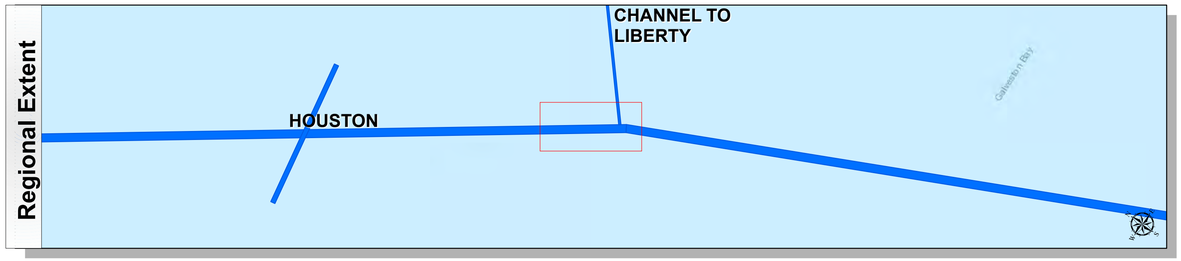
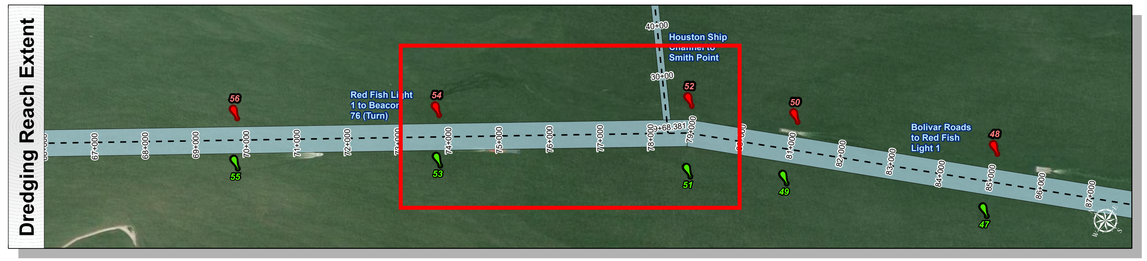
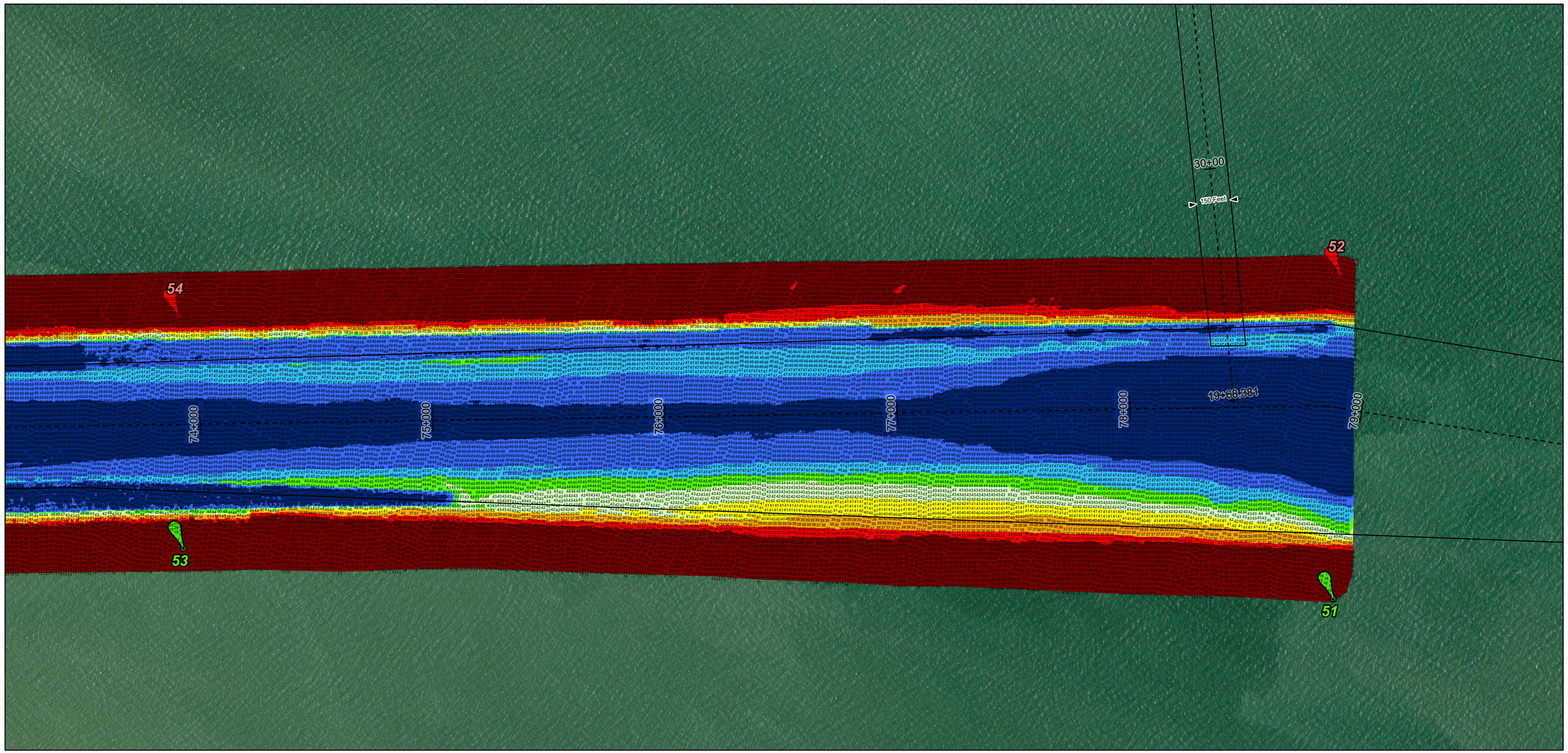
Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)





U.S. Army Corps of Engineers
Galveston District



Authorized Depth: -46ft.
Side Slope Ratio: 1:2.5 (Rise : Run)
PDF Print Date: 3/7/2024

Latest Survey Collection Date: 02 March 2024
Website Index Number: 11
Document Page: 1 of 9
Scale: 1:2,500
Mapped by: M3AOXPAC
Additional Imagery info:

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

Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Channel Features
- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation
- Green Side Aids
- Red Side Aids
- Lights

MLLW

≤ 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	> 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 er1110-1-8152.
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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, METI/NASA, NGA, EPA, USDA
World_Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

Additional Combined Survey Dates and Stationing:

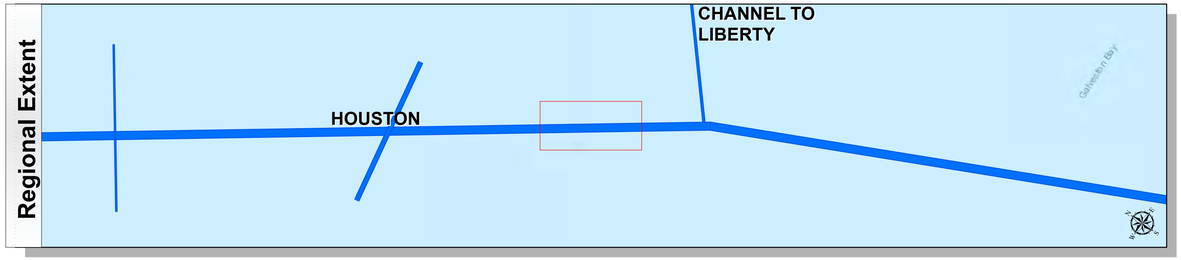
Combinded survey dates 20231020_AD13_65P000_60P000; 20231020_AD12_60P000_57P000; 20231219_PR_44P000_30P090; 20231221_PR_49P000_44P000; 20231226_BD_08_40P000_35P000; 20240102_PR_78P844_62P000; 20240104_PR_59P000_49P000; 20240202_AD_AS2_70P000_66P000; 20240302_AD_01_70P000_78P844

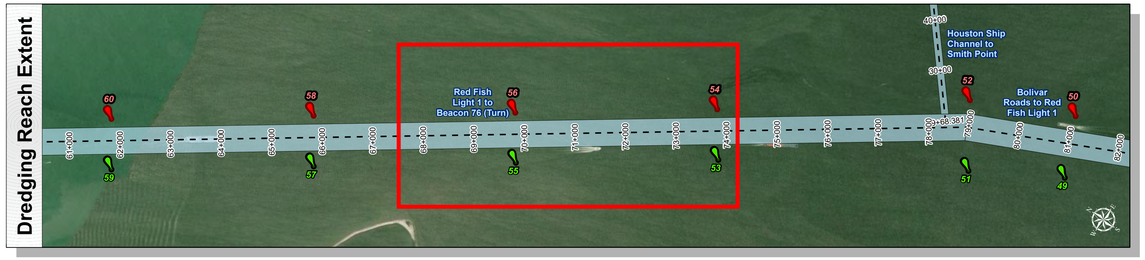
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent
0 0.25 0.5 1 Miles

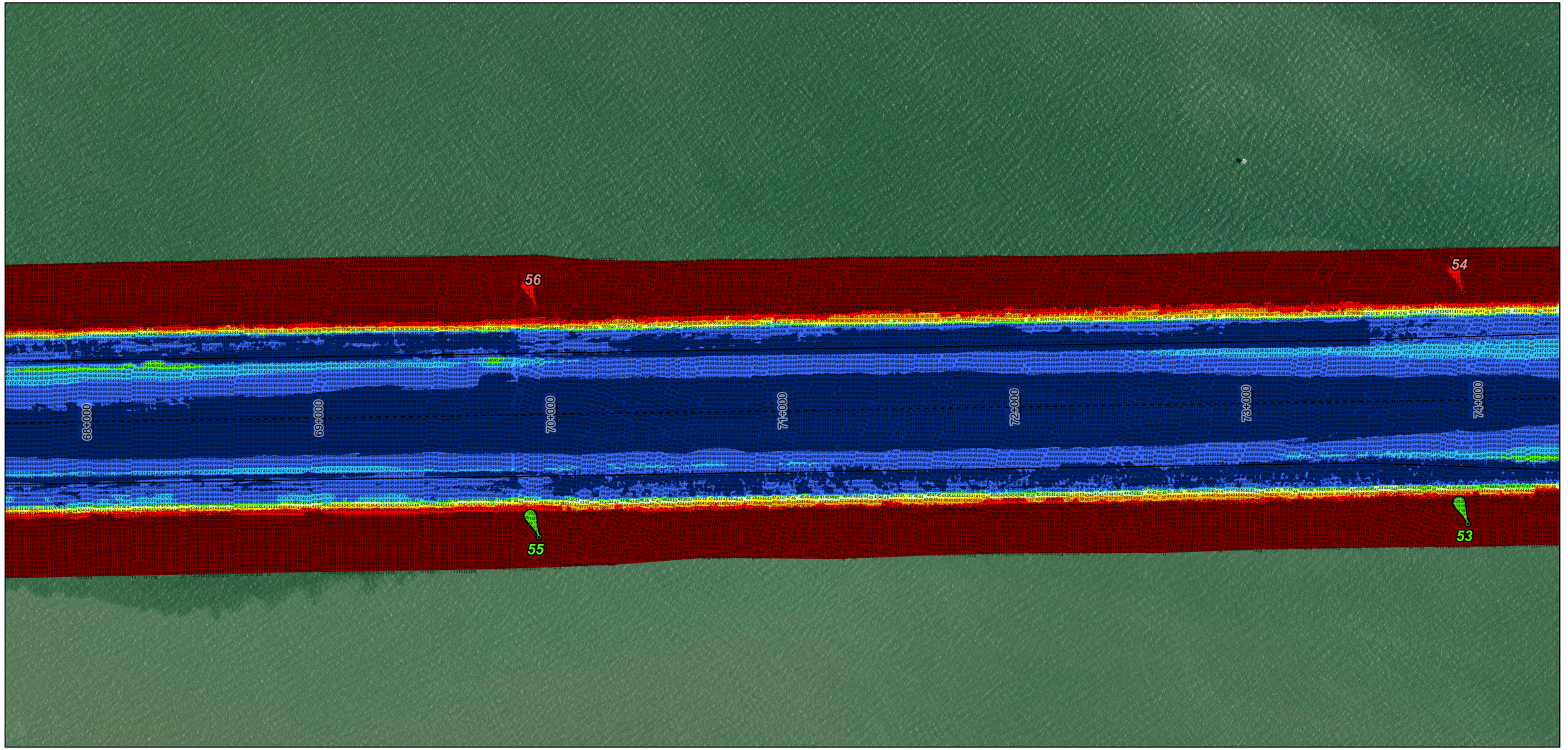
Hydrographic Survey Extent
0 215 430 860 Feet

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)

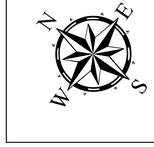




U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date:	02 March 2024
Document Page: 2 of 9	Website Index Number: 12
Scale: 1:2,500	
Mapped by: M3AOXPAC	
Additional Imagery info:	
Authorized Depth: - 46ft.	
Side Slope Ratio: 1:2.5 (Rise : Run)	
PDF Print Date: 3/7/2024	



Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

≤ 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	> 50

NOTES:
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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:

Combinded survey dates 20231020_AD13_65P000_60P000; 20231020_AD12_60P000_57P000; 20231219_PR_44P000_30P090; 20231221_PR_49P000_44P000; 20231226_BD_08_40P000_35P000; 20240102_PR_78P844_62P000; 20240104_PR_59P000_49P000; 20240202_AD_AS2_70P000_66P000; 20240302_AD_01_70P000_78P844

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

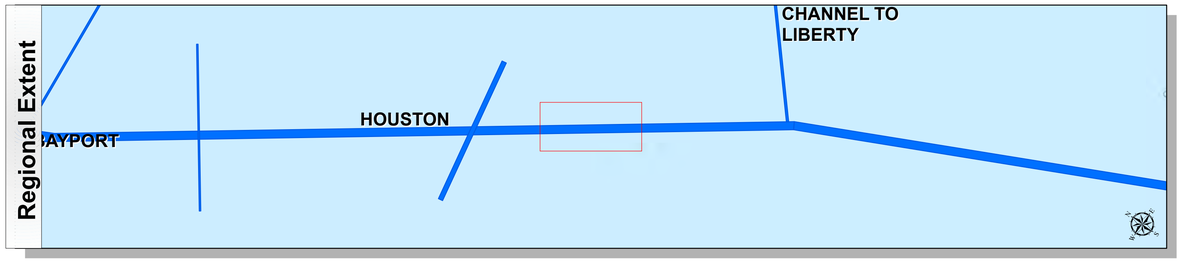
Dredging Reach Extent
0 0.25 0.5 1 Miles

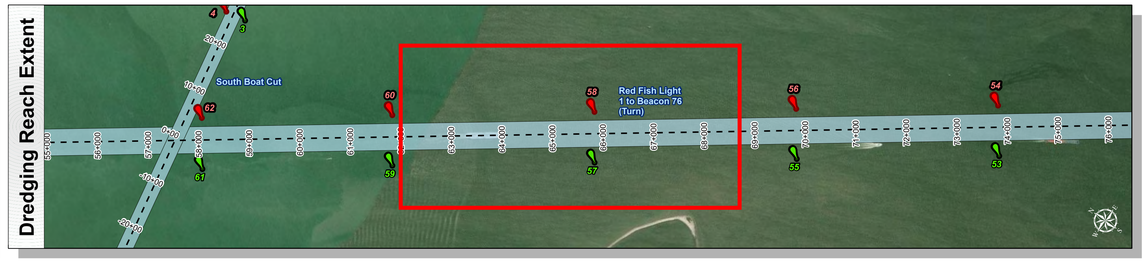
Hydrographic Survey Extent
0 215 430 860 Feet

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

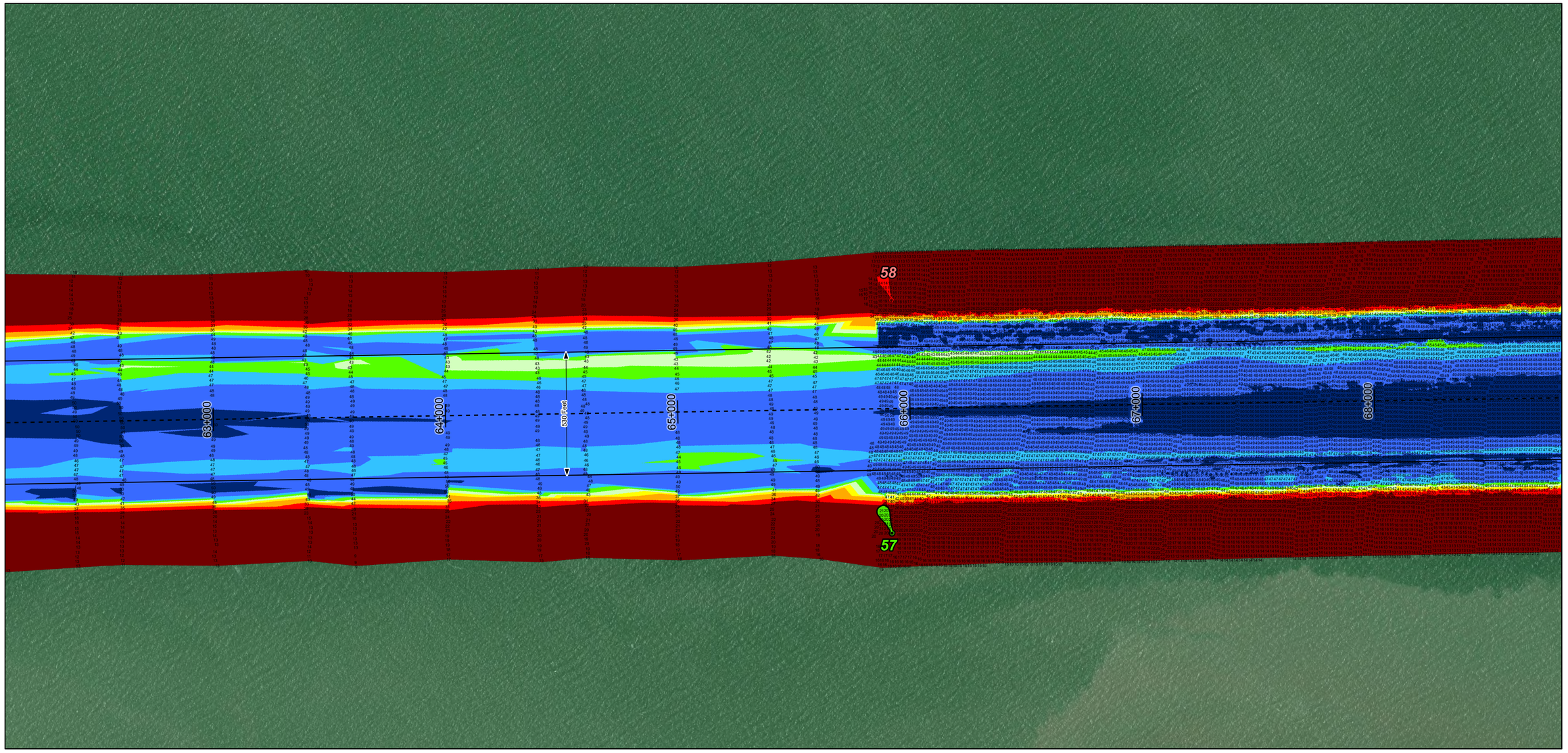
Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)





U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date:	02 March 2024
Authorized Depth: - 46ft.	
Side Slope Ratio: 1:2.5 (Rise : Run)	
Document Page: 3 of 9	Website Index Number: 13
PDF Print Date: 3/7/2024	
Scale: 1:2,500	
Mapped by: M3AOXPAC	
Additional Imagery info:	

Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

≤ 30 | 30 - 35 | 35 - 40 | 40 - 42 | 42 - 44 | 44 - 46 | 46 - 48 | 48 - 50 | > 50

NOTES:
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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:

Combinded survey dates 20231020_AD13_65P000_60P000; 20231020_AD12_60P000_57P000; 20231219_PR_44P000_30P090; 20231221_PR_49P000_44P000; 20231226_BD_08_40P000_35P000; 20240102_PR_78P844_62P000; 20240104_PR_59P000_49P000; 20240202_AD_AS2_70P000_66P000; 20240302_AD_01_70P000_78P844

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

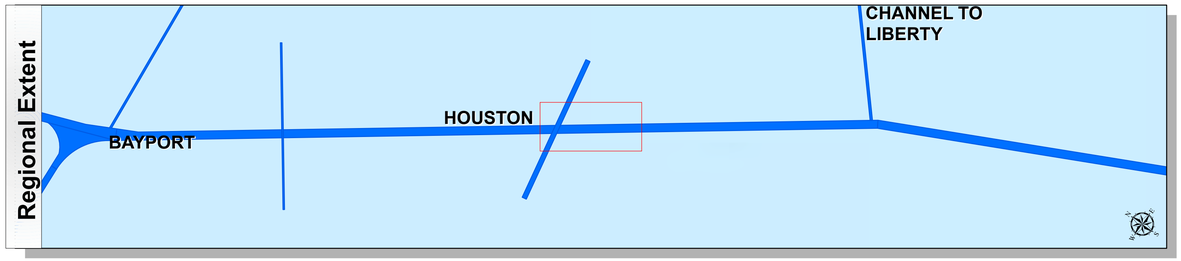
Dredging Reach Extent
0 0.25 0.5 1 Miles

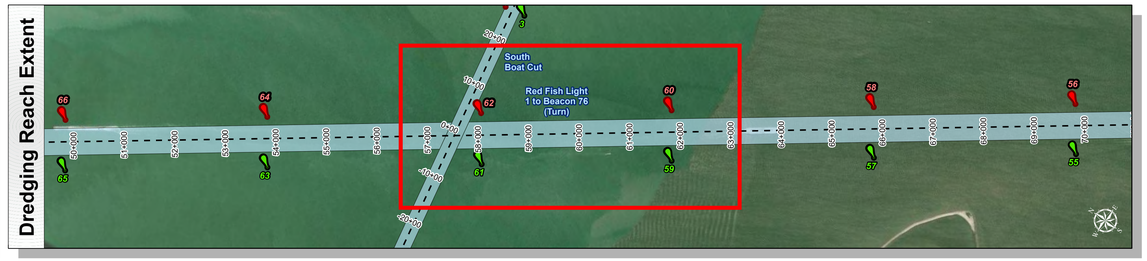
Hydrographic Survey Extent
0 215 430 860 Feet

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

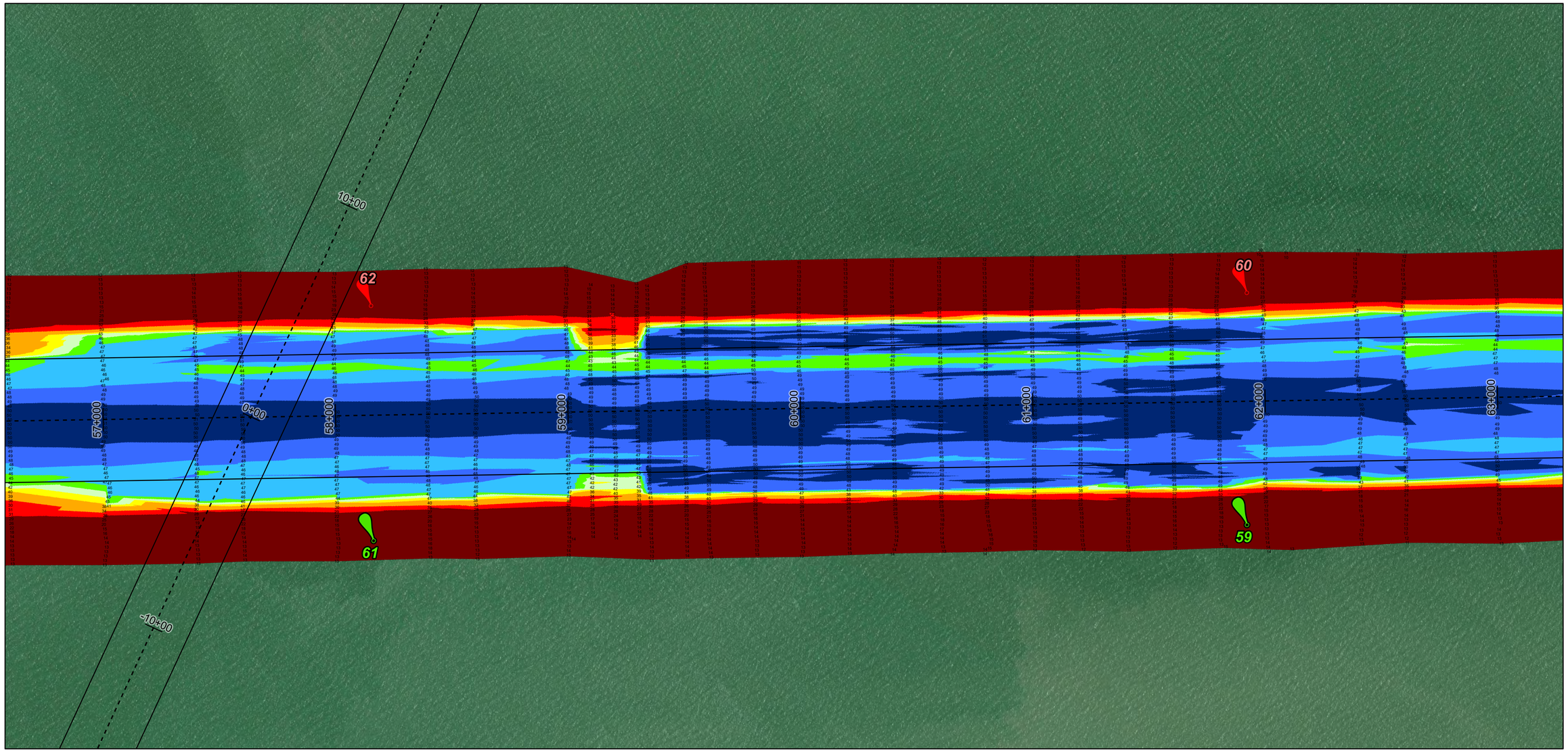
Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)





U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date:	02 March 2024
Authorized Depth: -46ft.	
Side Slope Ratio: 1:2.5 (Rise : Run)	
Document Page: 4 of 9	Website Index Number: 14
PDF Print Date: 3/7/2024	
Scale: 1:2,500	
Mapped by: M3AOXPAC	
Additional Imagery info:	

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

Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Channel Features
- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation
- Green Side Aids
- Red Side Aids
- Lights

MLLW
≤ -30 | -30 - -35 | -35 - -40 | -40 - -42 | -42 - -44 | -44 - -46 | -46 - -48 | -48 - -50 | > -50

NOTES:
1. Horizontal coordinates are referenced to texas state plane coordinate system, south central zone nad83 us survey feet.
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World_Imagery: Maxar
World Ocean Base: Esri, GEBCO, Garmin, NaturalVue

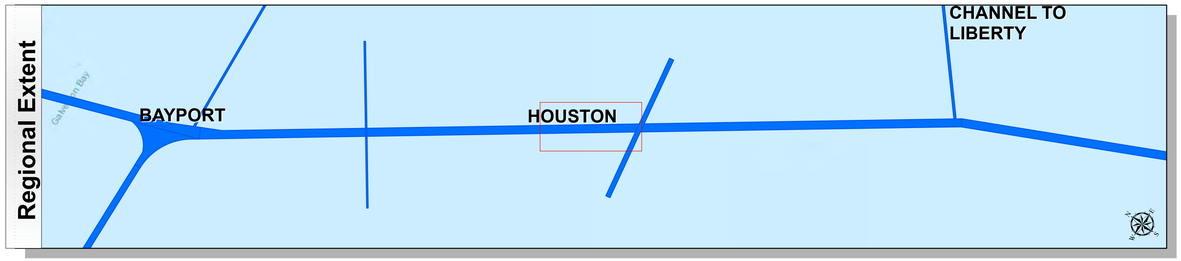
Additional Combined Survey Dates and Stationing:
Combinded survey dates 20231020_AD13_65P000_60P000; 20231020_AD12_60P000_57P000; 20231219_PR_44P000_30P090; 20231221_PR_49P000_44P000; 20231226_BD_08_40P000_35P000; 20240102_PR_78P844_62P000; 20240104_PR_59P000_49P000; 20240202_AD_AS2_70P000_66P000; 20240302_AD_01_70P000_78P844

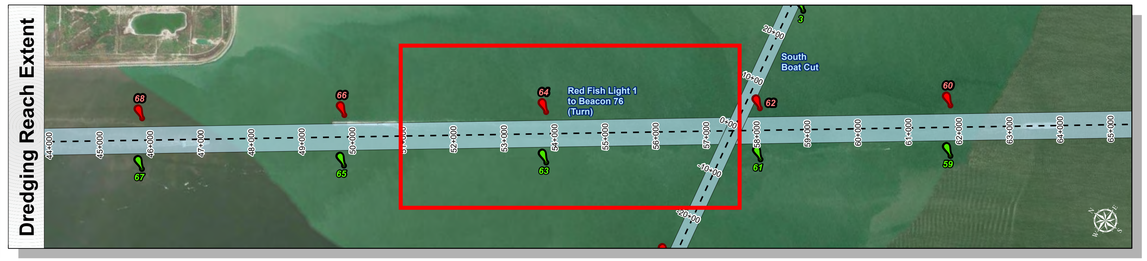
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent
0 0.25 0.5 1 Miles

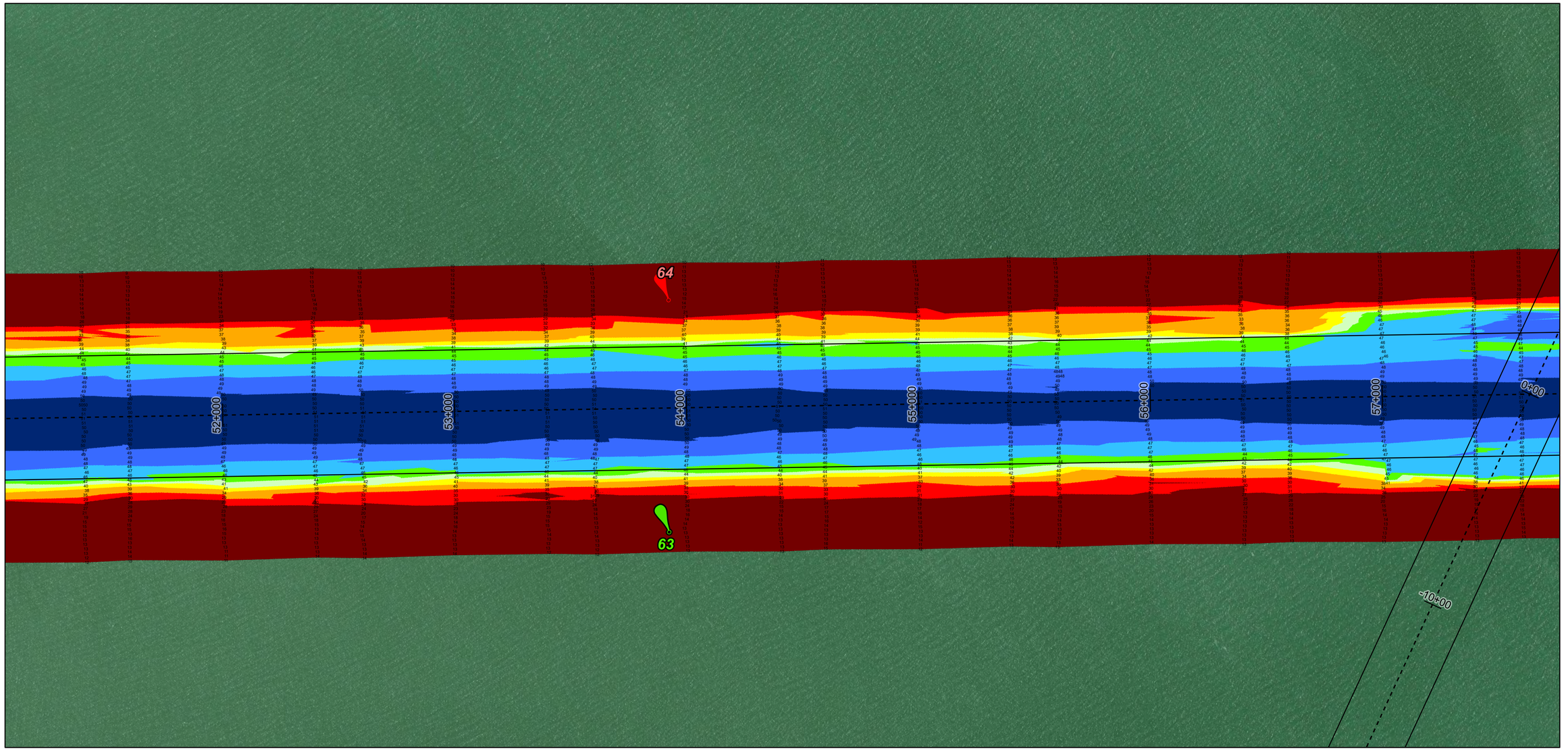
Hydrographic Survey Extent
0 215 430 860 Feet

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)





U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date:	02 March 2024
Authorized Depth: -46ft.	
Document Page: 5 of 9	Website Index Number: 15
Side Slope Ratio: 1:2.5 (Rise : Run)	
Scale: 1:2,500	PDF Print Date: 3/7/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	

Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

≤ 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	> 50

NOTES:
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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:

Combinded survey dates 20231020_AD13_65P000_60P000; 20231020_AD12_60P000_57P000; 20231219_PR_44P000_30P090; 20231221_PR_49P000_44P000; 20231226_BD_08_40P000_35P000; 20240102_PR_78P844_62P000; 20240104_PR_59P000_49P000; 20240202_AD_AS2_70P000_66P000; 20240302_AD_01_70P000_78P844

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

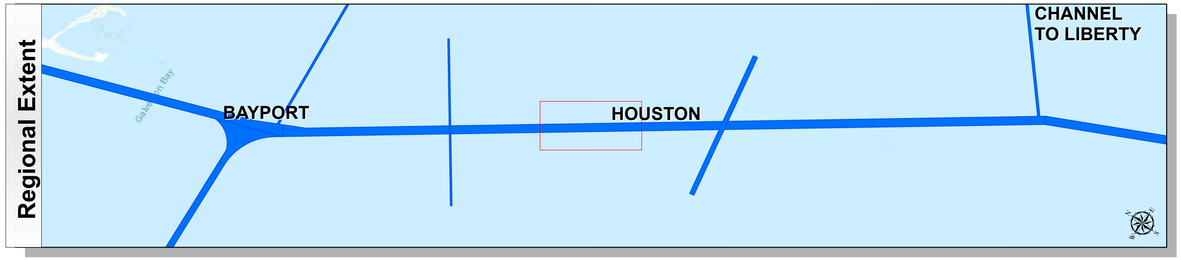
Dredging Reach Extent
0 0.25 0.5 1 Miles

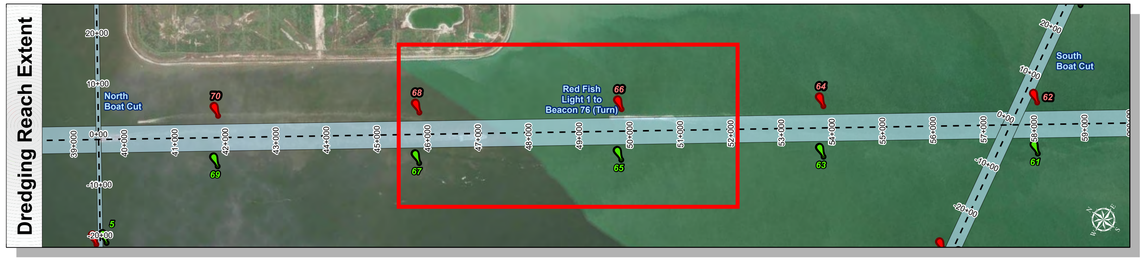
Hydrographic Survey Extent
0 215 430 860 Feet

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

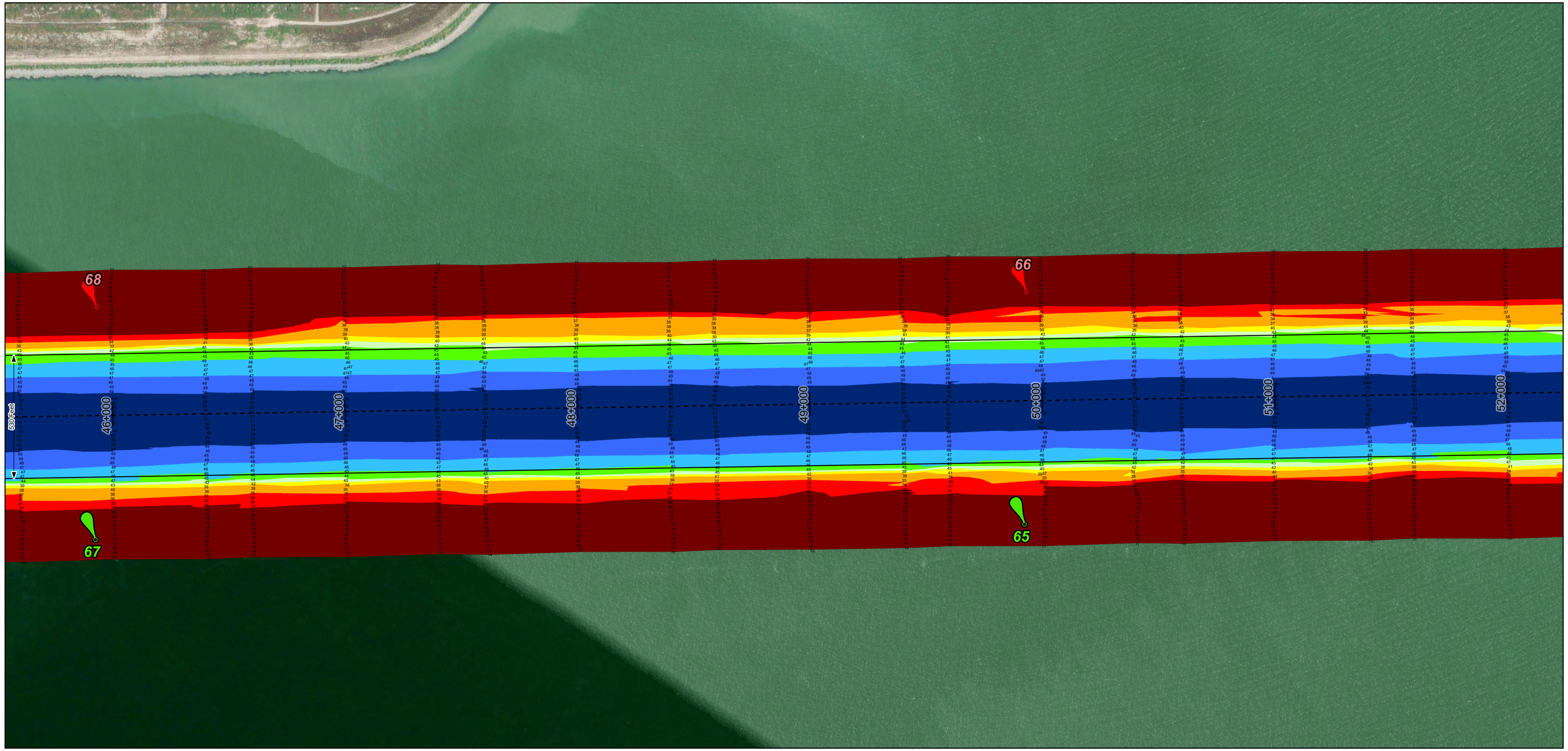
Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)





U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date:	02 March 2024
Document Page: 6 of 9	Website Index Number: 16
Scale: 1:2,500	
Mapped by: M3AOXPAC	
Additional Imagery info:	
Authorized Depth: -46ft.	
Side Slope Ratio: 1:2.5 (Rise : Run)	
PDF Print Date: 3/7/2024	

N W E S

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

Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Channel Features
- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation
- Green Side Aids
- Red Side Aids
- Lights

MLLW
≤ 30 | 30 - 35 | 35 - 40 | 40 - 42 | 42 - 44 | 44 - 46 | 46 - 48 | 48 - 50 | > 50

NOTES:
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Service Layer Credits: World Topographic Map: City of Houston, HPB, 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:

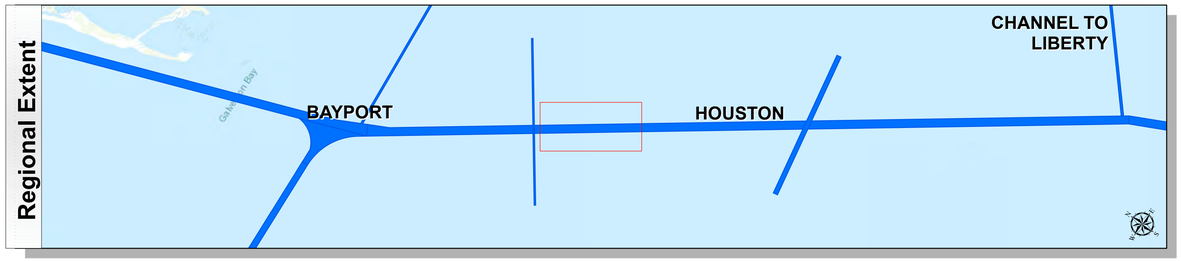
Combinded survey dates 20231020_AD13_65P000_60P000; 20231020_AD12_60P000_57P000; 20231219_PR_44P000_30P090; 20231221_PR_49P000_44P000; 20231226_BD_08_40P000_35P000; 20240102_PR_78P844_62P000; 20240104_PR_59P000_49P000; 20240202_AD_AS2_70P000_66P000; 20240302_AD_01_70P000_78P844

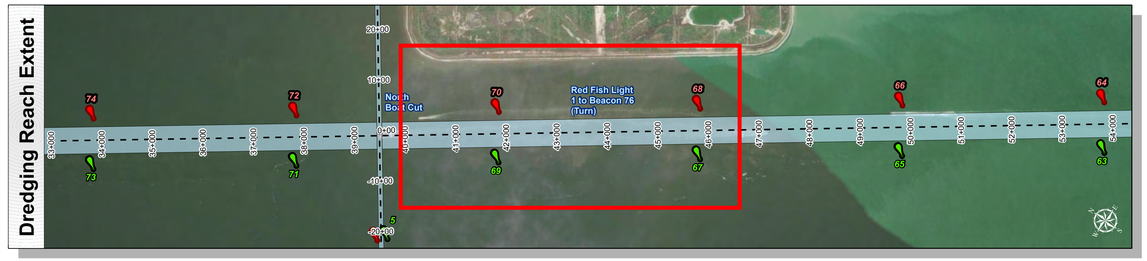
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent
0 0.25 0.5 1 Miles

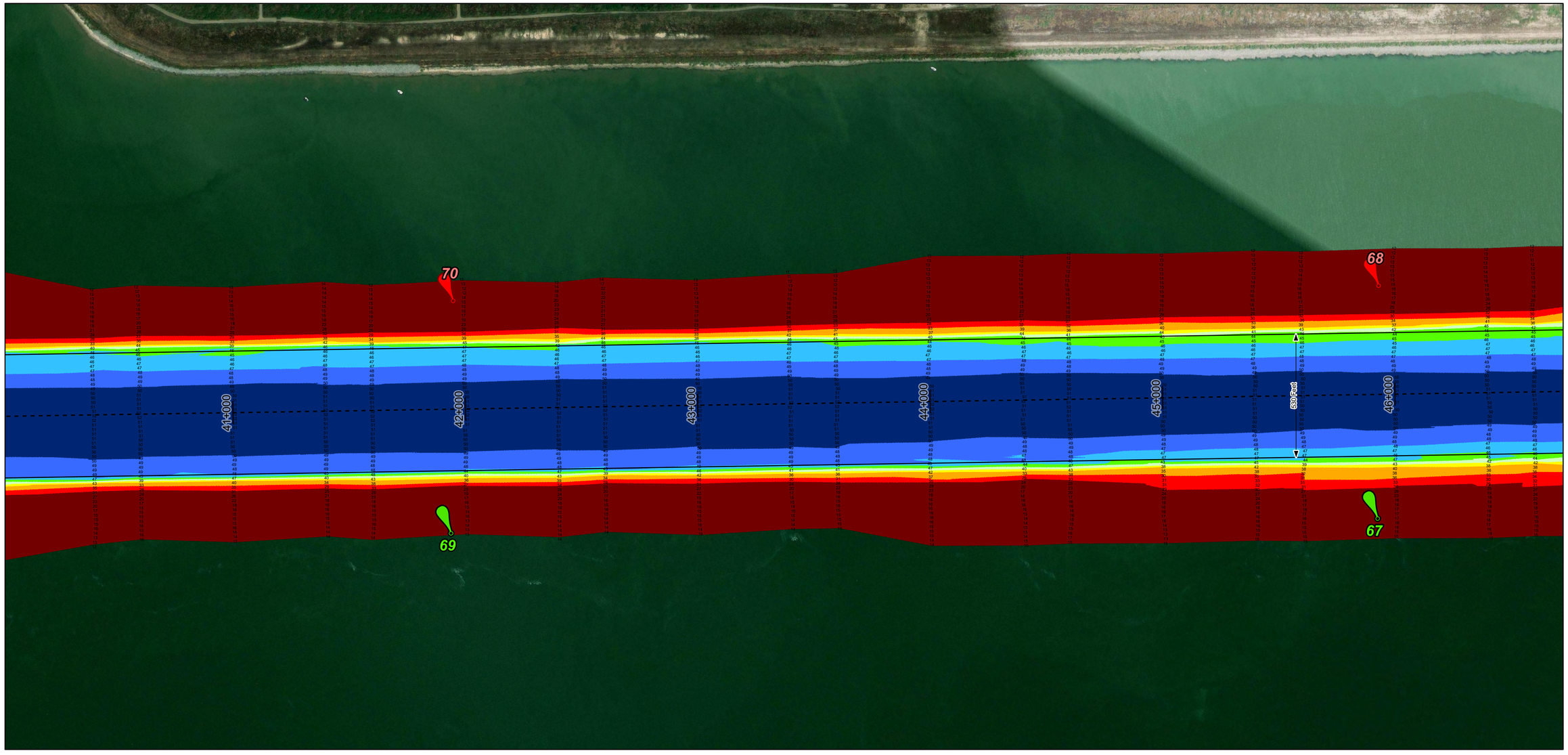
Hydrographic Survey Extent
0 215 430 860 Feet

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)



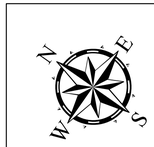


U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 02 March 2024
Document Page: 7 of 9
Scale: 1:2,500
Mapped by: M3AOXPAC
Additional Imagery info:

Authorized Depth: -46ft.
Side Slope Ratio: 1:2.5 (Rise : Run)
Website Index Number: 17
PDF Print Date: 3/7/2024



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

Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Channel Features
- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation
- Green Side Aids
- Red Side Aids
- Lights

MLLW
≤ 30 | 30 - 35 | 35 - 40 | 40 - 42 | 42 - 44 | 44 - 46 | 46 - 48 | 48 - 50 | > 50

NOTES:
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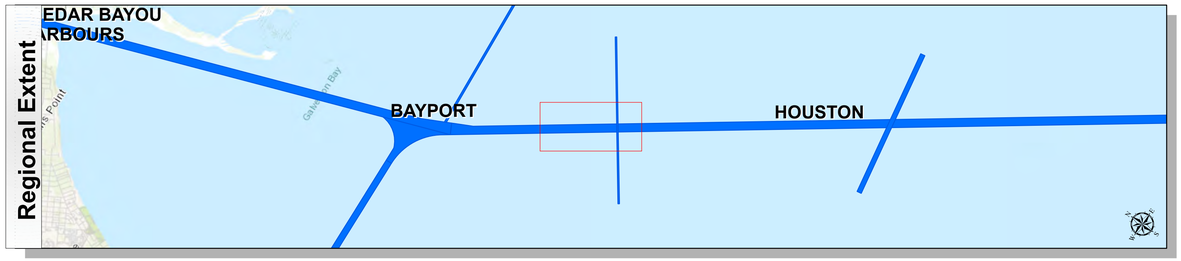
Additional Combined Survey Dates and Stationing:
Combinded survey dates 20231020_AD13_65P000_60P000; 20231020_AD12_60P000_57P000; 20231219_PR_44P000_30P090; 20231221_PR_49P000_44P000; 20231226_BD_08_40P000_35P000; 20240102_PR_78P844_62P000; 20240104_PR_59P000_49P000; 20240202_AD_AS2_70P000_66P000; 20240302_AD_01_70P000_78P844

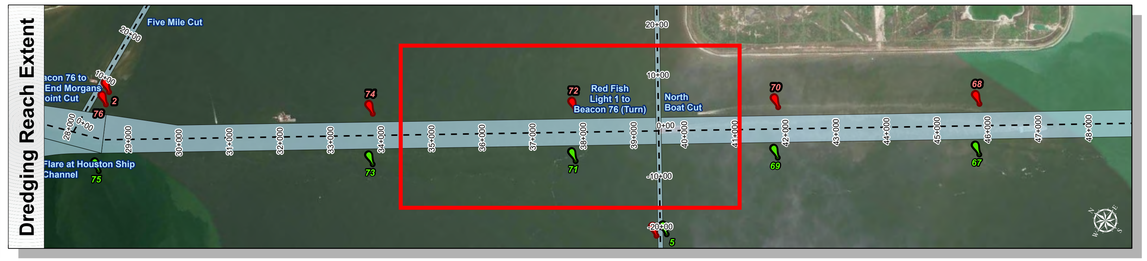
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic

Dredging Reach Extent
0 0.25 0.5 1 Miles

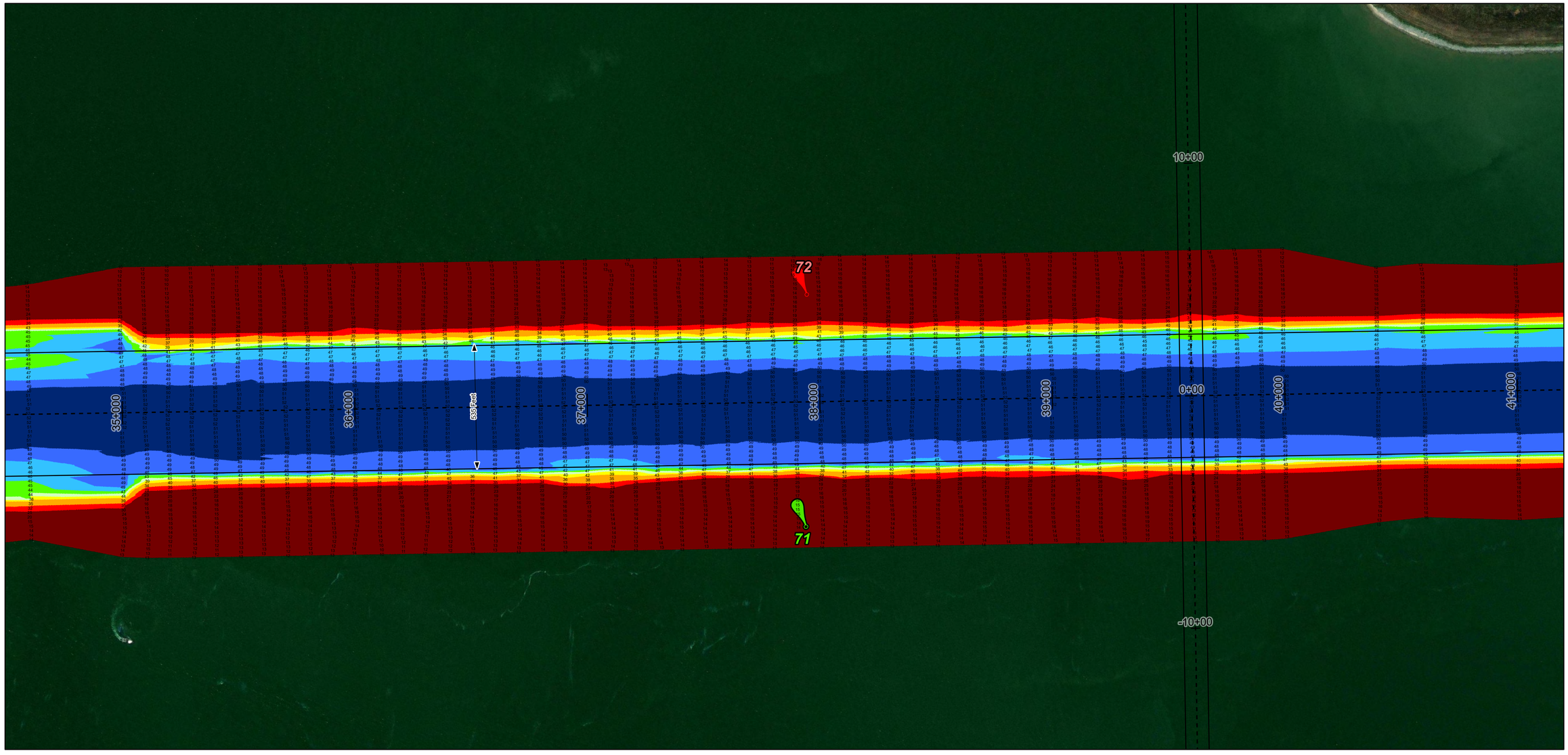
Hydrographic Survey Extent
0 215 430 860 Feet

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)





U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date:	02 March 2024
Authorized Depth: -46ft.	
Document Page: 8 of 9	Website Index Number: 18
Side Slope Ratio: 1:2.5 (Rise : Run)	
Scale: 1:2,500	PDF Print Date: 3/7/2024
Mapped by: M3AOXPAC	
Additional Imagery info:	

Channel Features

- Channel Center Line
- Channel Toe
- Channel Dimensions

Aids to Navigation

- Green Side Aids
- Red Side Aids
- Lights

MLLW

≤ 30	30 - 35	35 - 40	40 - 42	42 - 44	44 - 46	46 - 48	48 - 50	> 50

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
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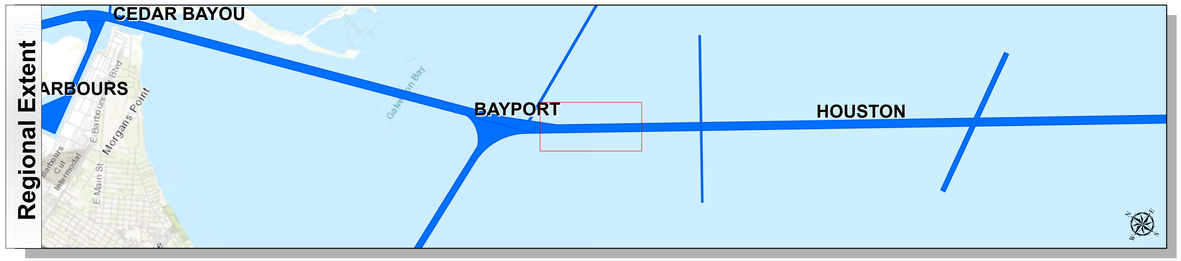
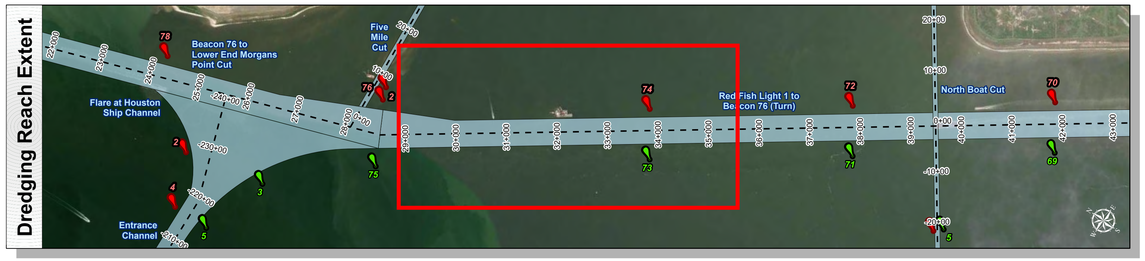
Hydrographic Survey Extent
0 215 430 860 Feet

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

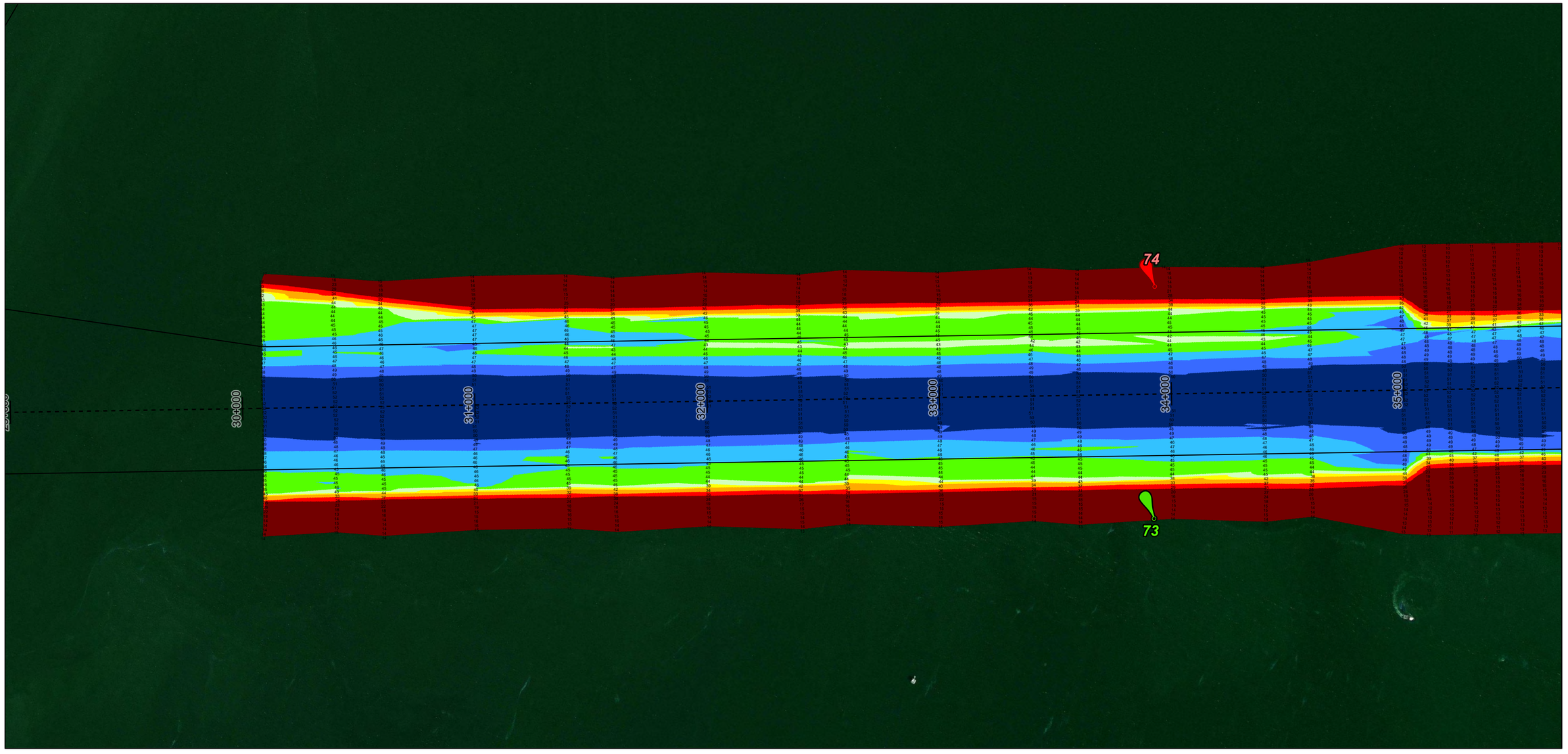
Station: 78+844 to 30+091
HOUSTON
Red Fish Light 1 to Beacon 76 (Turn)

Houston Ship Channel: Red Fish Light 1 to Beacon 76 (Turn)





U.S. Army Corps of Engineers
Galveston District



Latest Survey Collection Date: 02 March 2024
Authorized Depth: -46ft.
Document Page: 9 of 9
Website Index Number: 19
Scale: 1:2,500
Side Slope Ratio: 1:2.5 (Rise : Run)
PDF Print Date: 3/7/2024
Mapped by: M3AOXPAC
Additional Imagery info:

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

Station: 78+844 to 28+605
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Red Fish Light 1 to Beacon 76 (Turn)

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