

# BookletChart™



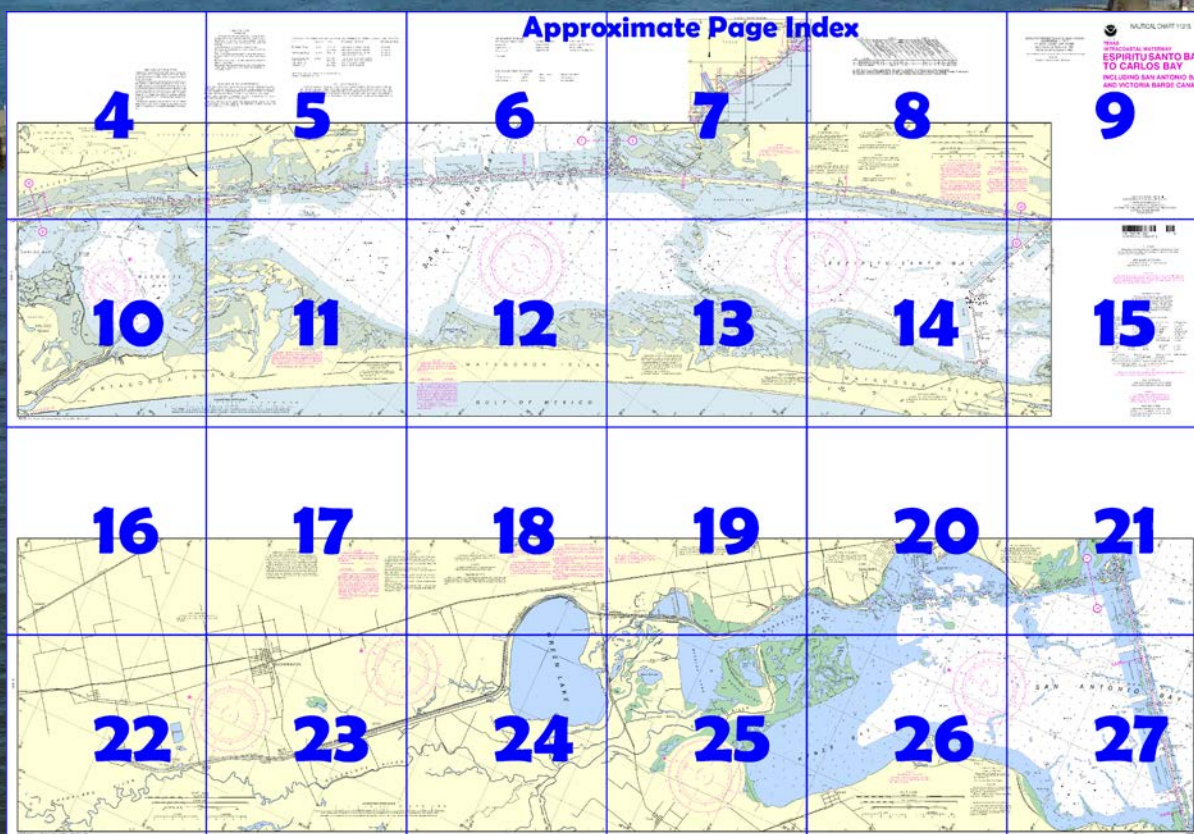
## ***Intracoastal Waterway – Espiritu Santo Bay to Carlos Bay NOAA Chart 11315***

***A reduced-scale NOAA nautical chart for small boaters***

***When possible, use the full-size NOAA chart for navigation.***



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



**Published by the  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Office of Coast Survey  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
888-990-NOAA**

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=11315>.



### (Selected Excerpts from Coast Pilot)

**Espirito Santo** and San Antonio, Mesquite, and Aransas Bays are a series of shallow bodies of water extending SW along the coast for a distance of 50 miles from Pass Cavallo to Aransas Pass, separated from the Gulf by Matagorda Island and **San Jose Island**. The bays are filled with islands, reefs, and shoals, and are of little commercial importance except as a link in the Intracoastal Waterway.

**Espirito Santo Bay** has depths up to 8 feet.

In the E part of the bay, **Ferry Channel** extends from the waterway S to a fish and wildlife reserve at the former Matagorda Air Force Range on Matagorda Island. The channel is marked by a light and daybeacons. In

1984, the reported controlling depth was 8 feet. The bay is entered from Matagorda Bay through the Intracoastal Waterway and the channel.

**San Antonio Bay** has depths up to 5 and 6 feet. It is separated from Espirito Santo Bay by the **First Chain of Islands**, through which are South Pass and Steamboat Pass. **South Pass**, an old unmarked dredged cut, has a depth of about 4 feet. The channel extends between two islands and close to the privately maintained markers on the N side of the S island. **Steamboat Pass**, 1.5 miles to the N, has less than 3 feet of water. The Intracoastal Waterway crosses San Antonio Bay from the vicinity of **Grass Island to False Live Oak Point**. The spoil banks on both sides of the channel have several openings. Small islets are in the spoil bank area.

Numerous reefs, some of which bare at low water, are in and about the bay, particularly in the upper end. They make navigation difficult, and local information is essential.

N of **Swan Point** and **McDowell Point** the delta of Guadalupe River divides the head of San Antonio Bay into **Guadalupe Bay** and **Mission Lake** on the E and **Hynes Bay** on the W. **Goff Bayou** and **Schwing Bayou** flow into Mission Lake.

**Guadalupe River** empties into the N end of San Antonio Bay. A depth of about 2 feet can be carried from the bay into the N fork of the river.

Snags and driftwood make navigation almost impossible, but there are navigable depths as far as the San Antonio River, about 10 miles above the mouth.

**Victoria Barge Canal** is a dredged channel that leads from the Intracoastal Waterway NW along the E side of San Antonio Bay, thence through landcuts along the E side of Guadalupe Bay, Mission Lake, and Green Lake, thence in a dredged cut to **Pickering Basin (Port of Victoria)** about 30 miles above the Intracoastal Waterway and about 7 miles below the city of **Victoria**. In 2010-2011, the midchannel controlling depth was 10 feet to the turning basin, thence 11 feet was available in the basin. A 330-foot public dock with 9 feet alongside is in the basin; water and electricity are available.

State Route 35 fixed highway bridge with a clearance of 50 feet, the Missouri-Pacific railroad lift bridge with a clearance of 22 feet down and 50 feet up, and a fixed highway bridge with a clearance of 49 feet, cross the channel 15 miles, 25 miles, and 27.6 miles, respectively, above the Intracoastal Waterway. (See **117.1 through 117.59**, chapter 2, for drawbridge regulations.) Least clearance of overhead power and telephone cables crossing the channel is 53 feet.

About 5.3 miles above the Intracoastal Waterway, a dredged channel leads E from Victoria Barge Canal to a turning basin at **Seadrift**. In 2010, the controlling depth in the channel and basin was 9 feet.

The facilities in the basin are under the control of the Westside Calhoun County Navigation District. Mooring dolphins are along the N side of the basin, and a wharf is on the S side of the basin. The facilities are used to unload shell from barges, to load and unload barge shipments of general cargo, and for the fueling of vessels. In addition, there are service wharves and seafood processing plants in the basin. Gasoline, diesel fuel, water, ice, and some provisions are available.

Seadrift, a small fishing and farming community, has highway connections.

A private channel about 0.3 mile S of the channel to Seadrift, privately marked by stakes, leads to a resort housing development at Swan Point. In 1999, a depth of 3.8 feet was reported in the channel with 3.0 feet in the harbor.

### U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC New Orleans

Commander

8th CG District

New Orleans, LA

(504) 589-6225



# Navigation Manager Regions



To make suggestions, ask questions, or report a problem with a chart, go to <https://www.nauticalcharts.noaa.gov/customer-service/assist/>

## Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at <http://www.navcen.uscg.gov>

PUE

HURRICANES AND TROPICAL STORMS

Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved.

SCALE 1:40,000  
Nautical Miles

Statute Miles

Yards

LATITUDE

LONGITUDE

BLACK JACK PENINSULA

Sundown Bay

Carlos Bay

Ayres Bays

Bludworth Island Obsns PA

Cedar Pt

Cedar Dugout

Third Chain of Islands

Rattlesnake Reef

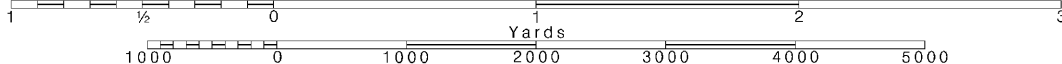
Joins page 10

Joins page 10

SCALE 1:40,000  
Nautical Miles

4

Note: Chart grid lines are aligned with true north.



# RULES OF THE ROAD (ABRIDGED)

Powerless craft have the right-of-way in almost all cases. Motor vessels and motorboats less than sixty-five feet in length shall not hamper, in a narrow channel, the safe passage of a vessel which can navigate only inside that channel. A boat being overtaken has the right-of-way. Two boats approaching head to head or nearly so should port to port. Motorboats approach each other at right angles or nearly so, the boat on the right has the right-of-way in most cases. Boats must keep to the right in narrow channels when it is not practicable. Boats are urged to become familiar with the complete text of the Rules of the Road in U.S. Coast Guard publication 9-1.1.

| CITY                 | STATION | FREQ.                 | BROADCAST TIMES-CST  | SPECIAL WARNING          |
|----------------------|---------|-----------------------|--|--------------------------|
| Port Isabel, Texas   | NCH     | 2670 kHz<br>157.1 MHz | 4:40, 6:40 & 10:40 AM 4:40 PM<br>4:45, 6:45 & 10:45 AM 4:45 PM | On receipt<br>On receipt |
| Port Aransas, Texas  | NOY-3   | 2670 kHz              | 4:30, 6:30 & 10:30 AM 4:30 PM<br>4:40 & 6:40 AM 4:40 PM        | On receipt<br>On receipt |
| Corpus Christi, Tex. | NOY-8   | 2670 kHz              | 4:40, 6:40 & 10:40 AM & 4:40 PM                                |                          |
| Port Isabel, Tex.    | "       | 2670 kHz              | 4:40, 6:40 & 10:40 AM & 4:40 PM                                |                          |
| Port Isabel, Tex.    | "       | 157.1 MHz             | 5:00, 11:00 AM & 5:00 PM                                       |                          |
| Robstown, Tex.       | "       | 157.1 MHz             | 5:00, 11:00 AM & 5:00 PM                                       |                          |

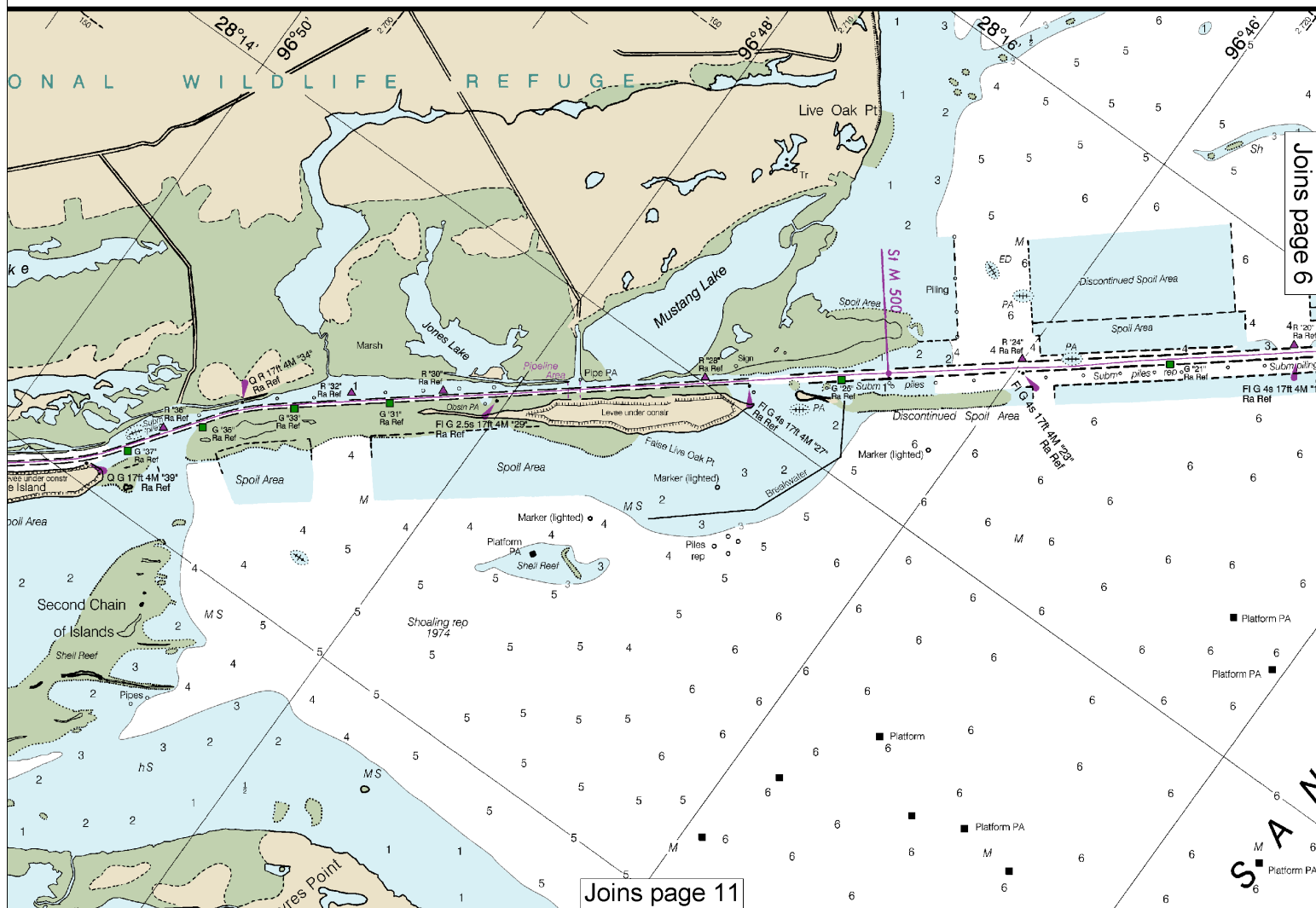
MARINE WEATHER FORECAST  
NATIONAL WEATHER SERVICE  
CITY TELEPHONE  
Corpus Christi, TX (361) 841-3611  
\*Recording (24 hours daily)

Distress calls for small craft are made on 2182 kHz or channel 16 (156.80 MHz) VHF.

NOAA WEATHER RADIO  
CITY  
Corpus Christi, TX  
Port O'Connor, TX

## PUBLIC BOATING INSTRUCTION PROGRAMS

The U.S. Coast Guard Auxiliary (USCA) and U.S. Coast Guard Auxiliary (USCA) are national organizations of boatmen, conduct extensive boating instruction in communities throughout the United States. For information on boating instruction courses, contact the following sources:  
1. District Commander or USCA Headquarters, 1504 Blue Ridge Road, NC 27607, 888-367-8777  
2. District Commander (OAX), Eighth Coast Guard District, Hale Boggs Suite 1126, 500 Poydras Street, New Orleans, LA 70130  
3. USCA Headquarters, Office of the Chief Director (G-OCX), 2100 Pennsylvania Avenue, Washington, DC 20593



This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



# STATIONS WARNING

## MARINE WEATHER FORECASTS NATIONAL WEATHER SERVICE

CITY TELEPHONE NUMBER  
Corpus Christi, TX (361) 289-0959  
\*(361) 289-0753

\*Recording (24 hours daily)

## OFFICE HOURS

8:00 AM-5:00 PM (Mon.-Fri.)

## NOAA WEATHER RADIO BROADCASTS

| CITY               | STATION | FREQ. (MHz) | BROADCAST TIMES |
|--------------------|---------|-------------|-----------------|
| Corpus Christi, TX | KHB-41  | 162.550     | 24 hours daily  |
| Port O'Connor, TX  | WXL-26  | 162.475     | 24 hours daily  |

## INTRACOASTAL WATERWAY

### Project Depth

12 feet Carrabelle, FL to Brownsville, TX.  
Consult the U.S. Army Corps of Engineers for controlling depths and U.S. Coast Guard Local Notice to Mariners for other navigation hazards or restrictions.

Uncharted shoals may exist in areas which have not been recently surveyed. Please report shoals and obstructions at <http://nauticalcharts.noaa.gov/staff/contact.htm>

### Distances

The general location of the Waterway is indicated by a magenta line. Mariners are advised to follow the aids to navigation and avoid charted shoals and obstructions.

Mileage distances shown along the Waterway are in Statute Miles, based on zero at Harvey Look, LA and are indicated thus: ————  
One Statute Mile equals 0.87 Nautical Miles.

Courses are TRUE and must be CORRECTED for any variation and compass deviation.

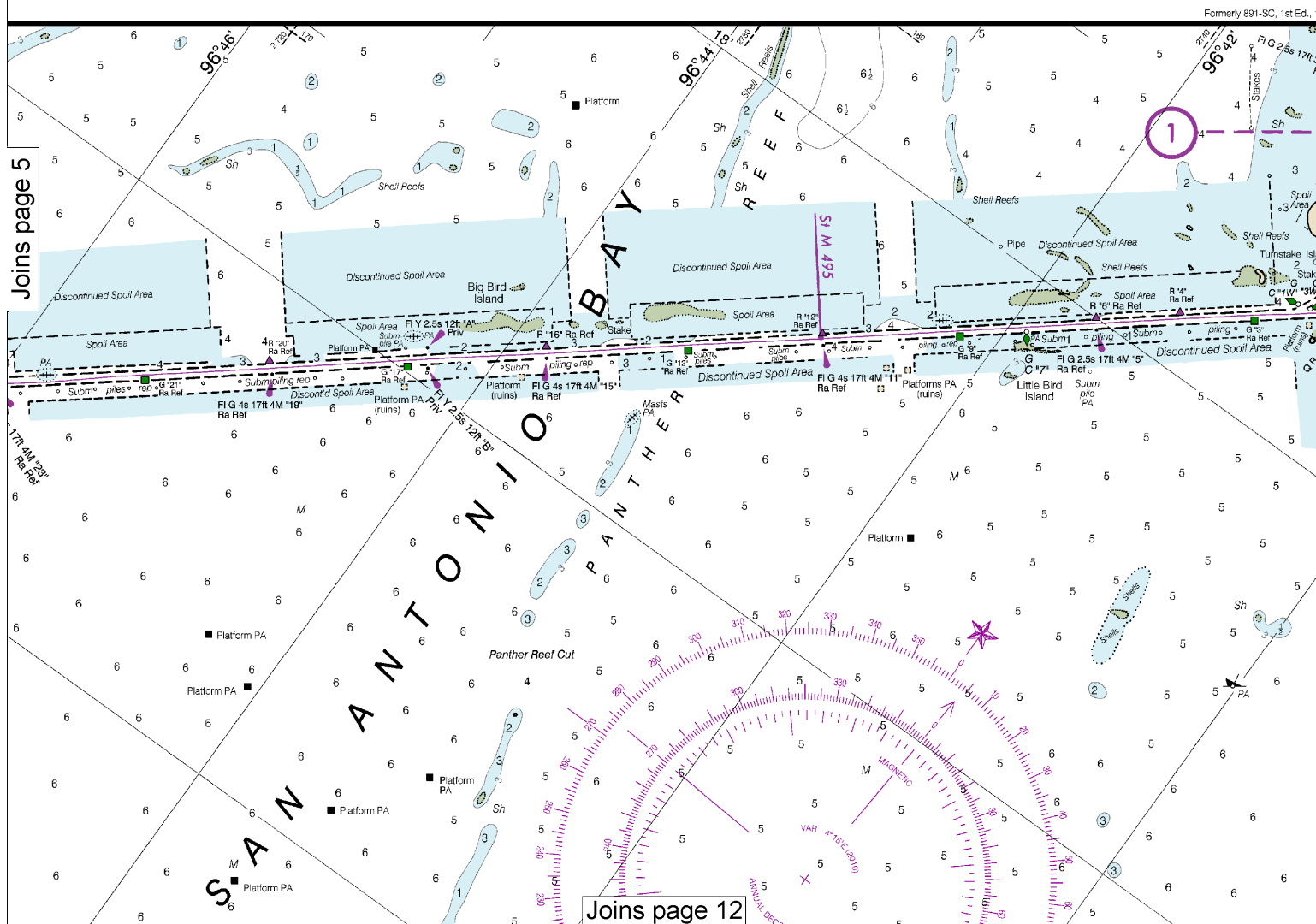
## INTRACOASTAL WATERWAY AIDS

The U.S. Aids to Navigation System is designed for use with nautical charts, and the exact meaning of an aid to navigation may not be clear unless the appropriate chart is consulted.

Aids to navigation marking the Intracoastal Waterway exhibit unique yellow symbols to distinguish them from aids marking other waterways.

When following the Intracoastal Waterway westward from Carrabelle, FL to Brownsville, TX, aids with yellow triangles should be kept on the starboard side of the vessel and aids with yellow squares should be kept on the port side of the vessel.

A horizontal yellow band provides no lateral information, but simply identifies aids to navigation as marking the Intracoastal Waterway.



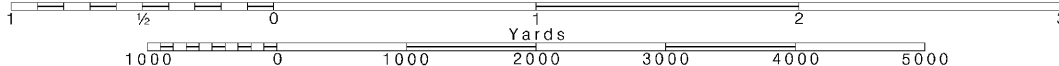
6

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:40,000  
Nautical Miles

See Note on page 5.



The map displays the Texas Gulf Coast with sampling stations 11307 through 11329. Key features include:

- Geographic Labels:** TEXAS, GULF OF MEXICO, HOUSTON, GALVESTON, GALVESTON BAY, EAST BAY, WEST BAY, Freeport, Matagorda, Matagorda Bay, Lavaca Bay, Port Lavaca, Port O'Connor, SAN ANTONIO BAY, Espiritu Santo Bay, PASS CAVALLO, Corpus Bay, Rockport, and Matamoros Bay.
- Sampling Stations:** Indicated by numbers (11307, 11308, 11309, 11313, 11316, 11317, 11319, 11321, 11322, 11324, 11325, 11327, 11328, 11329) and colored polygons (purple, pink, orange, yellow).
- Map Elements:** A north arrow in the upper left, latitude/longitude grid lines (28°N to 29°N, 95°W to 97°W), and dashed lines representing various boundaries.

[illegible]

7









# NAUTICAL CHART 11315

## INTRACOASTAL WATERWAY

MERCATOR PROJECTION AT SCALES 1:40,000  
SOUNDINGS IN FEET  
AT MEAN LOWER LOW WATER  
North American Datum of 1983  
(World Geodetic System 1984)

Additional information can be obtained at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

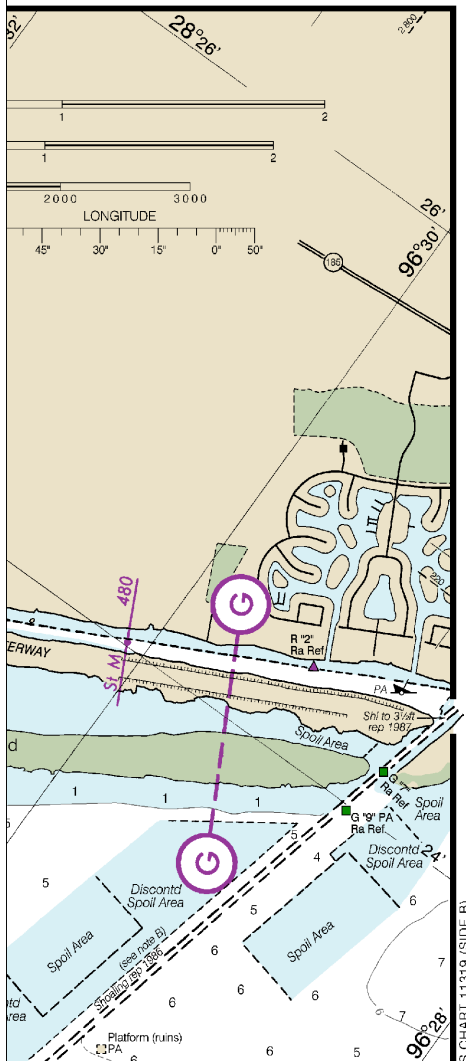
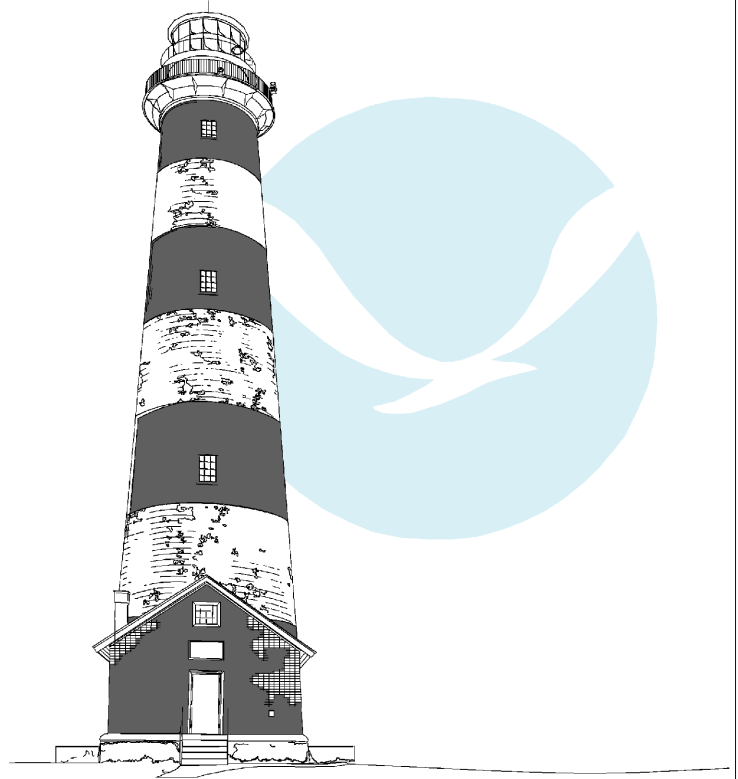
### HEIGHTS

Heights in feet above Mean High Water.

## TEXAS

# ESPIRITU SANTO BAY TO CARLOS BAY

## INCLUDING SAN ANTONIO BAY AND VICTORIA BARGE CANAL



Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY

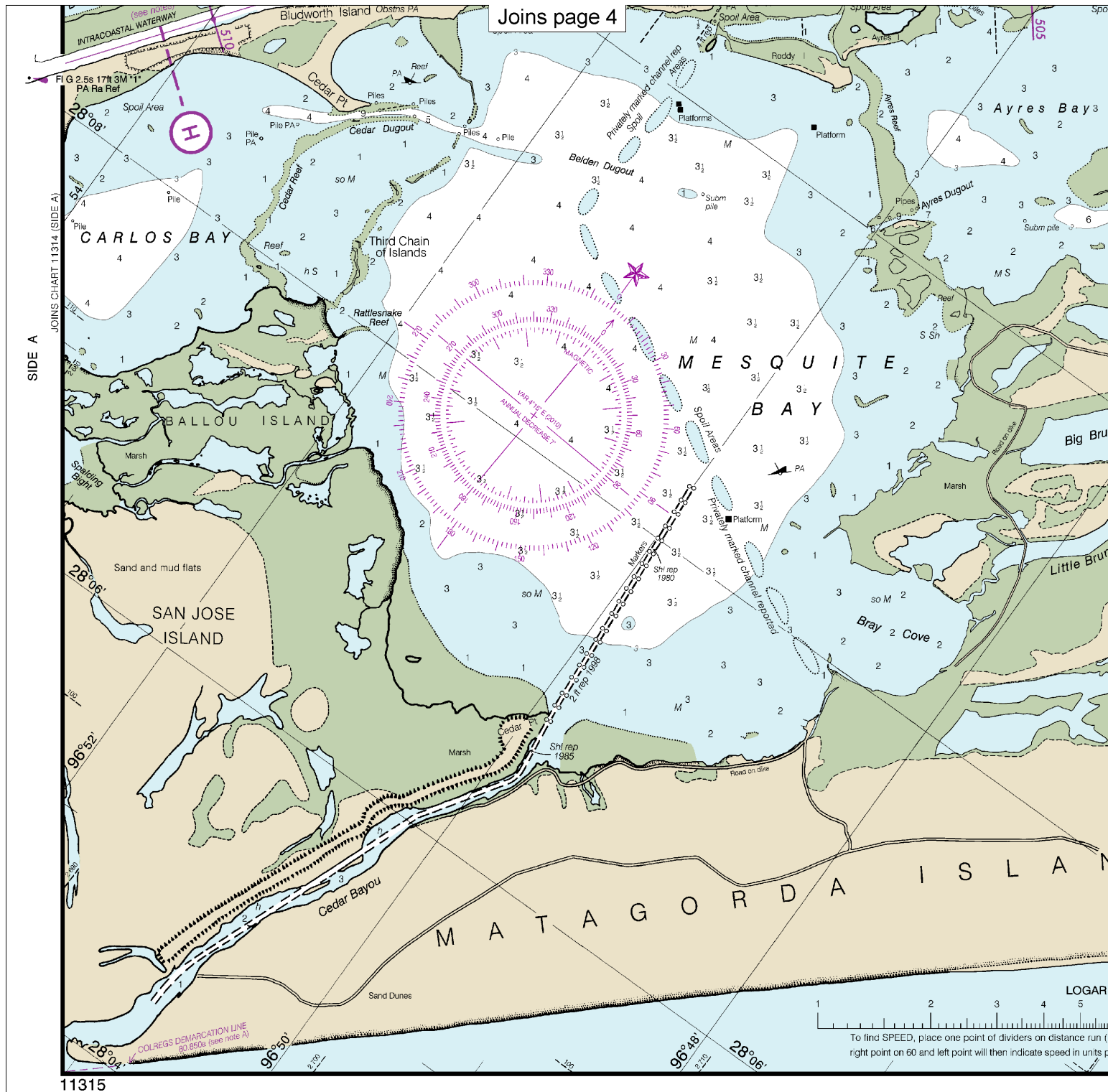
### AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

### SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 5 for important supplemental information.

Joins page 15



10

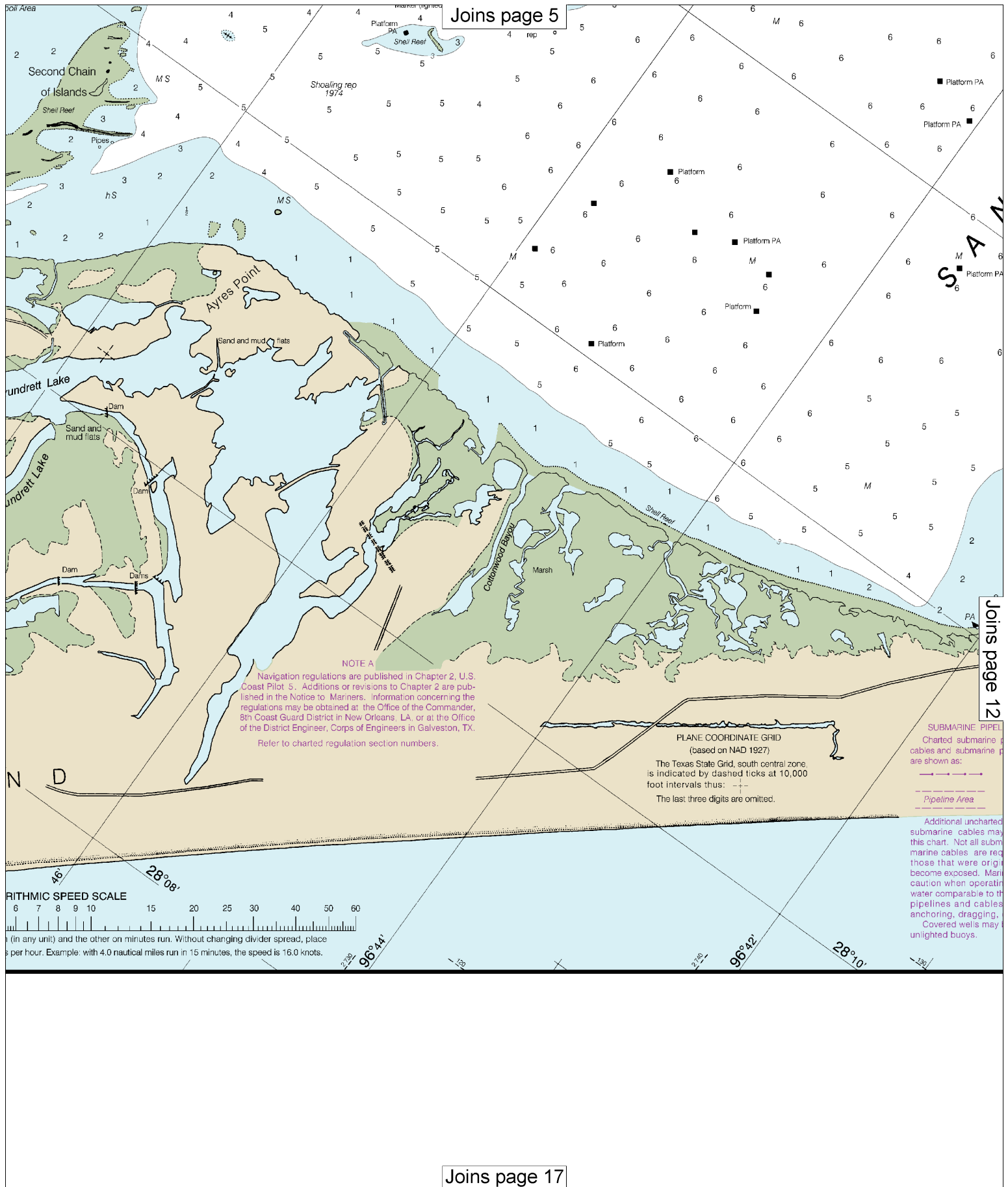
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:40,000  
Nautical Miles

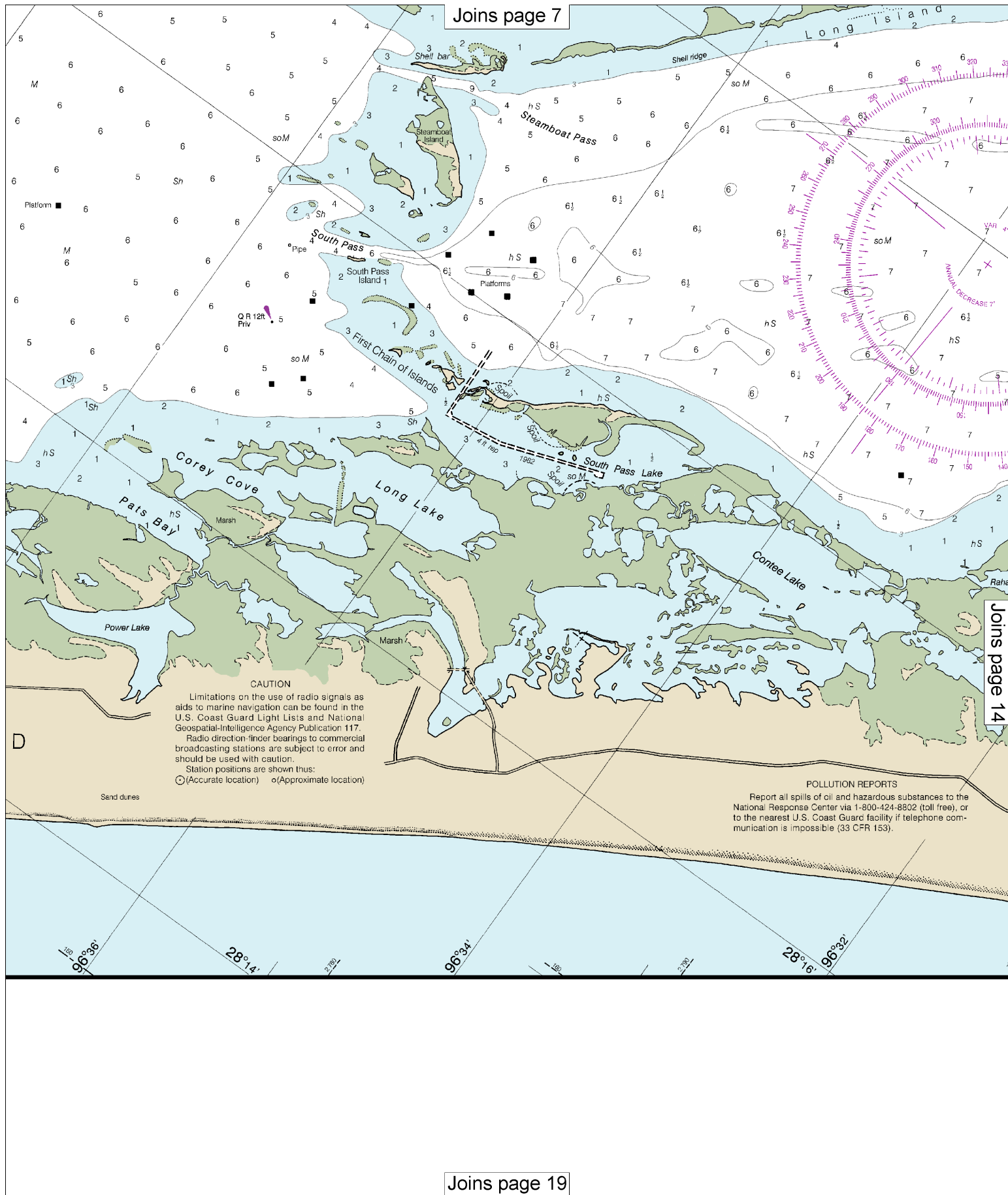
See Note on page 5.



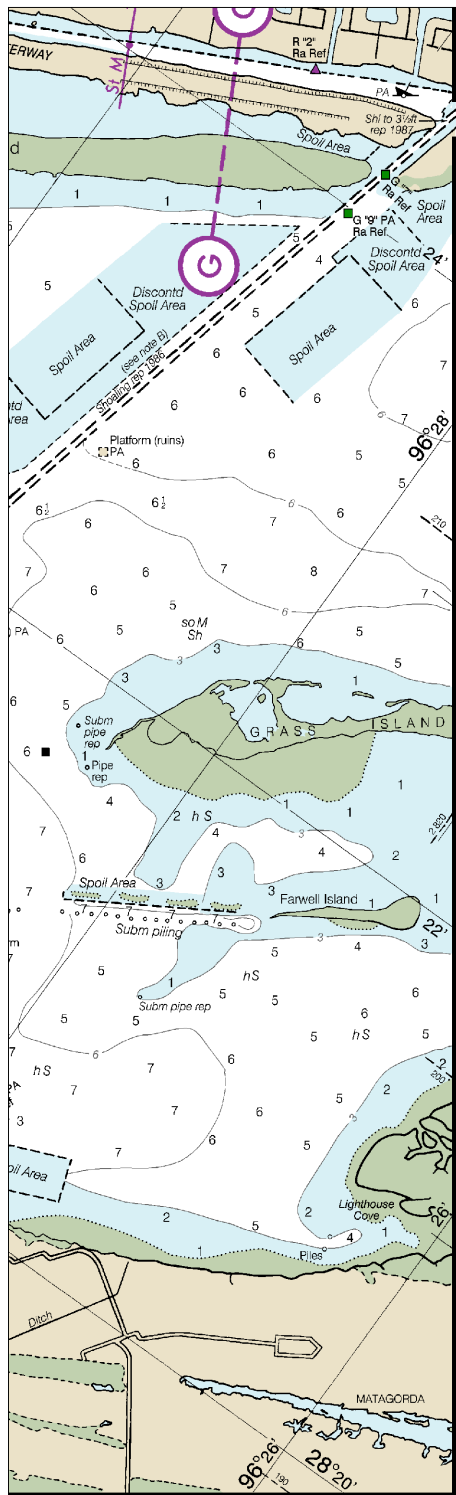












Joins page 9

Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY

#### AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

#### SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 5 for important supplemental information.

#### CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

#### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 1.016" northward and 0.937 westward to agree with this chart.

#### ABBREVIATIONS

(For complete list of Symbols and Abbreviations, see Chart No. 1.)  
Aids to Navigation (lights are white unless otherwise indicated):

|                   |                          |                        |                    |
|-------------------|--------------------------|------------------------|--------------------|
| AERO aeronautical | G green                  | Mo morse code          | R TR radio tower   |
| Al alternating    | IQ interrupted quick     | N run                  | Rot rotating       |
| B black           | iso isophase             | OBSC obscured          | s seconds          |
| Bn beacon         | LT HO lighthouse         | Oc occulting           | SEC sector         |
| C can             | M nautical mile          | Or orange              | St M statute miles |
| D/A diaphone      | m minutes                | Q quick                | VQ very quick      |
| F fixed           | MICRO TR microwave tower | R red                  | W white            |
| Fl flashing       | Mkr marker               | Ra Ref radar reflector | WHIS whistle       |
|                   |                          | R Bn radiobeacon       | Y yellow           |

#### Bottom characteristics:

|               |           |         |             |           |
|---------------|-----------|---------|-------------|-----------|
| Blds boulders | Co coral  | gy gray | Oys oysters | so soft   |
| bk broken     | G gravel  | h hard  | Rk rock     | Sh shells |
| Cy clay       | Grs grass | M mud   | S sand      | sy sticky |

#### Miscellaneous:

|  |                         |                      |                |
|--|-------------------------|----------------------|----------------|
| AUTH authorized  | Obstm obstruction       | PD position doubtful | Subm submerged |
| ED existence doubtful  | PA position approximate | Rep reported         |                |
| 2L Wreck, rock, obstruction, or shoal swept clear to the depth indicated.        |                         |                      |                |
| (2) Rocks that cover and uncover, with heights in feet above datum of soundings. |                         |                      |                |
| COLREGS: International Regulations for Preventing Collisions at Sea, 1972.       |                         |                      |                |

Demarcation lines are shown thus: — — — — —

#### TIDAL INFORMATION

In the areas covered by this chart the periodic tide has a mean range of less than one half foot.

#### WARNING

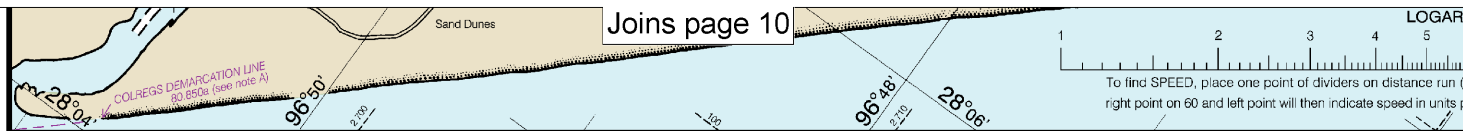
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

#### RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

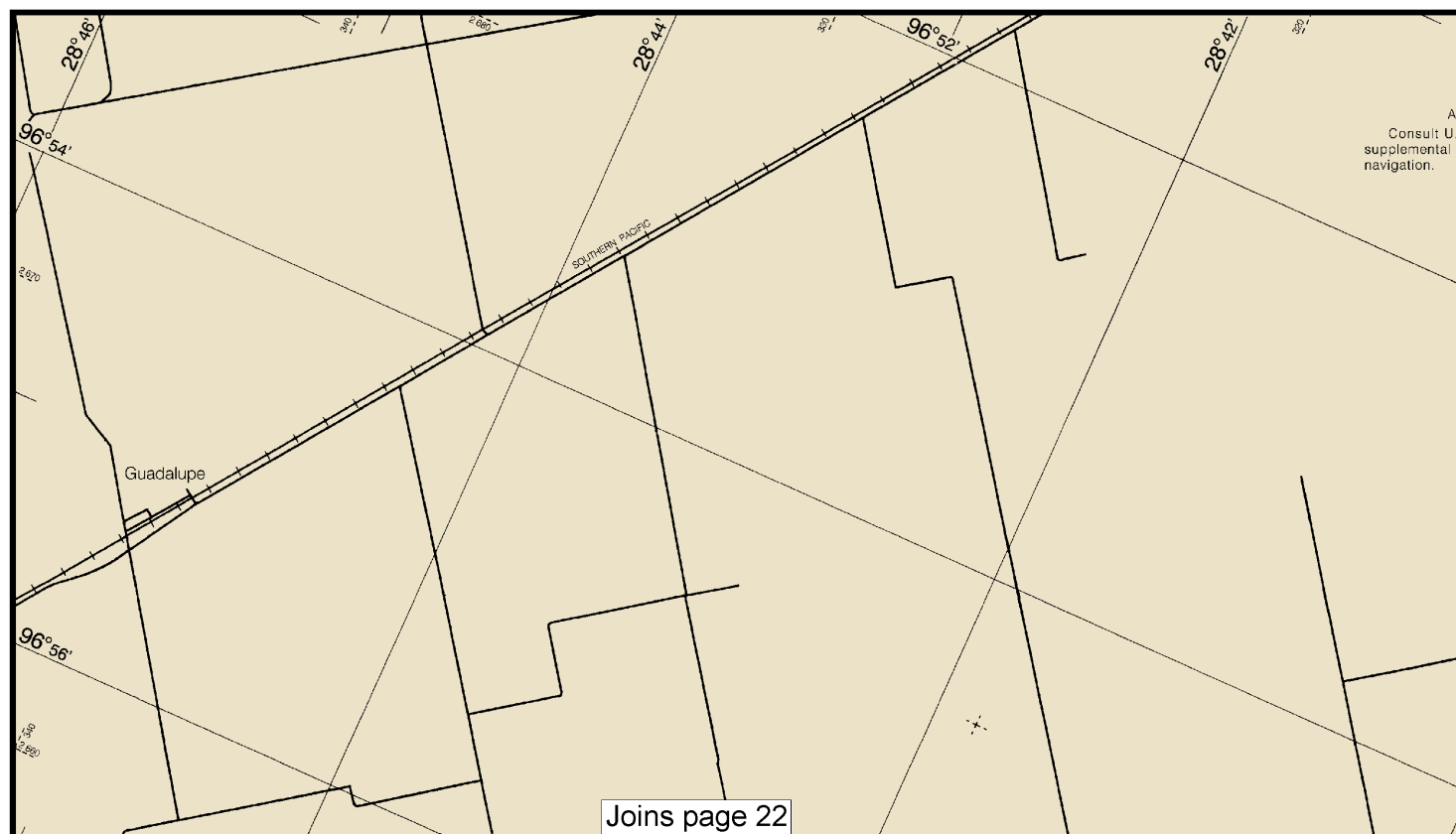
SIDE A

Joins page 21



11315

Joins page 10



Joins page 22

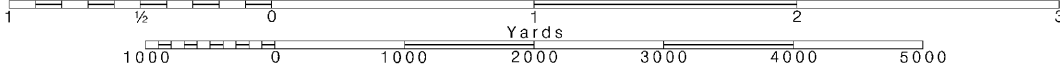
16

Note: Chart grid lines are aligned with true north.

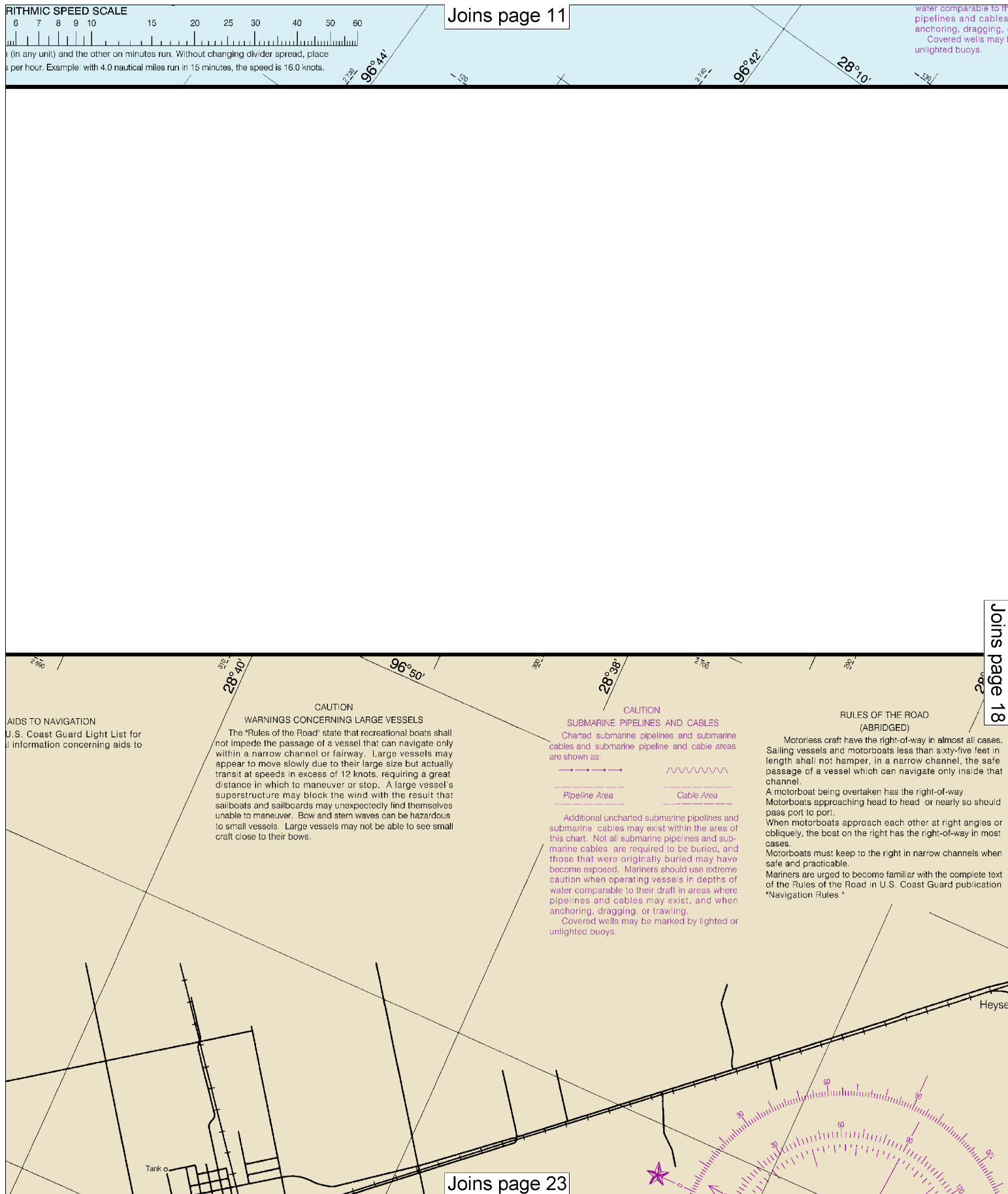
Printed at reduced scale.

SCALE 1:40,000  
Nautical Miles

See Note on page 5.

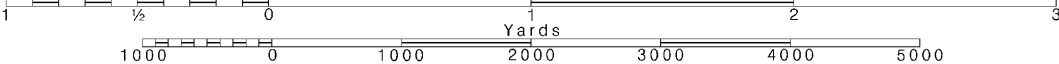
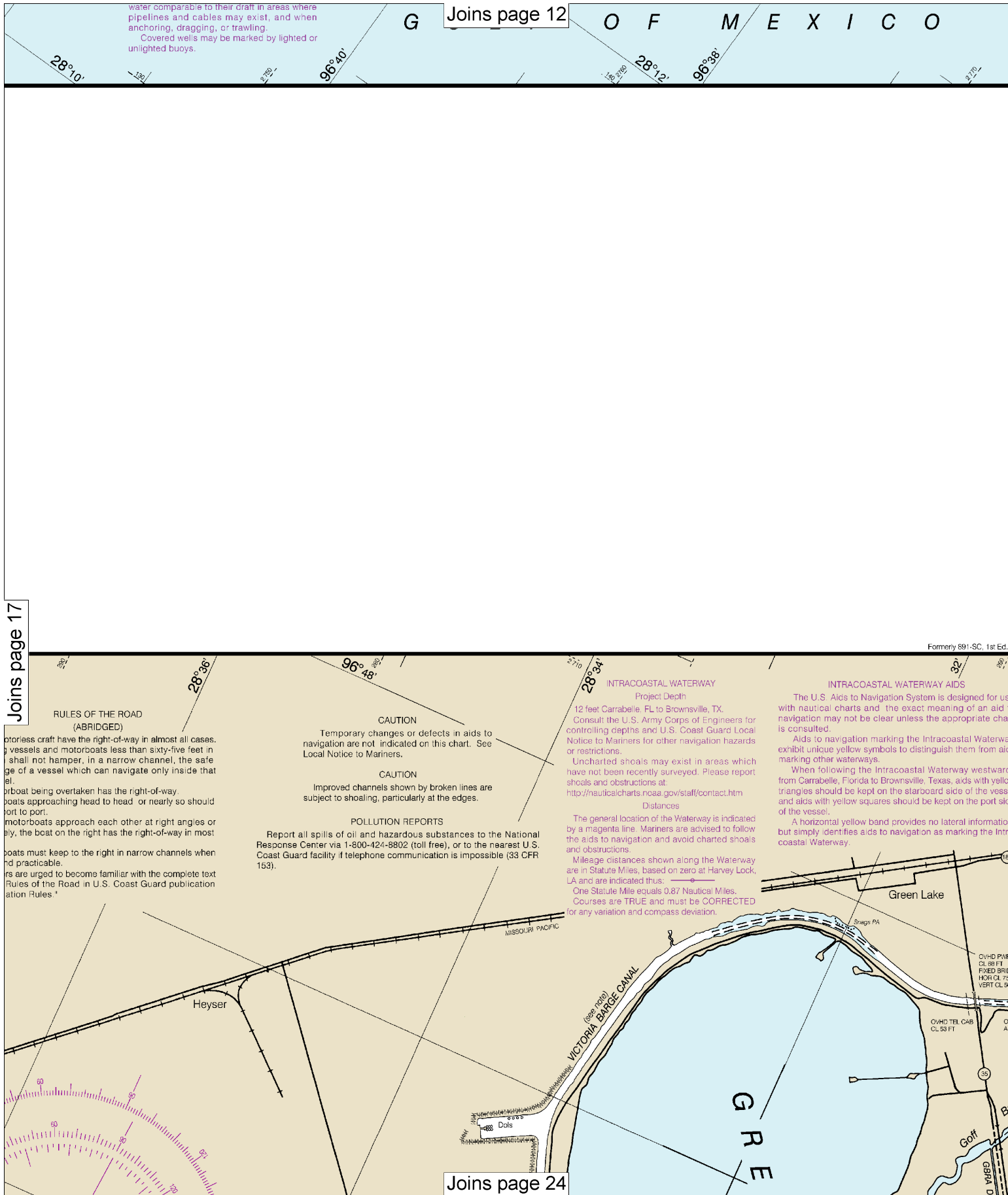






water comparable to the  
pipelines and cables  
anchoring, dragging,  
Covered wells may  
unlighted buoys.

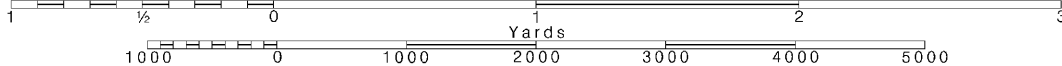
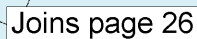
Joins page 18



[illegible]

Joins page 20

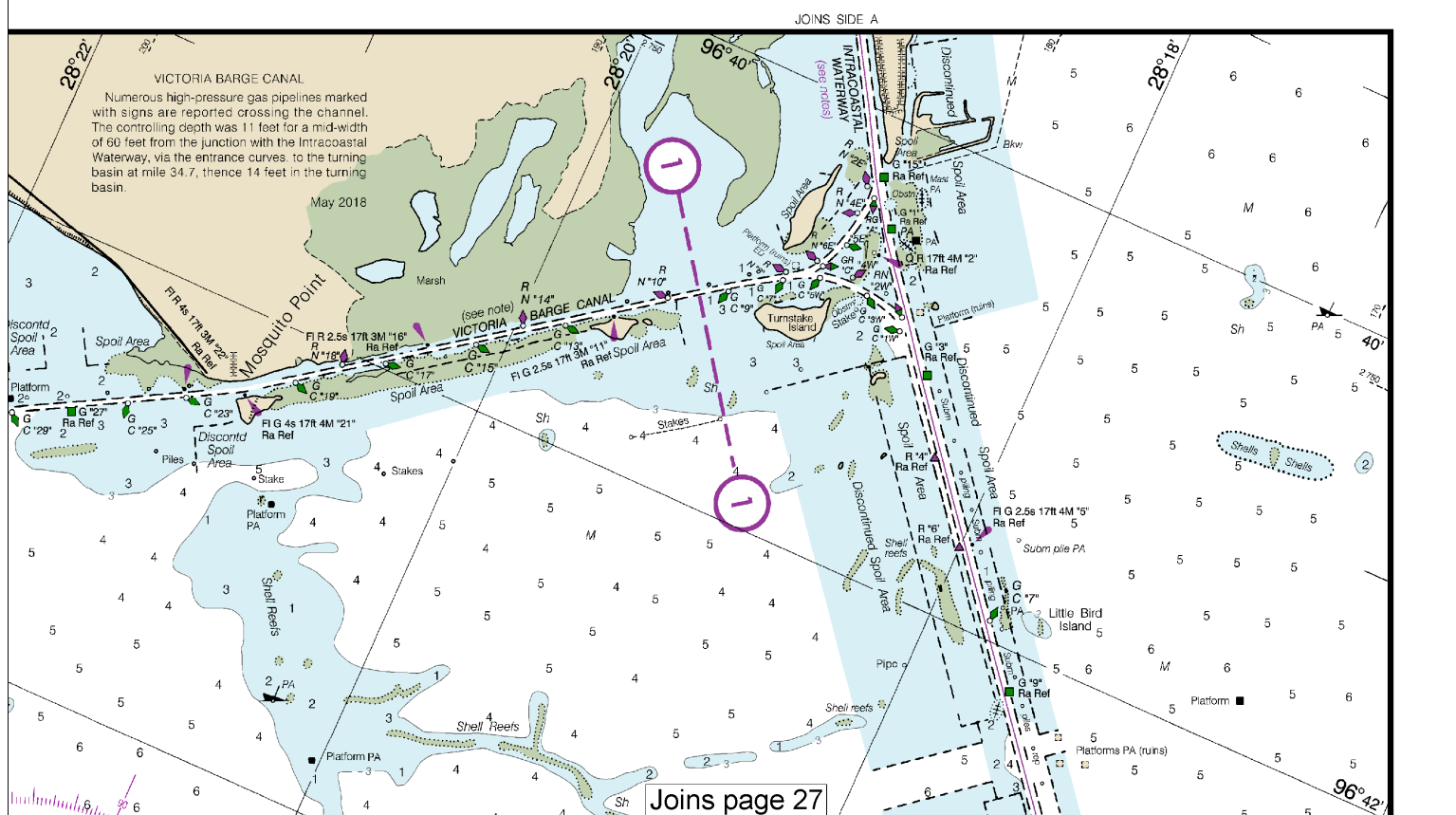
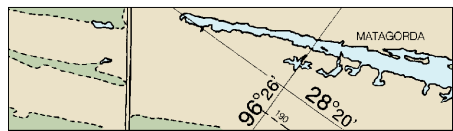
Joins page 25





## RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.



SIDE B



11315

This is the Last Edition of this chart. It will be canceled on Jan 3, 2024  
 33rd Ed., Oct. 2010. Last Correction: 7/24/2023. Cleared through:  
 LNM: 5123 (12/19/2023), NM: 5223 (12/30/2023)

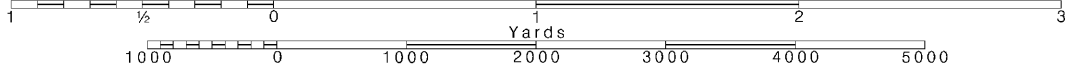
22

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

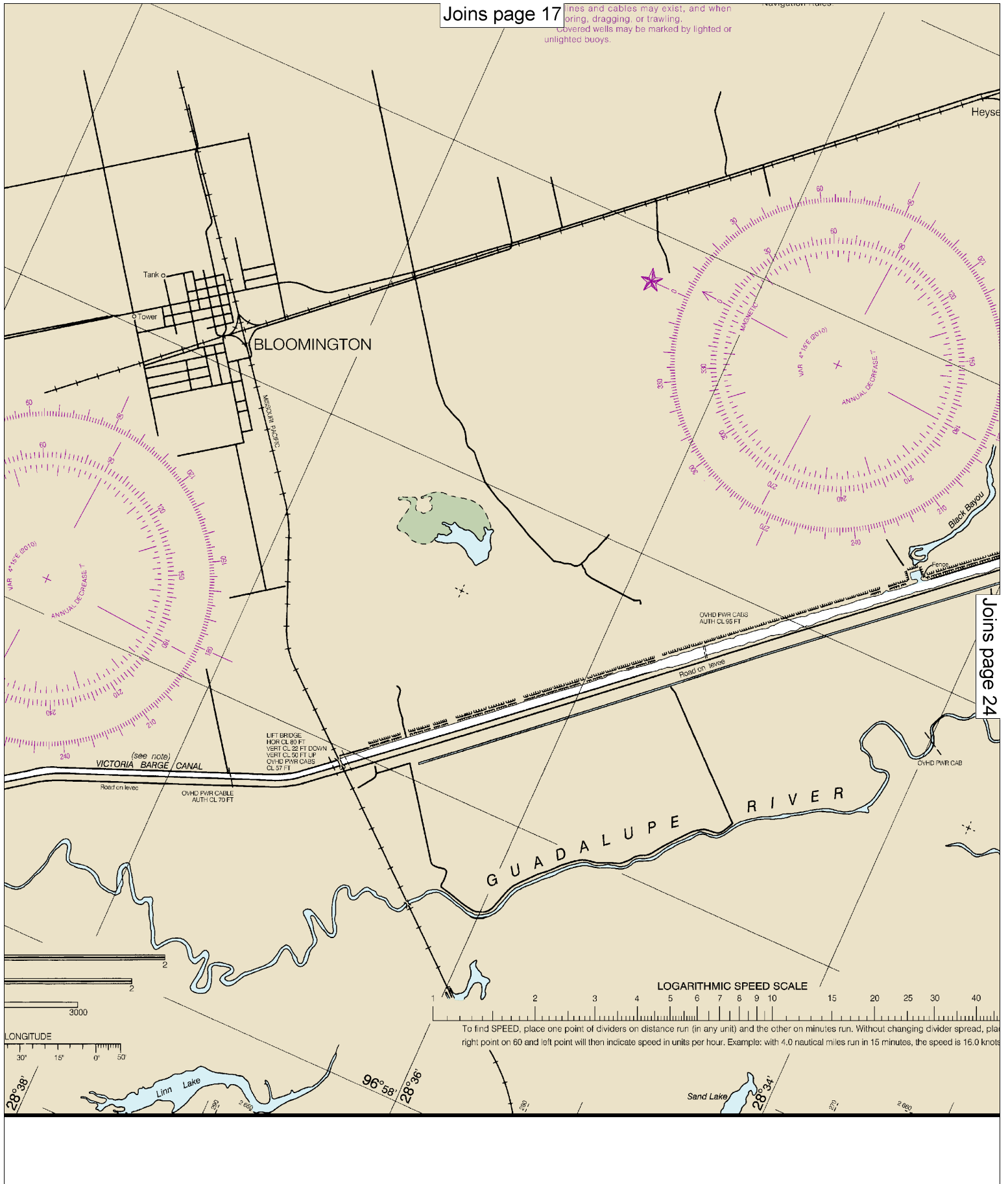
SCALE 1:40,000  
Nautical Miles

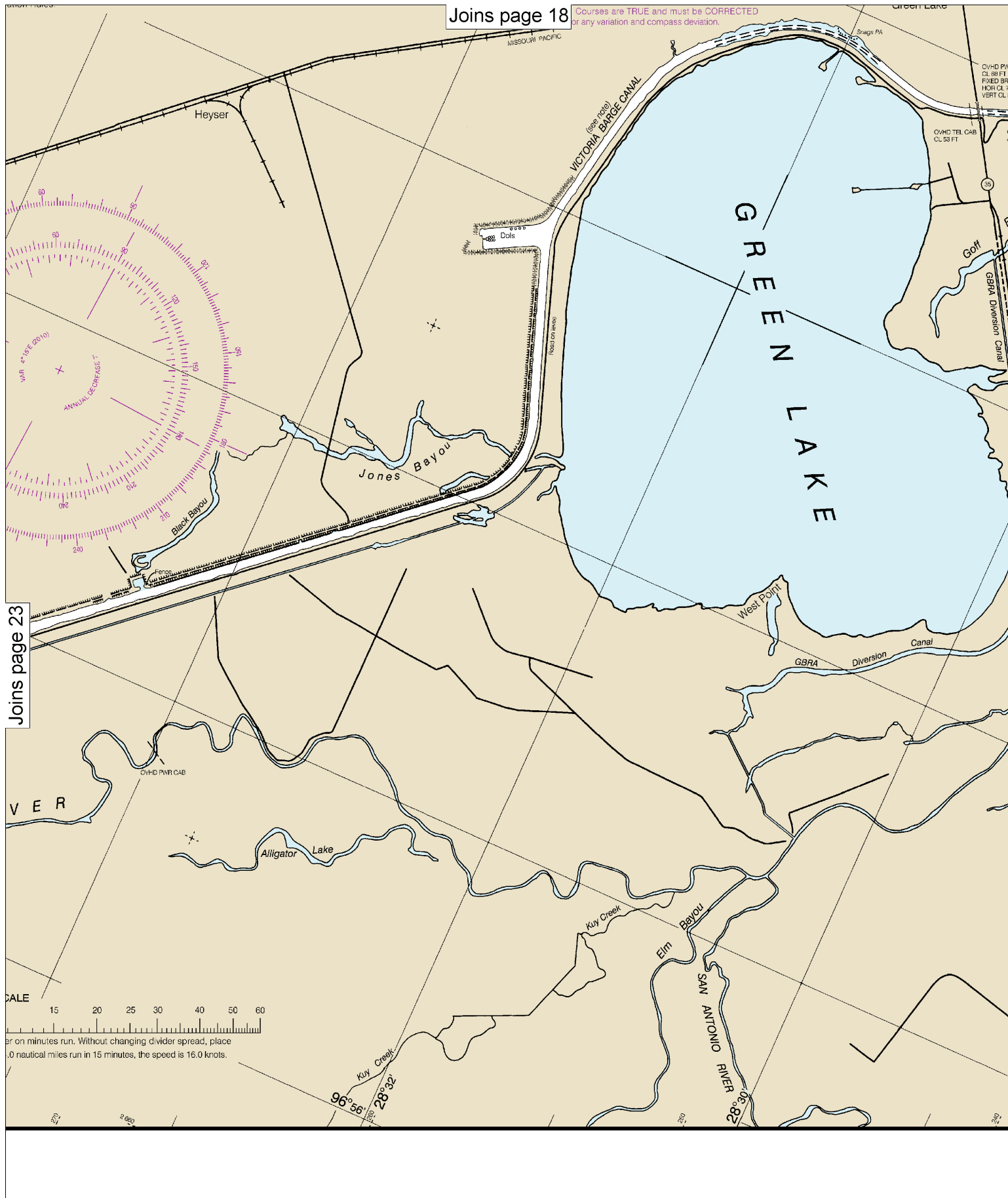
See Note on page 5.



lines and cables may exist, and when boring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

Navigation Rules





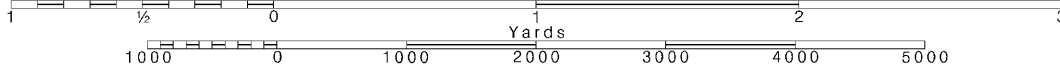
24

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

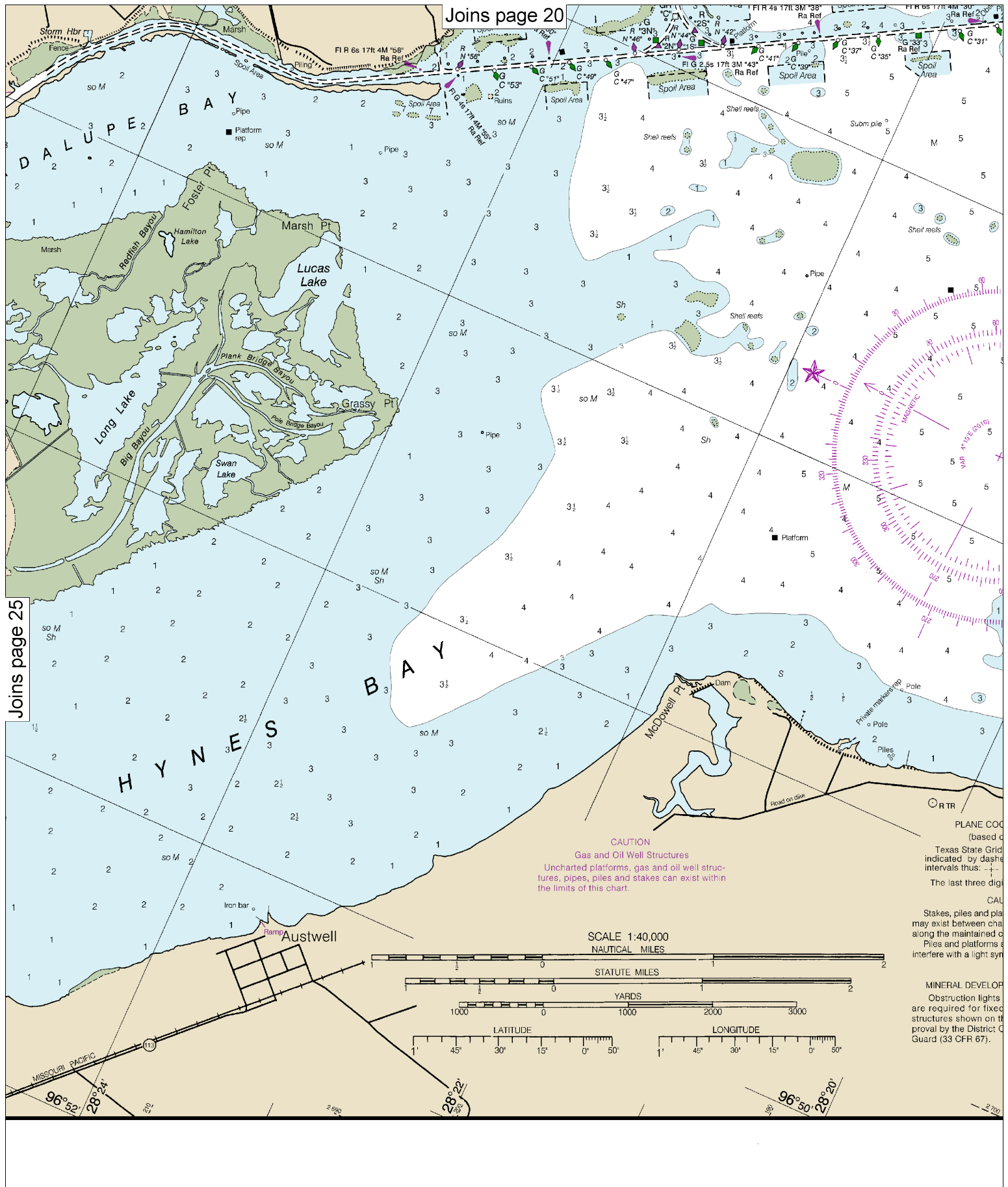
SCALE 1:40,000  
Nautical Miles

See Note on page 5.







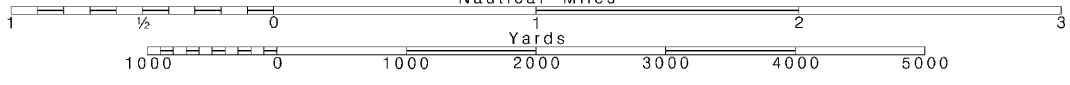


Note: Chart grid lines are aligned with true north.

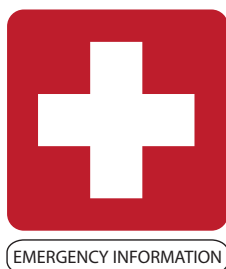
Printed at reduced scale.

SCALE 1:40,000  
Nautical Miles

See Note on page 5.







## VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16** – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 and 78A** – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



**NOAA Weather Radio All Hazards (NWR)** is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

## Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS!**

## Quick References

|   |   |
|---|---|
| Nautical chart related products and information | — <a href="http://www.nauticalcharts.noaa.gov">http://www.nauticalcharts.noaa.gov</a>   |
| Interactive chart catalog                       | — <a href="http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml">http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml</a>                   |
| Report a chart discrepancy                      | — <a href="http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx">http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx</a>                               |
| Chart and chart related inquiries and comments  | — <a href="http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs">http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs</a> |
| Chart updates (LNM and NM corrections)          | — <a href="http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html">http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html</a>               |
| Coast Pilot online                              | — <a href="http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm">http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm</a>                         |
| Tides and Currents                              | — <a href="http://tidesandcurrents.noaa.gov">http://tidesandcurrents.noaa.gov</a>   |
| Marine Forecasts                                | — <a href="http://www.nws.noaa.gov/om/marine/home.htm">http://www.nws.noaa.gov/om/marine/home.htm</a>   |
| National Data Buoy Center                       | — <a href="http://www.ndbc.noaa.gov/">http://www.ndbc.noaa.gov/</a>   |
| NowCoast web portal for coastal conditions      | — <a href="http://www.nowcoast.noaa.gov/">http://www.nowcoast.noaa.gov/</a>   |
| National Weather Service                        | — <a href="http://www.weather.gov/">http://www.weather.gov/</a>   |
| National Hurricane Center                       | — <a href="http://www.nhc.noaa.gov/">http://www.nhc.noaa.gov/</a>   |
| Pacific Tsunami Warning Center                  | — <a href="http://ptwc.weather.gov/">http://ptwc.weather.gov/</a>   |
| Contact Us                                      | — <a href="http://www.nauticalcharts.noaa.gov/staff/contact.htm">http://www.nauticalcharts.noaa.gov/staff/contact.htm</a>                           |



— For the latest news from Coast Survey, follow **@NOAAcharts**



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.