



Atlantic OCS Conventional Energy Update

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Gulf of Mexico Region

**2015 Annual Marine Mammal Commission Meeting
May 6, 2015**



- 2017-2022 5-Year Draft Proposed Program
- Atlantic OCS Background
- Atlantic Plays
- Atlantic G&G



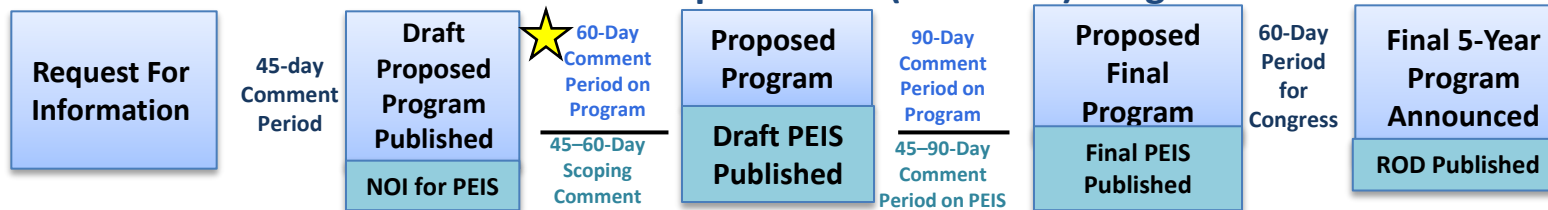
OCS Oil and Gas Leasing, Exploration, and Development Process



Pre-lease

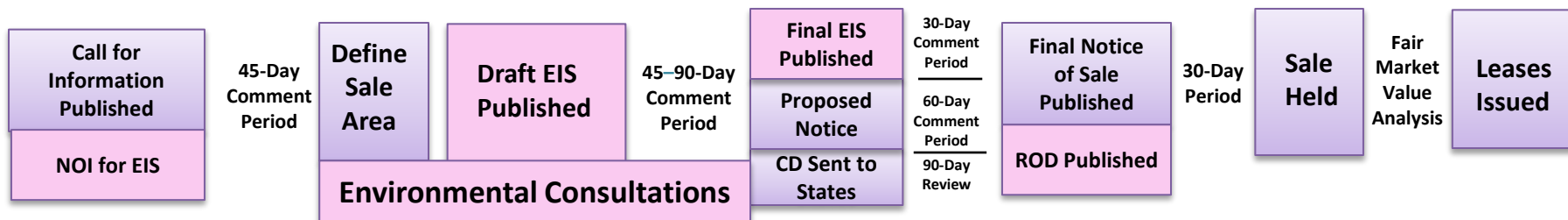
Develop National (Five-Year) Program

BOEM Responsibility



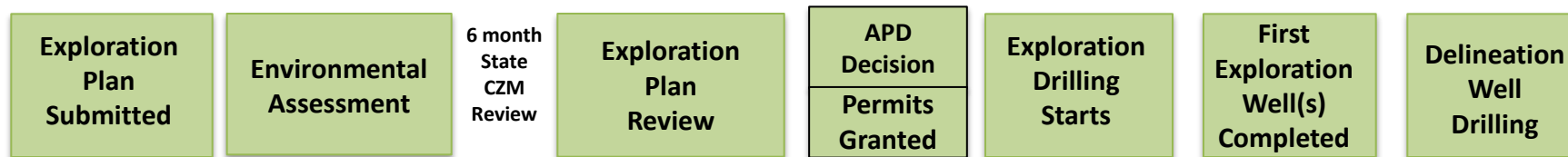
Planning for Specific Oil and Gas Lease Sale

Joint BOEM and BSEE Responsibility



Post-lease

Oil and Gas Exploration Plan Approval



Oil and Gas Development and Production Plan Approval



Abbreviations: APD, Application for Permit to Drill; CD, Consistency Determination; CZM, Coastal Zone Management; EIS, Environmental Impact Statement; NEPA, National Environmental Policy Act; NOI, Notice of Intent; OCS, Outer Continental Shelf; PEIS, Programmatic Environmental Impact Statement; ROD, Record of Decision.

Some of the eight factors can be quantified to facilitate comparison among planning areas

1. Resource Estimates and Net Social Value (= Economic Value minus Social Costs)
2. Equitable Sharing of Benefits and Environmental Risks
3. Regional and National Energy Needs
4. Other Uses of the OCS
5. Industry Interest and Resource Distribution
6. Environmental Sensitivity and Marine Productivity

Others have to be dealt with qualitatively

7. Geographical, Geological and Ecological Characteristics
8. Laws, Goals, and Policies of Affected States

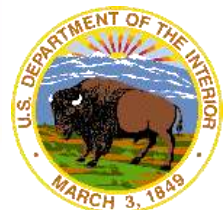
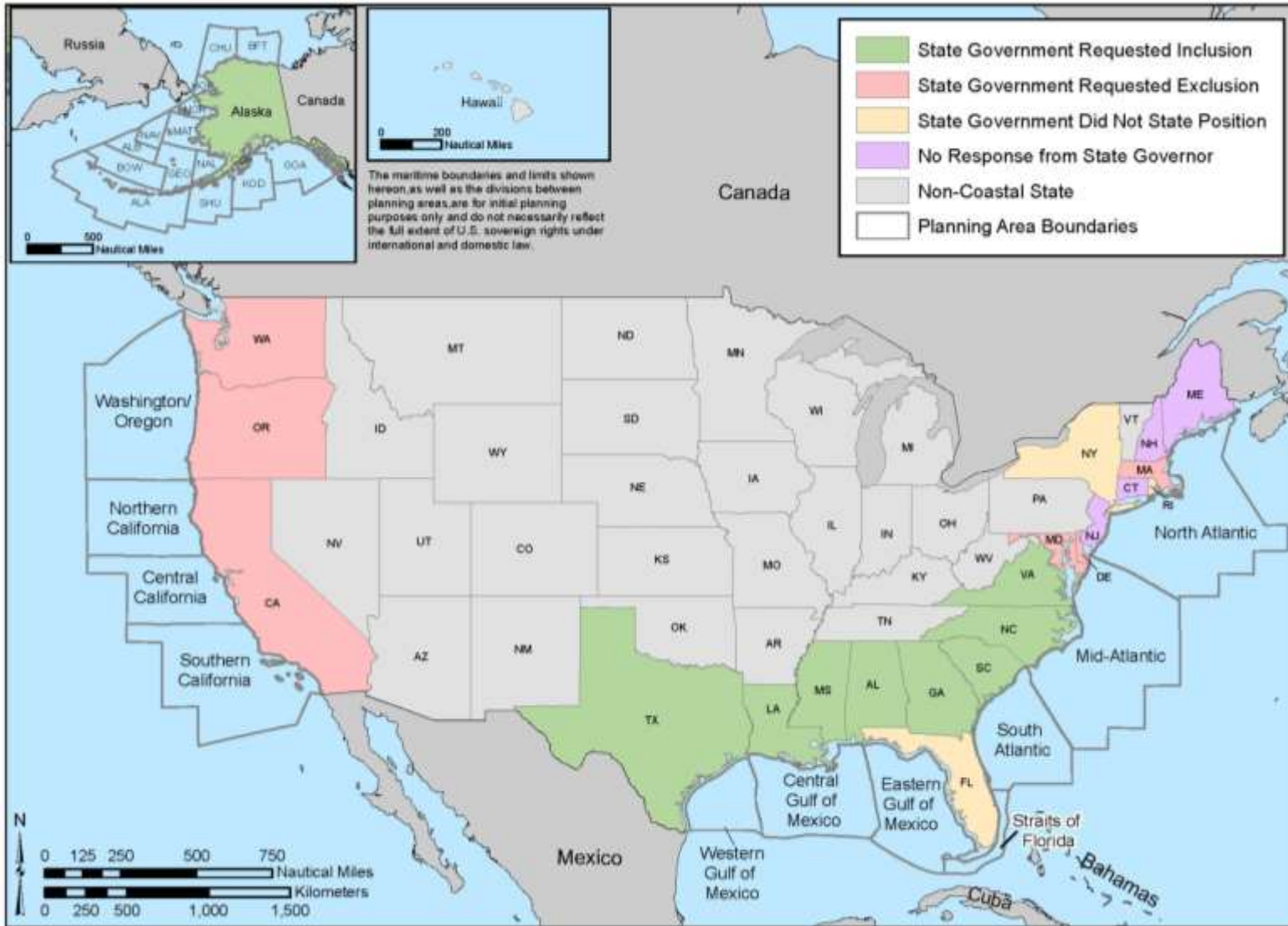


Atlantic Region DPP Options

- One sale in 2021
- Combined **Mid-Atlantic and South Atlantic Planning Areas**, offshore the Commonwealth of Virginia and the States of North Carolina, South Carolina, and Georgia
- 50-statute-mile, no-leasing buffer to minimize conflicts with fishing, marine mammals and sea turtles critical habitat, and other environmental concerns



Status of Coastal State Comments on the Request for Information



What Happens Next?

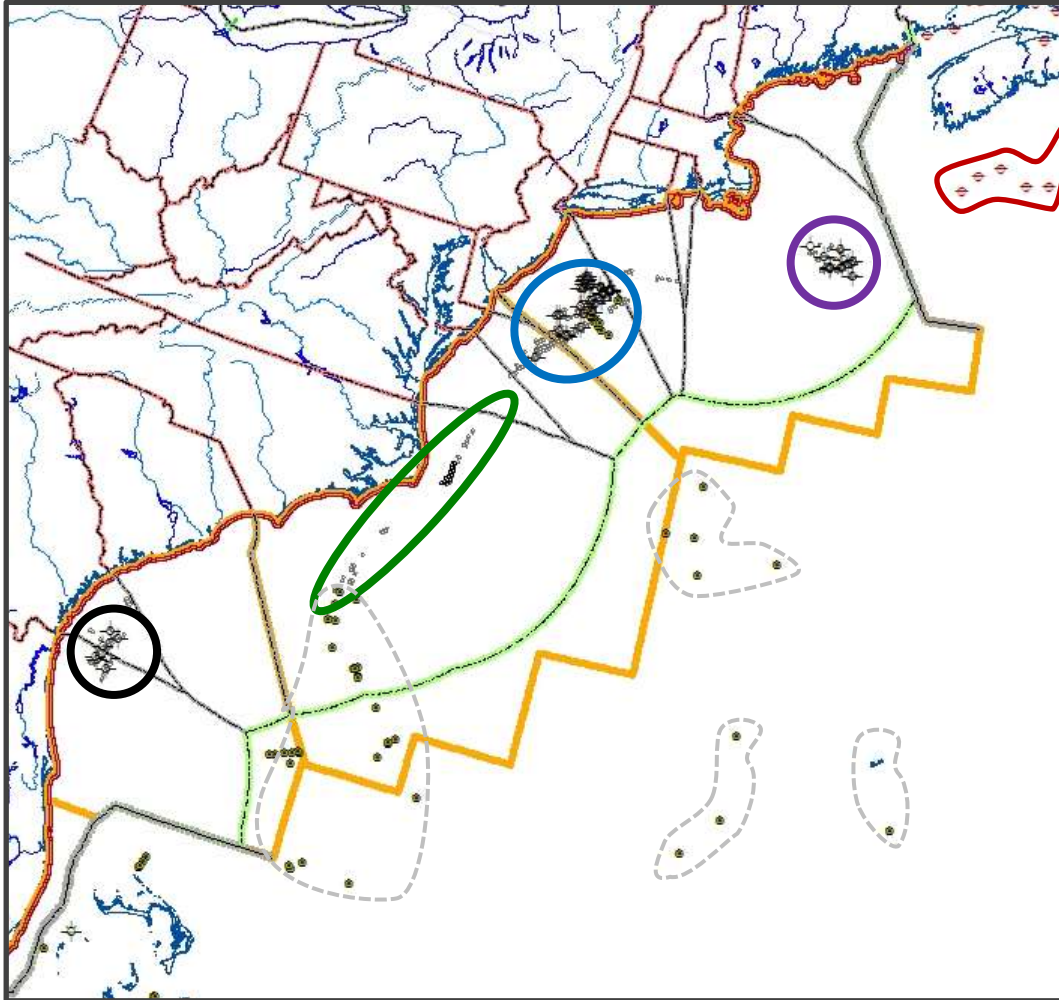
- 60-day comment period on the DPP and scoping ended March 30, 2015
- Tabulation, summarization, and analysis of comments
- Prepare an analysis of the DPP and other options and present to the Secretary to develop the Proposed Program Decision
- Development of alternatives to the DPP for evaluation in the PEIS
- 2016- publication of the Proposed Program and Draft PEIS

DPP - <http://www.boem.gov/Five-Year-Program/>
PEIS - www.BOEMoceaninfo.com



- Nine Atlantic OCS lease sales were held from 1976 to 1983
- No active leases on the Atlantic OCS
- No Atlantic sales are scheduled in the 2012-2017 Program; a sale for an area off Virginia was scheduled for 2011, but it was cancelled following the 2010 *Deepwater Horizon* event
- An EIS for G&G activity was completed for the Mid- and South Atlantic
- Record of Decision Issued in July 2014
 - **See this web site for G&G permitting process:**
<http://www.boem.gov/Atlantic-G-and-G-Permitting/>





Industry wells offshore Nova Scotia

Georges Bank Basin
COST & industry wells & leases

Baltimore Canyon Trough
COST & industry wells & leases
Scientific Deep Sea & Ocean
Drilling Cores

Industry leases — never drilled

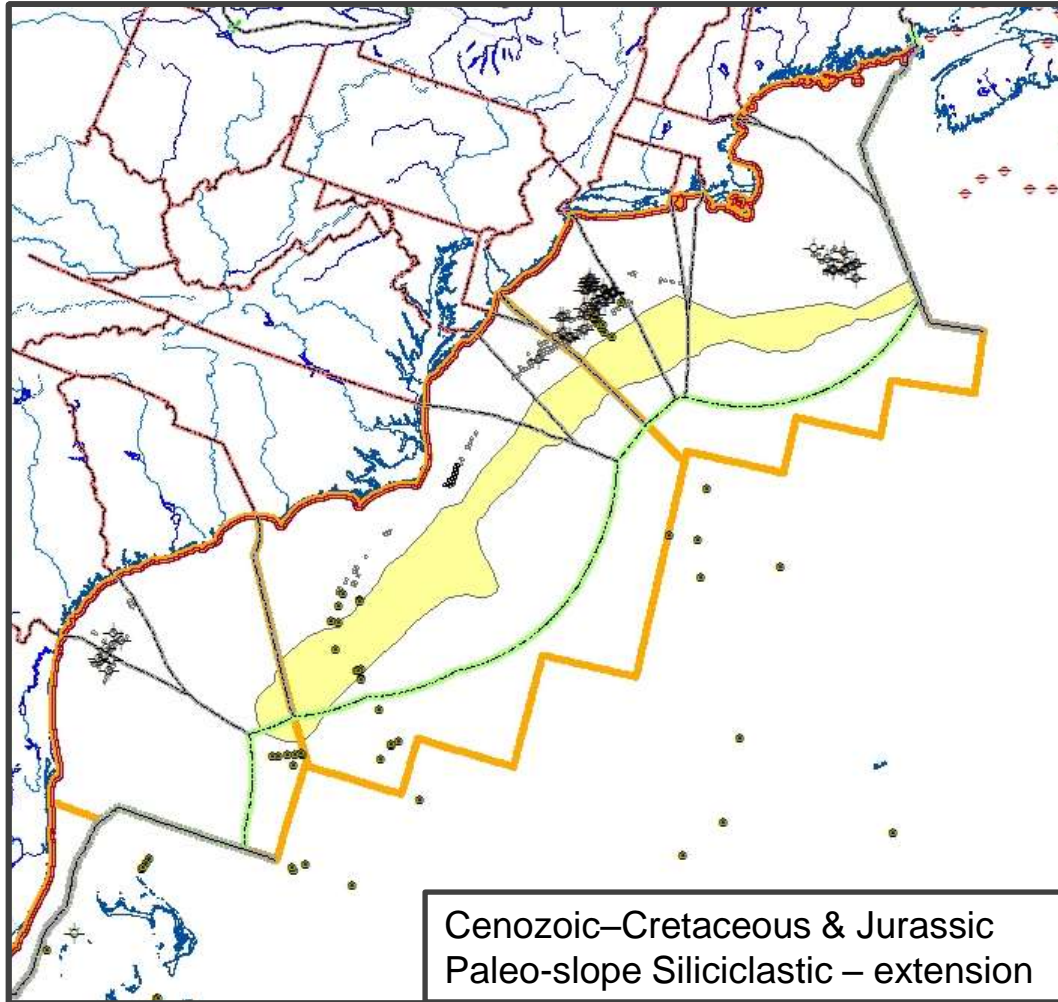
Scientific Deep Sea & Ocean
Drilling Cores

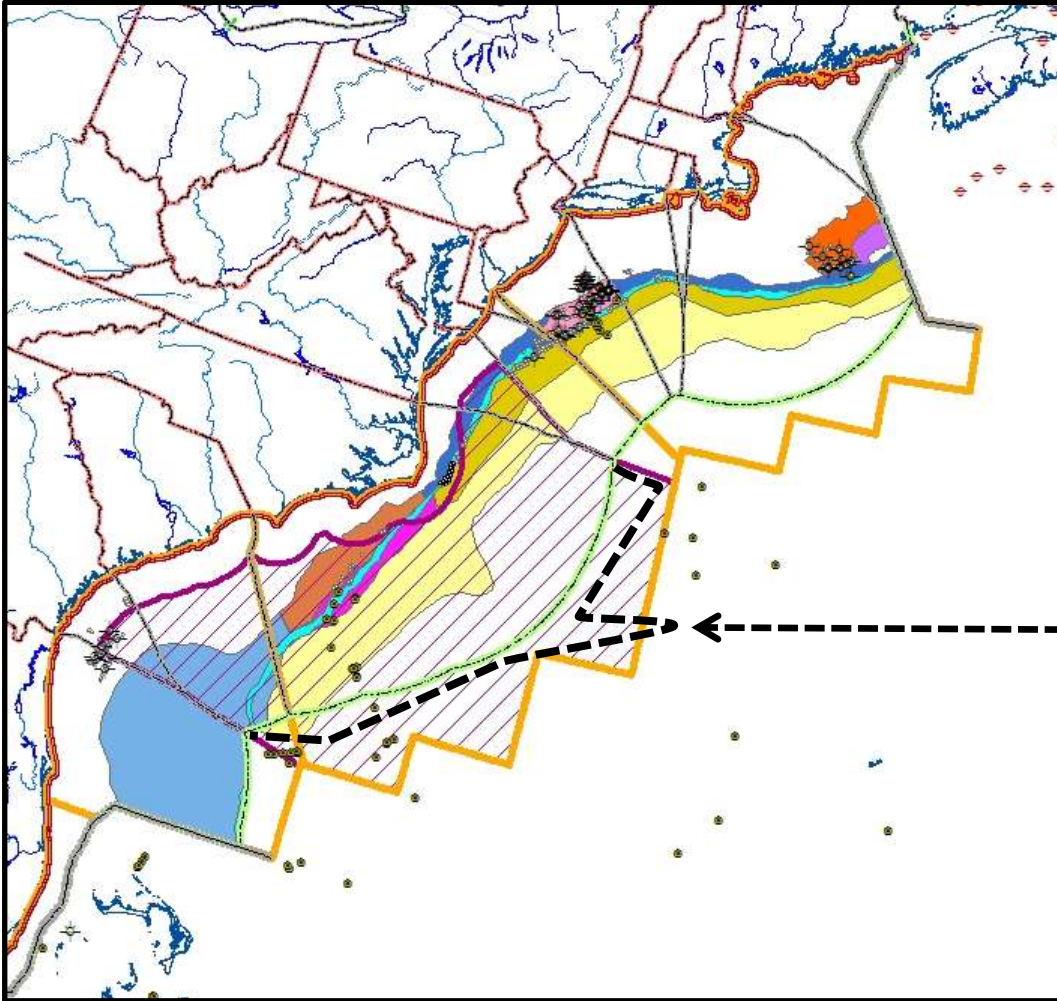
Southeast Georgia Embayment
COST & industry wells & leases

COST - Continental
Offshore Stratigraphic Test



U.S. Atlantic OCS Currently Recognized BOEM Plays



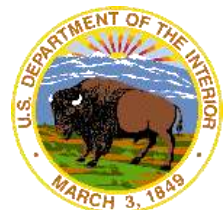
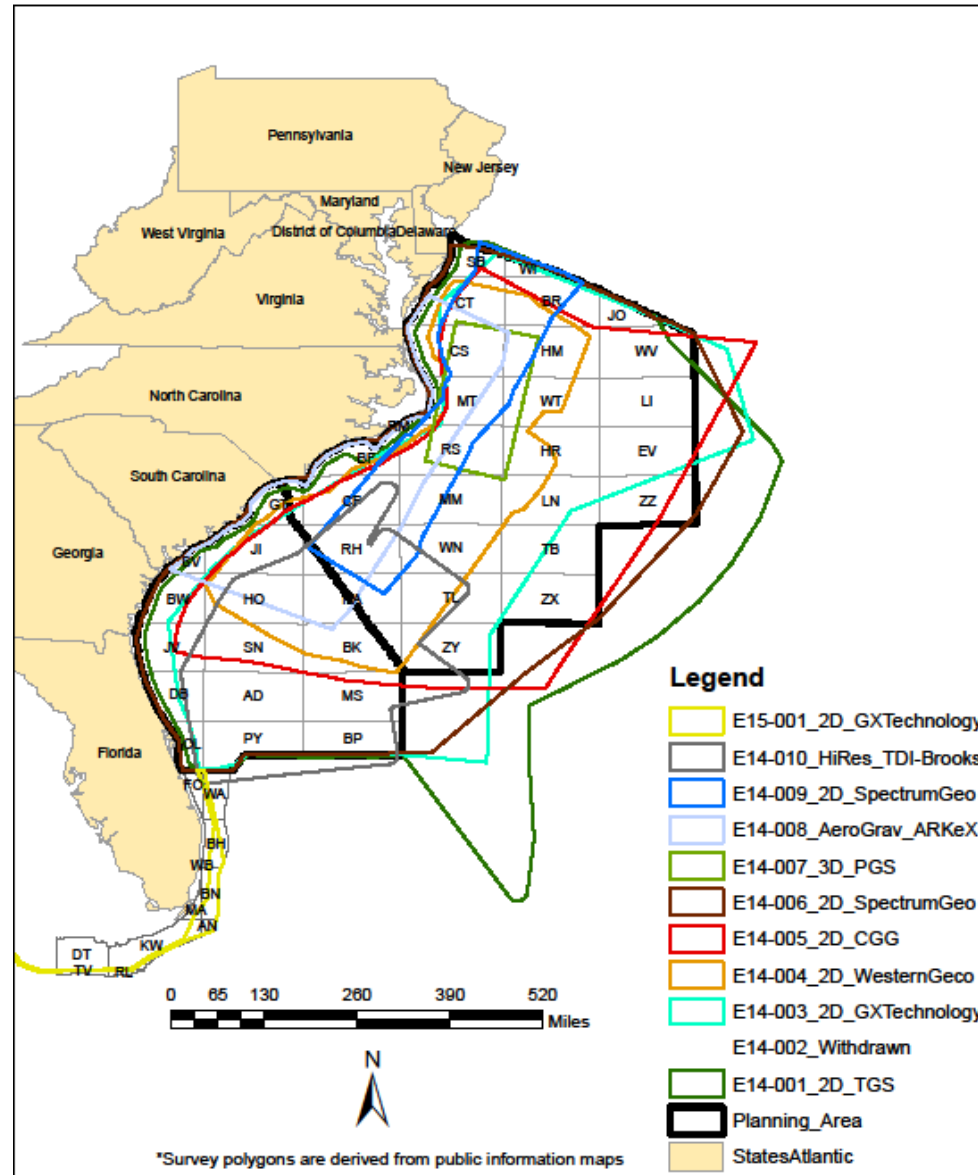


DPP Area
with 50-mile Buffer

- Various mitigations for protected species
 - Time-area closures
 - Exclusion zones
- Protected Species Observers (PSO)
- Required use of Passive Acoustic Monitoring (PAM)
- Exclusion areas for protection of known benthic communities
- Protection of Archaeological Resources
 - Avoidance/reporting guidance



Current Atlantic G&G Permits



Permit Number	Company	Permit Type	Accepted Date	Posted For Public Comment	Public Comment Period End Date	DOD Coordination Started	NASA Coordination Started	RE Requests SEA Form OE	IHA Submittal Date	CZM					
										DE	MD	FL	GA	NC	SC
E14-001	TGS	2D, Gravity, Mag	4/30/2014	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y	8/25/2014						NA
E14-002	Seabird	2D	CANCELED												
E14-003	GX Technology	2D, Gravity, Mag	4/30/2014	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y	9/8/2014				CC	CC	
E14-004	WesternGeco	2D	4/30/2014	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y	3/4/2015	NA	NA	NA	NA		
E14-005	CGG	2D, Gravity, Mag	5/5/2014	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y		WR	WR				
E14-006	Spectrum Geo	2D, Gravity, Mag	6/3/2014	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y	8/15/2014	CC	CC	PC		CC	ST
E14-007	MultiKlient (PGS)	3D	5/19/2014	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y		NA	NA	NA	NA		NA
E14-008	ARKeX	Full Tensor Gradiometry (FTG)	6/26/2014	3/30/2015	4/9/2015	9/2/2014	7/31/2014	Y	N/A	NA	NA	NA	NA	NC	NA
E14-009	Spectrum Geo	2D, Gravity, Mag	7/24/2014	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y	8/15/2014	CC	CC	NA	NA	CC	NA
E14-010	TDI-Brooks Int'l	Hi-Res	10/20/2014	3/30/2015	4/9/2015	10/27/2014	12/8/2014	Y	10/22/2014	NA	NA	NA	NA	NA	NA
E15-001	GX Technology	2D, Gravity, Mag	3/25/2015	3/30/2015	4/29/2015	9/2/2014	7/31/2014	Y	9/8/2014						

CZM

CC = Conditional Concurrence

C = Concurrence

NA = Not Applicable

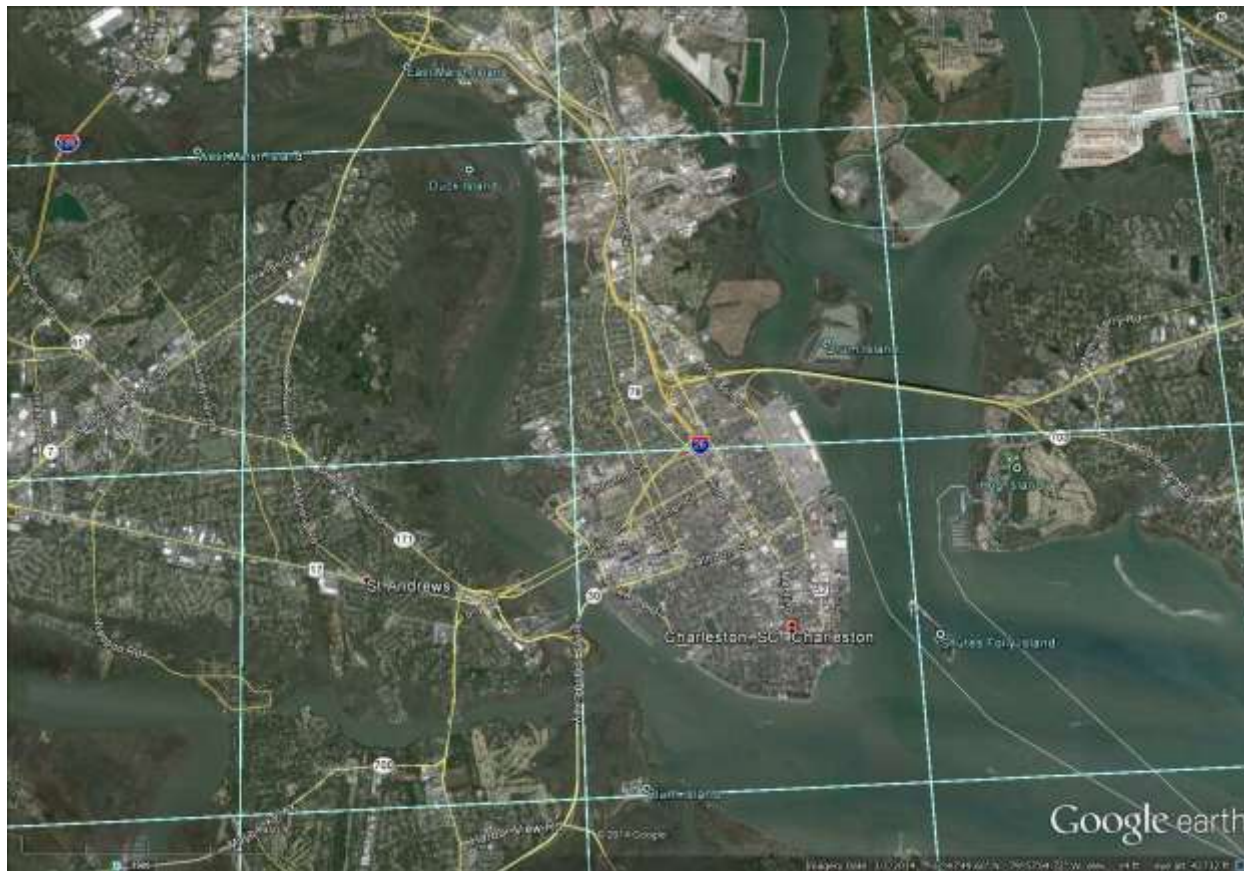
ST = Stay

WR = Withdrew Review

PC = Presumed Concurrence

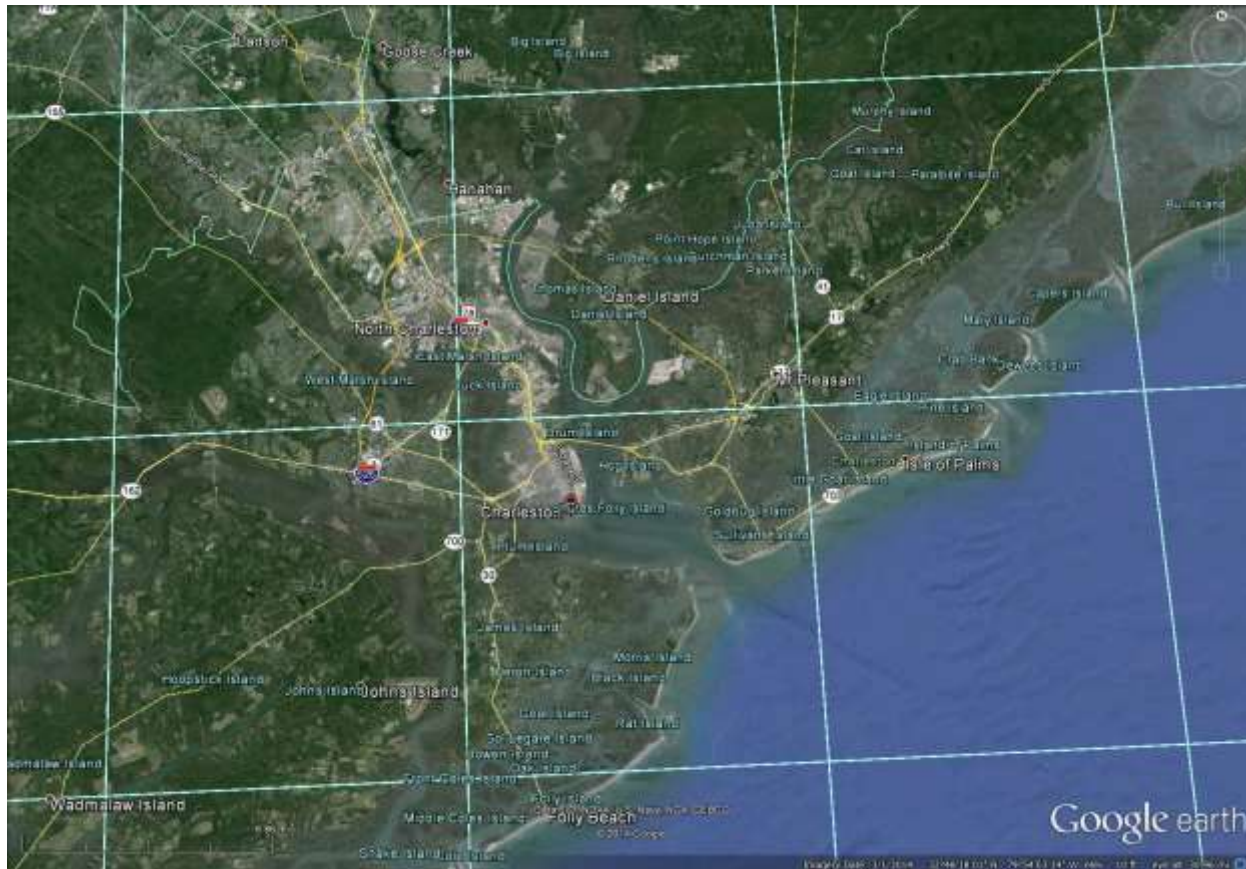


2.5 mile by 2.5 mile 2D Seismic Grid View of Charleston, SC



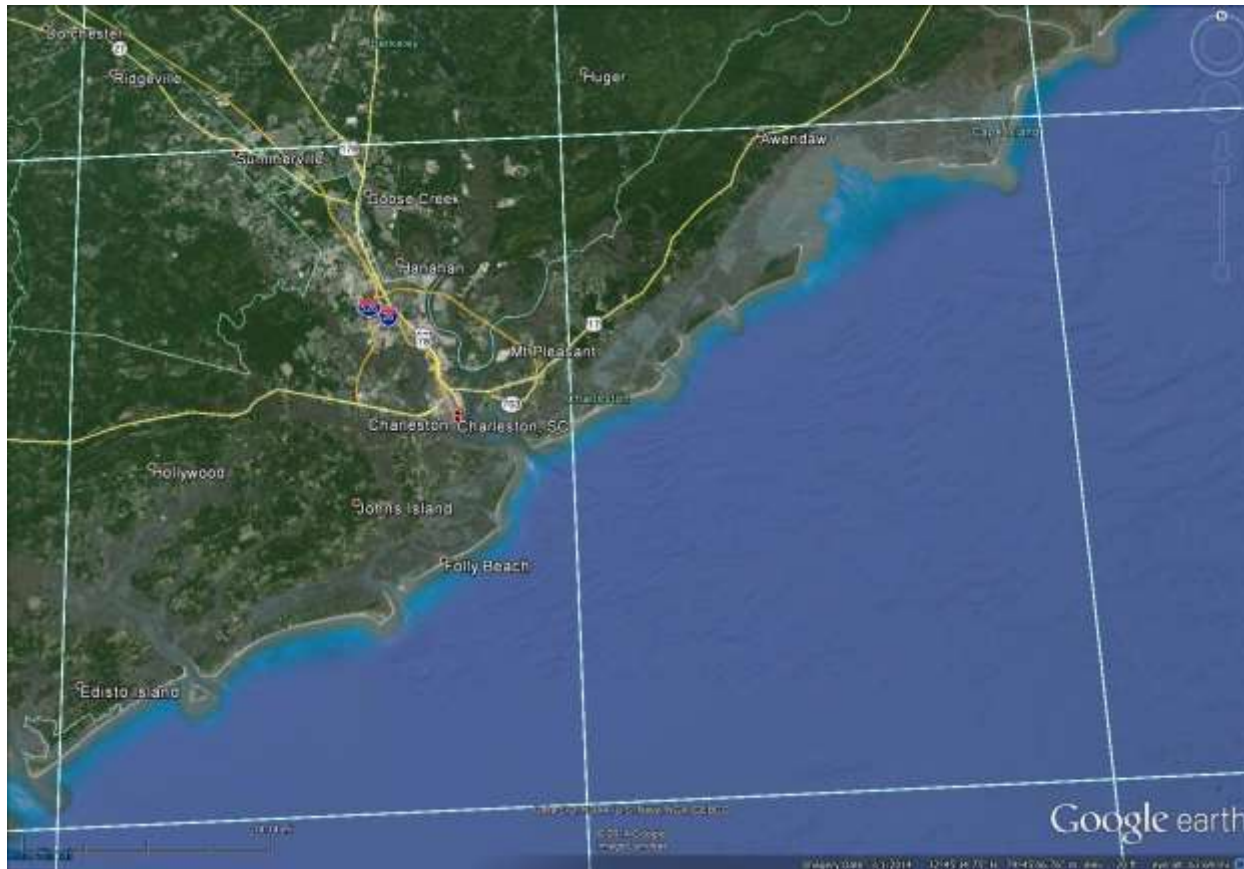
G&G Permit Grid Size Examples

10 mile by 10 mile 2D Seismic Grid View of Charleston, SC



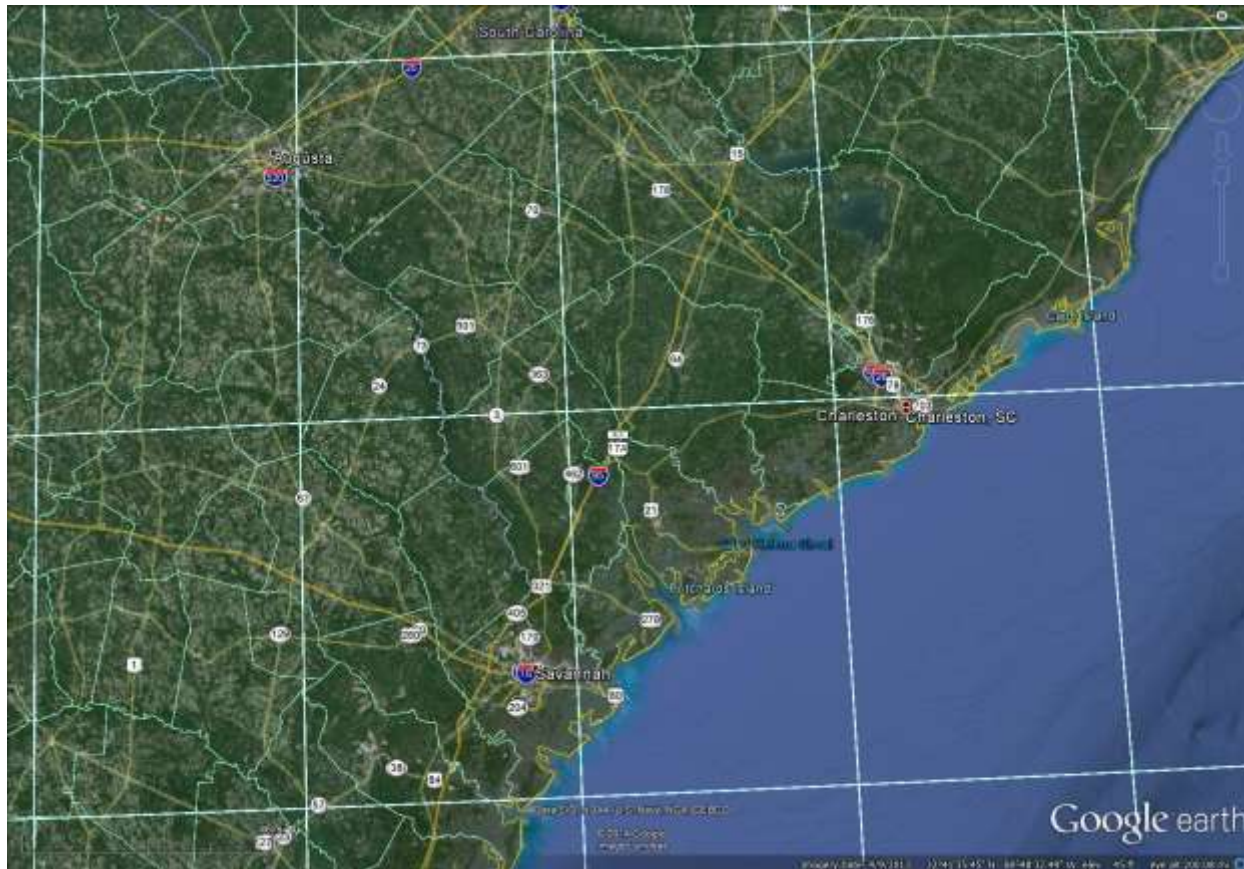
G&G Permit Grid Size Examples

30 mile by 40 mile 2D Seismic Grid View of Charleston, SC



G&G Permit Grid Size Examples

50 mile by 70 mile 2D Seismic Grid
View of Charleston, SC and Savannah, GA





Thank You

<http://www.boem.gov/Atlantic-Region/>

<http://www.boem.gov/Geological-and-Geophysical-Data-Atlantic/>

<https://walrus.wr.usgs.gov/namss/surveys/survey/193/>

