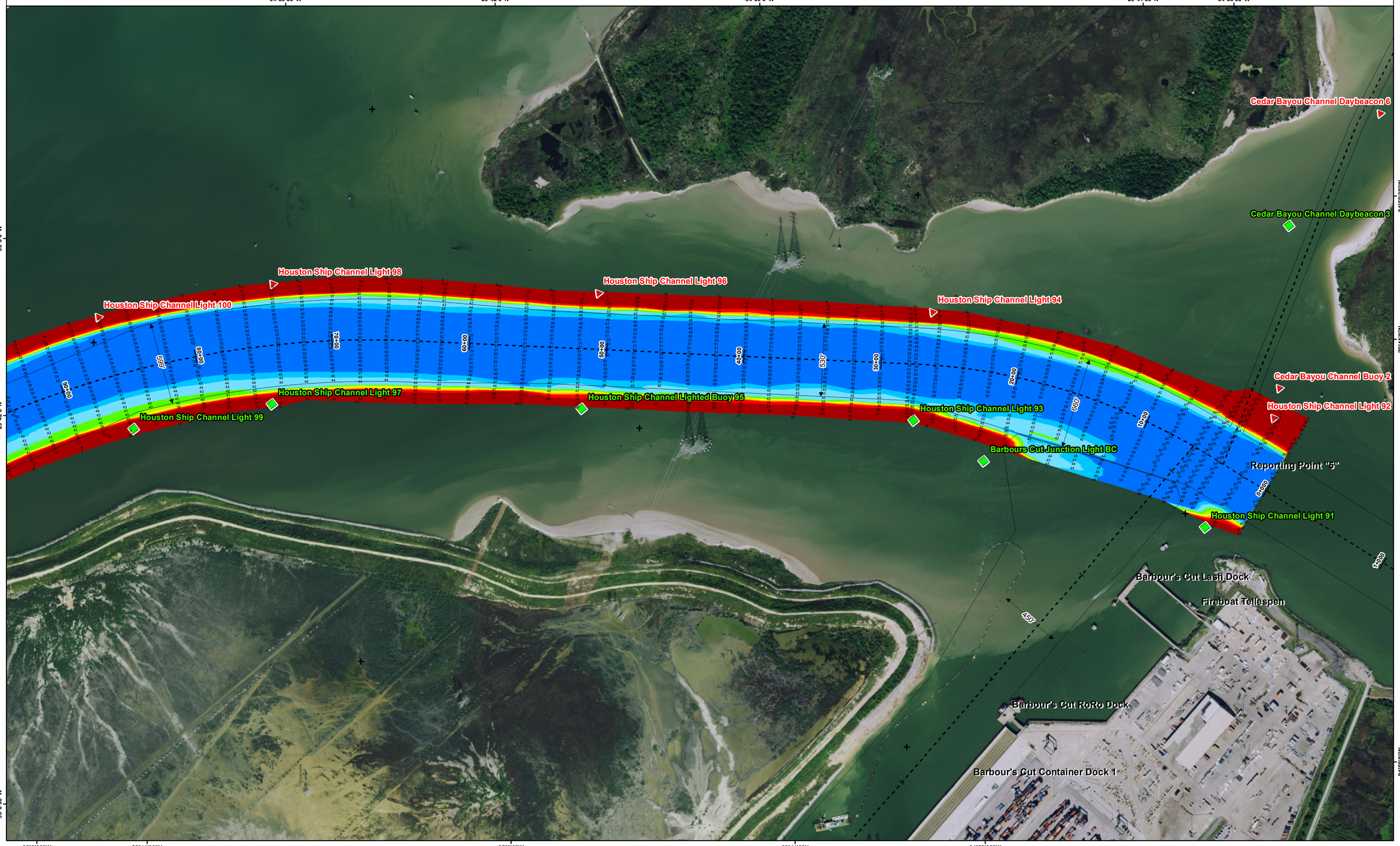
Morgans Point to Exxon Oil Slip



US Army Corps of Engineers ®
Galveston District

Authorized Depth: -45ft.
Side Slope Ratio: 1:2.5 (Rise : Run)

Survey Date(s): 30 June 2015
Page 33 of 487 Map: 33
Scale: 1:3,740

Mapped by: m3odnrvk
Imagery Date: October 27, 2013 © DigitalGlobe Inc.

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

Morgans Point to Exxon Oil Slip
Station: 0+000(Bayou) to 295+00 (230+00)
Houston Ship Channels
HOUSTON, TEXAS

Channel_Footprint
Dimensions
Navigation Centerline

Aids to Navigation
Lights
Red Side Aids
Green Side Aids
Mooring Buoy

30 and Shallower	30 - 34	34 - 36	36 - 38	38 - 40	40 - 42	42 - 45	45 - 47	47 and Deeper

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 LOW TIDE (MLT) 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.
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: WWW.SWG.USACE.ARMY.MIL

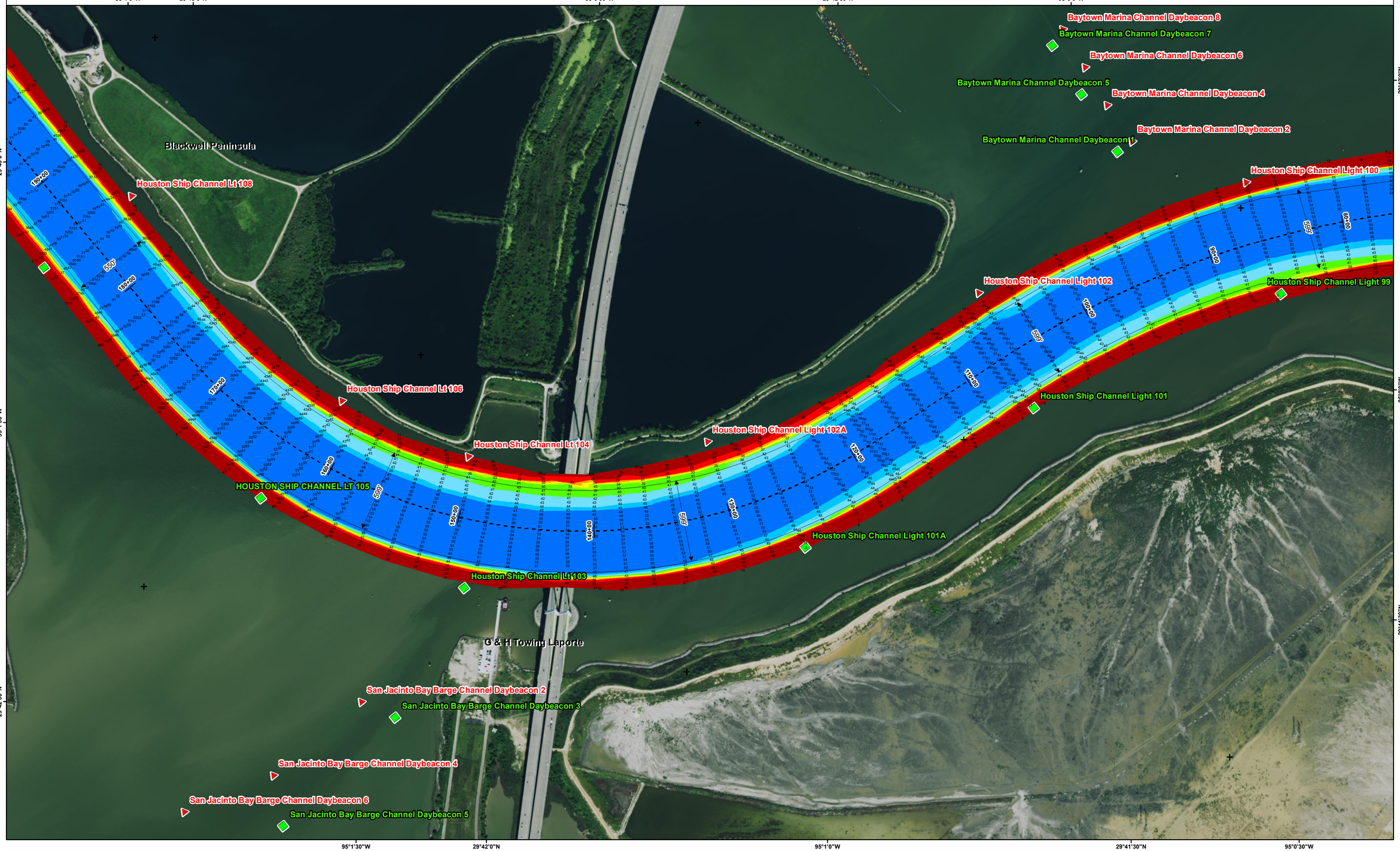
N W E S

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 1,968,500.0000
False Northing: 13,123,333.3333
Central Meridian: -99.0000
Standard Parallel 1: 28.3833
Standard Parallel 2: 30.2833
Latitude Of Origin: 27.8333
Units: Foot US

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User

0 230 460 920 1,380 Feet

Morgans Point to Exxon Oil Slip



Channel_Footprint
Dimensions
Navigation Centerline

Aids to Navigation

- Lights
- Red Side Aids
- Green Side Aids
- Mooring Buoy

30 and Shallower | 30 - 34 | 34 - 36 | 36 - 38 | 38 - 40 | 40 - 42 | 42 - 45 | 45 - 47 | 47 and Deeper

NOTES:

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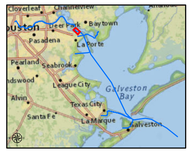
N E S W

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 1,968,500.0000
False Northing: 13,123,333.3333
Central Meridian: -99.0000
Standard Parallel 1: 28.3833
Standard Parallel 2: 30.2833
Latitude Of Origin: 27.8333
Units: Foot US

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User

0 230 460 920 1,380 Feet

US Army Corps of Engineers ®
Galveston District



Authorized Depth: -45ft.
Side Slope Ratio: 1:2.5 (Rise : Run)

Survey Date(s): 30 June 2015
Page 34 of 487 Map: 34
Scale: 1:3,760

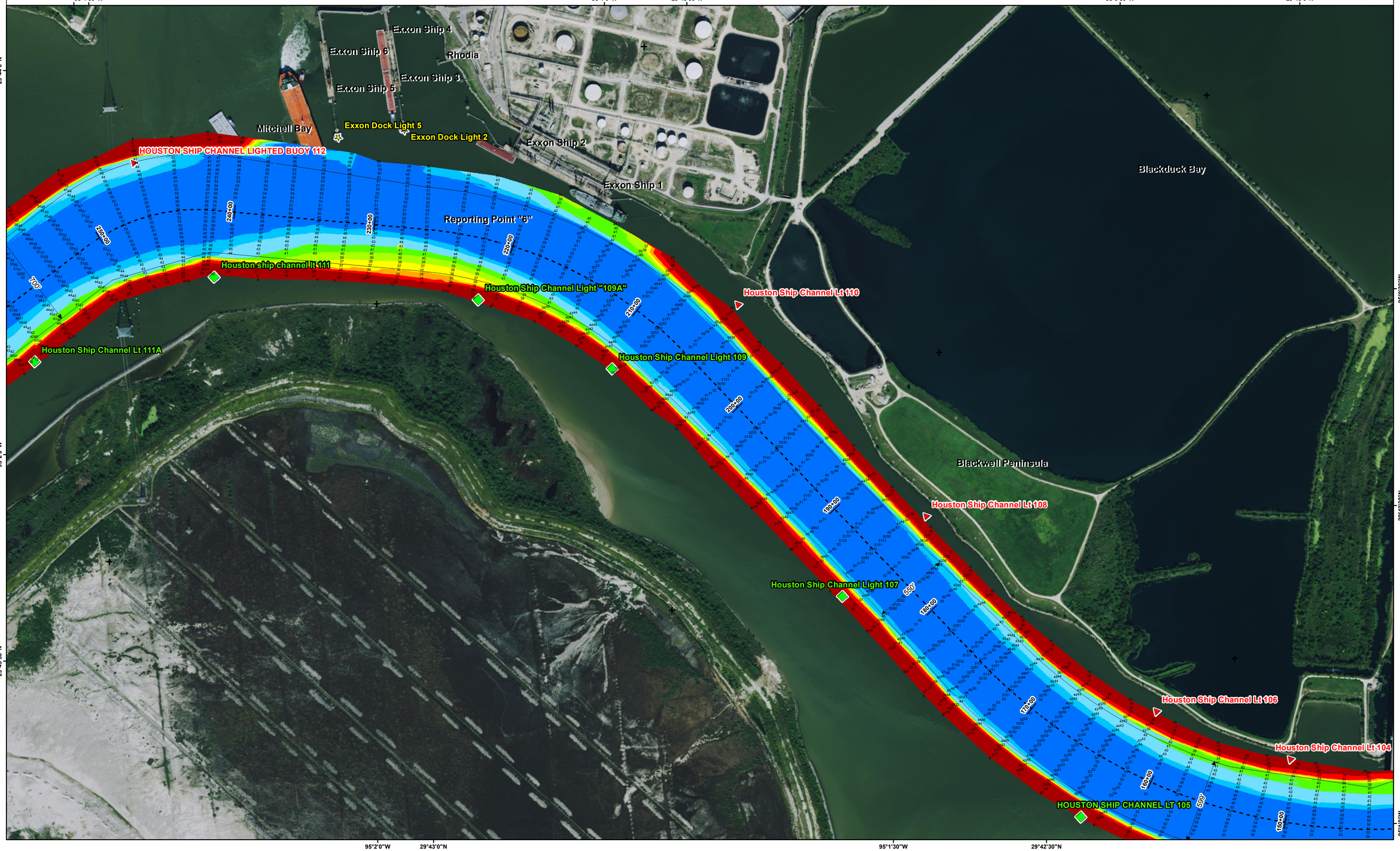
Mapped by: m3odnrvk

Imagery Date: October 27, 2013 © DigitalGlobe Inc.

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

Morgans Point to Exxon Oil Slip
Station: 0+000(Bayou) to 295+00 (230+00)
Houston Ship Channels
HOUSTON, TEXAS

Morgans Point to Exxon Oil Slip



Channel_Footprint
Dimensions
Navigation Centerline

Aids to Navigation

- Lights
- Red Side Aids
- Green Side Aids
- Mooring Buoy

30 and Shallower	30 - 34	34 - 36	36 - 38	38 - 40	40 - 42	42 - 45	45 - 47	47 and Deeper

NOTES:

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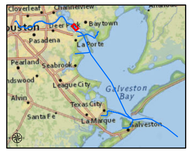
N W E S

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 1,968,500.0000
False Northing: 13,123,333.3333
Central Meridian: -99.0000
Standard Parallel 1: 28.3833
Standard Parallel 2: 30.2833
Latitude Of Origin: 27.8333
Units: Foot US

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User

0 225 450 900 1,350 Feet

US Army Corps of Engineers ®
Galveston District



Survey Date(s): 30 June 2015
Page 35 of 487 Map: 35
Scale: 1:3,660

Authorized Depth: -45ft.
Side Slope Ratio: 1:2.5 (Rise : Run)

Mapped by: m3odnrvk

Imagery Date: October 27, 2013 © DigitalGlobe Inc.

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

Morgans Point to Exxon Oil Slip
Station: 0+000(Bayou) to 295+00 (230+00) Houston Ship Channels
HOUSTON, TEXAS

Exxon Oil Slip to Carpenters Bayou

95°2'0"W 95°1'30"W 29°44'0"N 95°1'0"W

Exxon BRG 13
Exxon BRG 12
Exxon BRG 11
Exxon BRG 10
Exxon BRG 8
Exxon Ship 6
Exxon Ship 4
Exxon Ship 5
Exxon Ship 3
Rhodia
Exxon Dock Light 5
Exxon Dock Light 2
Exxon Ship 2
Exxon Ship 1
HOUSTON SHIP CHANNEL LIGHTED BUOY 112
Mitchell Bay
Houston Ship Channel Light 112A
Houston Ship Channel Lt 114
Houston Ship channel lt 111
Houston Ship Channel Lt 111A
Reporting Point "6"
Houston Ship Channel Light "109A"
Houston Ship Channel Light "113"
Houston Ship Channel Light 109

250+00 700 240+00 260+00 230+00 270+00 220+00 280+00 290+00 210+00

29°44'0"N 29°43'30"N 95°2'30"W

95°2'30"W 29°43'30"N 95°2'0"W 95°1'30"W

Channel_Footprint
Dimensions
Navigation Centerline

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

30 and Shallower	30 - 34	34 - 36	36 - 38	38 - 40	40 - 42	42 - 45	45 - 47	47 and Deeper

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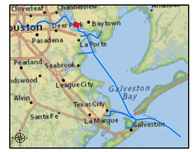
N W E S

Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 1,968,500.0000
False Northing: 13,123,333.3333
Central Meridian: -99.0000
Standard Parallel 1: 28.3833
Standard Parallel 2: 30.2833
Latitude Of Origin: 27.8333
Units: Foot US

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User

0 175 350 700 1,050 Feet

US Army Corps of Engineers ®
Galveston District

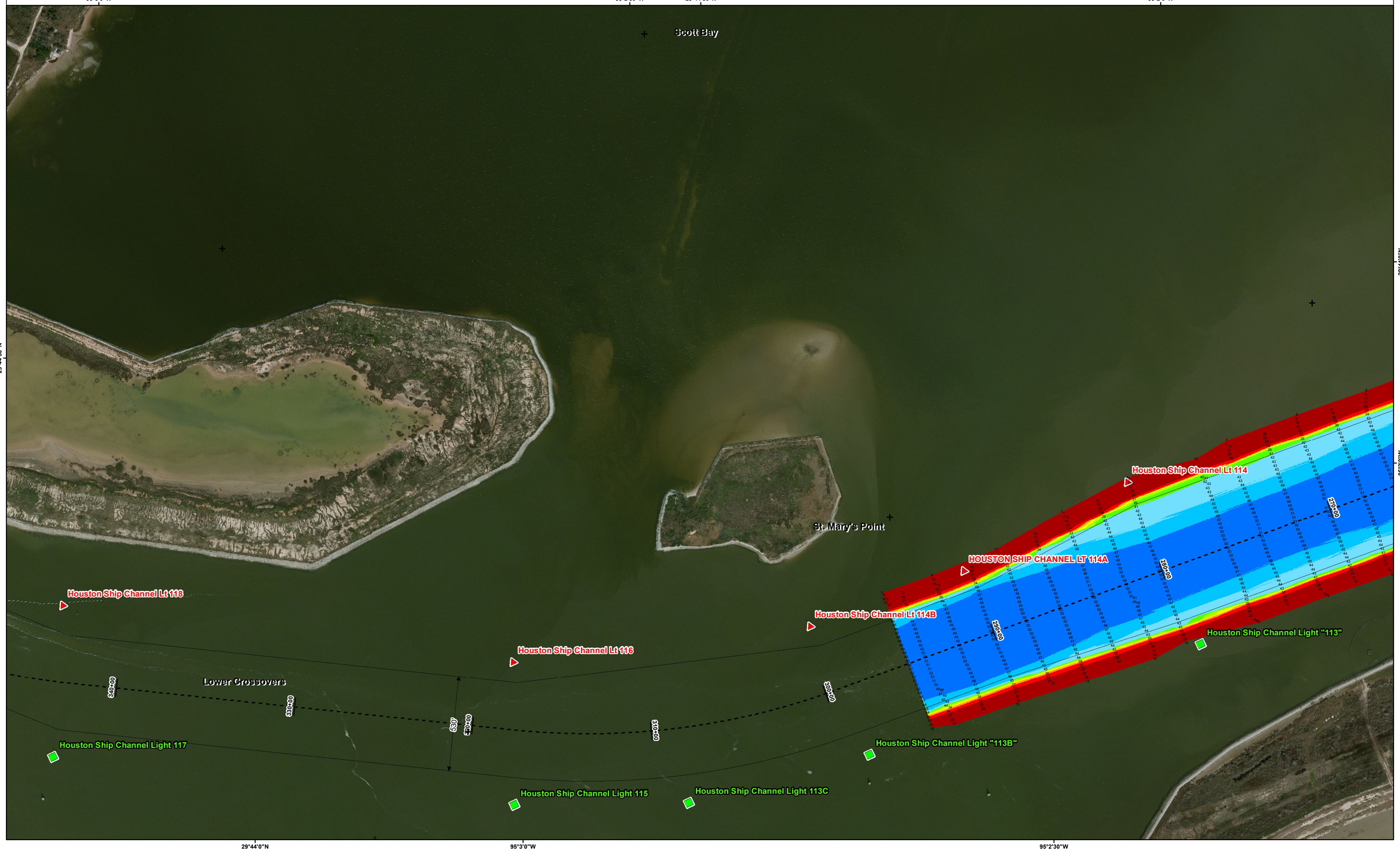


Authorized Depth: -45ft.	
Side Slope Ratio: 1:2.5 (Rise : Run)	
Survey Date(s): 30 June 2015	
Page 36 of 487	Map: 36
Scale: 1:2,880	
Mapped by: m3odnrvk	
Imagery Date: October 27, 2013 © DigitalGlobe Inc.	

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

Exxon Oil Slip to Carpenters Bayou
Station: 295+00 (230+00) to 520+00
Houston Ship Channels
HOUSTON, TEXAS

Exxon Oil Slip to Carpenters Bayou



Channel_Footprint
Dimensions
Navigation Centerline

Aids to Navigation

- Lights
- Red Side Aids
- Green Side Aids
- Mooring Buoy

30 and Shallower	30 - 34	34 - 36	36 - 38	38 - 40	40 - 42	42 - 45	45 - 47	47 and Deeper

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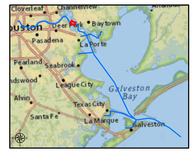
Projection: Lambert Conformal Conic
Datum: North American 1983
False Easting: 1,968,500.0000
False Northing: 13,123,333.3333
Central Meridian: -99.0000
Standard Parallel 1: 28.3833
Standard Parallel 2: 30.2833
Latitude Of Origin: 27.8333
Units: Foot US

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User

0 175 350 700 1,050 Feet

US Army Corps of Engineers ®
Galveston District



Authorized Depth: -45ft.	
Side Slope Ratio: 1:2.5 (Rise : Run)	
Survey Date(s): 30 June 2015	
Page 37 of 487	Map: 37
Scale: 1:2,870	
Mapped by: m3odnvk	
Imagery Date: October 27, 2013 © DigitalGlobe Inc.	

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

Exxon Oil Slip to Carpenters Bayou
Station: 295+00 (230+00) to 520+00
Houston Ship Channels
HOUSTON, TEXAS