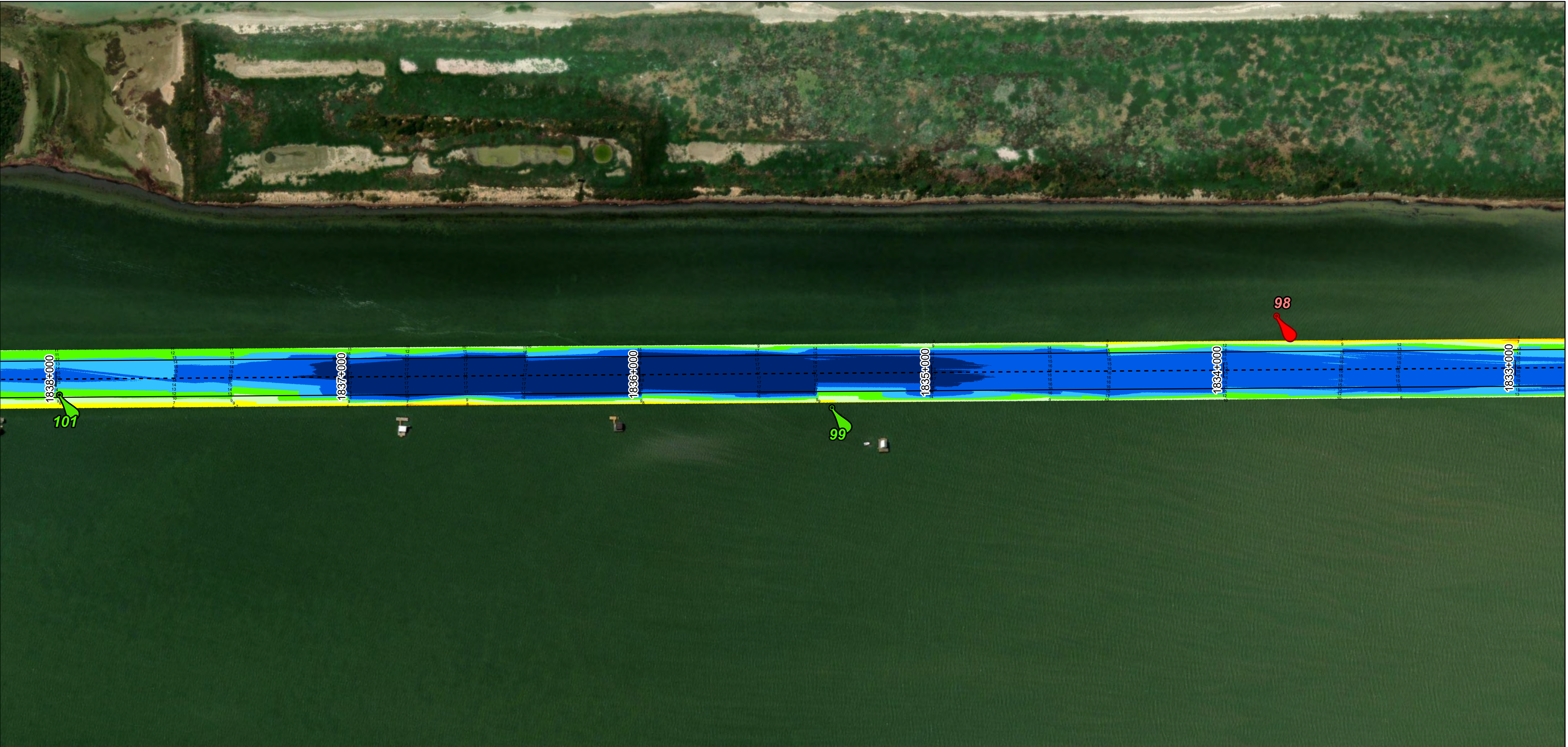
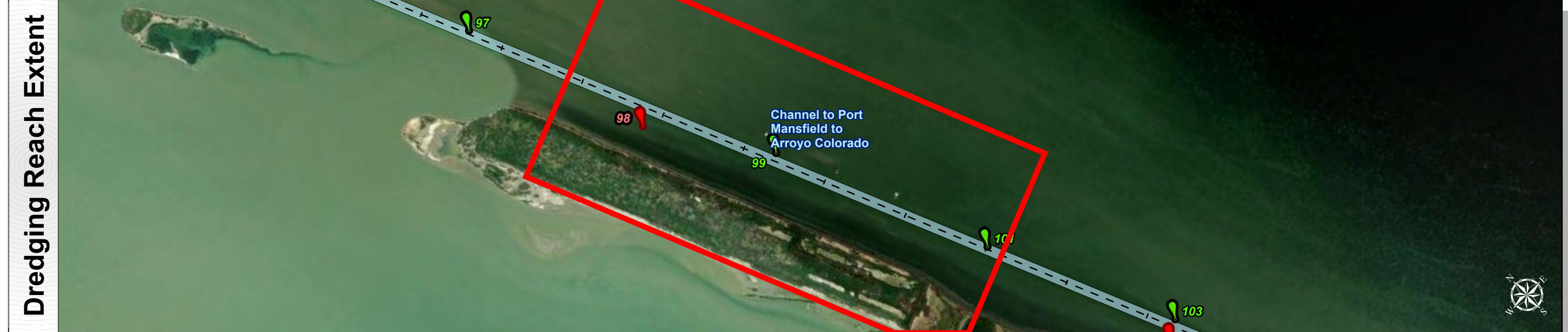
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

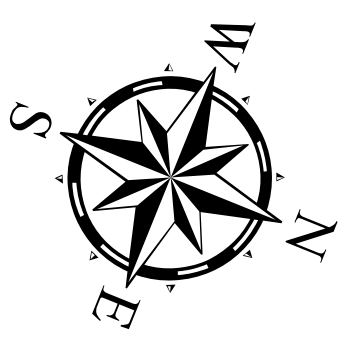
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 8 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	PDF Print Date: 3/10/2023
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features

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

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

LWD

0 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13	13 - 15	15 - 17	< 17
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NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 117.1-41.52.
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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 Ocean Base, Esri, GEBCO, Delorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

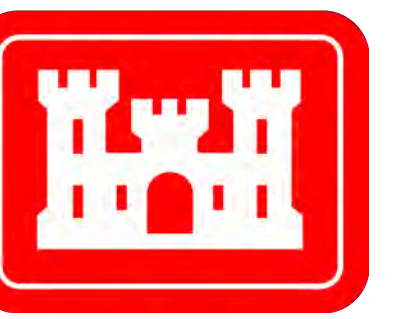
Hydrographic Survey Extent

0 170 340 680 Feet

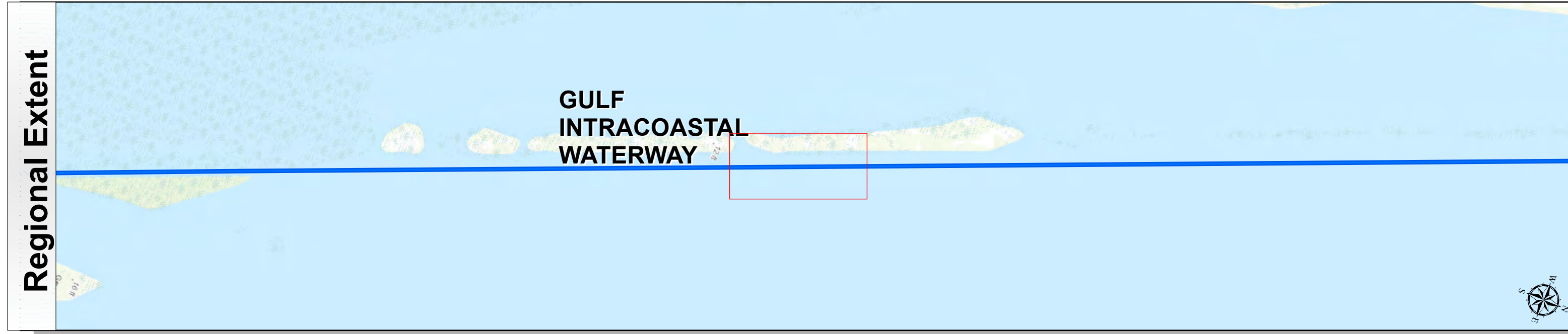
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

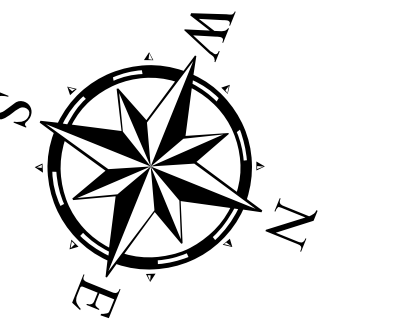
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 9 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	PDF Print Date: 3/10/2023
Website Index Number: 308	
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	0-3 3-5 5-7 7-9 9-11 11-13 13-15 15-17 <17
— Channel Toe	Red Side Aids	
— Channel Station Lines	Lights	
↔ Channel Dimensions		

NOTES:
 1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
 2. Elevations are referenced to low water depth (LWD) 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 117.41-41.52.
 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 Ocean Base: Esri, GEBCO, DeLorme, NaturalVue
 World Imagery: Maxar, Microsoft
 World Imagery: Maxar

Additional Combined Survey Dates and Stationing:
 COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
 Projection: Lambert Conformal Conic

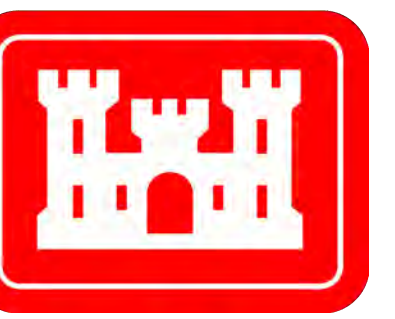
Dredging Reach Extent
 0 0.2 0.4 0.8 Miles

Hydrographic Survey Extent
 0 170 340 680 Feet

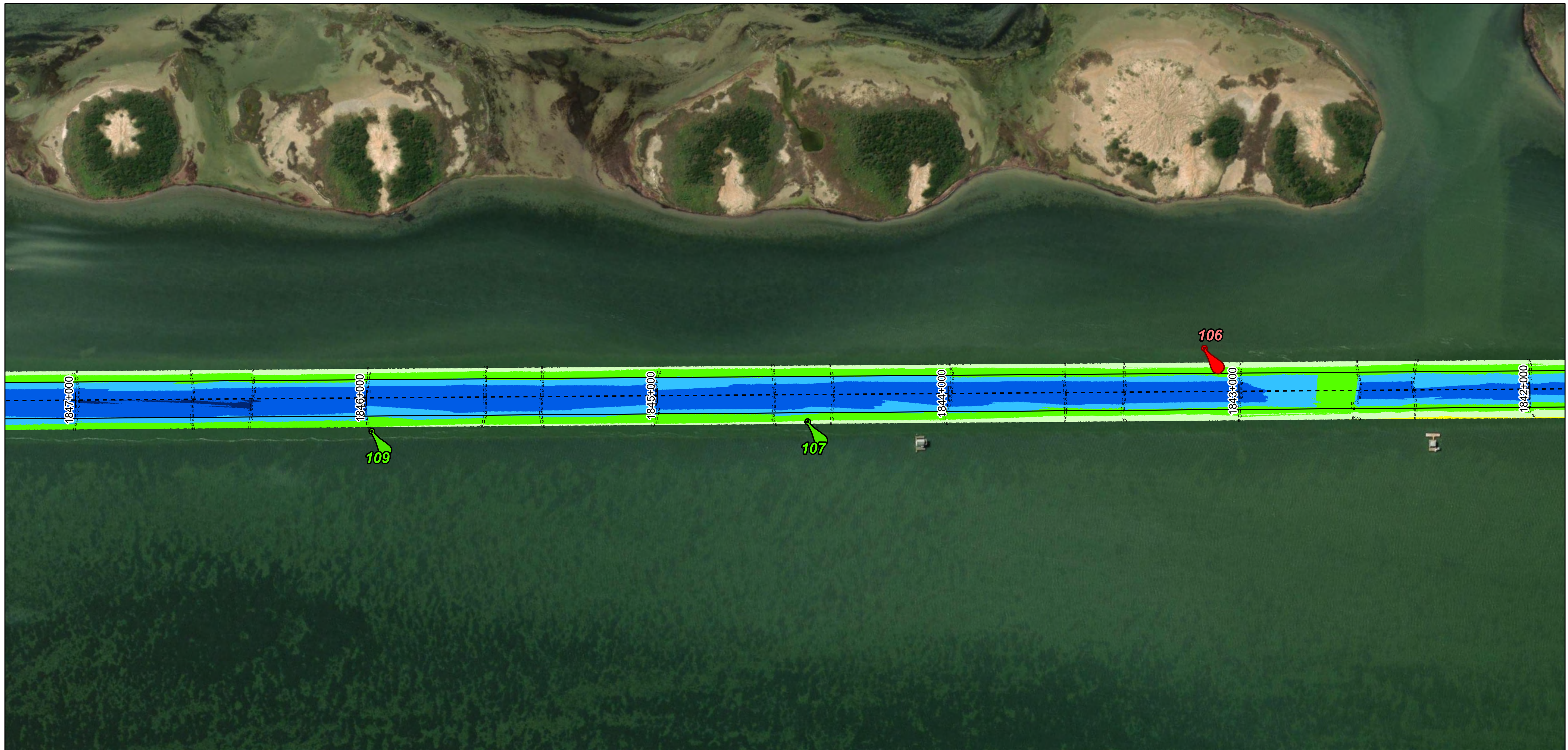
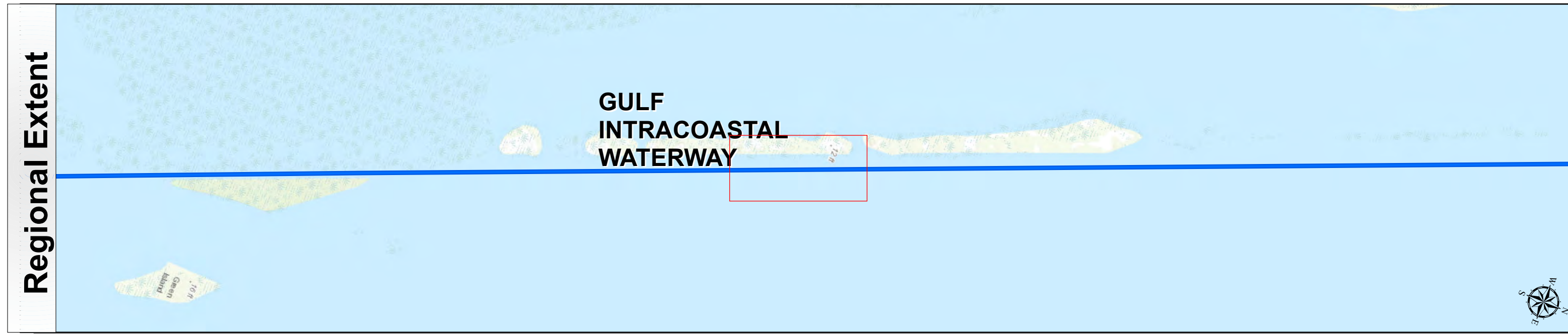
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
 Channel to Port Mansfield to Arroyo Colorado

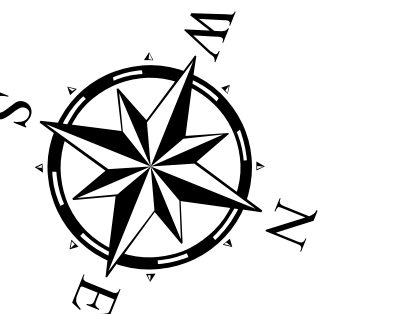
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 10 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1:2,000	PDF Print Date: 3/10/2023
Website Index Number: 309	
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
<ul style="list-style-type: none"> Channel Center Line Channel Toe Channel Station Lines Channel Dimensions 	<ul style="list-style-type: none"> Green Side Aids Red Side Aids Lights 	<ul style="list-style-type: none"> 0 - 3 3 - 5 5 - 7 7 - 9 9 - 11 11 - 13 13 - 15 15 - 17 < 17

NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 117.1-117.12.
- 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, METI/NASA, NGA, EPA, USDA
World Ocean Base, Esri, GEBCO, Delorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent

0 0.2 0.4 0.8 Miles

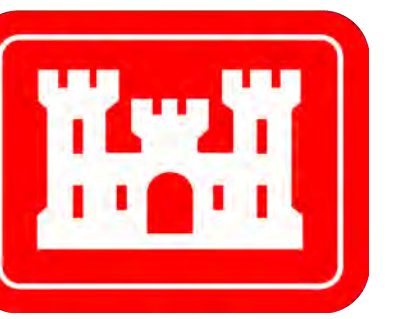
Hydrographic Survey Extent

0 170 340 680 Feet

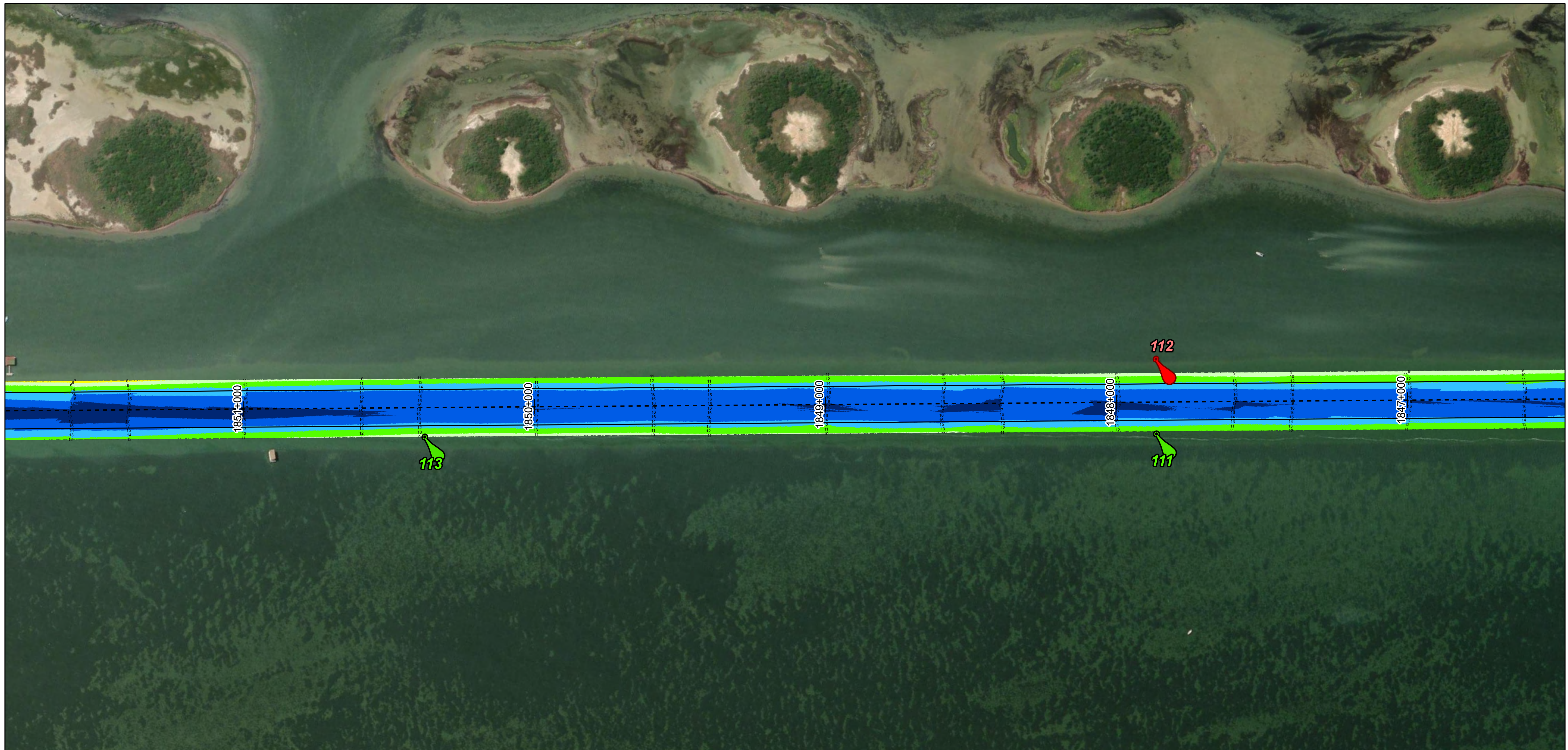
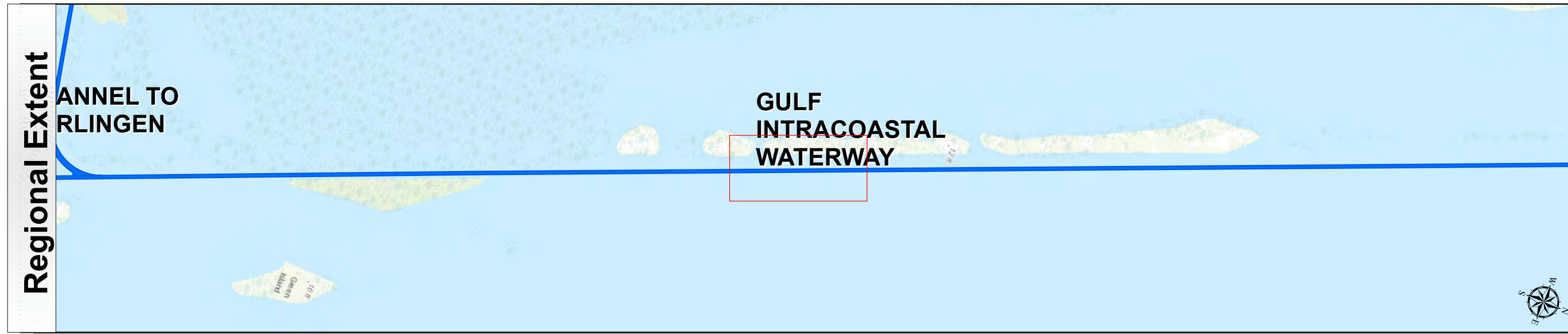
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

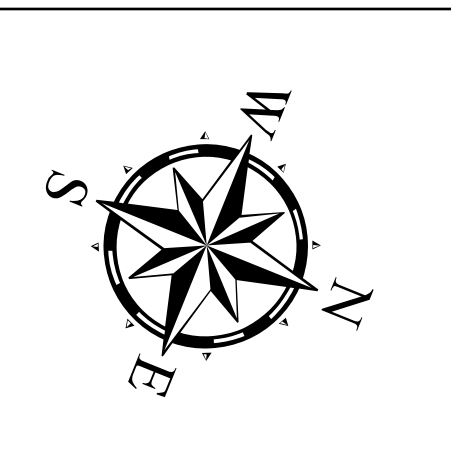
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 11 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1"=2,000'	PDF Print Date: 3/10/2023
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	0 - 3
— Channel Toe	Red Side Aids	3 - 5
— Channel Station Lines	Lights	5 - 7
↔ Channel Dimensions		7 - 9
		9 - 11
		11 - 13
		13 - 15
		15 - 17
		< 17

NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 110.41-152.
- 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 Ocean Base, Esri, GEBCO, Delorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

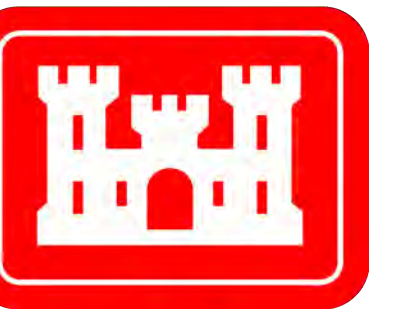
Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet Projection: Lambert Conformal Conic	
Dredging Reach Extent	
0	0.2 0.4 0.8 Miles
Hydrographic Survey Extent	
0	170 340 680 Feet

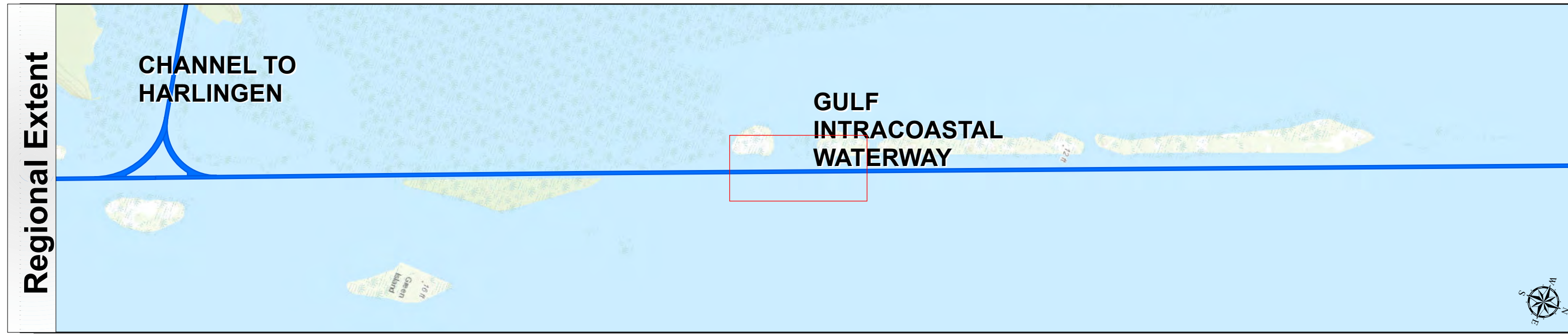
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

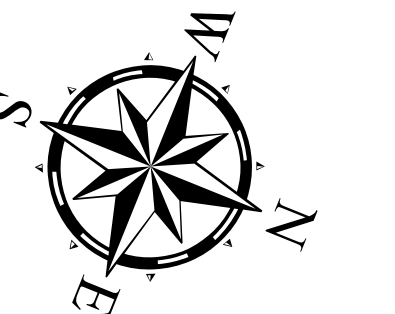
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 12 of 17	Side Slope Ratio: (Rise : Run)
Scale: 1"=2,000'	PDF Print Date: 3/10/2023
Website Index Number: 311	
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	
— Channel Toe	Red Side Aids	
— Channel Station Lines	Lights	
↔ Channel Dimensions		

NOTES:

- Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
- Elevations are referenced to low water depth (LWD) 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 110.41-112.
- 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, METI/NASA, NGA, EPA, USDA
World Ocean Base, Esri, GEBCO, DeLorme, NaturalVue
World Imagery, Maxar, Microsoft
World Imagery, Maxar

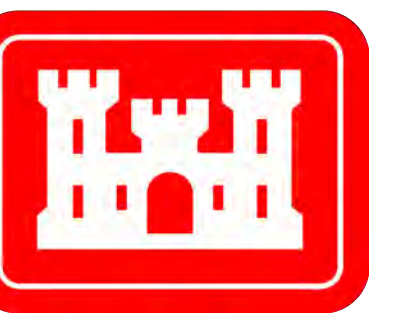
Additional Combined Survey Dates and Stationing:
COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet Projection: Lambert Conformal Conic	
Dredging Reach Extent	
0	0.2 0.4 0.8
Miles	
Hydrographic Survey Extent	
0	170 340 680
Feet	

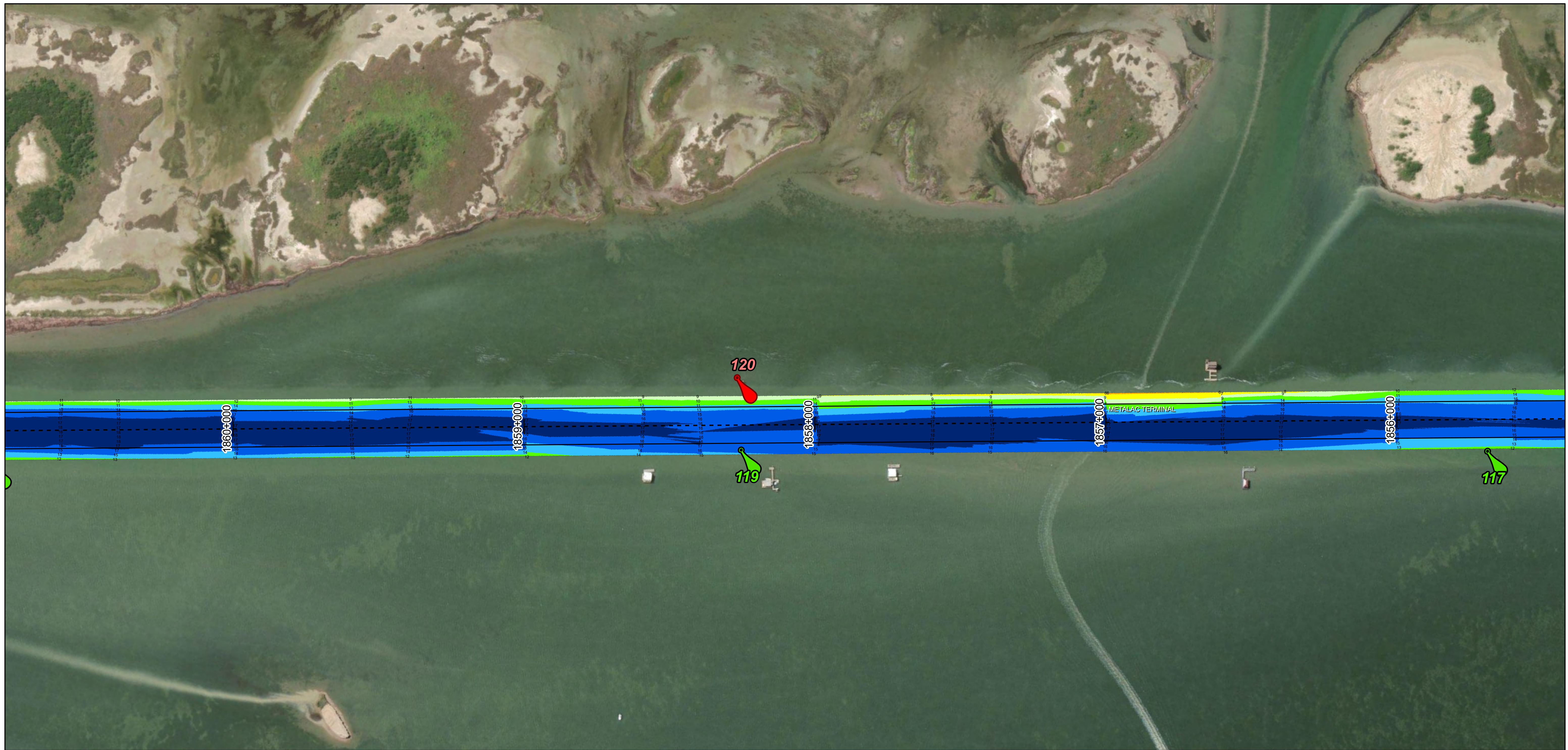
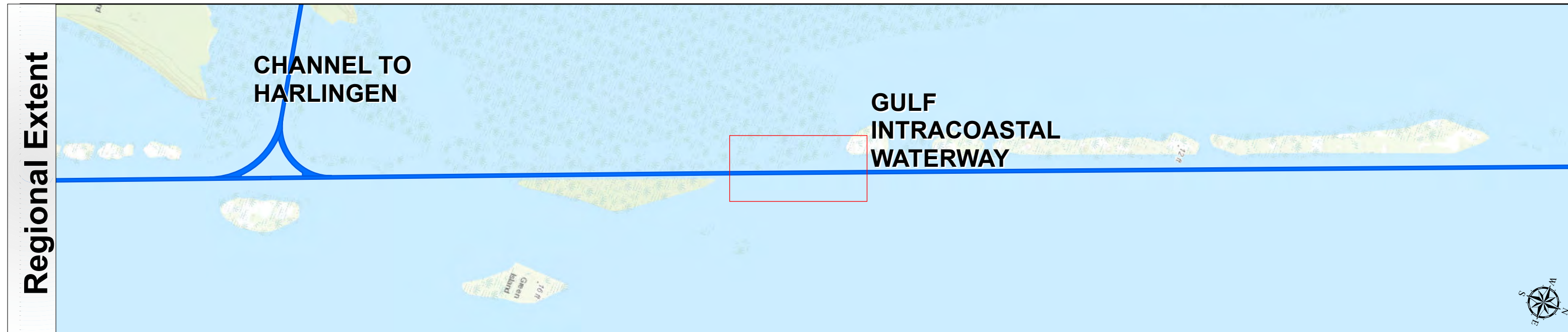
HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
Channel to Port Mansfield to Arroyo Colorado

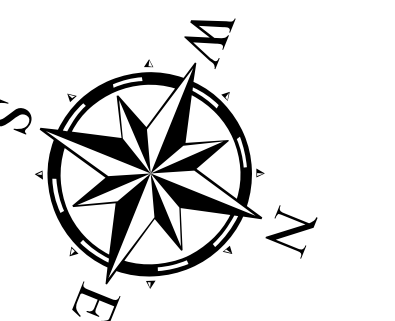
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 13 of 17	Side Slope Ratio: 1:3 (Rise : Run)
Scale: 1"=2,000'	Website Index Number: 312
Mapped by: M3AOXPAC	PDF Print Date: 3/10/2023
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	0-3 3-5 5-7 7-9 9-11 11-13 13-15 15-17 <17
— Channel Toe	Red Side Aids	
— Channel Station Lines	Lights	
↔ Channel Dimensions		

NOTES:
 1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
 2. Elevations are referenced to low water depth (LWD) 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 117.1-117.2.
 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 Ocean Base: Esri, GEBCO, DeLorme, NaturalVue
 World Imagery: Maxar, Microsoft
 World Imagery: Maxar

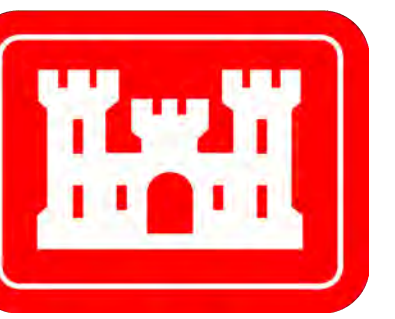
Additional Combined Survey Dates and Stationing:
 COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet Projection: Lambert Conformal Conic	
Dredging Reach Extent	0 0.2 0.4 0.8 Miles
Hydrographic Survey Extent	0 170 340 680 Feet

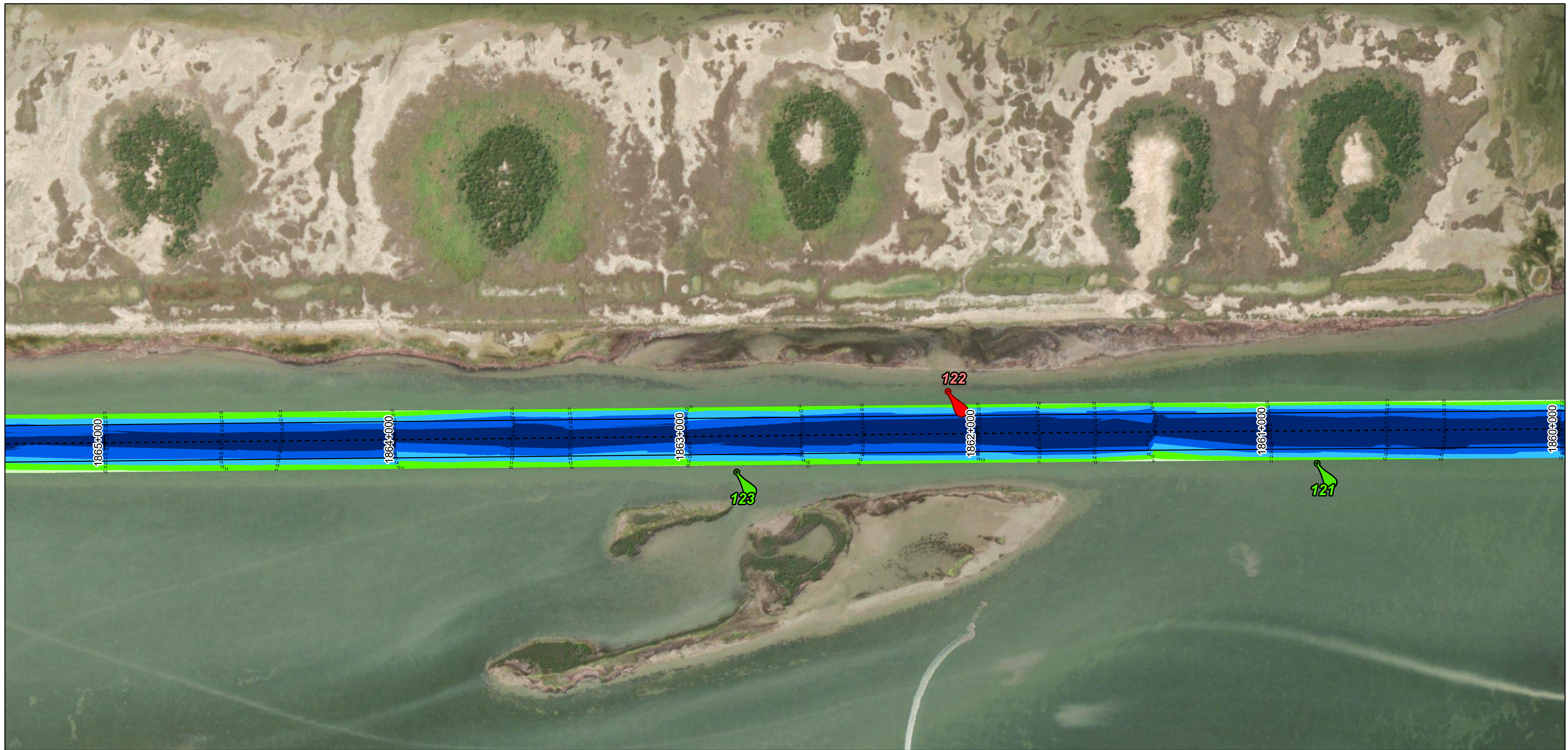
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
 Channel to Port Mansfield to Arroyo Colorado

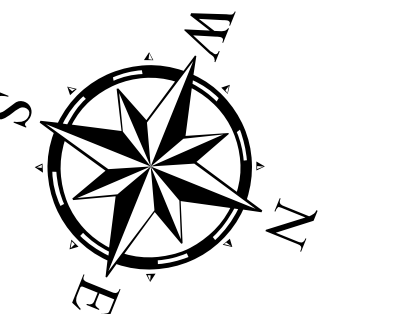
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 14 of 17	Side Slope Ratio: 1:3 (Rise : Run)
Scale: 1"=2,000'	Website Index Number: 313
Mapped by: M3AOXPAC	PDF Print Date: 3/10/2023
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
<ul style="list-style-type: none"> --- Channel Center Line — Channel Toe — Channel Station Lines ↔ Channel Dimensions 	<ul style="list-style-type: none"> Green Side Aids Red Side Aids Lights 	<ul style="list-style-type: none"> 0 - 3 3 - 5 5 - 7 7 - 9 9 - 11 11 - 13 13 - 15 15 - 17 < 17

NOTES:
 1. Horizontal coordinates are referenced to texas state plane coordinate system, south central zone nad83 us survey feet.
 2. Elevations are referenced to low water depth (LWD) 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 er1110-48152.
 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 Ocean Base: Esri, GEBCO, DeLorme, NaturalVue
 World Imagery: Maxar, Microsoft
 World Imagery: Maxar

Additional Combined Survey Dates and Stationing:
 COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
 Projection: Lambert Conformal Conic

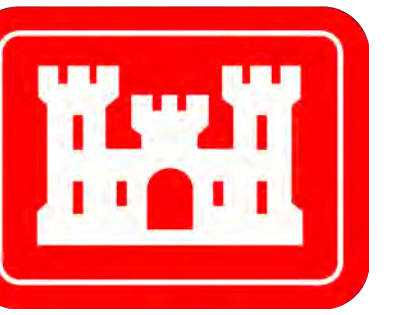
Dredging Reach Extent
 0 0.2 0.4 0.8 Miles

Hydrographic Survey Extent
 0 170 340 680 Feet

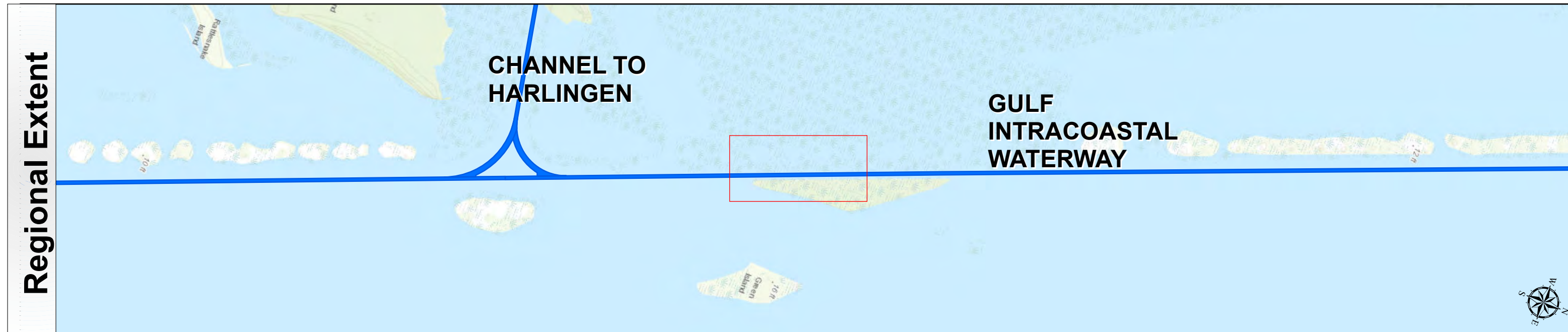
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
 Channel to Port Mansfield to Arroyo Colorado

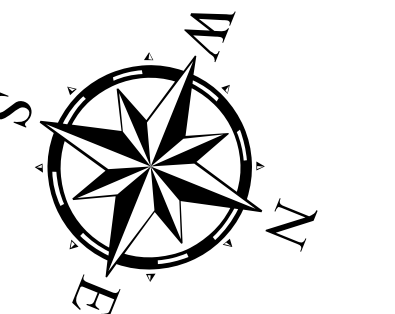
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 15 of 17	Side Slope Ratio: 1:3 (Rise : Run)
Scale: 1"=2,000'	PDF Print Date: 3/10/2023
Website Index Number: 314	
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	
— Channel Toe	Red Side Aids	
— Channel Station Lines	Lights	
↔ Channel Dimensions		

NOTES:
 1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
 2. Elevations are referenced to low water depth (LWD) 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 117.41-41.52.
 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 Ocean Base: Esri, GEBCO, DeLorme, NaturalVue
 World Imagery: Maxar, Microsoft
 World Imagery: Maxar

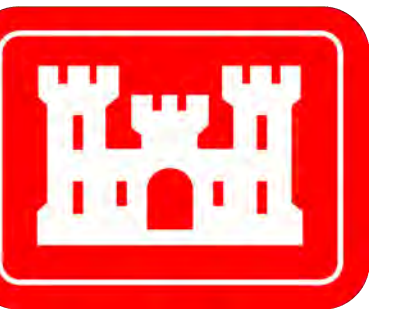
Additional Combined Survey Dates and Stationing:
 COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet Projection: Lambert Conformal Conic	
Dredging Reach Extent	
0	0.2 0.4 0.8 Miles
Hydrographic Survey Extent	
0	170 340 680 Feet

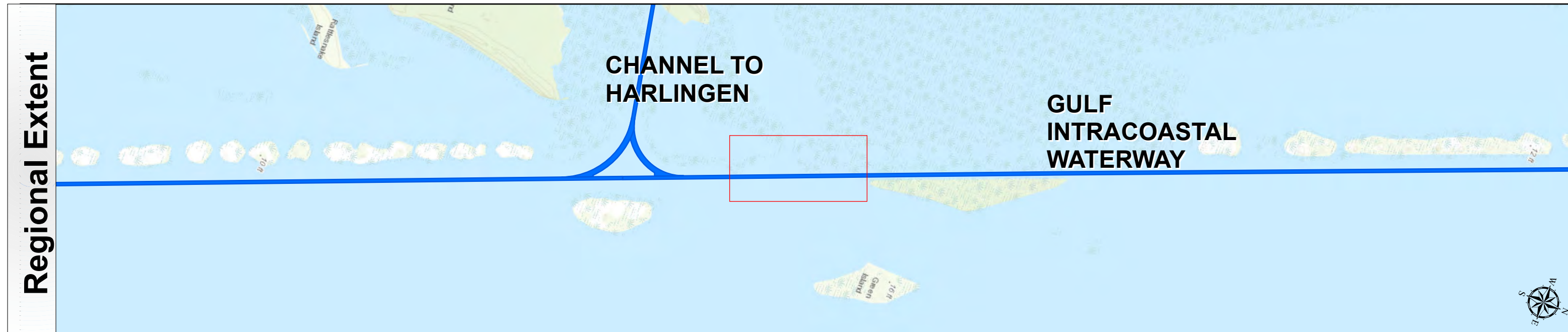
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
 Channel to Port Mansfield to Arroyo Colorado

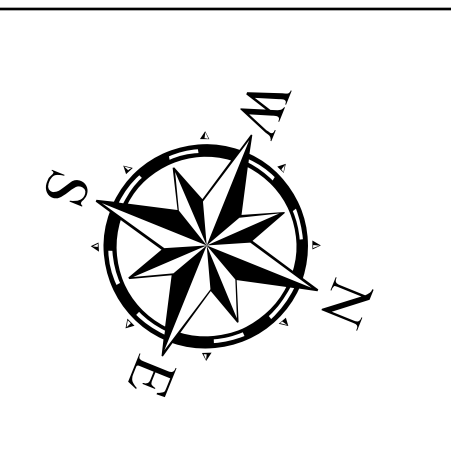
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 16 of 17	Side Slope Ratio: 1:3 (Rise : Run)
Scale: 1"=2,000'	PDF Print Date: 3/10/2023
Website Index Number: 315	
Mapped by: M3AOXPAC	
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	
— Channel Toe	Red Side Aids	
— Channel Station Lines	Lights	
↔ Channel Dimensions		

NOTES:
 1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
 2. Elevations are referenced to low water depth (LWD) 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 119.41-152.
 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.swg.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 Ocean Base, Esri, GEBCO, Delorme, NaturalVue
 World Imagery, Maxar, Microsoft
 World Imagery, Maxar

Additional Combined Survey Dates and Stationing:
 COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet
 Projection: Lambert Conformal Conic

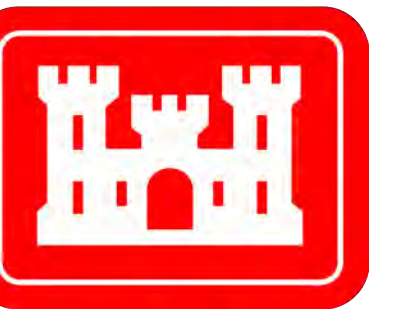
Dredging Reach Extent
 0 0.2 0.4 0.8 Miles

Hydrographic Survey Extent
 0 170 340 680 Feet

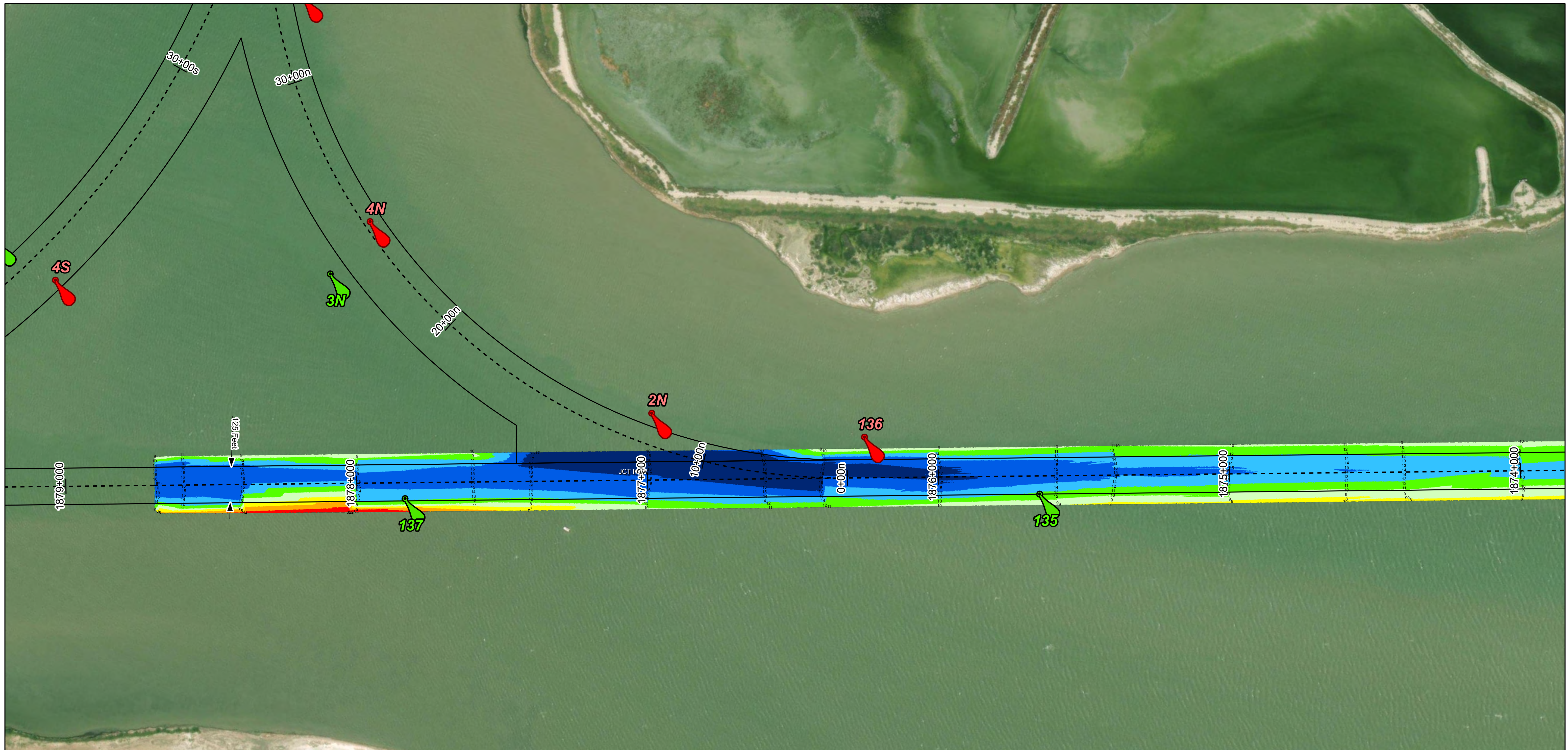
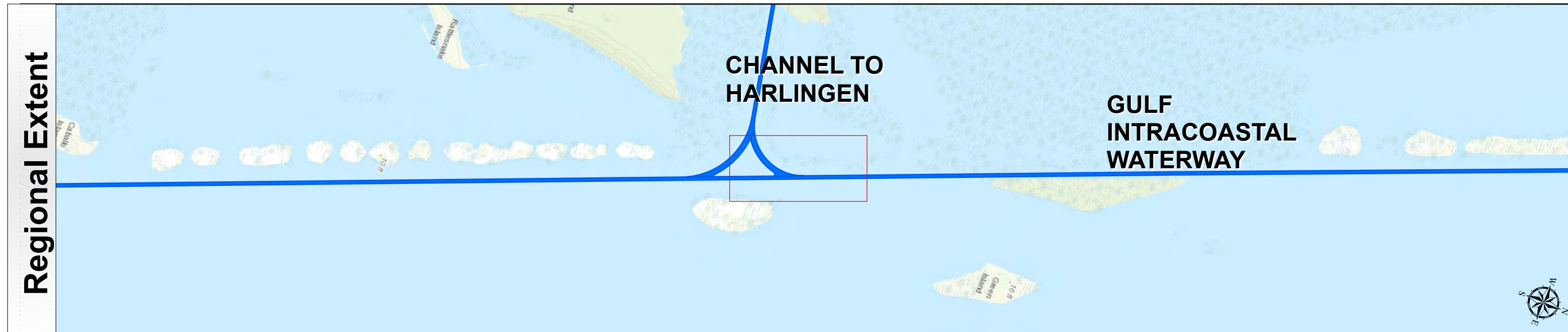
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 GALVESTON, TEXAS

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
 Channel to Port Mansfield to Arroyo Colorado

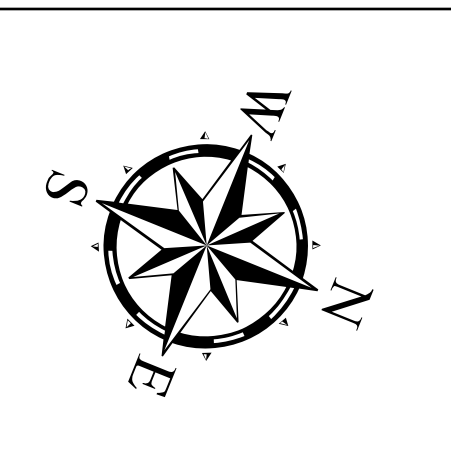
Gulf Intracoastal Waterway: Channel to Port Mansfield to Arroyo Colorado



U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 08 March 2023	Authorized Depth: -13ft.
Document Page: 17 of 17	Side Slope Ratio: 1:3 (Rise : Run)
Scale: 1:2,000	Website Index Number: 316
Mapped by: M3AOXPAC	PDF Print Date: 3/10/2023
Additional Imagery info:	



Channel Features	Aids to Navigation	LWD
--- Channel Center Line	Green Side Aids	
— Channel Toe	Red Side Aids	
— Channel Station Lines	Lights	
↔ Channel Dimensions		

NOTES:
 1. Horizontal coordinates are referenced to Texas state plane coordinate system, south central zone nad83 us survey feet.
 2. Elevations are referenced to low water depth (LWD) 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 er1109-d152.
 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 Ocean Base; Esri, GEBCO, Delorme, NaturalVue
 World Imagery; Maxar, Microsoft
 World Imagery; Maxar

Additional Combined Survey Dates and Stationing:
 COMB_SURV_INFO_HERE

Coordinate System: NAD 1983 StatePlane Texas South FIPS 4205 Feet Projection: Lambert Conformal Conic	
Dredging Reach Extent	
0	0.2 0.4 0.8
Miles	
Hydrographic Survey Extent	
0	170 340 680
Feet	

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

Station: 1802+194.92 to 1878+700
GULF INTRACOASTAL WATERWAY
 Channel to Port Mansfield to Arroyo Colorado