GulfSafe Notification System

Jack Garret

GulfSafe

1-888-910-GULF

www.gulfsafe.com

Onshore: 811
Offshore: GulfSafe.com

Know what's below.
Call before you dig.

Gulf of Mexico

- Over 4,000 platforms
- Over 33,000 active wells
- Over 35,000 miles of pipeline
- Thousands of miles of fiber optic network
- International telecommunications
- Sewer and water for near-shore Islands

Near Future

- Wind turbine electric generation
- Offshore electric generation
- Wave energy
- Deep offshore oil port
- LNG offshore oil port

Worker Safety

- Construction or repair work
- Research vessels
- Dive teams

Protection for the Environment

- Prevent release of hydrocarbons
- Improve design work for subsea installations
- Improve communications between facility owners and work crews

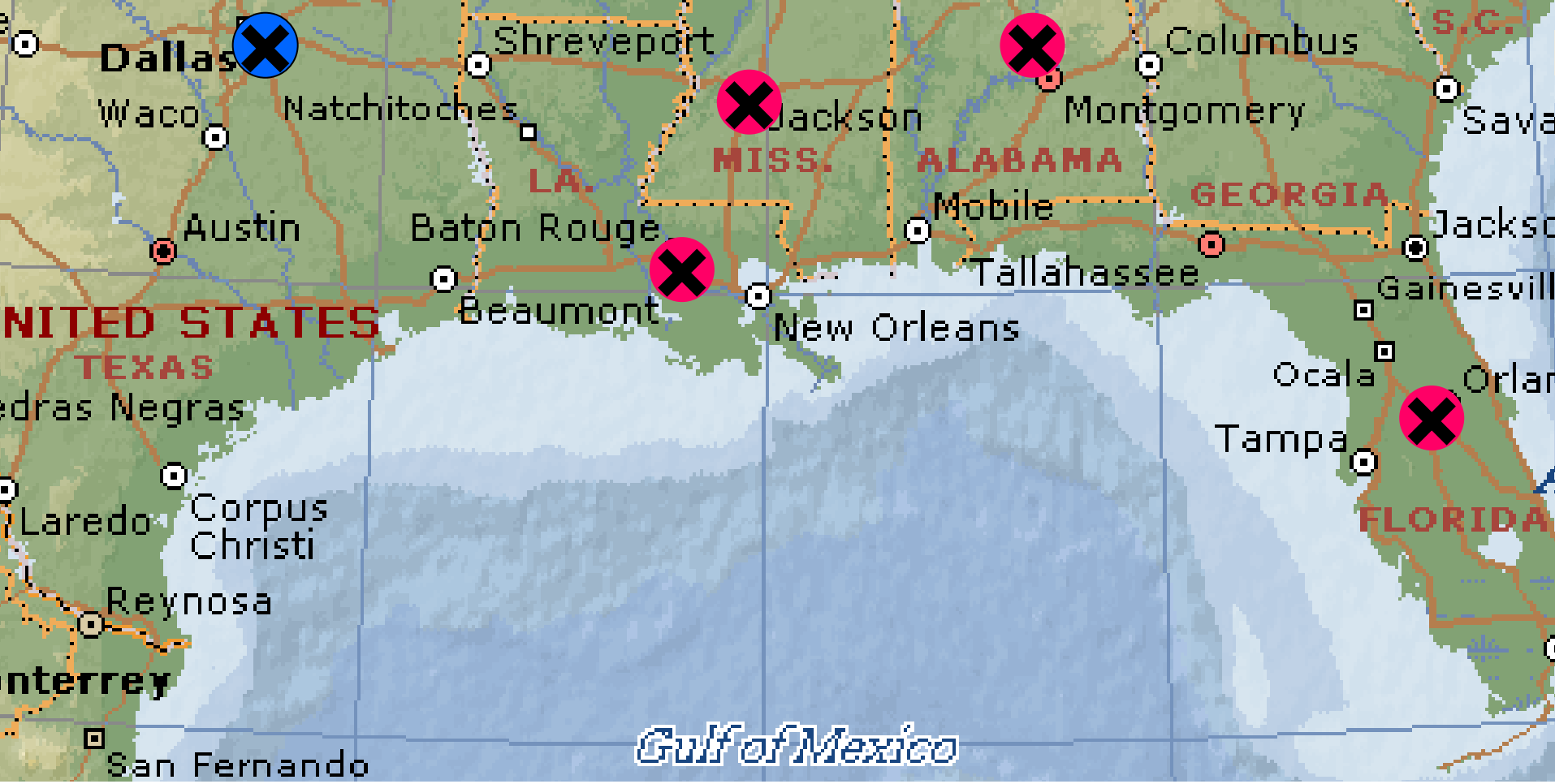
GulfSafe begins operation 16 February 2009

Service is free

Coverage areas include Gulf of Mexico and the Straits of Florida

New leases have been mapped for Virginia and South Carolina coasts

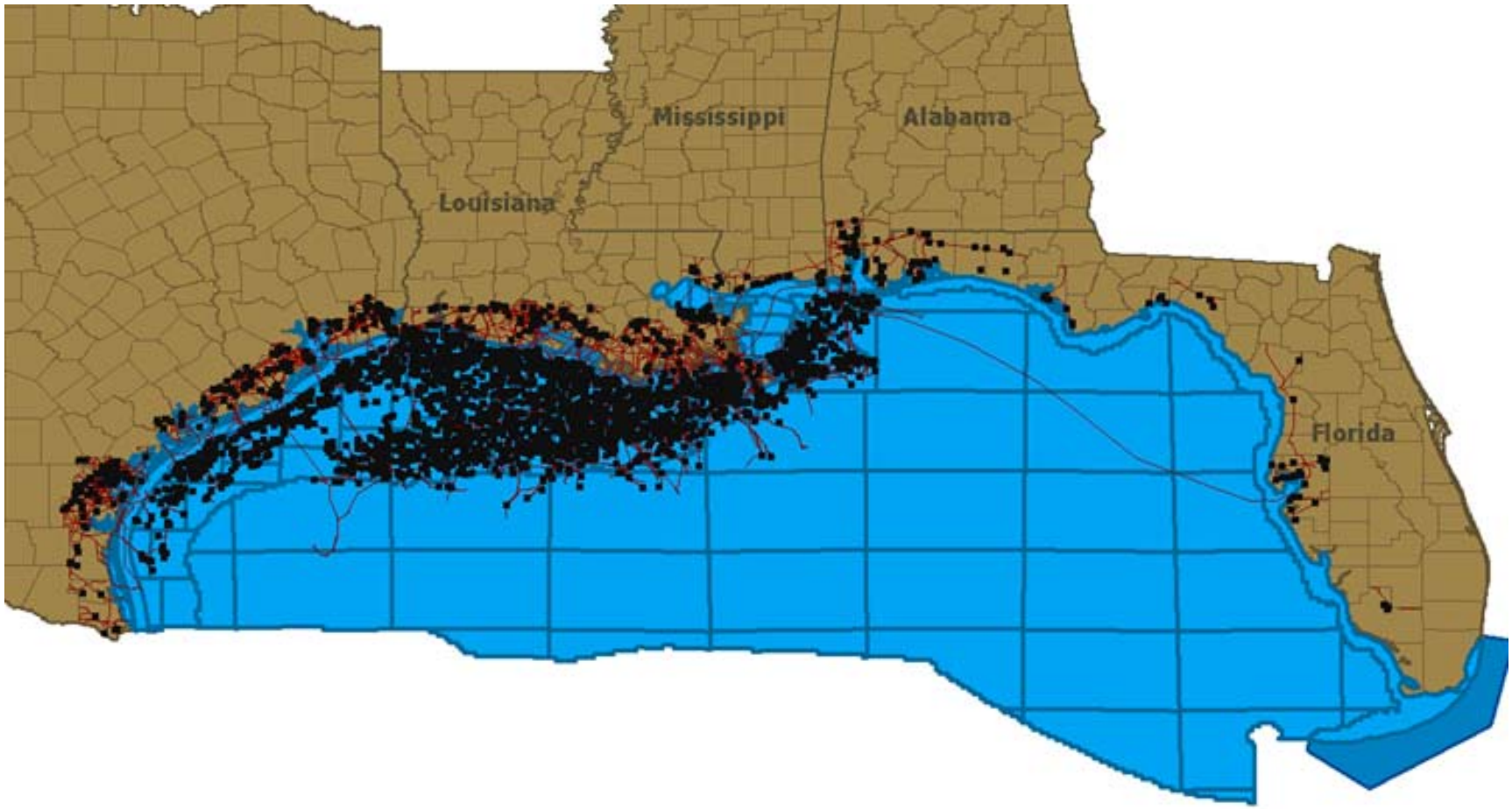
The system is easily adaptable for the Pacific Coast and Alaska



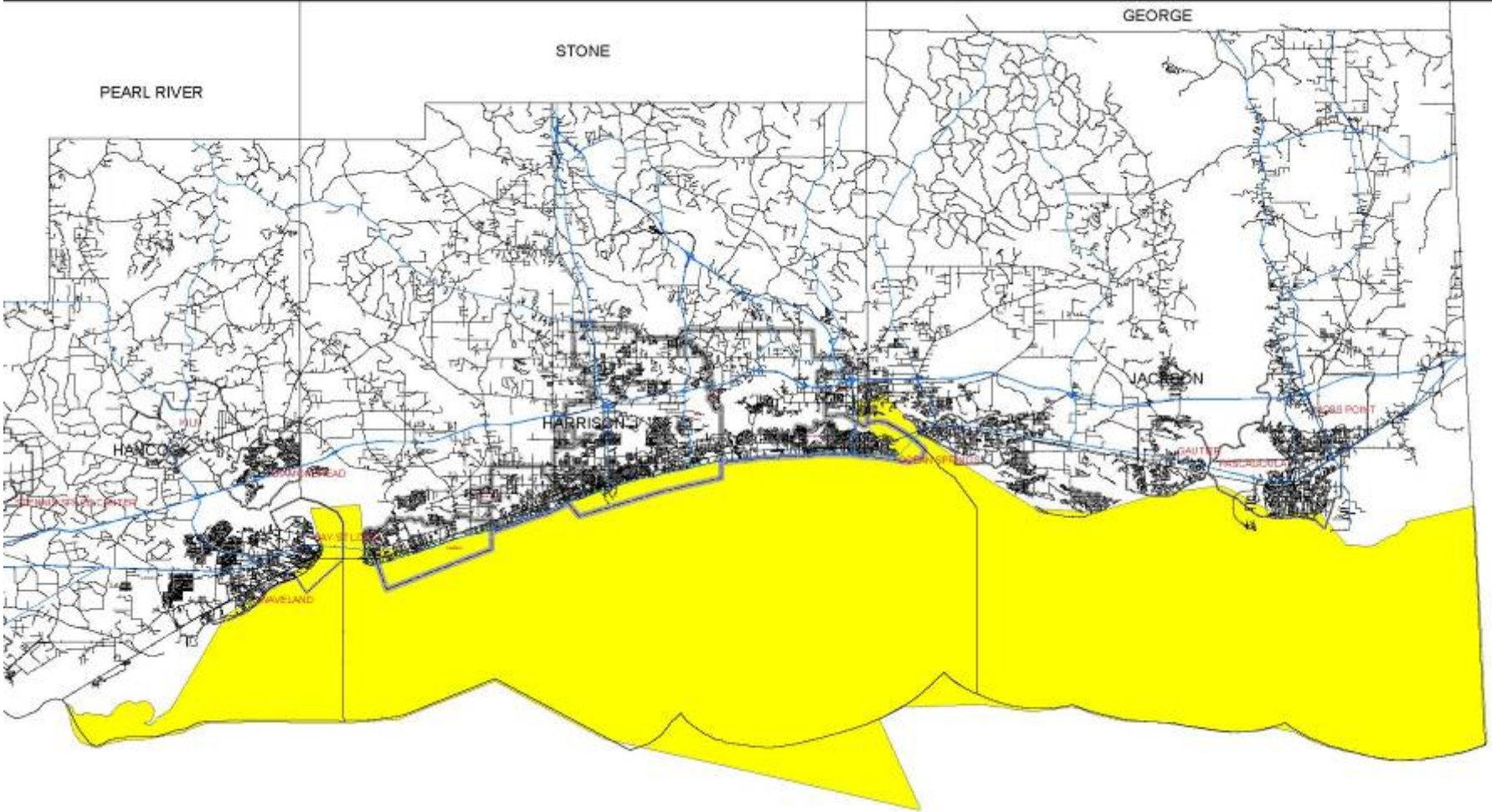
Of the five Gulf coastal states, the TESS Call Center in Dallas is the most ideally suited geographically for a Gulf of Mexico call center

GulfSafe

- Provides a seamless system between onshore and offshore operations



“If it was easy, it would have already been done.”



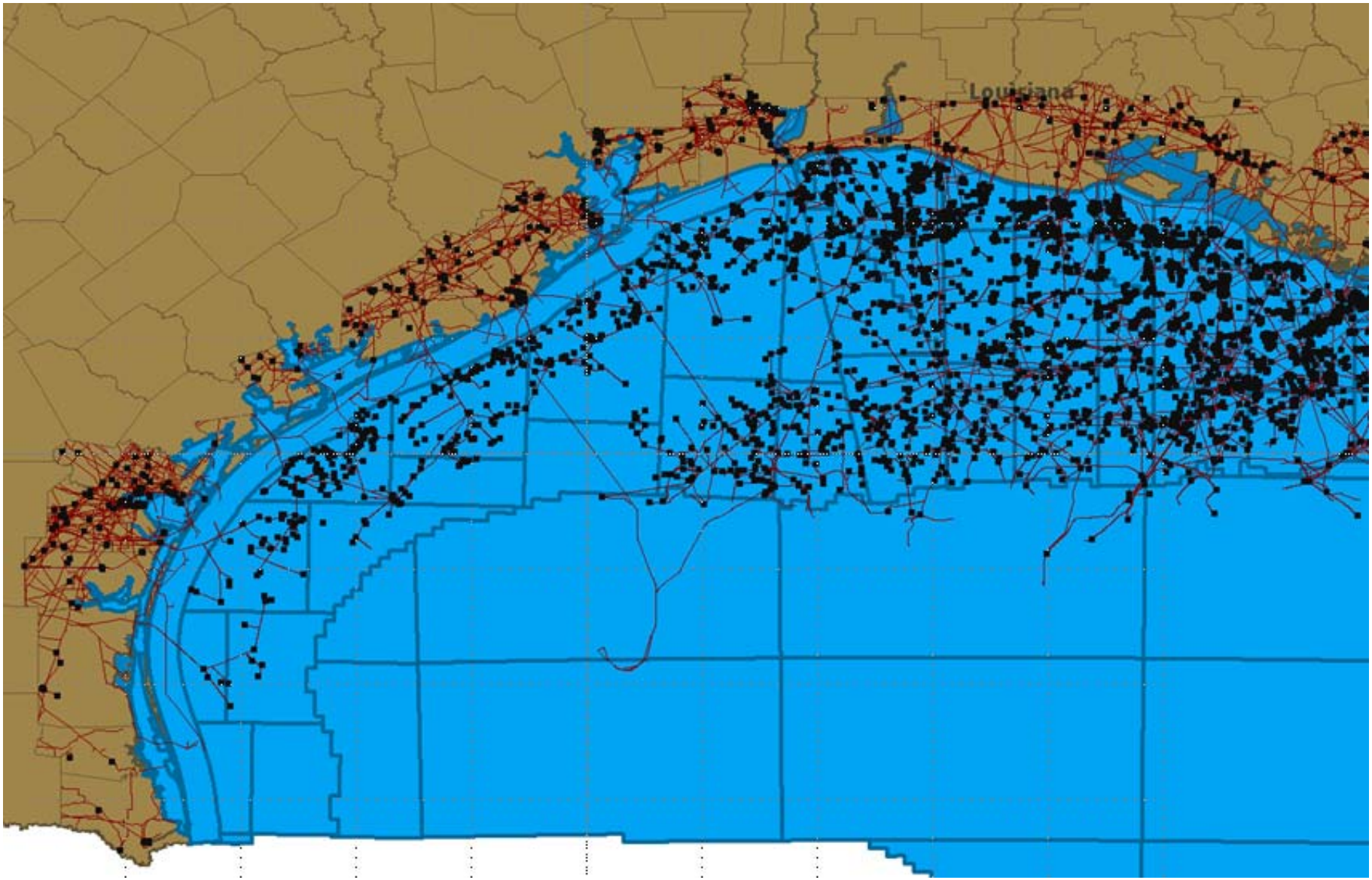
Legend

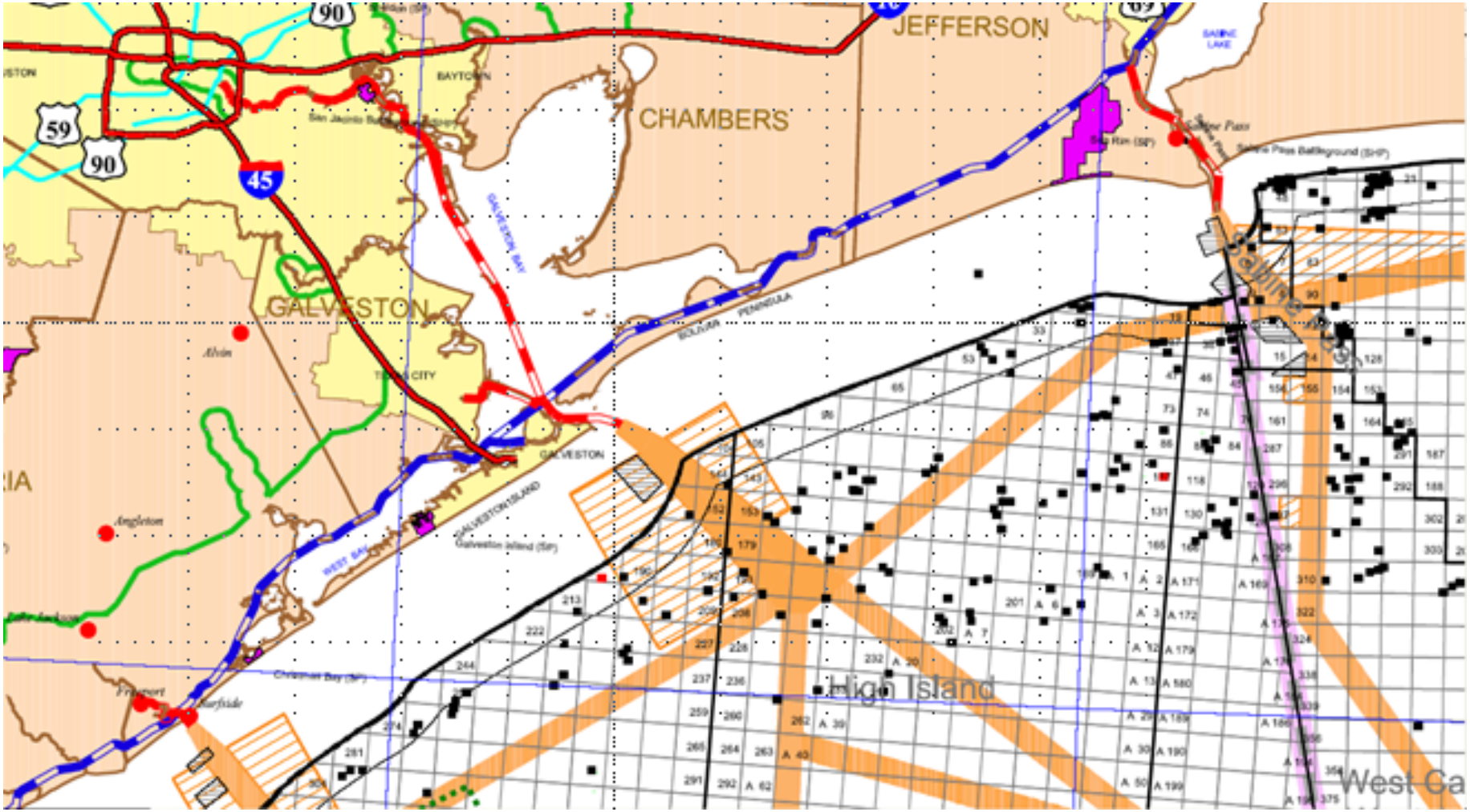
- highways
- streets
- railroads
- places
- GulfSafe

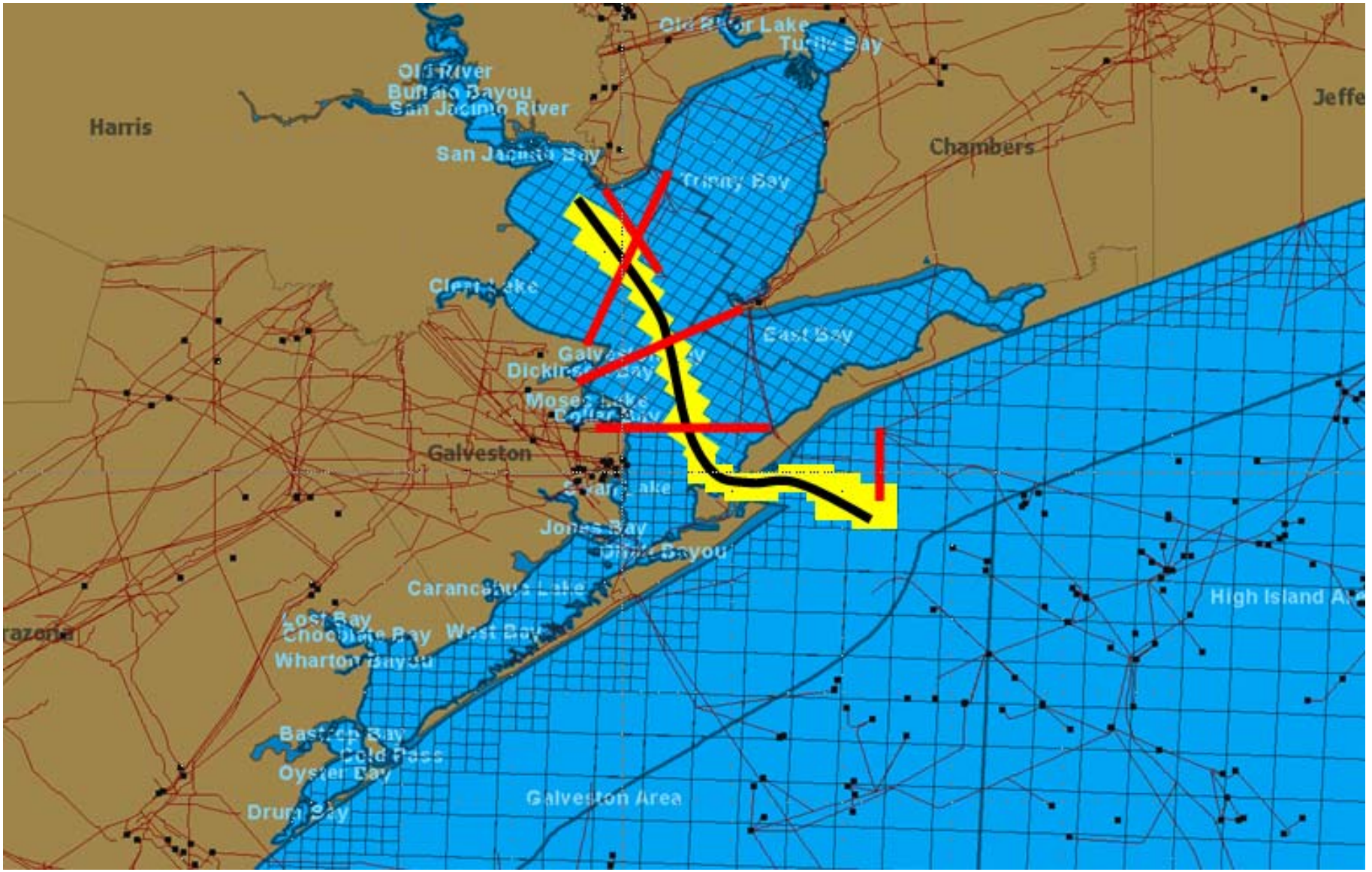
Mississippi Gulf Coast

Hancock, Harrison & Jackson Counties

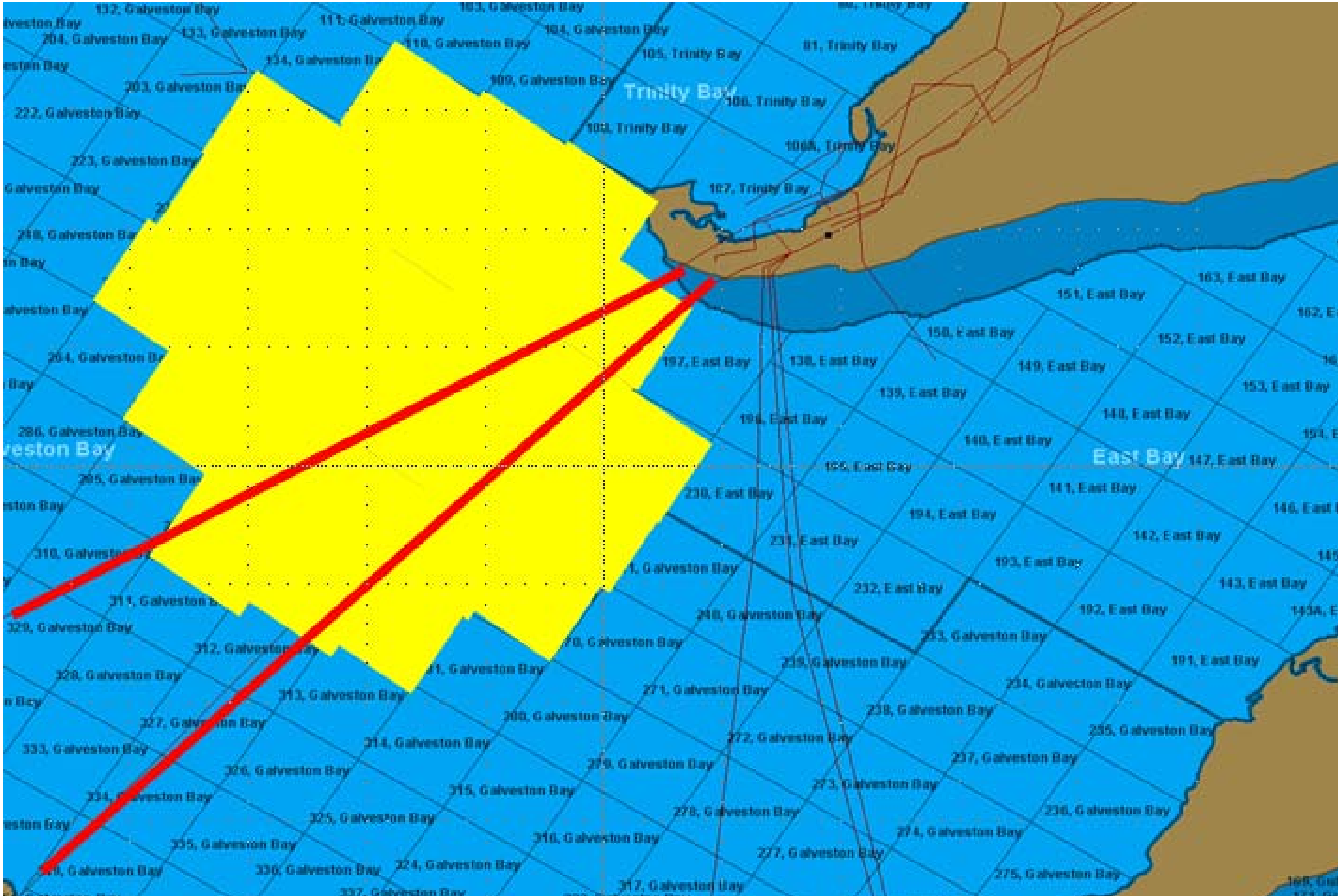
N


Louisiana


JEFFERSON
CHAMBERS
GALVESTON
BAYTOWN
TEXAS CITY
GALVESTON ISLAND
BOLIVAR PENINSULA
GALVESTON BAY
SABINE LAKE
Sabine Pass
Sabine Pass Battleground (SHP)
Big Ren (SP)
Alvin
Angleton
Freeport
Surfside
Galveston Island (SP)
Chocolate Bay (SP)
High Island
West Ca
59
90
45

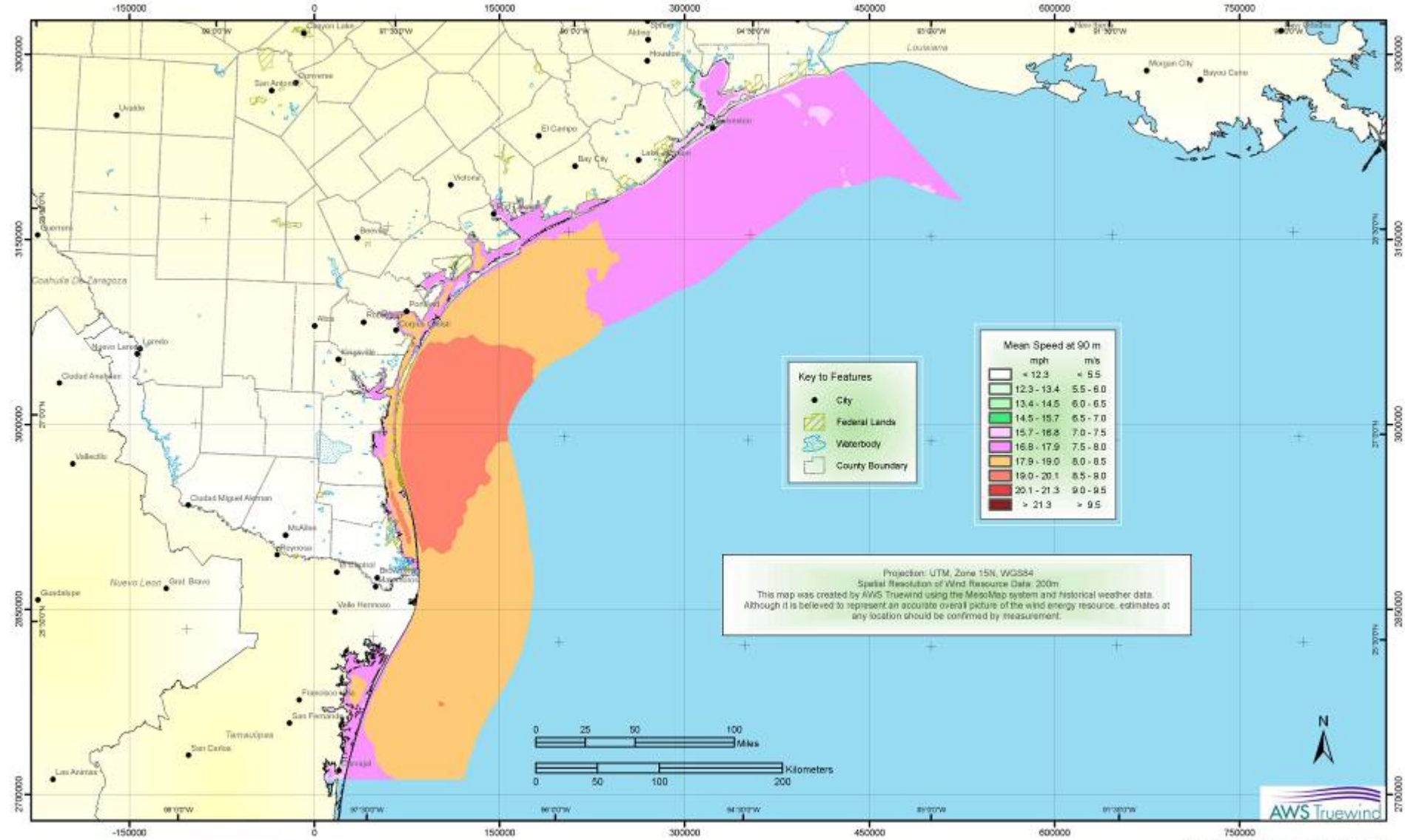

Harris
Chambers
Galveston
East Bay
Galveston Area


Trinity Bay
East Bay
Galveston Bay
Gulf of Mexico

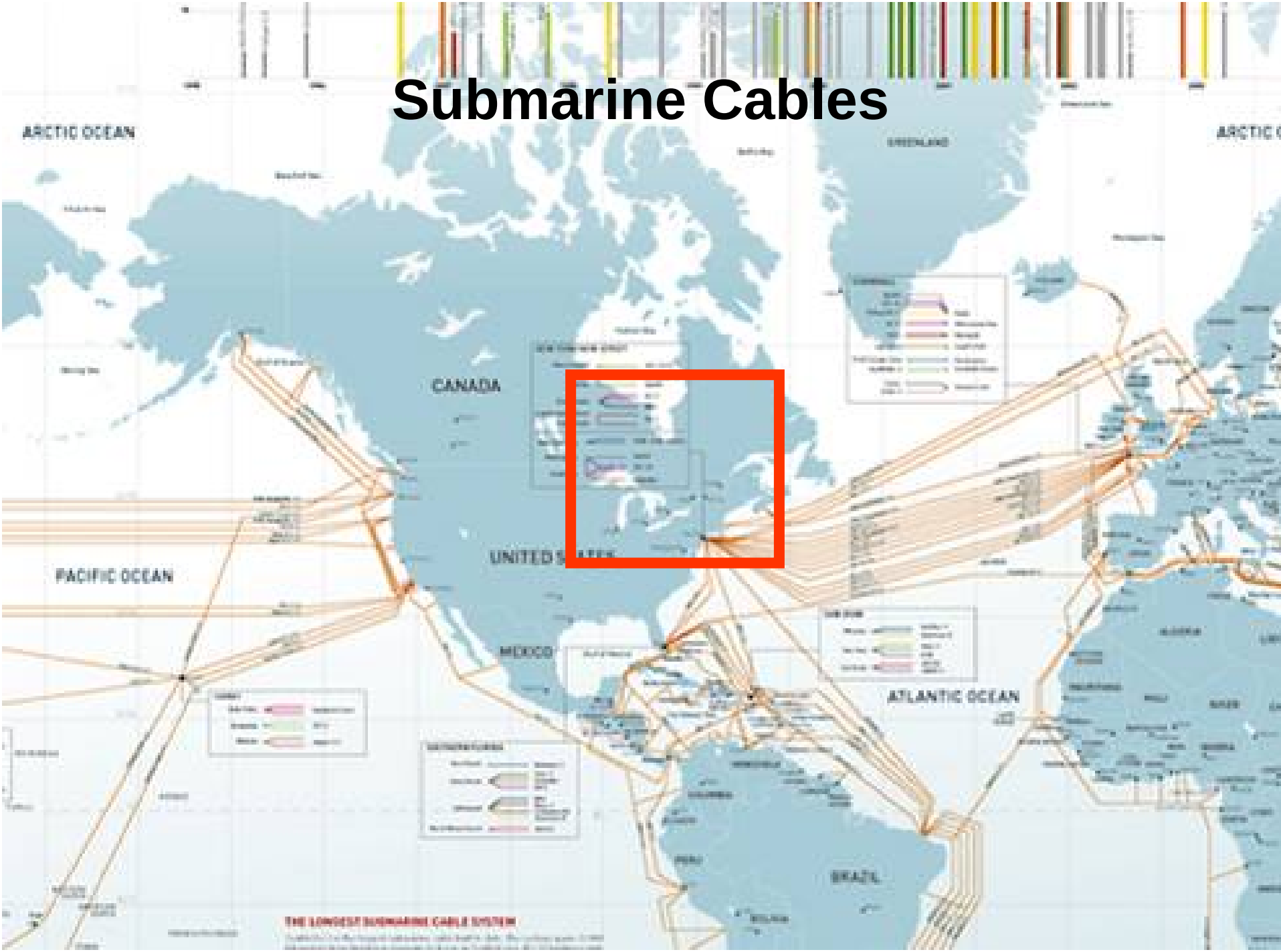

Trinity Bay
East Bay
132, Galveston Bay
204, Galveston Bay
133, Galveston Bay
111, Galveston Bay
104, Galveston Bay
134, Galveston Bay
110, Galveston Bay
105, Trinity Bay
81, Trinity Bay
203, Galveston Bay
109, Galveston Bay
106, Trinity Bay
222, Galveston Bay
108, Trinity Bay
223, Galveston Bay
107, Trinity Bay
248, Galveston Bay
163, East Bay
151, East Bay
162, East Bay
150, East Bay
152, East Bay
197, East Bay
138, East Bay
149, East Bay
139, East Bay
153, East Bay
148, East Bay
280, Galveston Bay
140, East Bay
147, East Bay
195, East Bay
285, Galveston Bay
230, East Bay
141, East Bay
194, East Bay
142, East Bay
310, Galveston Bay
231, East Bay
193, East Bay
143, East Bay
232, East Bay
311, Galveston Bay
192, East Bay
329, Galveston Bay
233, Galveston Bay
312, Galveston Bay
239, Galveston Bay
191, East Bay
328, Galveston Bay
234, Galveston Bay
313, Galveston Bay
271, Galveston Bay
327, Galveston Bay
238, Galveston Bay
280, Galveston Bay
235, Galveston Bay
333, Galveston Bay
314, Galveston Bay
272, Galveston Bay
279, Galveston Bay
237, Galveston Bay
326, Galveston Bay
273, Galveston Bay
315, Galveston Bay
334, Galveston Bay
278, Galveston Bay
236, Galveston Bay
325, Galveston Bay
274, Galveston Bay
335, Galveston Bay
316, Galveston Bay
277, Galveston Bay
336, Galveston Bay
324, Galveston Bay
275, Galveston Bay
337, Galveston Bay
317, Galveston Bay
322, Galveston Bay

The first offshore wind farm in the United States will be built beginning in 2010. Offshore energy has the greatest potential for energy independence and growth throughout the world

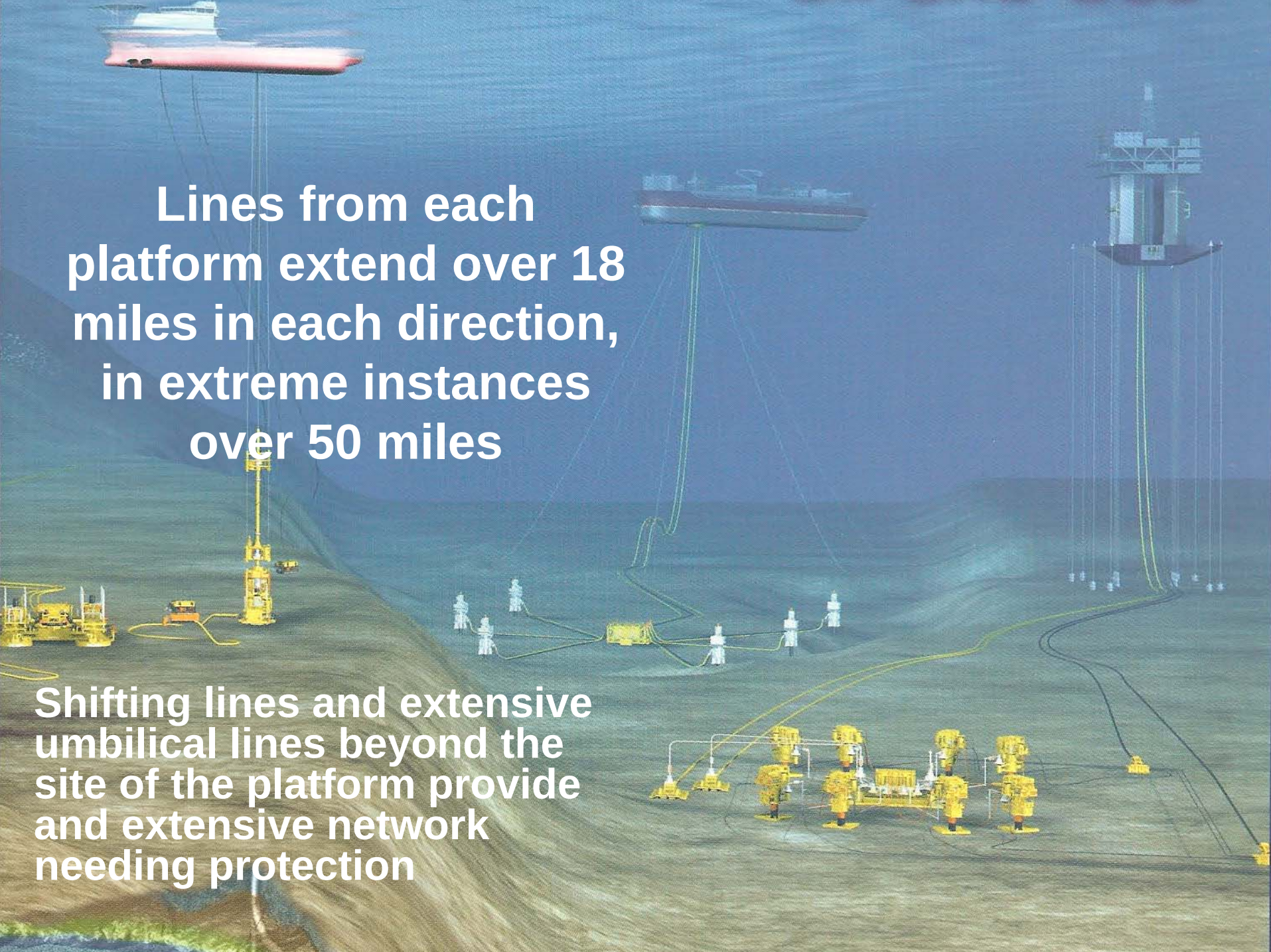
Wind Resource of Offshore Texas, *Mean Annual Wind Speed at 90 Meters*

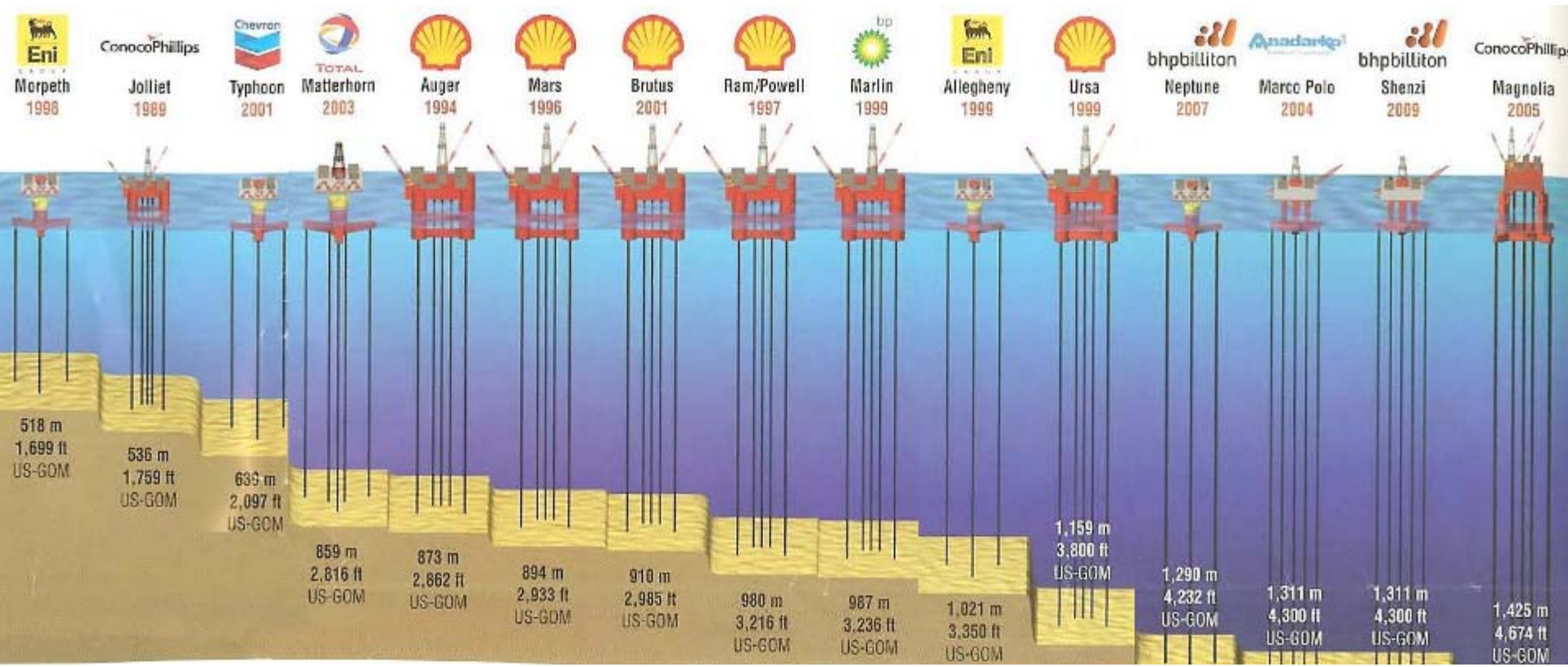


Submarine Cables



GulfSafe's focus will be on prevention


Lines from each platform extend over 18 miles in each direction, in extreme instances over 50 miles
Shifting lines and extensive umbilical lines beyond the site of the platform provide and extensive network needing protection



In 2007, depths of over 9,000 are reached and in 2010 depths of over 12,000 feet are predicted. In 2012, depths of 20,000 feet with a overall depth of 30,000 will be economically feasible.

Source: Offshore Magazine

“The oil and gas industry is pushing the envelope of technology in drilling wells in water depth of more than 20,000 feet; and with well depths in excess of 30,000 feet. Last year alone, 30 new technologies were approved for use in the deepwater GOM.”

GoM has 27,569 miles of pipeline as of June 2001. GoM now has 35,000 miles of pipeline and over 4,000 platforms.

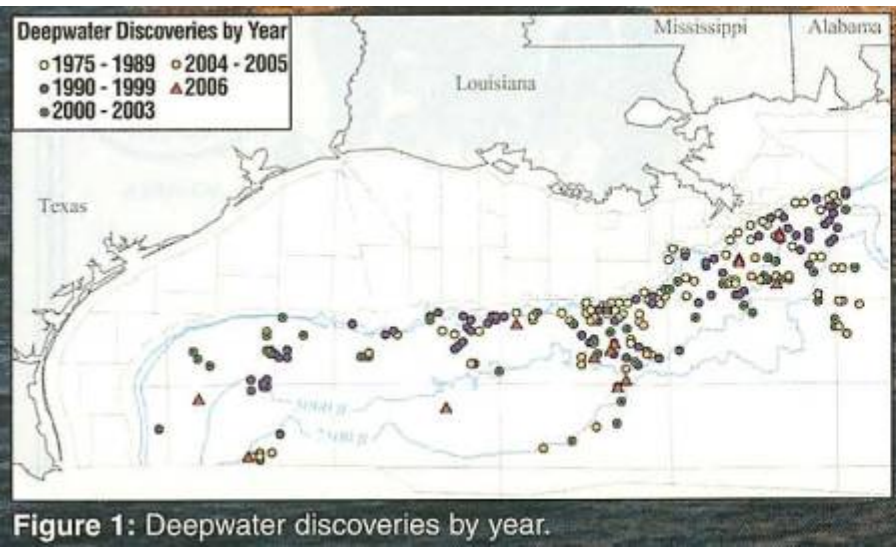


Figure 1: Deepwater discoveries by year.

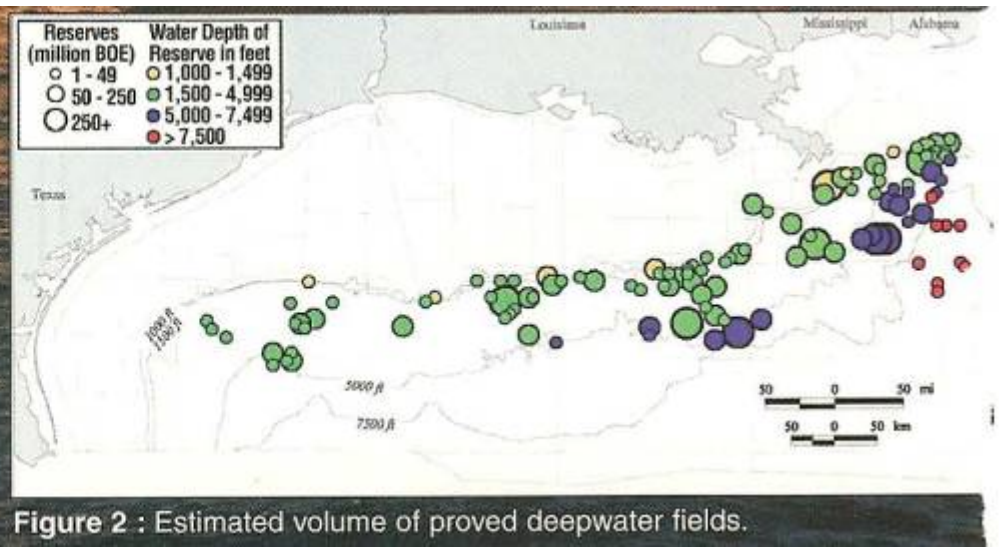
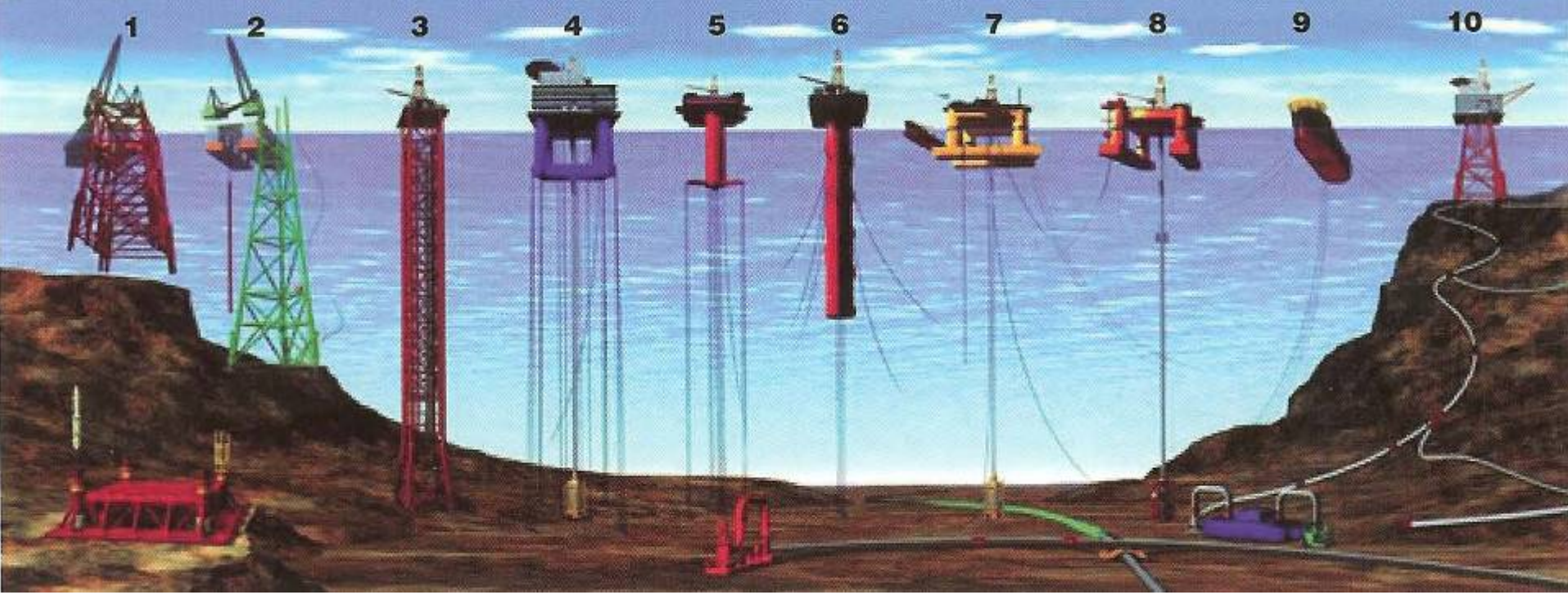


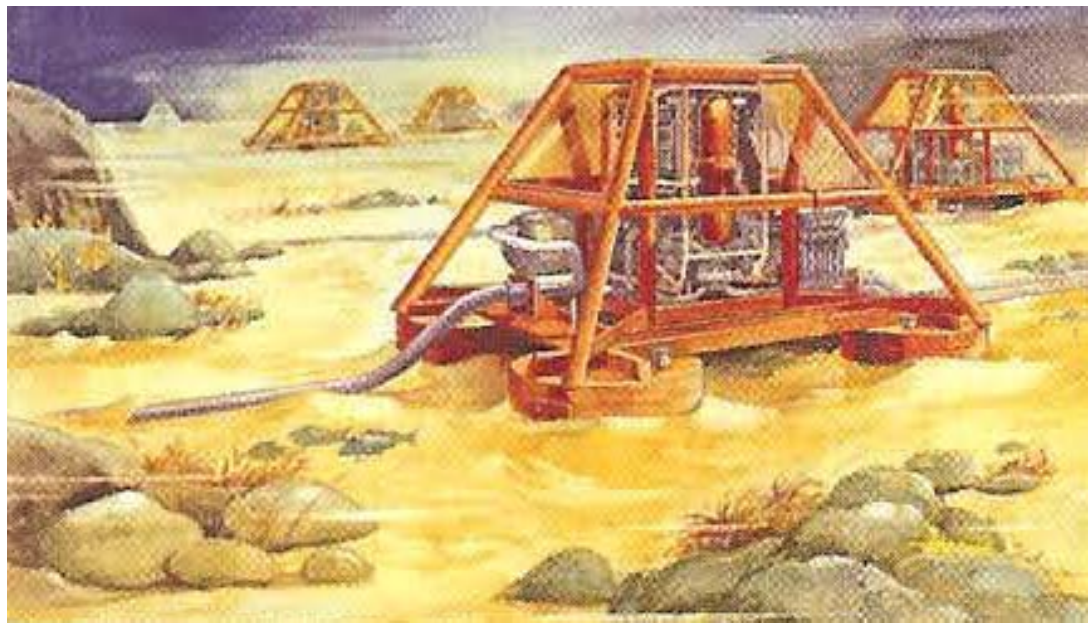
Figure 2 : Estimated volume of proved deepwater fields.

One damage for every 4,300 miles of pipe annually

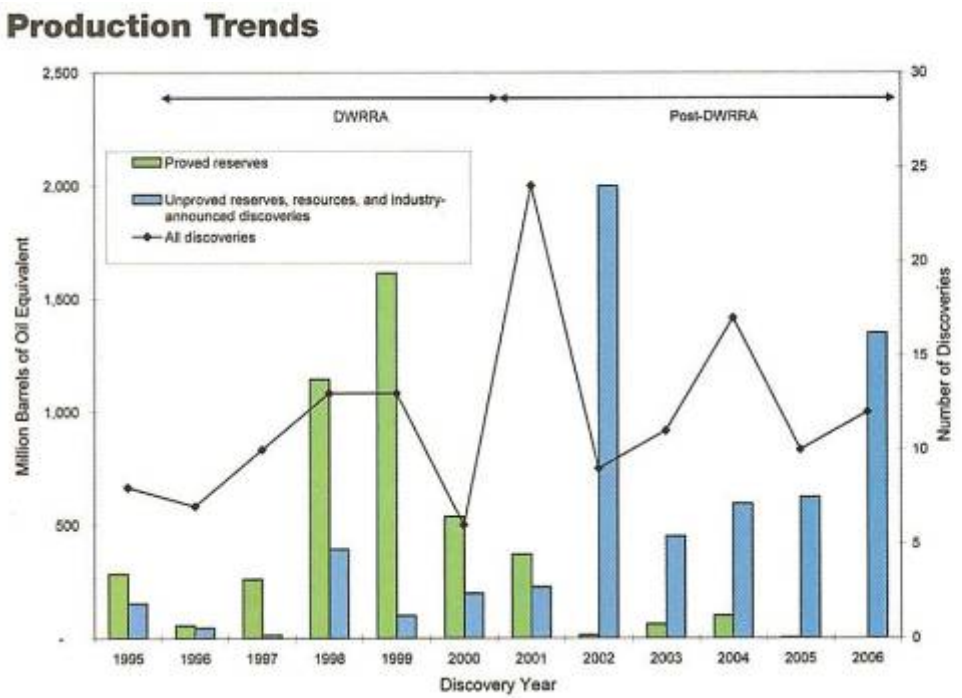


Complicated infrastructure already exists

Subsea compression is now feasible, adding to the already existing structures on the sea floor



Gulf of Mexico Production Trends



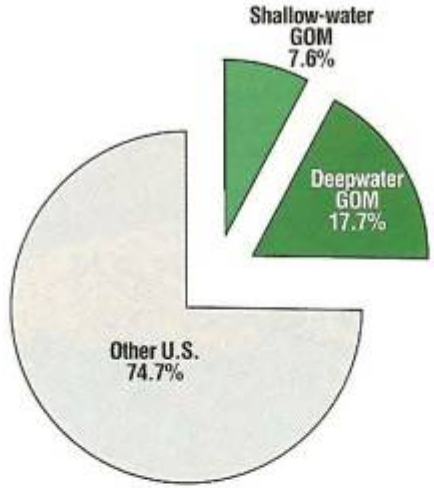


Figure 4a: OCS production as a percent of U.S. oil production.

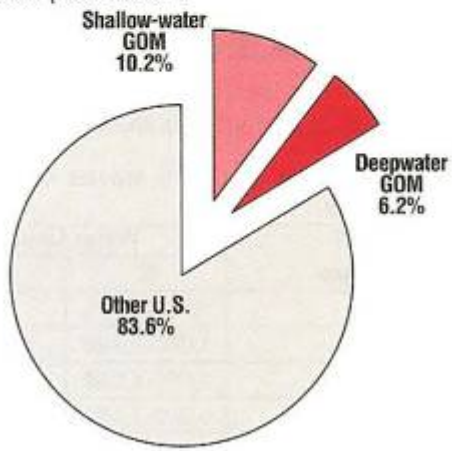
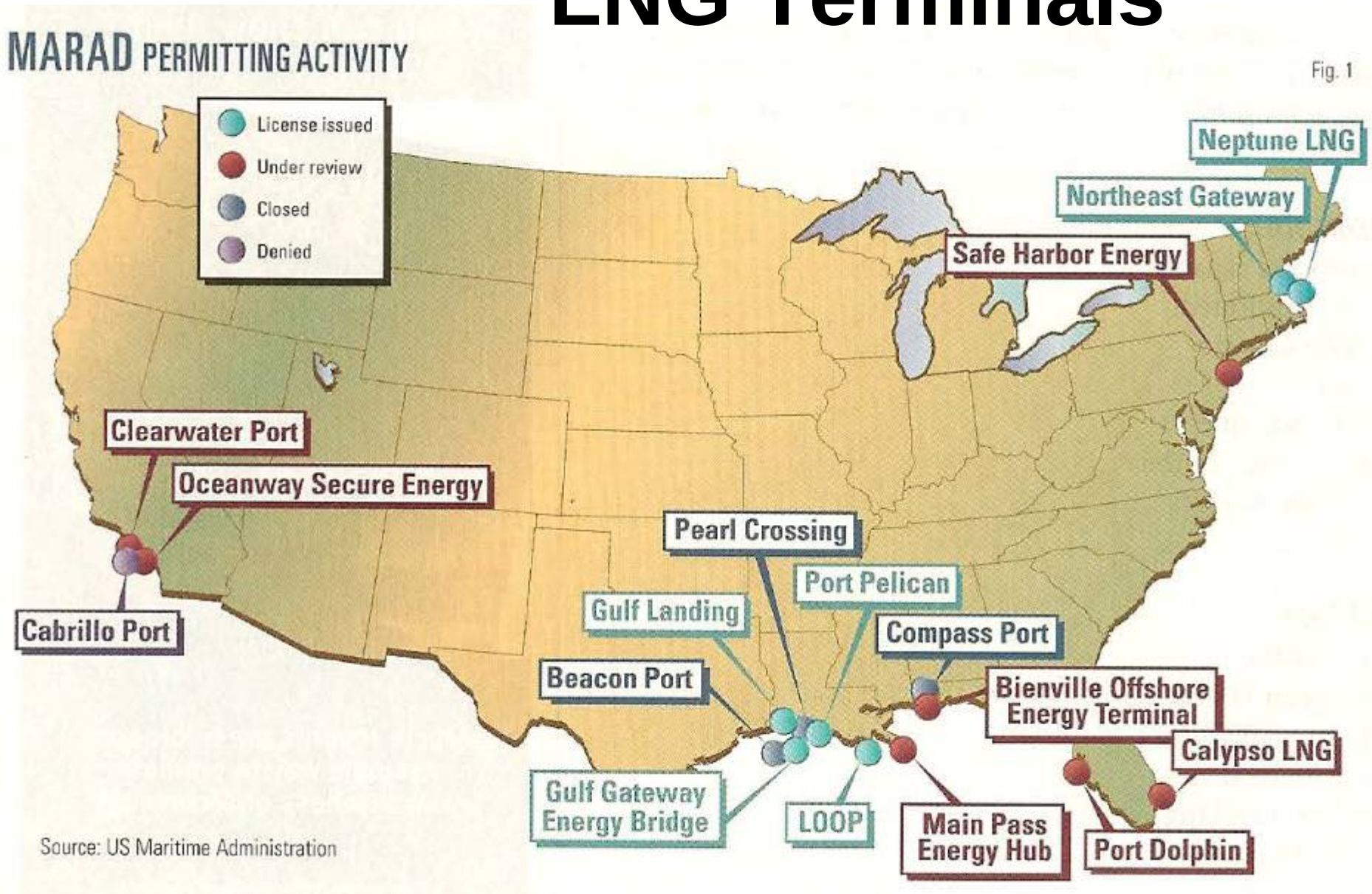
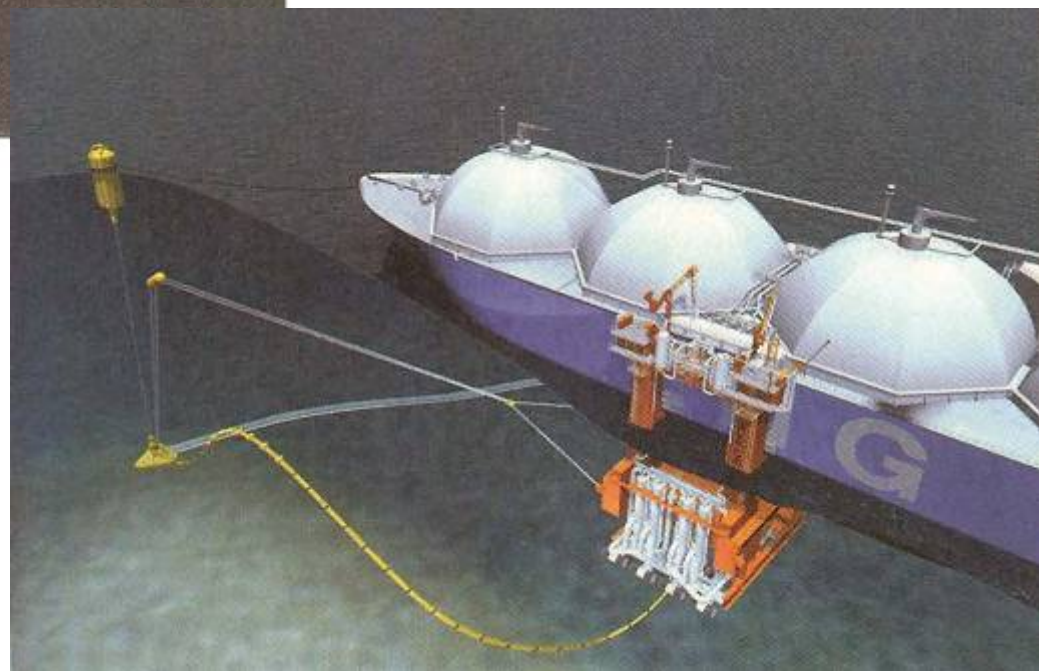


Figure 4b: OCS production as a percent of U.S. gas production.

LNG Terminals

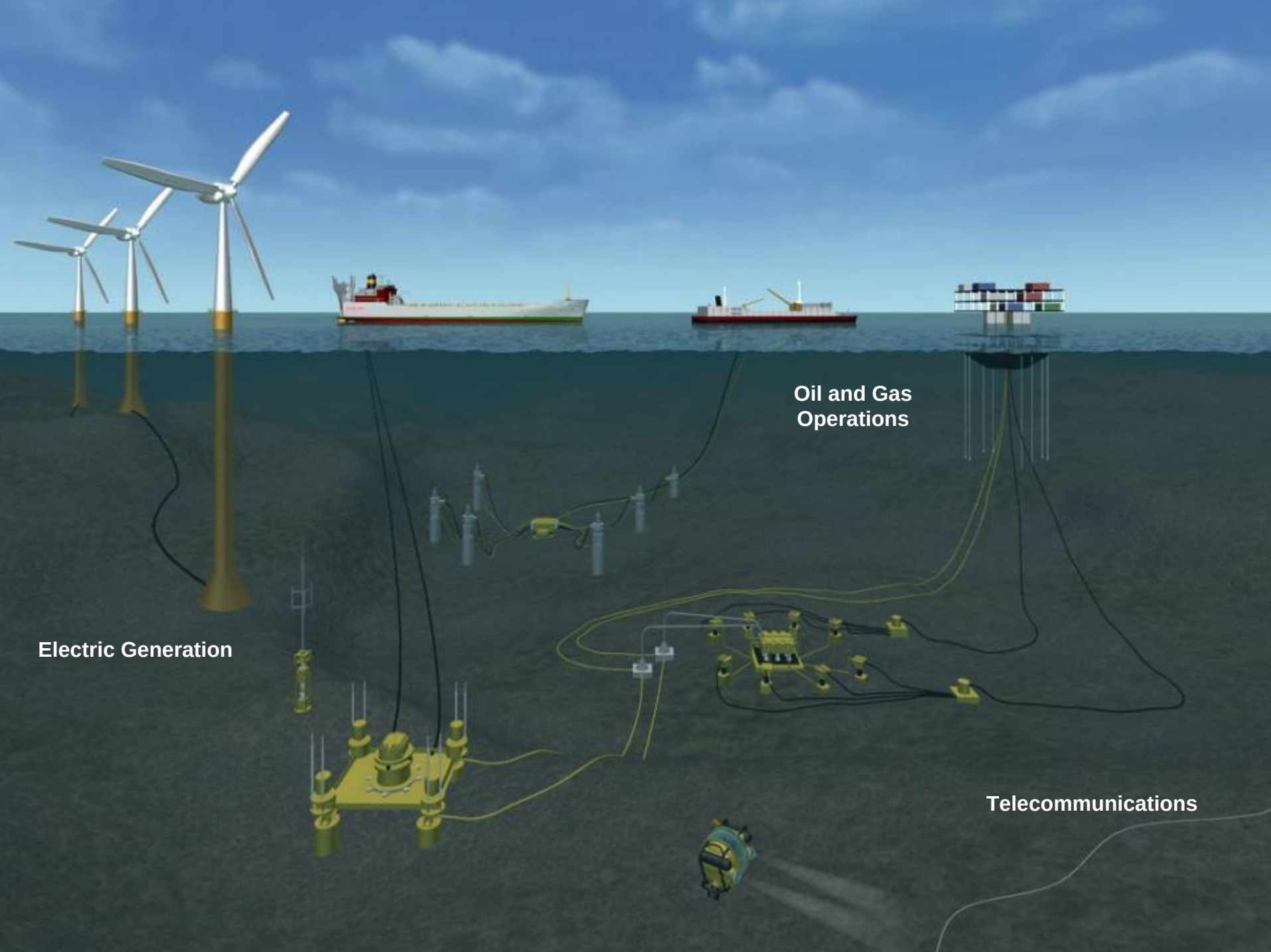


LNG Transportation and Offloading

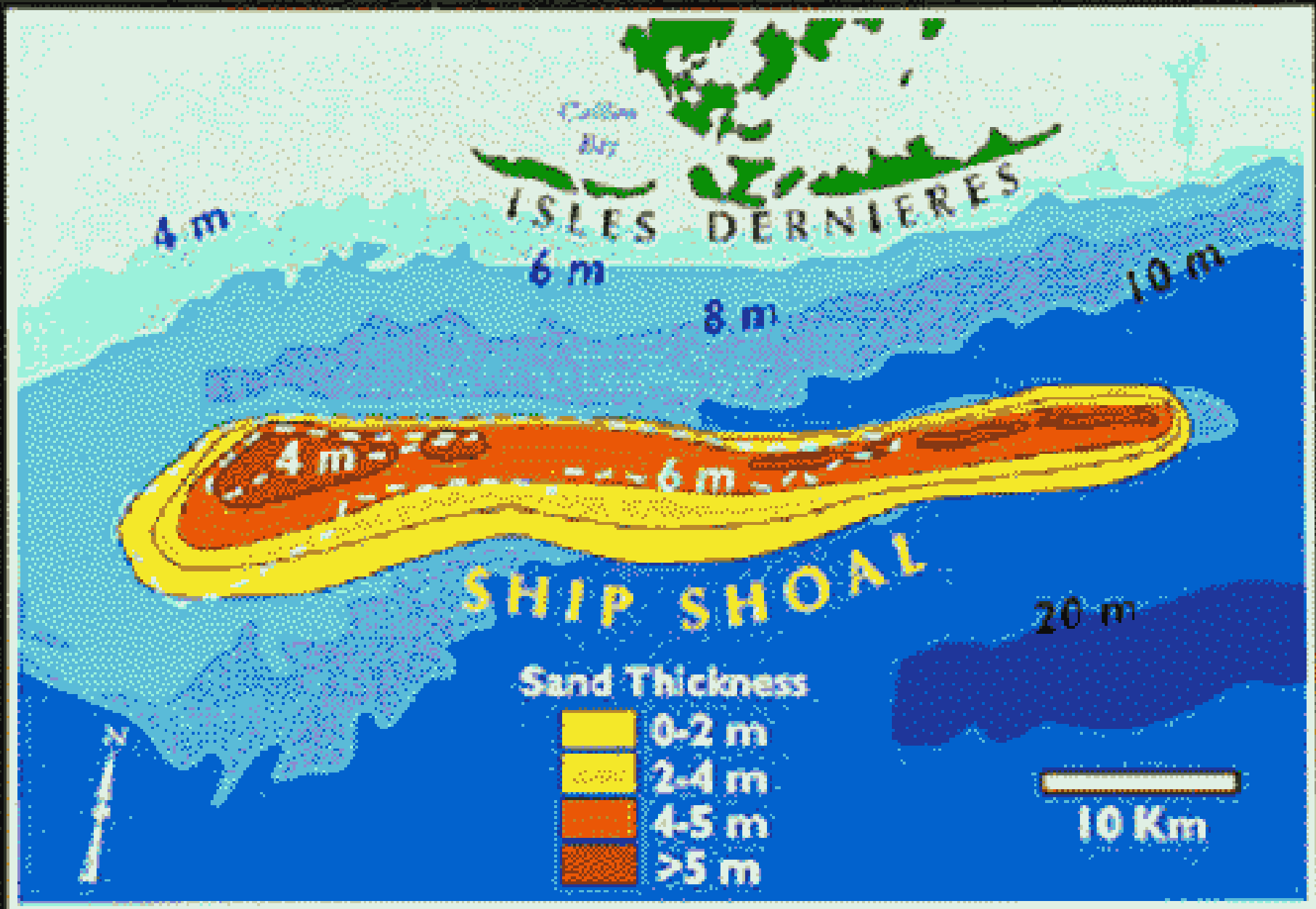


Subsea Terminals or Floating Terminals both provide a infrastructure to the shoreline. Current plans are for sites over 110 miles offshore.

Source: Offshore Magazine


Oil and Gas
Operations
Electric Generation
Telecommunications

Offshore Sand Resources



Reported Pipeline Incidents

	'96	'97	'98	'99	'00	'01	'02	'03	'04	'05	'06*
GOM	7	13	2	7	7	11	8	9	8	6	0
PAC	0	0	0	1	0	0	1	0	0	0	0
Total	**7**	**13**	**2**	**8**	**7**	**11**	**9**	**9**	**8**	**6**	**0**

One damage for every 4,300 miles of pipe annually

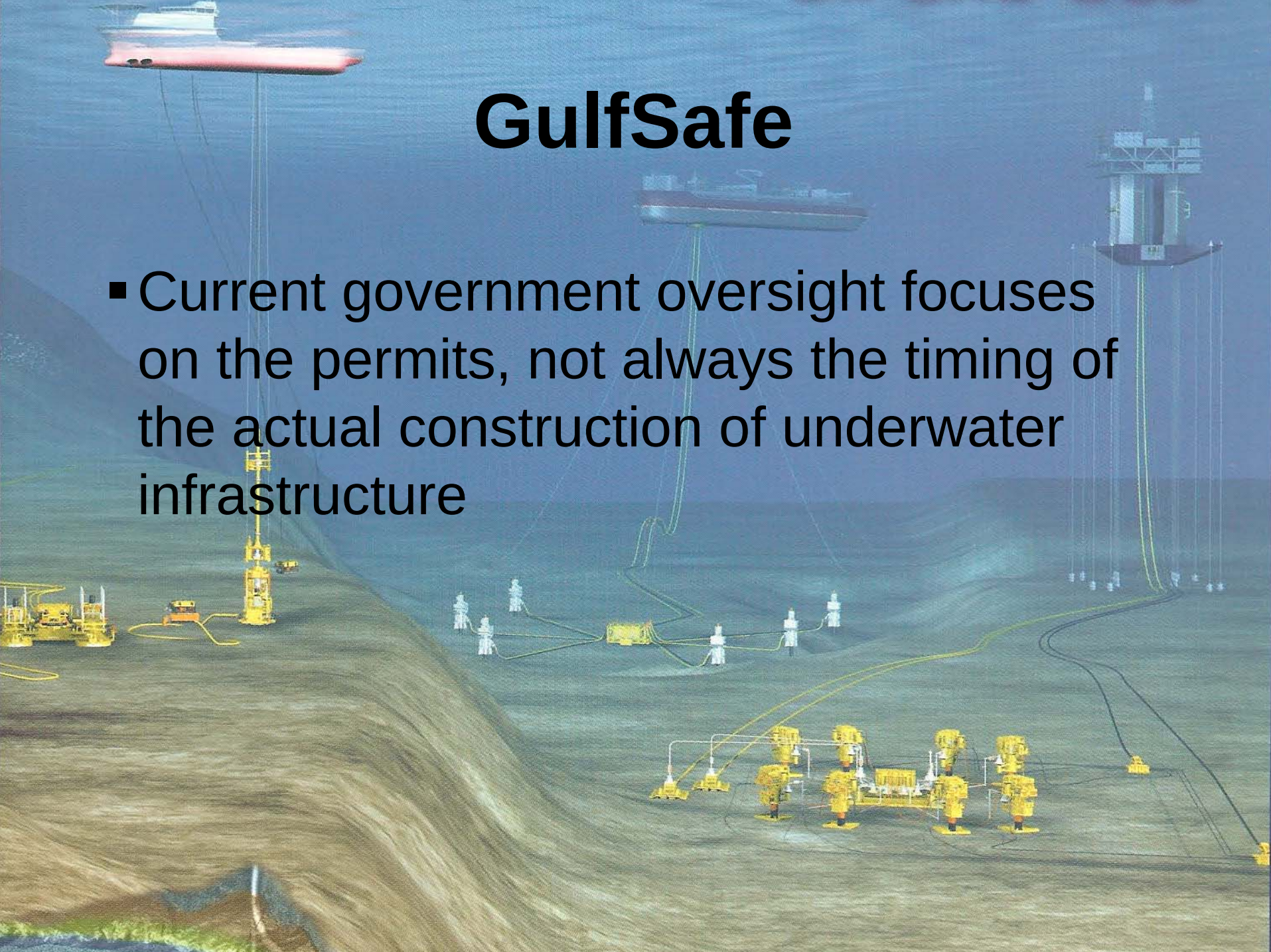
***Not yet reported**

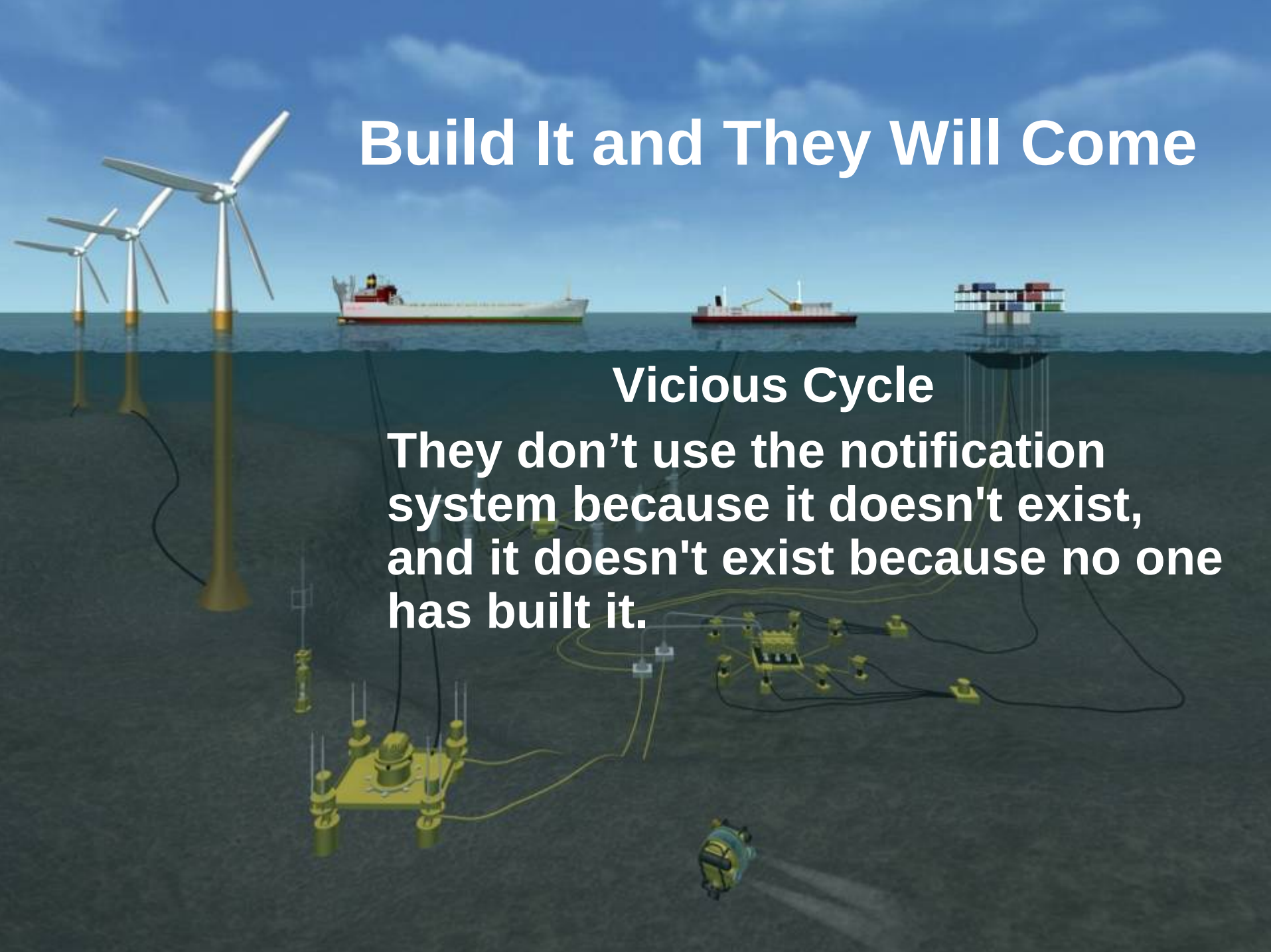
Areas of Authority

- MMS has maps and permit authority
- Coast Guard
- Corps of Engineers
- Department of Interior
- Fish and Wildlife
- Archeological Sites Managed by U.S. Government
- Texas General Land Office
- Texas Railroad Commission
- Over 14 other Agencies have authority in the Gulf

GulfSafe

- Current government oversight focuses on the permits, not always the timing of the actual construction of underwater infrastructure





Build It and They Will Come

Vicious Cycle

They don’t use the notification system because it doesn't exist, and it doesn't exist because no one has built it.

GulfSafe

This is GulfSafe:

An offshore damage prevention and notification system.

- 25% of domestic oil production and 16% of total US gas production occur in the Gulf of Mexico.
- Over 35,000 miles of pipelines crisscross the bottom of the Gulf connecting over 4,000 platforms to the coast.
- Thousands of miles of telecommunications cables exist there today.
- Soon, wind generation of electricity will begin in the Gulf.

Our nation's critical infrastructure is expanding offshore: a new way to protect it is needed. GulfSafe was formed to meet the challenges of working in this complex and dangerous environment.
In 2007, 811 launched an elevated awareness of land-based notification systems. Onshore 811.
Offshore GulfSafe.com.

Who we are:

Texas Excavation Safety System, Inc. (TESS) has over 20 years of notification system experience, and is operating the only notification system functioning beyond sight of land. GulfSafe is a wholly-owned subsidiary of TESS. TESS operates one of the largest One Call Centers in the United States, processing over two million incoming notifications annually. From our secure data center in Dallas, Texas, GulfSafe provides the most secure location of the five Gulf states in the event of Hurricane landfall.

Our Goal, Mission Statement & Core Values

Our goal is to eliminate preventable damages to subsurface infrastructure in the Gulf of Mexico and the Straits of Florida.

News & Events

The following is a short list of GulfSafe related news articles and events.
News>>>

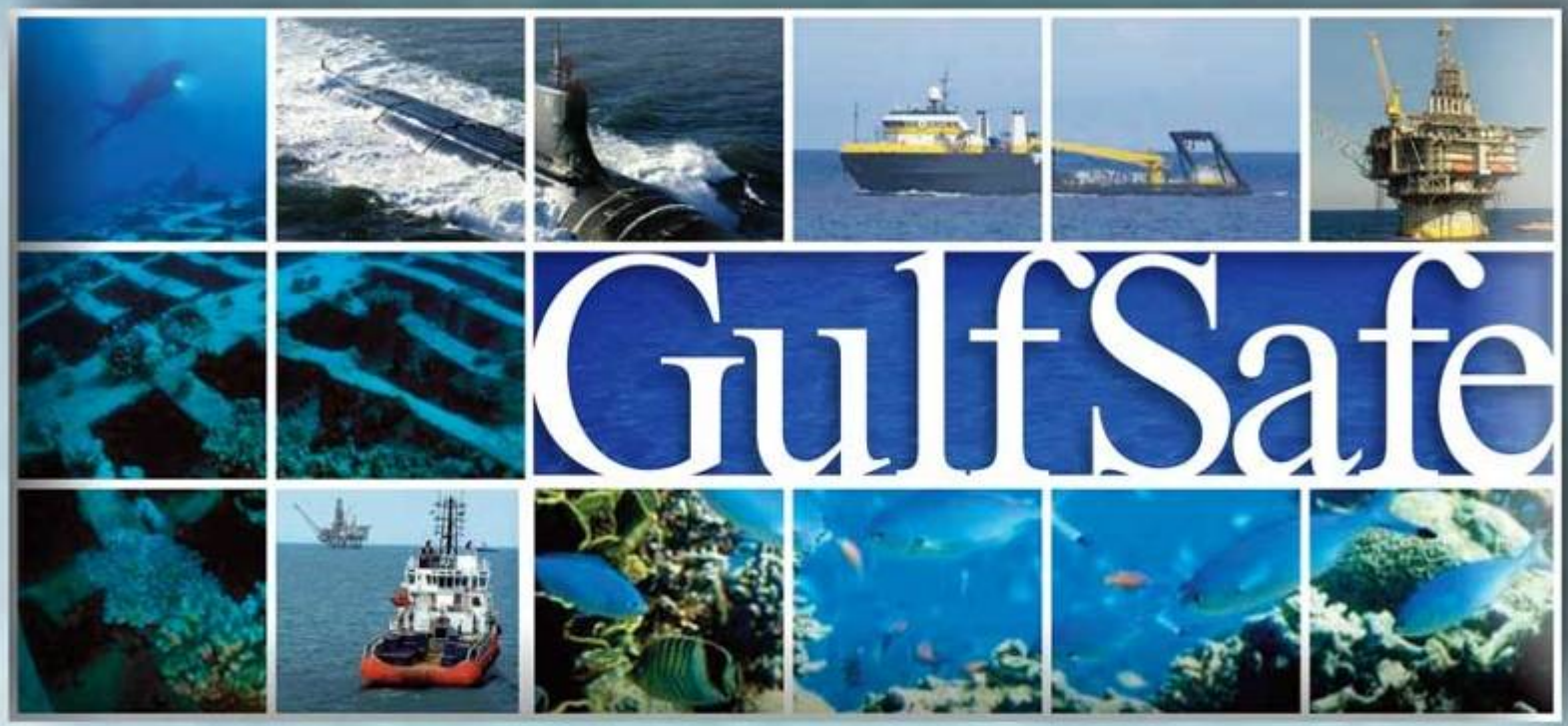
A quick list of related events many of which GulfSafe will be exhibiting, presenting or attending.
Events>>>


“Nothing out there is cheap.”
“There are no six figure damages in the Gulf.”

Four Phases of Operation

- Operators and producers only
- Expand to contractors and shipping
- Expand interested parties (divers, research and environmental)
- Open system to the general public

GulfSafe Notification System



Onshore 811
Offshore GulfSafe.com