

Future Offshore Gulf of Mexico Oil & Gas

Clint Moore

Oil & Gas Representative

Flower Garden Banks National Marine Sanctuary Advisory Council

Presentation to

Beyond the Horizon Conference

Marine Mote Lab, Sarasota, Florida

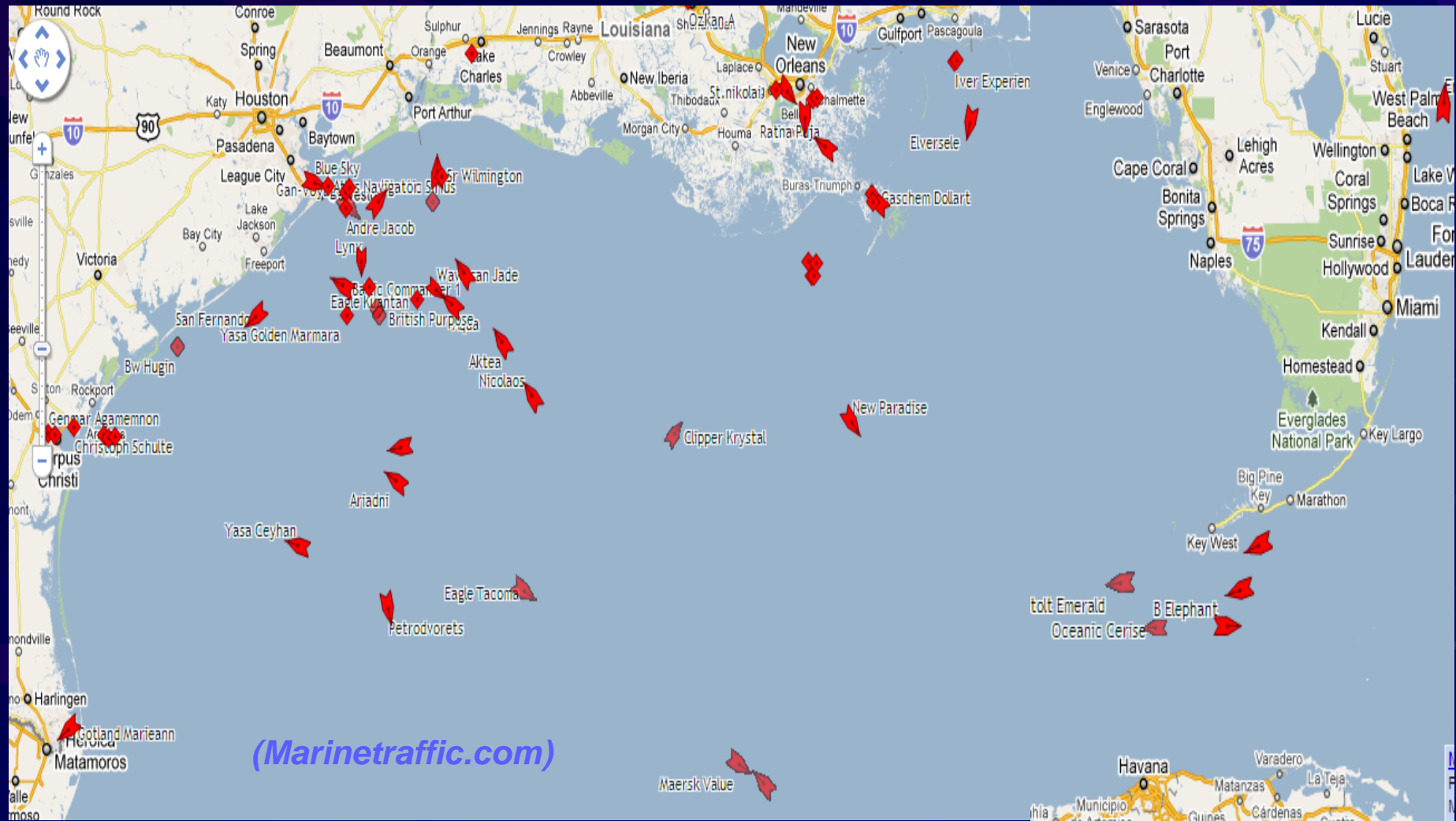
May 12, 2011

U.S. Oil Consumption & Supply

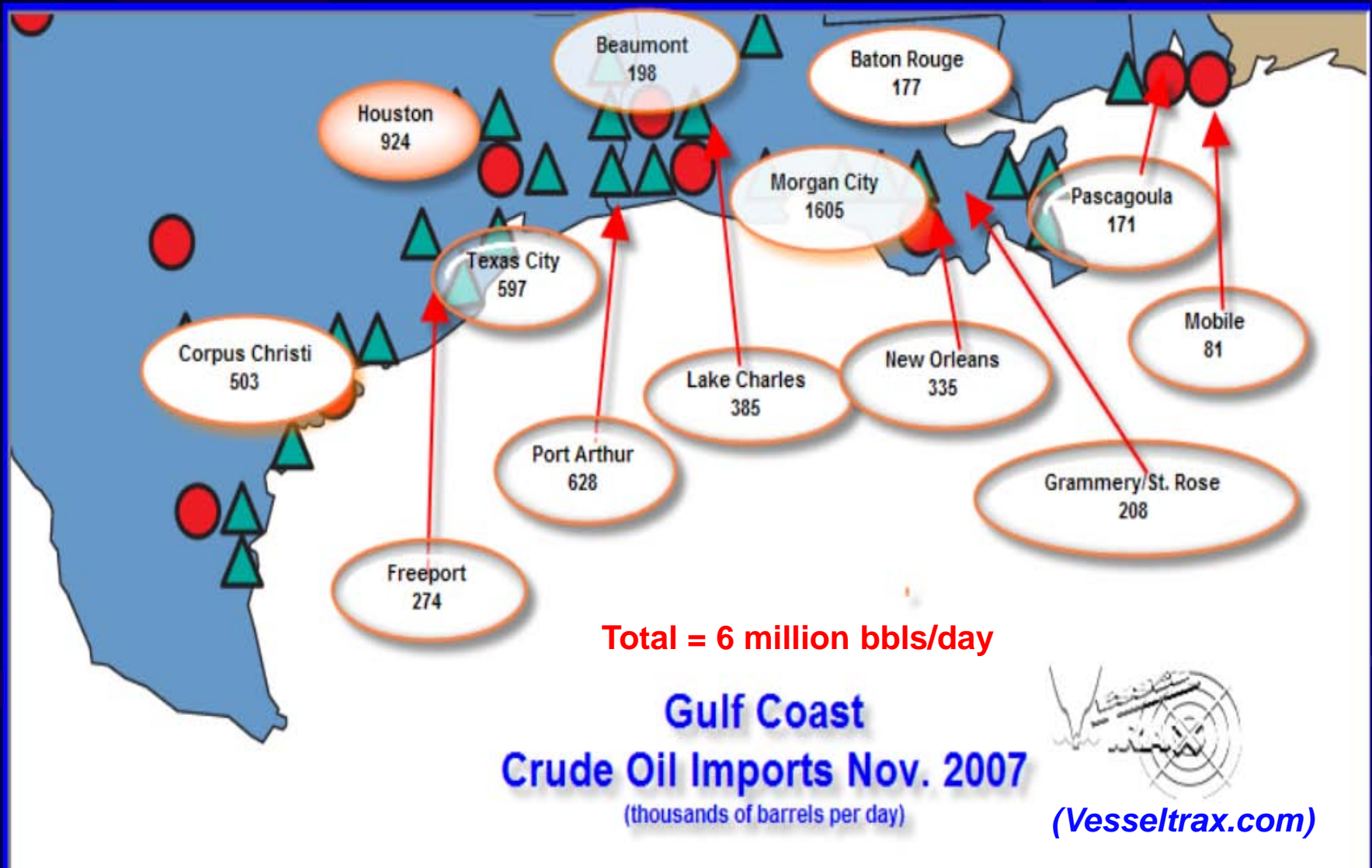
U.S. OIL DEMAND	Million Barrels/Day	Trillion Gallons/Year
U.S. Gasoline	9.5	146
U.S. Distillate & Fuel Oil	4	61
U.S. Jet Fuel & Kerosine	1.4	21
U.S. Residual & Bunker	0.6	9
U.S. Others - Chem, Lubes, etc.	4.5	69
Total U.S. Oil Demand	20	307
		0
Total World Oil Demand	86	1,318
Total World Oil Supply	86	1,318
U.S. OIL SUPPLY	Million Barrels/Day	Trillion Gallons/Year
U.S. Gulf Offshore Oil Production	1.5	23
U.S. Non-Gulf Oil & NGL Prod.	6	92
Gulf Coast Tanker Crude Imports	5	77
East Coast Tanker Crude Imports	1	15
West Coast Tanker Crude Imports	1	15
Refined Tanker & Pipeline Imports	2.3	35
N.A. Imports	1.5	23
Other supply	1.7	26
Total U.S. Oil Supply	20	307

Source: EIA website

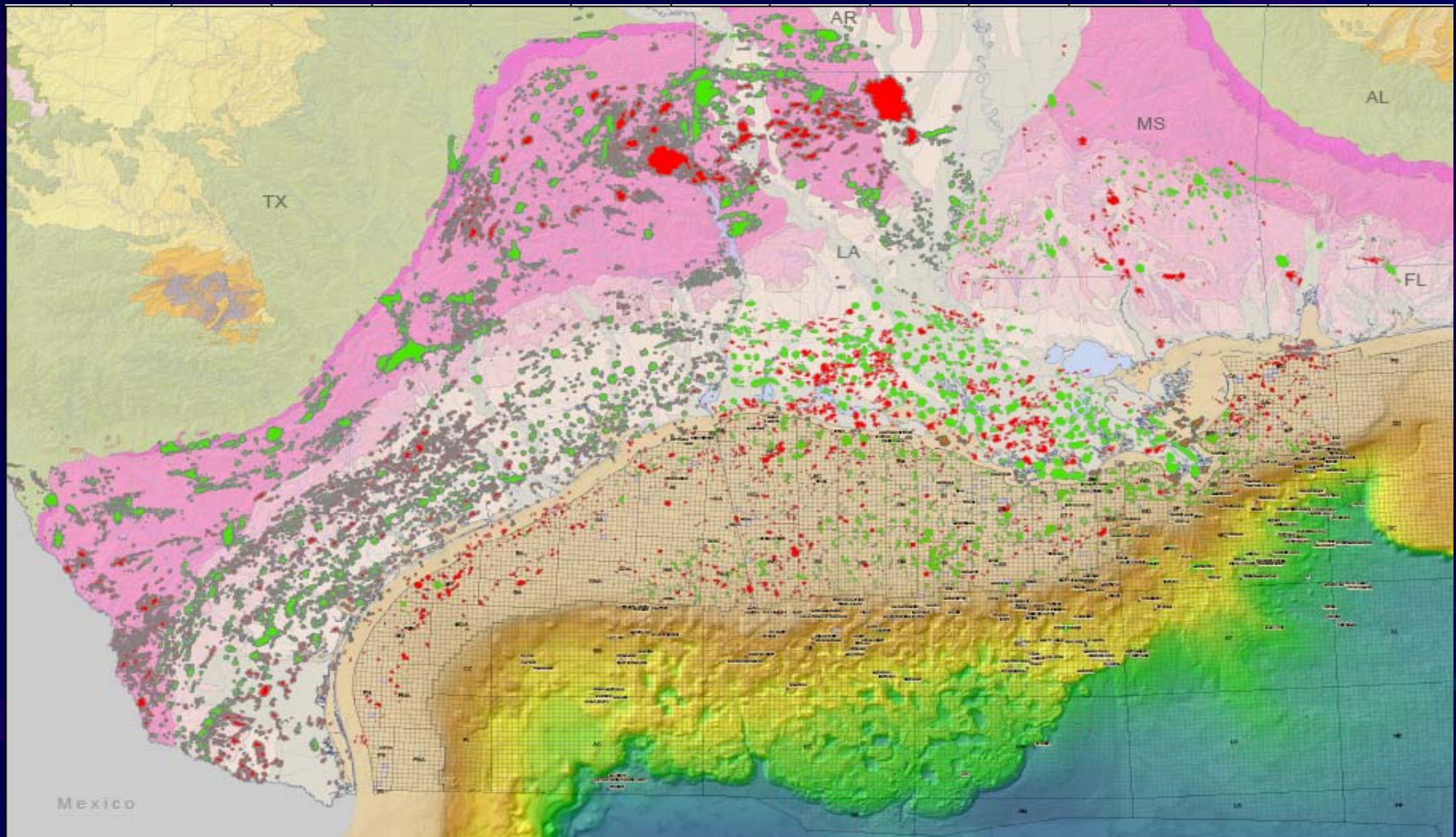
**About 50+ Tankers in US Gulf of Mexico
offloading 252 million gallons every single day**



Gulf Coast Daily Tanker Oil Imports to Refineries



Gulf of Mexico Oil & Gas Fields



Offshore Gulf of Mexico Oil & Gas

Historical Production

***14+ Billion Bbls Oil and 150+ Trillion cu-ft Natural Gas
(1.7 Trillion gallons of oil equivalent)***

Productive Fields' Remaining Producible Reserves

***14+ Billion Bbls Oil and 60+ Trillion cu-ft Natural Gas
(1 Trillion gallons of oil equivalent)***

Undiscovered Oil & Gas (BOEMRE Mean Estimate)

***45+ Billion Bbls Oil AND 230+ Trillion cu-ft Natural Gas
(3.5 trillion gallons of oil equivalent)***

25% of US Daily Oil Production – 14% of US Daily Gas Production

Oil & Gas Activity in GOM

100+ Offshore Operators – 500+ Offshore Companies

50,000+ Direct Offshore Workers

500,000+ “Involved” Workers on Gulf Coast

60+ Years of Drilling & Production

55,000+ wells drilled to date

4,000+ deepwater (500'+ water depth) wells

400+ ultradeepwater (5,000'+ water depth) wells

Only 60 Movable Offshore Drilling Units (MODU) Working in the GOM in May 2011



Platforms & Caissons



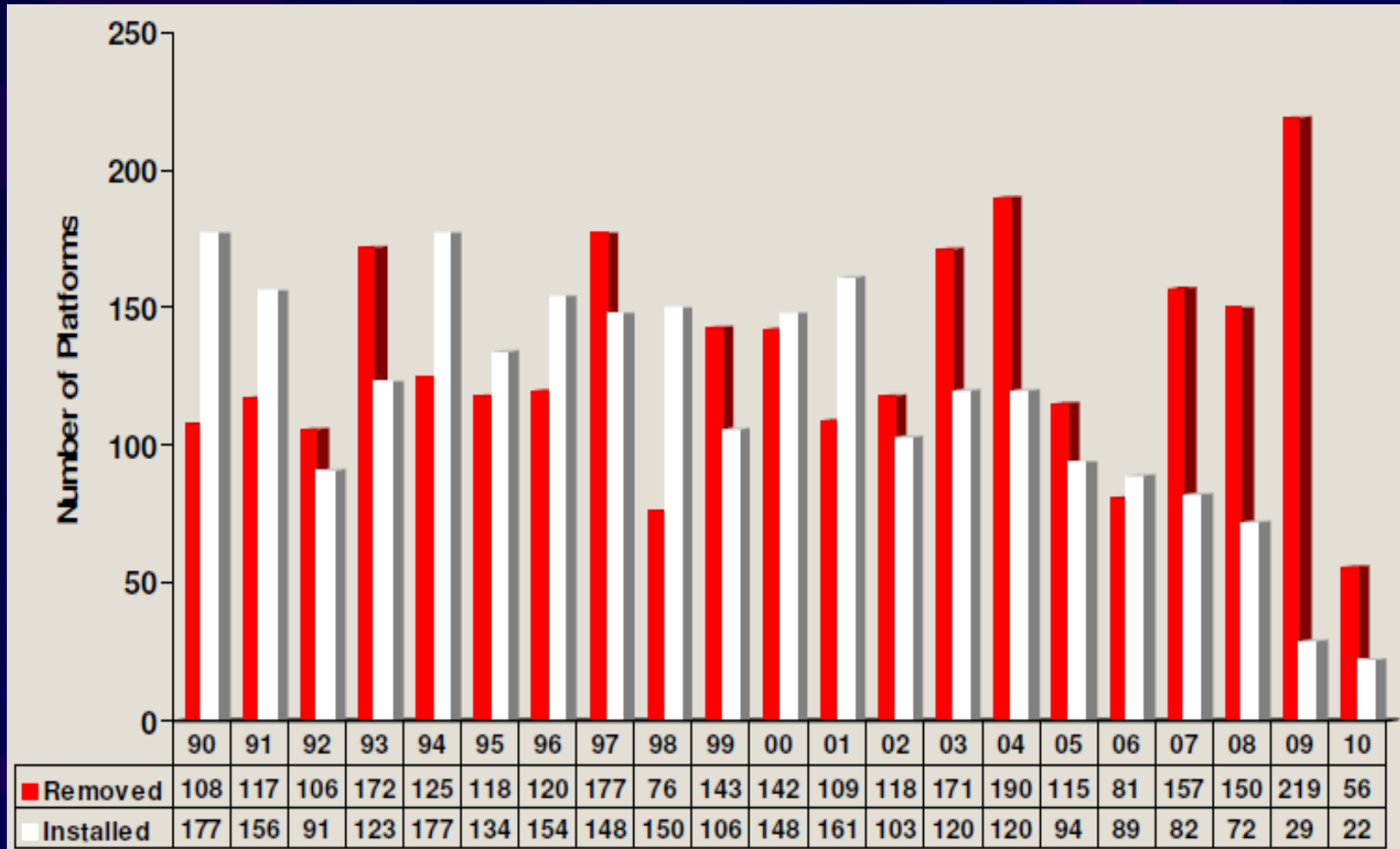
HI-A-389



2,500+ Fixed Leg Platforms – 1,000+ Single Well Caissons

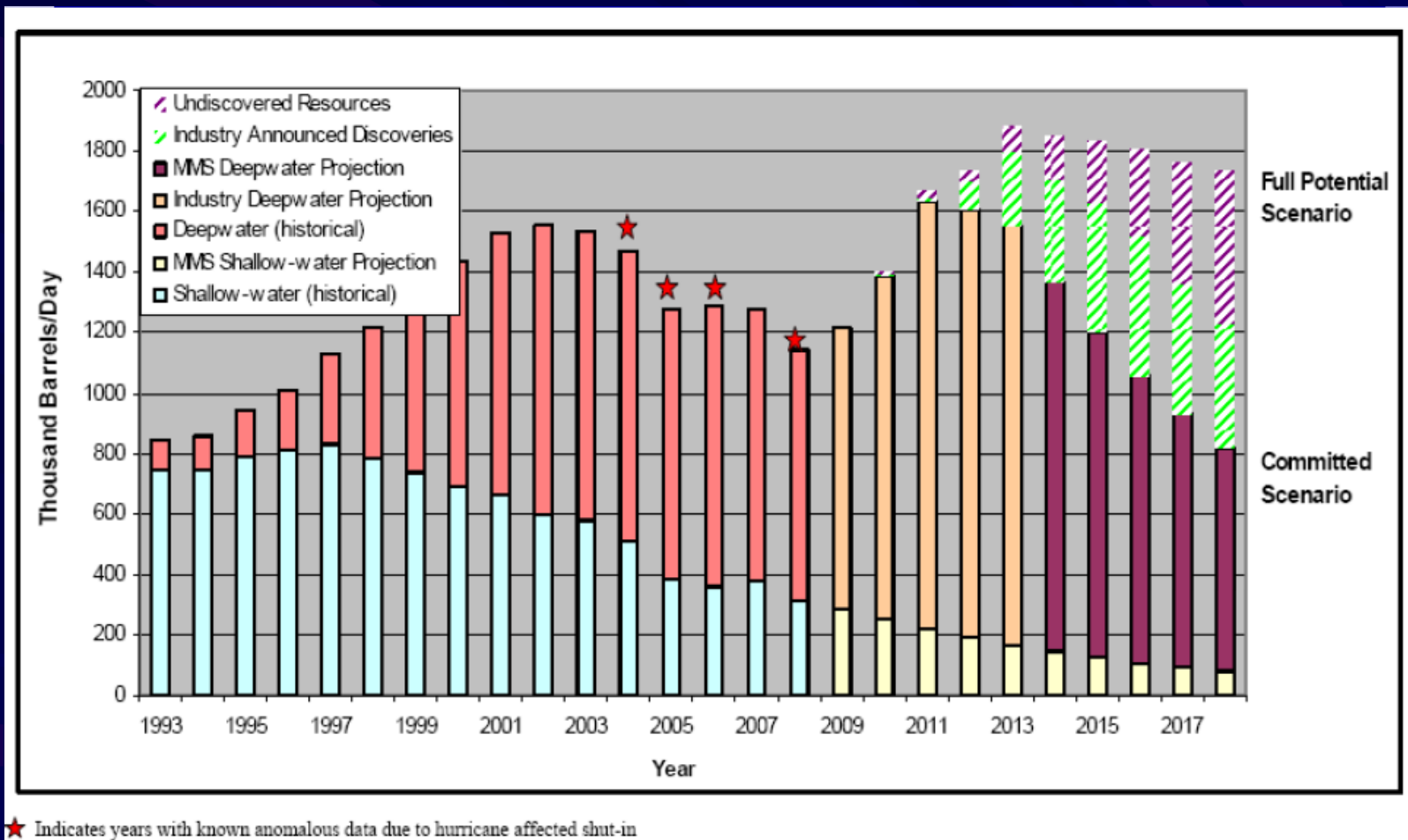
Platform Installation & Removals by Year

“Idle Iron Platforms” or Useful Longterm Reefs?

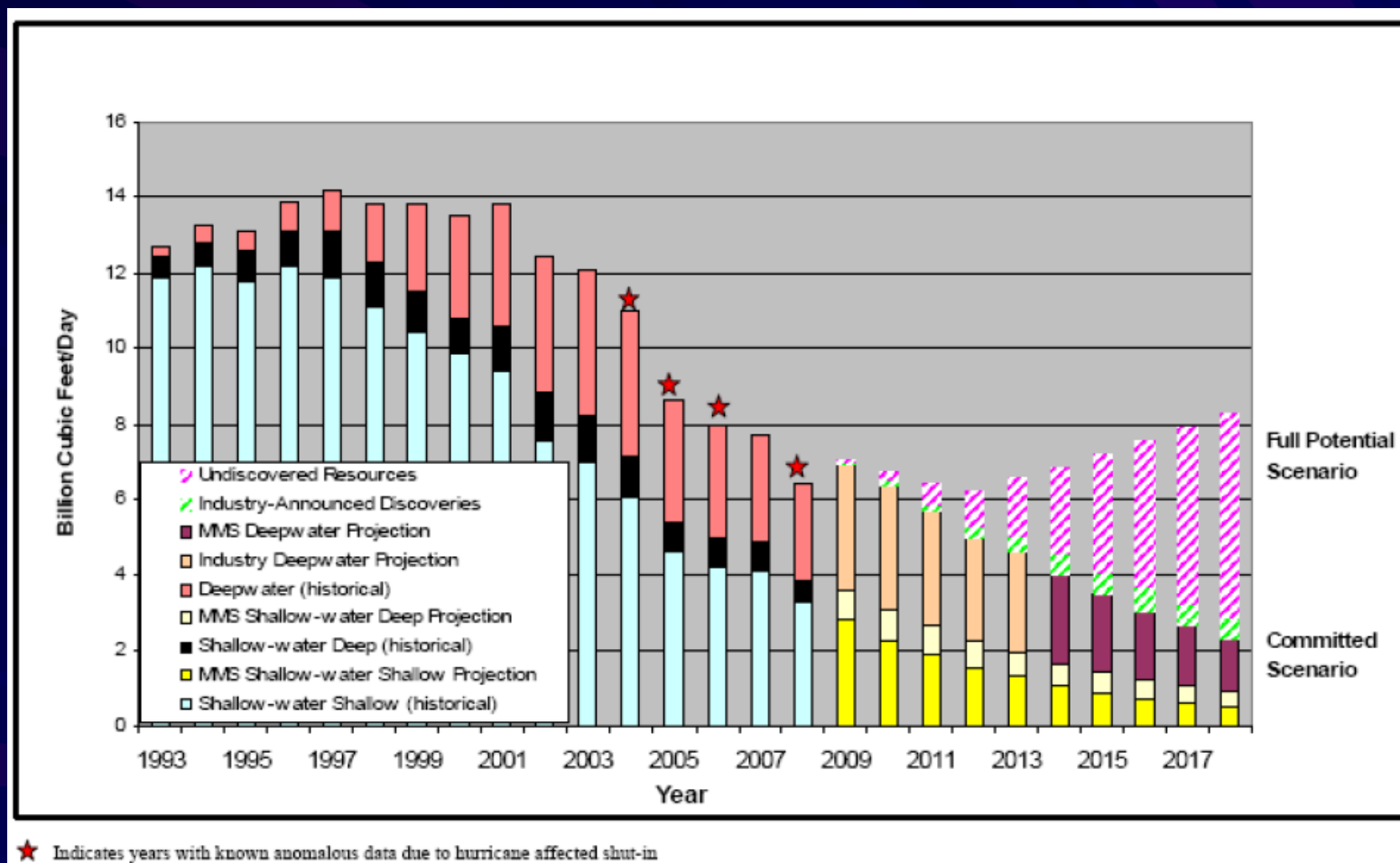


(BOEMRE - M.S. Falk – OOC RTR Conf - Nov. 2010)

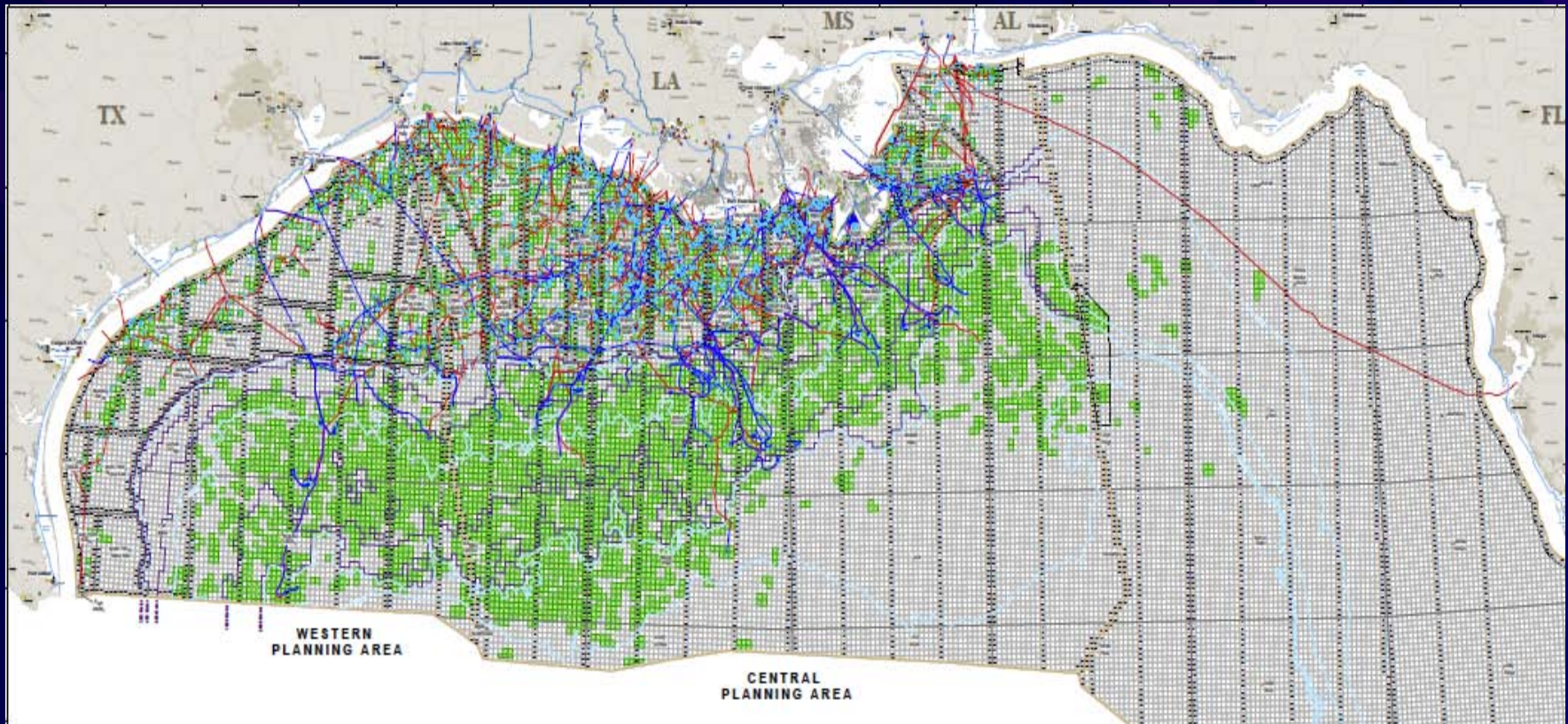
Oil Production 1993 - 2018



Gas Production 1993 - 2018



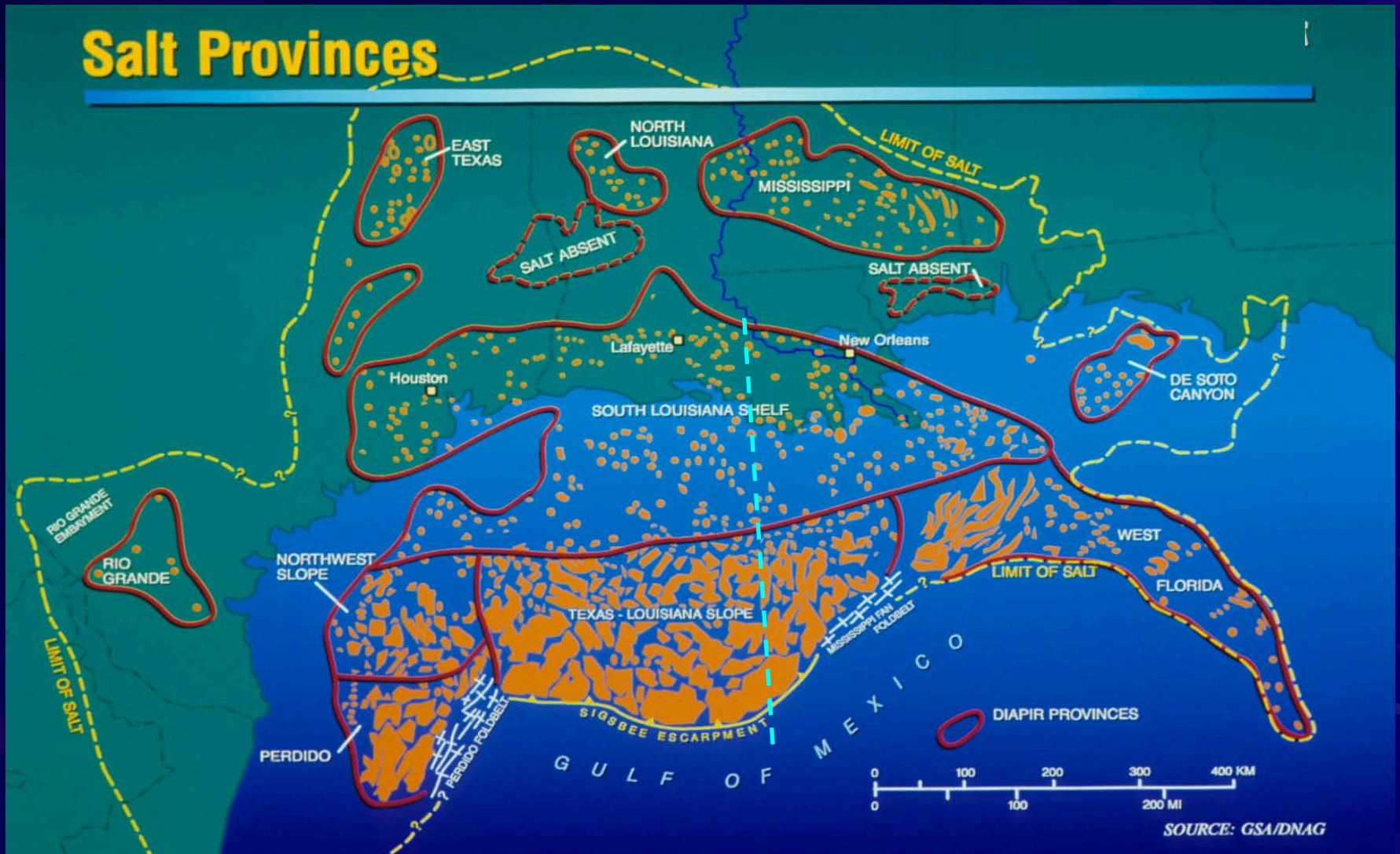
To Explore – Must have Leases



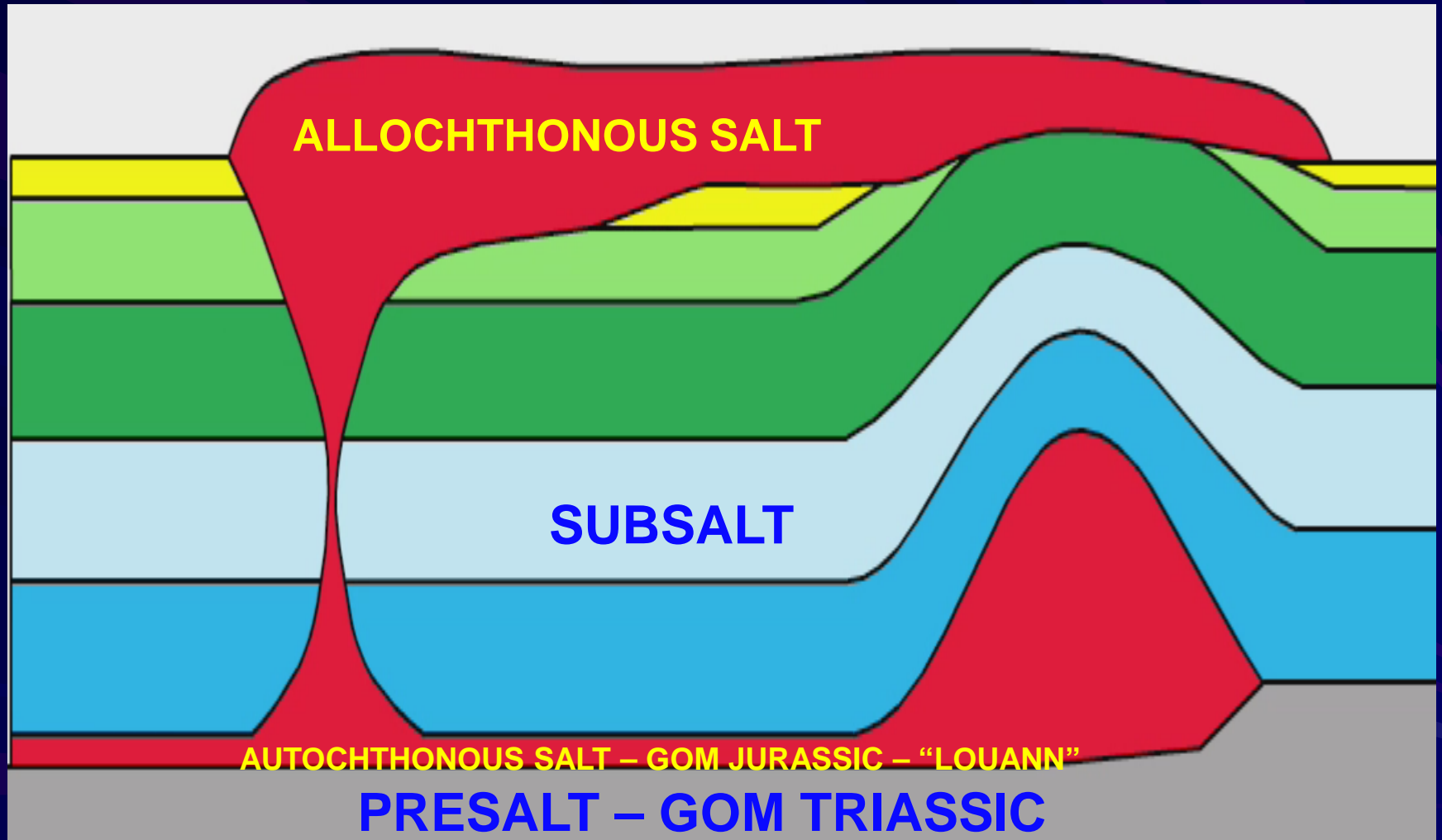
6,269 Active Federal Leases – 33.6 million acres leased

(per BOEMRE website May 2011)

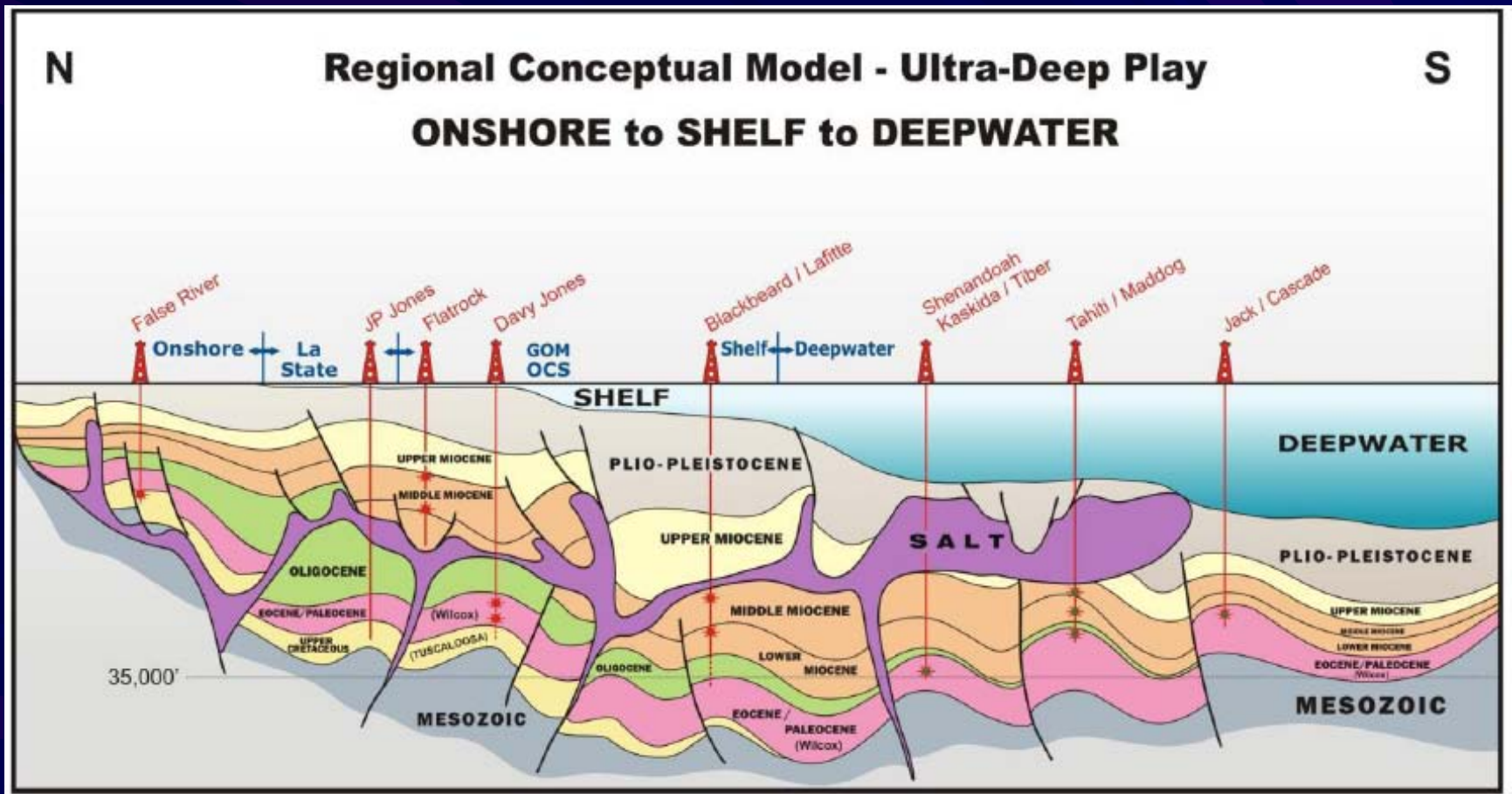
Salt Provinces in Northern Gulf of Mexico



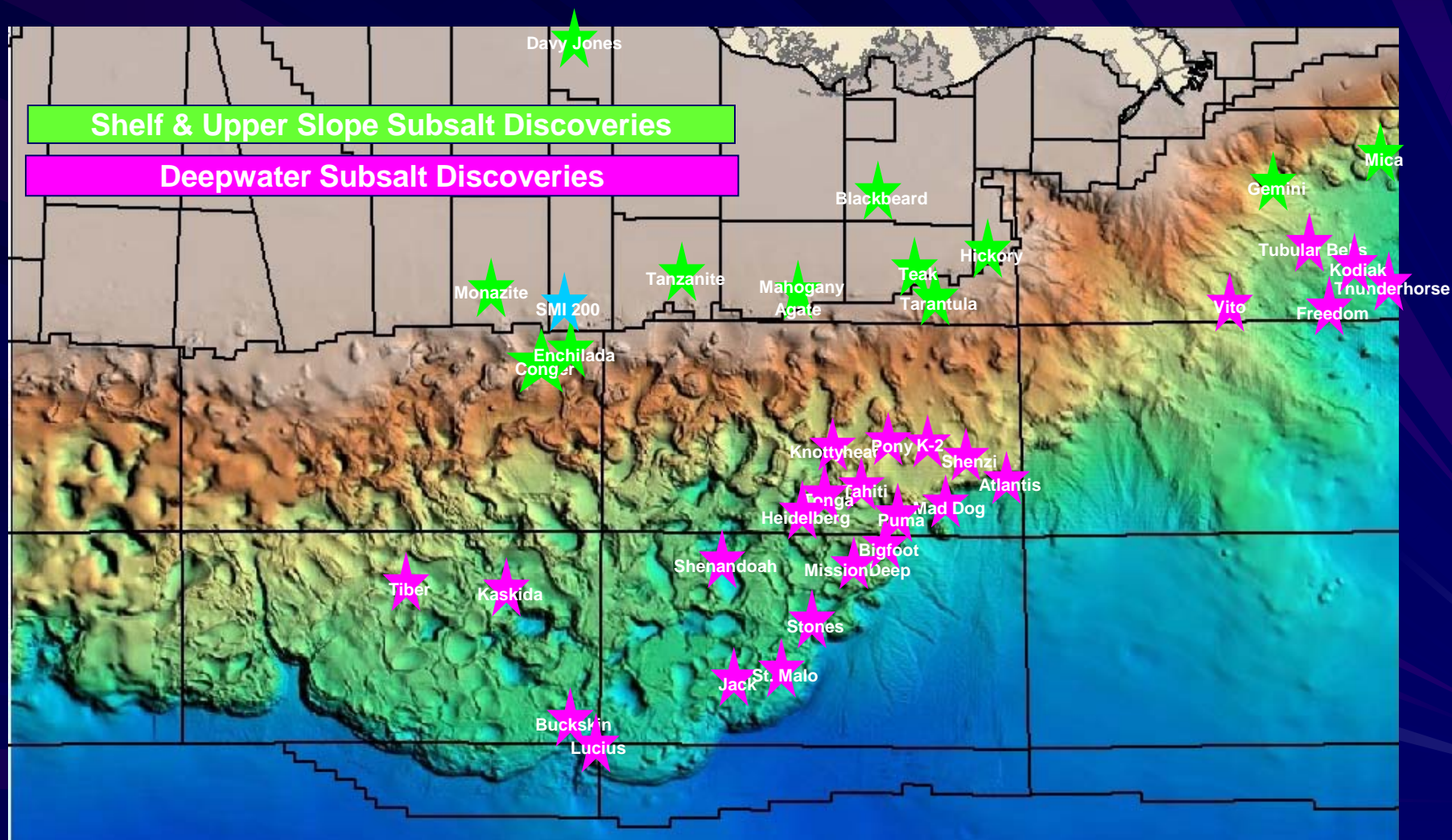
Subsalt vs. Presalt



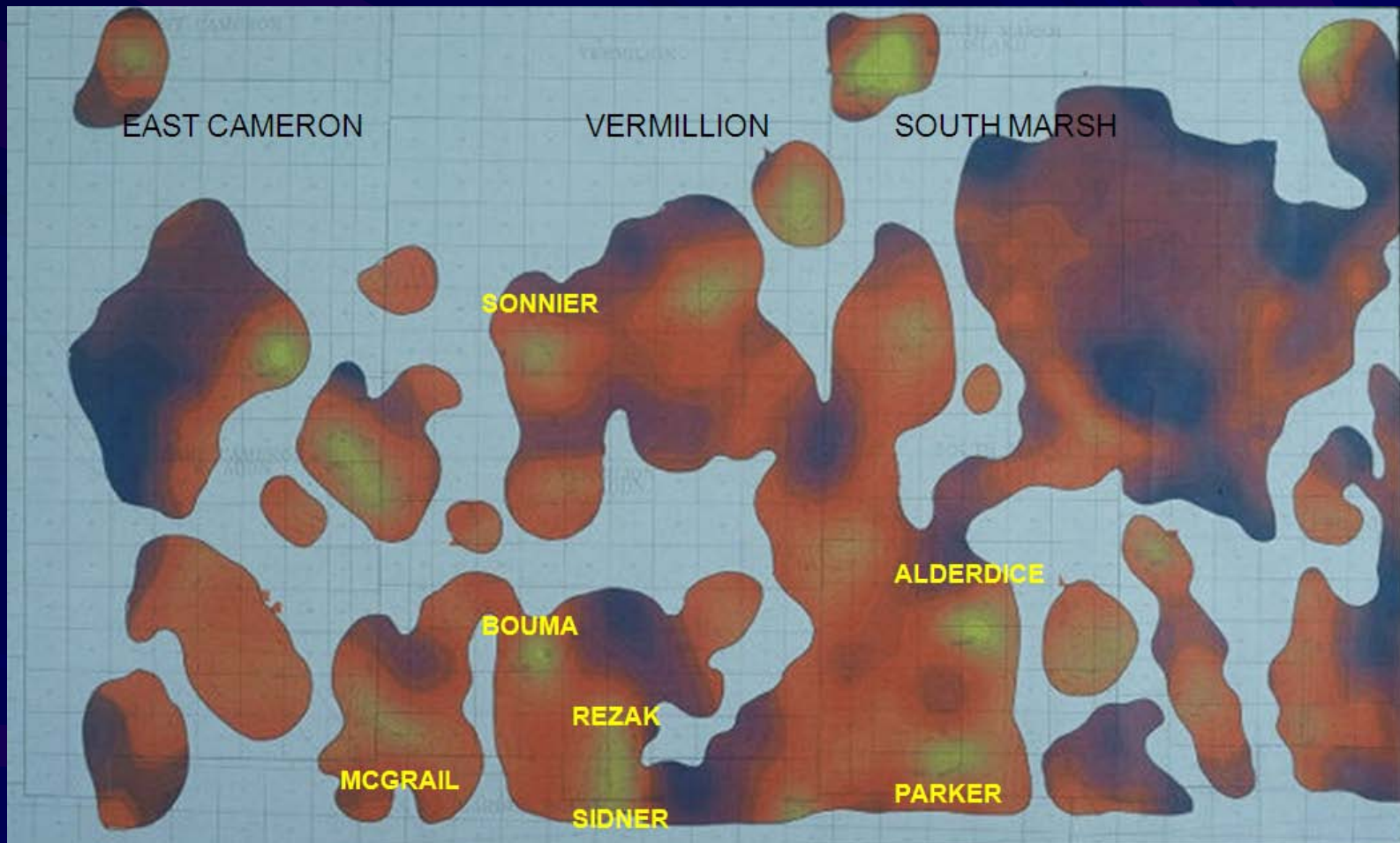
Subsalt Deep Drilling Grows GOM



U.S. Gulf of Mexico Subsalt Discoveries

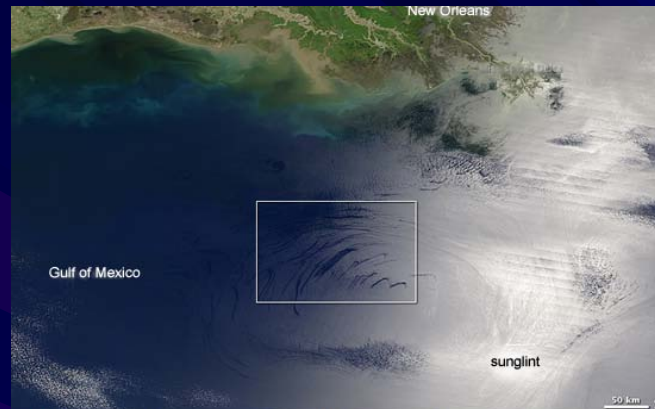


Bank Salt Domes connected to Big Salt Sheets



(adapted from Moore & Brooks, 1995)

Huge GOM Natural Oil Seeps



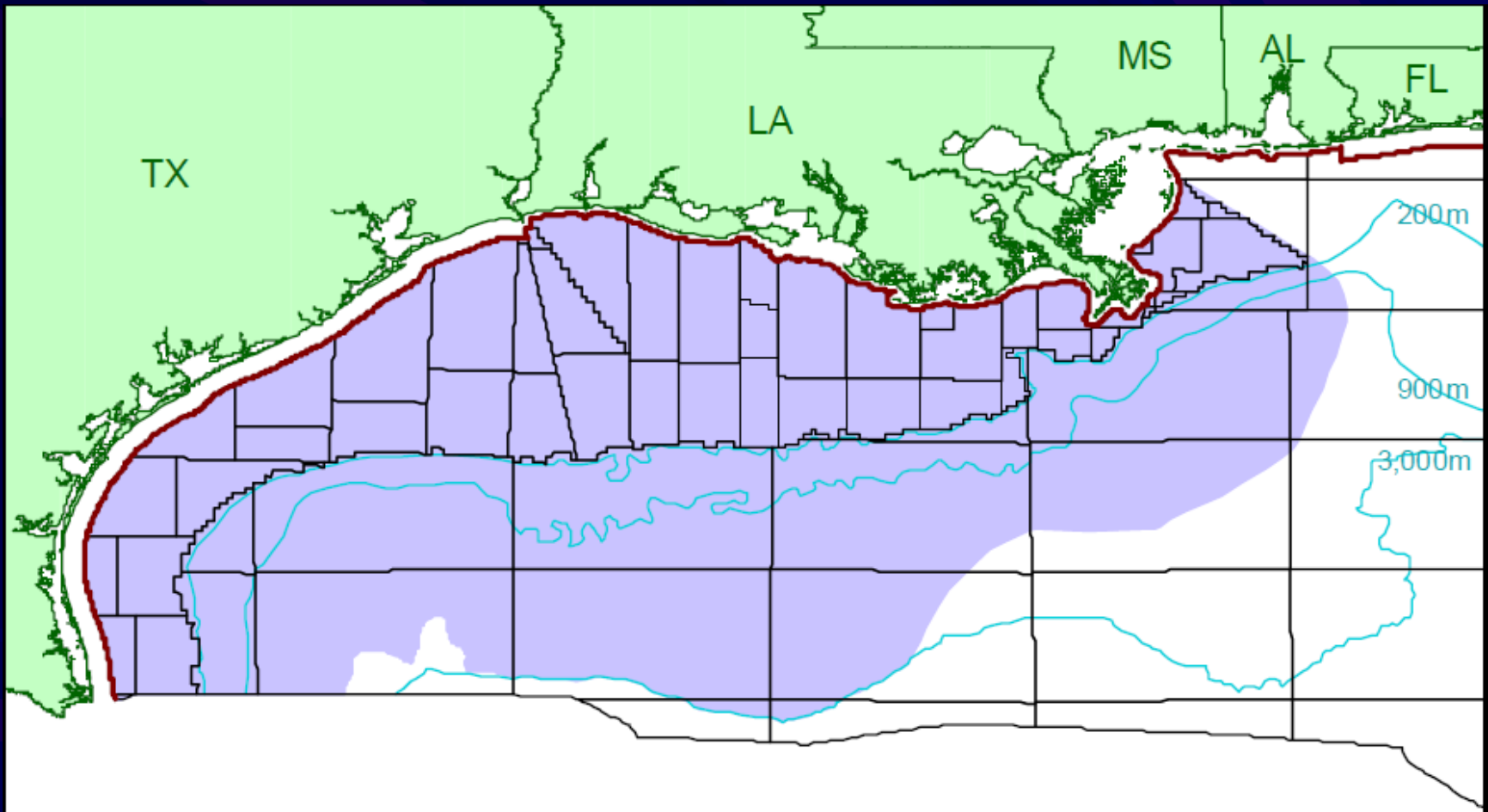
Satellite image of natural oil seeps in the Gulf of Mexico by Jesse Allen, NASA. See zoomed-in below.



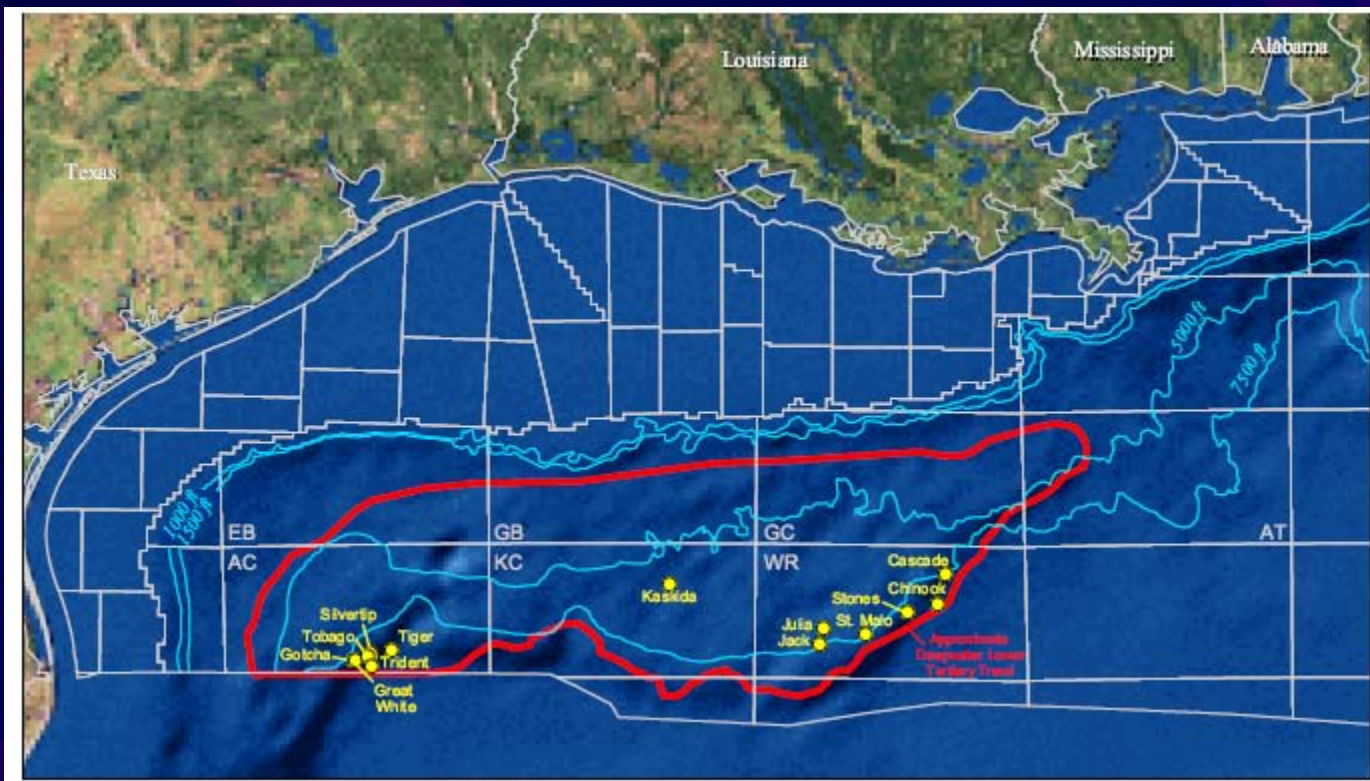
Satellite image of natural oil seeps in the Gulf of Mexico. Jesse Allen, NASA. See above for reference.

(from NASA Earth Observatory news release from February 3, 2009 per Geology.com)

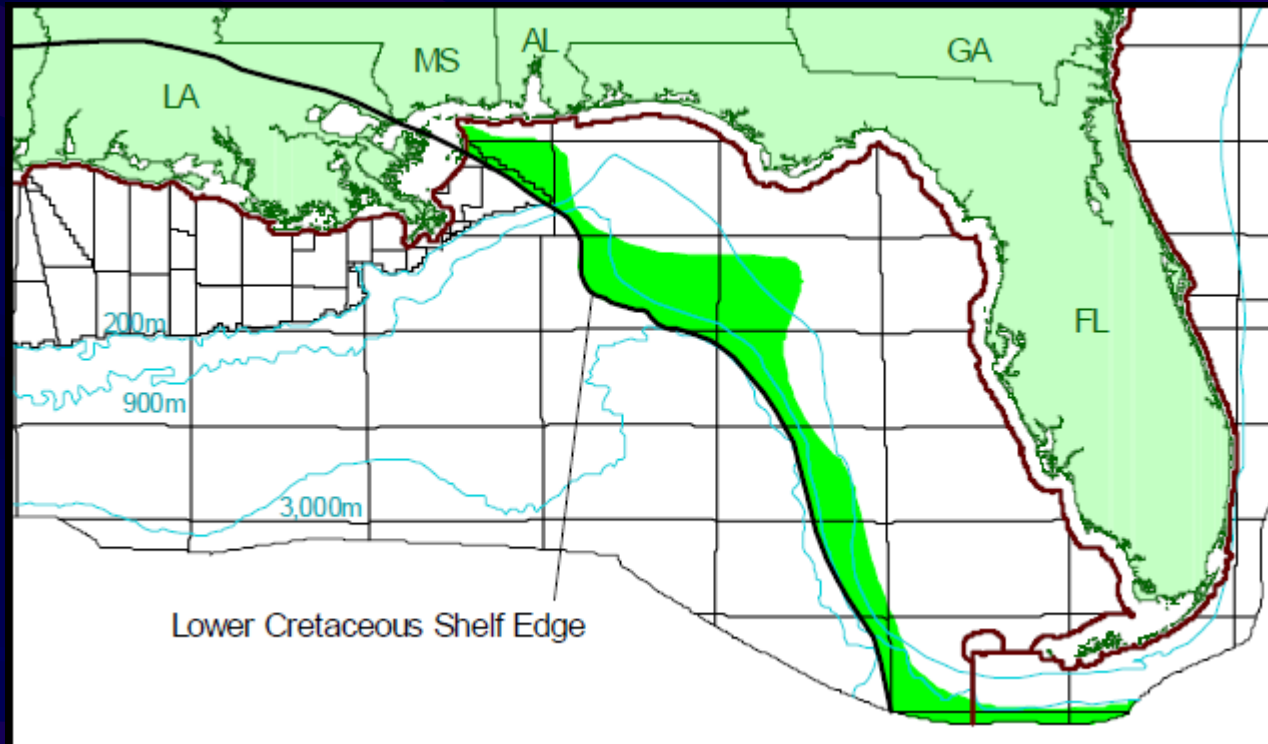
Deep Miocene Play



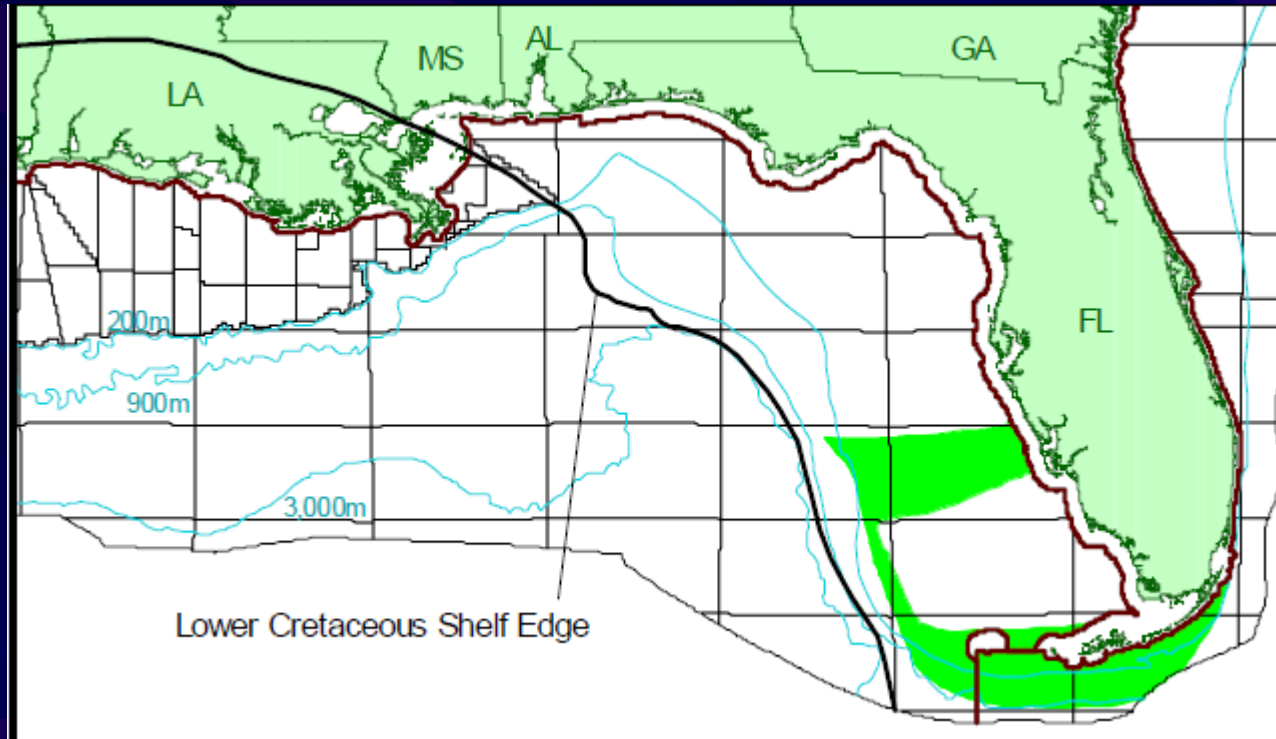
Deep Lower Tertiary Play



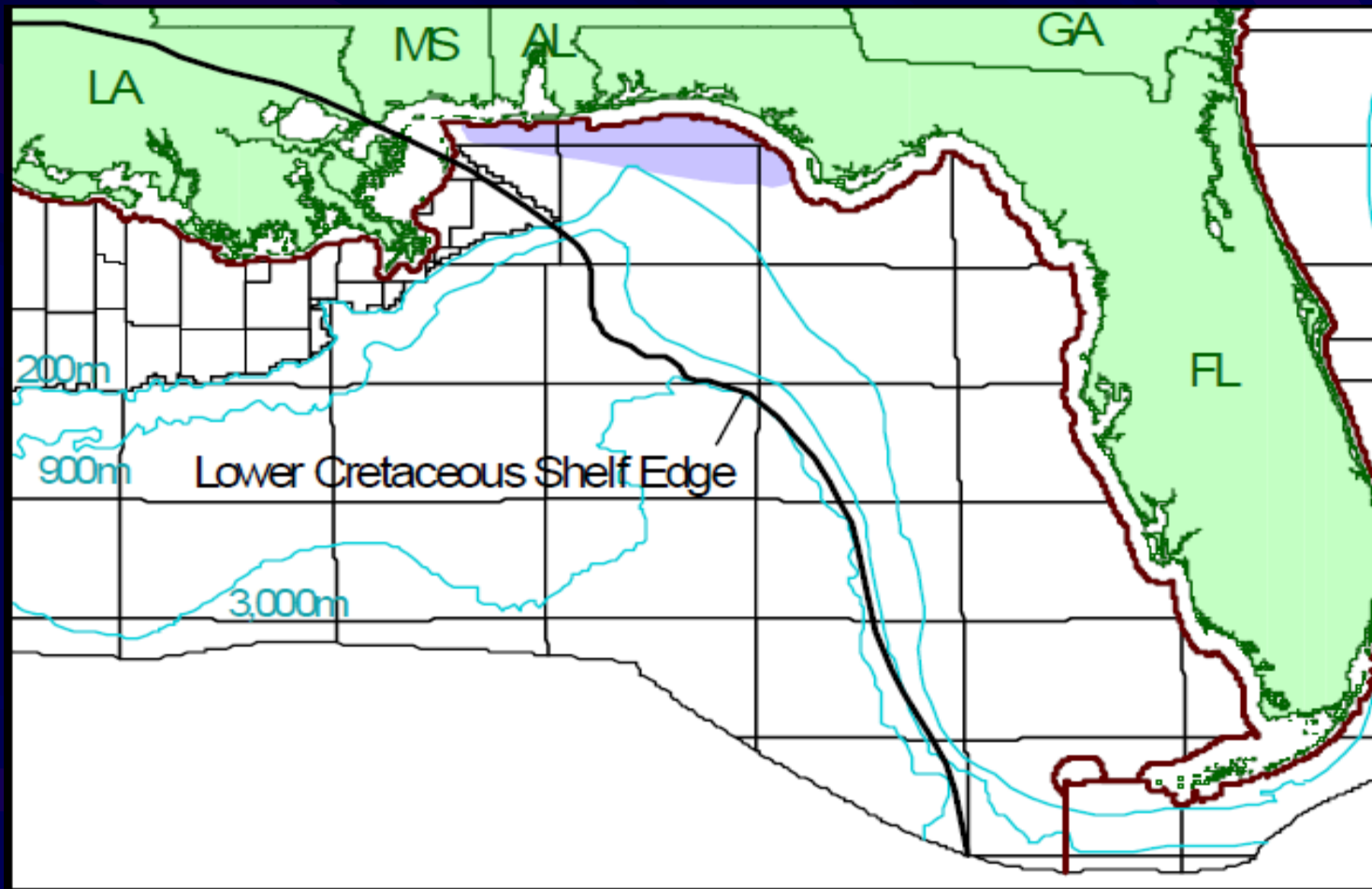
Lower Cretaceous Carbonate Shelf Margin Play



Lower Cretaceous Sunniland Carbonate Play



Upper Jurassic Norphlet Gas Sands

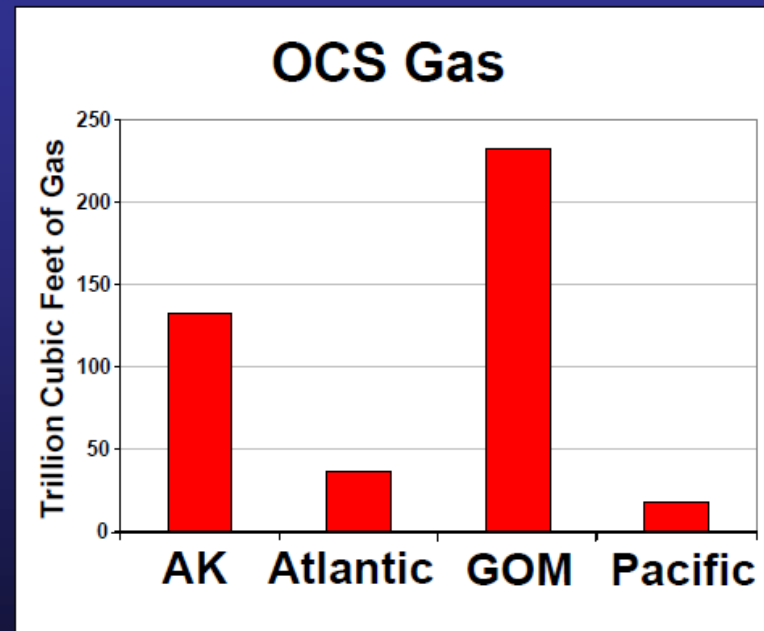
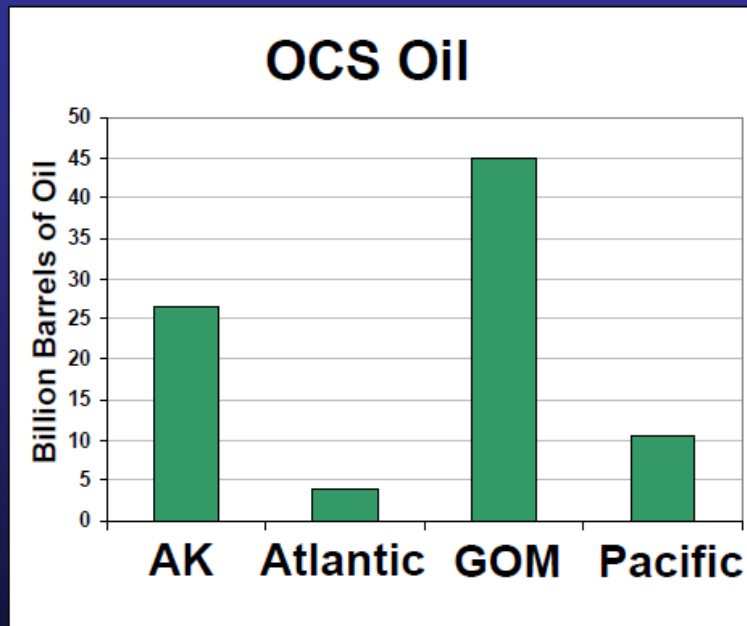


America's Future Offshore Oil & Gas?

Gulf of Mexico is Giant!

Alaska/Arctic perhaps is even more?

Undiscovered Technically Recoverable Oil and Gas Resources 2006 National Assessment Results

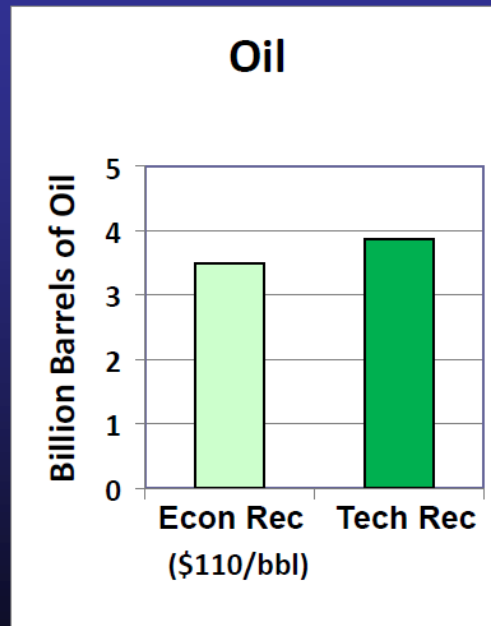


Florida's Future Main Gas Supply?

Now is from Jurassic-Norphlet off Alabama

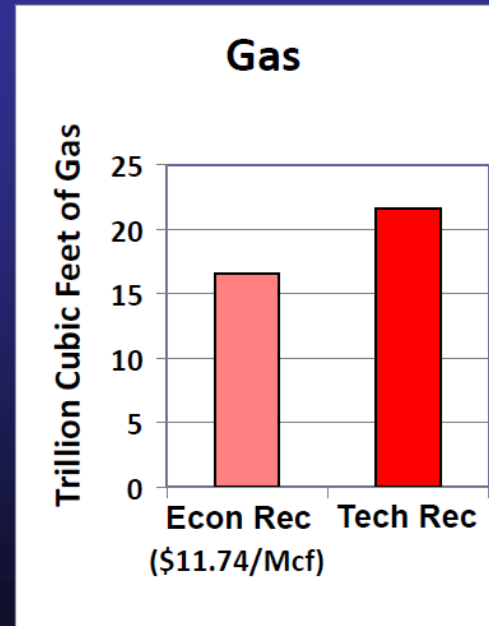
Will need same JN Gas off Florida Panhandle!

Eastern Gulf of Mexico OCS Area Undiscovered Oil and Gas Resources



Oil Resources:

2.8 – 5.5 billion barrels



Gas Resources:

18 – 26 Trillion Cubic Feet

Florida Oil & Gas Consumption & Supply

3rd Biggest Oil Consuming State

900,000 barrels per day

1.3 billion gallons per year

6th Biggest Natural Gas Consuming State

2.8 BCF per day

1 TCF per year

Gulfstream 36" Pipeline – Mobile-Tampa – 1 BCF per day

Natural Gas now powers many of the Electricity Plants

Florida produces less than .1% of its daily consumption

Is that good for Florida?

***To the Memory of the
Horizon 11***