

**DoD Mission Compatibility Planning Assessment:  
BOEM 2017-2022 Outer Continental Shelf (OCS)  
Oil and Gas Leasing Draft Proposed Program**

**30 October 2015**



**Prepared by:**

**Office of the Assistant Secretary of Defense for Readiness  
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## 1. Background

On January 27, 2015, the Secretary of the Interior announced the 2017-2022 Outer Continental Shelf Oil (OCS) and Gas Leasing Draft Proposed Program (DPP), and in a letter to the Secretary of Defense, requested Department of Defense (DoD) comments on the DPP. The information contained within this report and in the associated geospatial data files provides the DoD's detailed response to the Secretary of the Interior's call for comments on the 2017-2022 DPP.

The first DoD mission compatibility assessment for offshore oil and gas resource development was completed for the 2010-2015 DPP, which was later revised by Secretary of the Interior to cover the period from 2012-2017. The current assessment and report build on the methodology and experience developed for the 2010-2015 assessment. In 2010, at the request of the then Minerals Management Service, DoD assessed every Operating Area and warning area within all 26 OCS planning areas. In 2015, DoD assessed mission compatibility only for the DPP areas, and the assessment was conducted at the lease block level. It should be noted that the results of this DoD study are for oil and gas activity and infrastructure only and do not apply to offshore renewable energy activities or infrastructure.

## 2. Methods and Results: Analysis of DoD activities and compatibility with oil and gas resource development on the OCS

The Department used a comprehensive approach for its analysis of activities in the DPP areas. Four categories of potential compatibility were developed as part of this analysis:

1. Unrestricted: No DoD-requested restrictions on oil and gas infrastructure or related activities. However, DoD requests early and prior consultation if oil and gas activity is contemplated in these areas.
2. Site Specific Stipulations: Areas where, with specific stipulations, above-surface oil and gas infrastructure may be feasible. Examples of currently used stipulations include: "hold harmless" provisions; electromagnetic emission controls; site evacuation protocols; location pre-coordination; density limitations; and planned periods of lease operations. Appendix 1 provides further details on examples of OCS lease stipulations.
3. No Permanent Oil & Gas Surface Structures: Areas where subsurface oil and gas infrastructure may be compatible; e.g., where scheduled temporary surface activities from a drillship or moveable platform are pre-coordinated with DoD and subsurface and seabed infrastructure remains in place.
4. No Oil and Gas Activity: Areas where any oil and gas development infrastructure and activity would jeopardize DoD operations.

DoD assessed each DPP area using these four categories based on compatibility with current military activities and compiled the results into a geographic information system (GIS). The geospatial data integrates Operating Areas (OPAREAs) and warning areas, and DoD offshore

activities along with the BOEM Planning Areas and the 2017-2022 DPP Areas. The GIS shapefiles with this data will be transmitted to BOEM as part of this report.

DoD analysis of its offshore activities using the four categories above and aggregated for the eight BOEM OCS Planning Areas included in the 2017-2022 DPP results in the following:

- |   |       |
|---|-------|
| 1. Unrestricted:                              | 67.2% |
| 2. Site Specific Stipulations:                | 29.5% |
| 3. No Permanent Oil & Gas Surface Structures: | 1.6%  |
| 4. No Oil & Gas Activity:                     | 1.7%  |

The assessment identified locations within both the Mid-Atlantic and South Atlantic Planning Areas where DoD offshore activities are not compatible with oil and gas activities and infrastructure. Within the Mid-Atlantic Planning Area, DoD identified locations where subsurface oil and gas infrastructure may be compatible. However, the DoD would request that no permanent oil and gas surface structures be constructed in these areas.

DoD identified areas within two of the BOEM Planning Areas where the Department would request Site Specific Stipulations to protect ongoing and reasonable foreseeable future DoD activities; however, the analysis cannot reflect unknown or unforeseen requirements, such as new capabilities based on future threats, surge events, and contingency use. The categorization of areas within the Mid and South Atlantic Planning Areas as Site Specific Stipulations outside of OPAREAS and warning areas is a change from the 2010 assessment. In 2010 DoD requested early and prior coordination when oil and gas activity was contemplated in these areas. The current assessment reflects new mission requirements including expanded weapon and sensor footprints, and operational concerns. These new mission requirements call for the option to address potential impacts using site specific stipulations. However, offshore oil and gas leasing in these areas may or may not require Site Specific Stipulations as that determination will be made on a case-by-case basis.

DoD assessed the 2017-2022 DPP areas in the Gulf of Mexico and Alaska as Unrestricted for oil and gas development. However, the DoD requests early and prior consultation if oil and gas activity is contemplated in these areas.

### **3. Results by BOEM OCS Planning and DPP Areas, DoD OPAREAs, and Warning Areas**

The results of the compatibility assessment for the eight Planning Areas within the 2017-2022 DPP are featured in the tables below. For each of the eight Planning Areas, a table is provided featuring a description of the DoD activities within that Planning Area, the category for potential compatibility associated with those activities, and the justification for the categorization. Each lease block within the Program Area was assessed for compatibility and assigned one of the four categories for potential compatibility based on DoD activities conducted within that lease block. Adjacent lease blocks of the same category were grouped together and listed with the associated protraction and DoD OPAREAs or Warning Areas where the DoD activities take place. An explanation of the abbreviations and acronyms used for Activity Type and Justification can be found in Appendix 3.





<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[REDACTED]	[REDACTED]	[REDACTED]	No Oil and Gas Activity
[REDACTED]	[REDACTED]	[REDACTED]	No Oil and Gas Activity
[REDACTED]	[REDACTED]	[REDACTED]	No Oil and Gas Activity
[REDACTED]	[REDACTED]	[REDACTED]	No Permanent Oil And Gas Surface Structures
[REDACTED]	[REDACTED]	[REDACTED]	No Permanent Oil and Gas Surface Structures

[REDACTED]

<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	Site Specific Stipulations
[REDACTED]	[REDACTED]	[REDACTED]	





**South Atlantic Planning Area**

**Activities within the South Atlantic, Categories, and Justification**

<u>Category</u>	<u>Types of Activities</u>	<u>Justification for Categorization</u>
No Oil and Gas Activity	Strike Group transit & training, small boat, high speed maneuver & tactics, air-to-surface/surface-to-surface gunnery, fast attack craft/fast inshore attack craft (FAC/FIAC) operations, large scale exercise (LSE) support, MCM, mining exercise (MINEX), live underwater ordnance detonation operations, anti-submarine warfare (ASW) instrumented (seabed) training, torpedo firing exercises, naval surface fires, helicopter maritime strike wing Atlantic (HSMWL), Diesel Electric Submarine Initiative (DESI) exercises, Live air-to-surface ordnance operations, bomb drop box, Air-to-surface BOMBEX, shipboard Electronic Systems Evaluation Facility operations.	Preservation of live fire training range, mine neutralization operations, Numerous UXO on ocean floor, permanently installed instrumented tracking devices/hydrophone array located on seabed, hi-density/dynamic submarine, surface ship & helicopter ASW/USW operations conducted continuously, wide range of ASW offensive & defensive ordnance/countermeasures employed both above & below surface throughout the range, preservation of undersea and surface operations, preservation capability of testing and evaluation facility
Site Specific Stipulations	Military air traffic, new mission requirements including expanded weapon and sensor footprints and operational concerns	The current assessment reflects new mission requirements including expanded weapon and sensor footprints and operational concerns. These new requirements call for the option to address potential impacts using site specific stipulations. However, offshore oil and gas leasing in these areas may or may not require site specific stipulations as that determination will be made on a case-by-case basis.

**Protractions, Lease Blocks, and Warning Areas/OPAREAs by Category**

<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
			No Oil and Gas Activity



<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	No Oil and Gas Activity
[REDACTED]	[REDACTED]	[REDACTED]	Site Specific Stipulations







**Western Gulf of Mexico Planning Area**

**Activities within the Western Gulf of Mexico, Categories, and Justification**

<u>Category</u>	<u>Types of Activities</u>	<u>Justification for Categorization</u>
Unrestricted	Military flight training and operations	In order to maintain uninhibited/unobstructed air space to support training and flight operations, DoD requests early and prior coordination if oil and gas activity is contemplated in these areas

**Protractions, Lease Blocks, and Warning Areas/OPAREAs by Category**

<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[REDACTED]	[REDACTED]	[REDACTED]	Unrestricted
[REDACTED]	[REDACTED]	[REDACTED]	





<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[Redacted]	[Redacted]	[Redacted]	





<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[REDACTED]	[REDACTED]	[REDACTED]	

**Beaufort Sea Planning Area**

**Activities within the Beaufort Sea, Categories, and Justification**

<u>Category</u>	<u>Types of Activities</u>	<u>Justification for Categorization</u>
Unrestricted	Military flight training and operations	In order to maintain uninhibited/unobstructed air space to support training and flight operations, DoD requests early and prior coordination if oil and gas activity is contemplated in these areas

**Protractions, Lease Blocks, and Warning Areas/OPAREAs by Category**

<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
			Unrestricted



<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[Redacted]	[Redacted]	[Redacted]	
	[Redacted]		



<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[REDACTED]	[REDACTED]	[REDACTED]	



**Cook Inlet Planning Area**

**Activities within the Cook Inlet, Categories, and Justification**

<u>Category</u>	<u>Types of Activities</u>	<u>Justification for Categorization</u>
Unrestricted	Military flight training and operations	In order to maintain uninhibited/unobstructed air space to support training and flight operations, DoD requests early and prior coordination if oil and gas activity is contemplated in these areas

**Protractions, Lease Blocks, and Warning Areas/OPAREAs by Category**

<u>Protractions</u>	<u>Lease Blocks</u>	<u>Associated OPAREAs/Warning Areas</u>	<u>Category</u>
[REDACTED]	[REDACTED]	[REDACTED]	Unrestricted
[REDACTED]	[REDACTED]	[REDACTED]	

## **Appendix 1**

### **DoD-related Outer Continental Shelf Lease Stipulations**

Stipulations are pre-conditions that the DoD requests be included in an OCS lease sale contract and that the lessee would agree to prior to completion of the lease sale. The stipulations below are compiled from existing stipulations for lease sales in the Central and Western Gulf of Mexico and are representative of the types of stipulations the DoD may seek. These stipulations are intended for use with any specific lease sale site in any Bureau of Ocean Energy Management (BOEM) offshore planning area or on other parts of the OCS. Additional stipulations may be required for specific lease sale sites.

#### **Stipulation No. 1 – Hold and Save Harmless**

Whether compensation for such damage or injury might be due under a theory of strict or absolute liability or otherwise, the lessee assumes all risks of damage or injury to persons or property that occur in, on, or above the Outer Continental Shelf (OCS), and to any persons or to any property of any person or persons who are agents, employees, or invitees of the lessee, its agents, independent contractors, or subcontractors doing business with the lessee in connection with any activities being performed by the lessee in, on, or above the OCS, if such injury or damage to such person or property occurs by reason of the activities of any agency of the United States (U.S.) Government, its contractors or subcontractors, or any of its officers, agents or employees, being conducted as a part of, or in connection with, the programs and activities of the command headquarters listed in the following table.

Notwithstanding any limitation of the lessee's liability in section 14 of the lease, the lessee assumes this risk whether such injury or damage is caused in whole or in part by any act or omission, regardless of negligence or fault, of the U.S. Government, its contractors or subcontractors, or any of its officers, agents, or employees. The lessee further agrees to indemnify and save harmless the U.S. Government against all claims for loss, damage, or injury sustained by the lessee, or to indemnify and save harmless the U.S. Government against all claims for loss, damage, or injury sustained by the agents, employees, or invitees of the lessee, its agents, or any independent contractors or subcontractors doing business with the lessee in connection with the programs and activities of the aforementioned military installation, whether the same be caused in whole or in part by the negligence or fault of the U.S. Government, its contractors, or subcontractors, or any of its officers, agents, or employees and whether such claims might be sustained under a theory of strict or absolute liability or otherwise.

#### **Stipulation No. 2 – Evacuation**

A. The lessee, recognizing that oil and gas resource exploration, exploitation, development, production, abandonment, and site cleanup operations on the leased area of submerged lands may occasionally interfere with tactical military operations, hereby recognizes and agrees that the United States reserves and has the right to temporarily suspend operations and/or require evacuation on this lease in the interest of national security. Such suspensions are considered unlikely in this area. Every effort will be made by the appropriate military agency to provide as much advance notice as possible of the need to suspend operations and/or evacuate. Advance

notice of fourteen (14) days shall normally be given before requiring a suspension or evacuation, but in no event will the notice be less than four (4) days. Temporary suspension of operations may include the evacuation of personnel and appropriate sheltering of personnel not evacuated. Appropriate shelter shall mean the protection of all lessee personnel for the entire duration of any Department of Defense activity from flying or falling objects or substances, and will be implemented by a written order from the Bureau of Safety and Environmental Enforcement (BSEE) Regional Supervisor for District Field Operations (RS-DFO), after consultation with the appropriate command headquarters or other appropriate military agency or higher authority. The appropriate command headquarters, military agency or higher authority shall provide information to allow the lessee to assess the degree of risk to, and provide sufficient protection for, lessee's personnel and property. Such suspensions or evacuations for national security reasons will not normally exceed seventy-two (72) hours; however, any such suspension may be extended by order of the RS-DFO. During such periods, equipment may remain in place, but all production, if any, shall cease for the duration of the temporary suspension if so directed by the RS-DFO. Upon cessation of any temporary suspension, the RS-DFO will immediately notify the lessee that such suspension has terminated and operations on the leased area can resume.

B. The lessee shall inform BOEM and BSEE of the persons/offices to be notified to implement the terms of this stipulation.

C. The lessee is encouraged to establish and maintain early contact and coordination with the appropriate command headquarters in order to avoid or minimize the effects of conflicts with potentially hazardous military operations.

D. The lessee shall not be entitled to reimbursement for any costs or expenses associated with the suspension of operations or activities or the evacuation of property or personnel in fulfillment of the military mission in accordance with subsections A through C above.

E. Notwithstanding subsection D, the lessee reserves the right to seek reimbursement from appropriate parties for the suspension of operations or activities or the evacuation of property or personnel associated with conflicting commercial operations.

### **Stipulation No. 3 – Coordination**

A. The placement, location, and planned periods of operation of surface structures on this lease during the exploration stage or after the BOEM approval of the Exploration Plan (EP) are subject to approval by the BSEE, Regional Director (RD) after the review of an operator's EP. Prior to BOEM approval of the EP, the lessee shall consult with the appropriate command headquarters regarding the location, density, and planned periods of operation of such structures, and to maximize exploration while minimizing conflicts with Department of Defense activities. When determined necessary by the appropriate command headquarters, the lessee will enter into a formal Operating Agreement with such command headquarters, that delineates the specific requirements and operating parameters for the lessee's activities in accordance with the military stipulation clauses contained herein. If it is determined that the operations will result in interference with scheduled military missions in such a manner as to possibly jeopardize the national defense or to pose unacceptable risks to life and property, then the BOEM RD may

approve the EP with conditions, disapprove it, or require modification in accordance with 30 CFR Part 550. The BOEM RD will notify the lessee in writing of the conditions associated with plan approval, or the reason(s) for disapproval or required modifications. Moreover, if there is a serious threat of harm or damage to life or property, or if it is in the interest of national security or defense, pending or approved operations may be suspended or halted by BSEE in accordance with 30 CFR Part 250 or 30 CFR Part 550. Such a suspension will extend the term of a lease by an amount equal to the length of the suspension, except as provided in 30 CFR §250.169(b). The BSEE RD will attempt to minimize such suspensions within the confines of related military requirements. It is recognized that the issuance of a lease conveys the right to the lessee, as provided in section 8(b)(4) of the Outer Continental Shelf Lands Act, to engage in exploration, development, and production activities conditioned upon other statutory and regulatory requirements.

B. The lessee is encouraged to establish and maintain early contact and coordination with the appropriate command headquarters, in order to avoid or minimize the effects of conflicts with potentially hazardous military operations.

C. If national security interests are likely to be in continuing conflict with an existing operating agreement, EP, Development and Production Plan (DPP), or Development Operations Coordination Document (DOCD), the BOEM and BSEE-RD will jointly direct the lessee to modify any existing operating agreement or to enter into a new operating agreement to implement measures to avoid or minimize the identified potential conflicts, subject to the terms and conditions and obligations of the legal requirements of the lease.

D. Operational - The lessee, when operating, or causing to be operated on its behalf, a boat, ship, or aircraft traffic in the individual designated warning areas, shall enter into an agreement with the commander of the individual command headquarters listed in the following list, upon utilizing an individual designated warning area prior to commencing such traffic. Such an agreement will provide for positive control of boats, ships, and aircraft operating into the warning areas at all times.

#### **Stipulation No. 4 - Electromagnetic Emissions**

The lessee agrees to control its own electromagnetic emissions and those of its agents, employees, invitees, independent contractors, or subcontractors emanating from individual designated defense warning areas in accordance with requirements specified by the commander of the command headquarters listed in the following table to the degree necessary to prevent damage to, or unacceptable interference with, Department of Defense flight, testing, or operational activities conducted within individual designated warning areas. Necessary monitoring control and coordination with the lessee, its agents, employees, invitees, independent contractors or subcontractors will be effected by the commander of the appropriate onshore military installation conducting operations in the particular warning area; provided, however, that control of such electromagnetic emissions shall in no instance prohibit all manner of electromagnetic communication during any period of time between a lessee, its agents, employees, invitees, independent contractors, or subcontractors and onshore facilities.

## **Appendix 2**

### **GIS Shapefile Metadata**

The DoD assessed all OCS lease blocks within the 2017-2022 BOEM Program Area. The GIS data file contains OCS lease blocks categorized as No Oil and Gas Activity, No Permanent Oil & Gas Surface Structures, and Site Specific Stipulations based upon compatibility with corresponding or adjacent DoD activities associated with special use airspace (Warning Areas), ocean surface and air operating areas (OPAREAs), and other offshore training and testing ranges. Any area of the OCS contained in the data file and not assigned one of the three above categories is determined to be Unrestricted. Several sources were used to create the GIS file:

The Planning Areas, Protractions, Lease Blocks, 50-mile buffer, DPP 2017-2022 Assessment Areas, Presidential Withdrawal Areas, Presidential 25-mile withdrawal, and Congressional Moratorium (Gulf of Mexico) were obtained from BOEM in February 2015. The Planning Area polygons and other cadaster information BOEM produces are generated in accordance with 30 Code of Federal Regulations (CFR) 256.8 to support Federal land ownership and mineral resource management.

The BOEM Planning Area outlines are generated and provided in ESRI shapefile format. The old Atlantic Planning Area outlines were changed as of the 2007-2012 Five Year Plan. The divisions between these new Planning Areas for the North, Mid, and South Atlantic are based on the OCS Administrative Boundaries. These Planning Area boundaries follow the block grid, depending on whether the block is mostly on one side of the Administrative Boundary, or the other. The Submerged Lands Act (SLA) boundary, along with the Continental Shelf Boundary (CSB) and the Limit of Protraction were used to complete the polygons for the Planning Areas. The Official Protraction Diagrams (OPDs) and Supplemental Official Block Diagrams (SOBDs) serve as the legal definition for BOEM offshore boundary coordinates and area descriptions. The BOEM cadastre is developed on a UTM projection, and most Planning Areas span multiple UTM zones.

Data for the Warning Areas, OPAREAs, and training areas were provided by the military Services.

### **Appendix 3**

#### **Acronyms & Abbreviations**

AFB	Air Force Base
ASW	Anti-Submarine Warfare
BOEM	Bureau of Ocean Energy Management
BOMBEX	Bombing Exercise
BSEE	Bureau of Safety and Environmental Enforcement
CFR	Code of Federal Regulations
CSB	Continental Shelf Boundary
CSSQT	Combat System Ship Qualifications Trials
CVN	Nuclear-powered Aircraft Carrier
DESI	Diesel Electric Submarine Initiative
DOCD	Development Operations Coordination Document
DoD	Department of Defense
DPP	Draft Proposed Program
DT	Developmental Test
EOD	Explosives Ordnance Disposal
EP	Exploration Plan
FAC	Fast Attack Craft
FAIC	Fast Inshore Attack Craft
GIS	Geographic Information System
HSMWL	Helicopter Maritime Strike Wing Atlantic
JRB	Joint Reserve Base
MCAS	Marine Corps Air Station
MCB	Marine Corps Base
MCM	Mine Countermeasures
MINEX	Mining Exercise
MISSILEX	Missile Exercise
NAS	Naval Air Station
NAVAIR	Naval Air Systems Command
NAVSEA	Naval Sea Systems Command
NIXIE	In-water active acoustic decoy training
NS	Naval Station
OCS	Outer Continental Shelf
OPAREA	Operations Area
OPD	Official Protraction Diagram
OT	Operational Test
RD	Regional Director
RS-DFO	Regional Supervisor for District Field Operations
SCSC	Surface Combat Systems Center
SLA	Submerged Lands Act
SOBD	Supplemental Official Block Diagrams
SOCAL	Southern California
USW	Undersea Warfare
UTM	Universal Transverse Mercator
UXO	Unexploded Ordnance
VACAPES	Virginia Capes

## Appendix 4

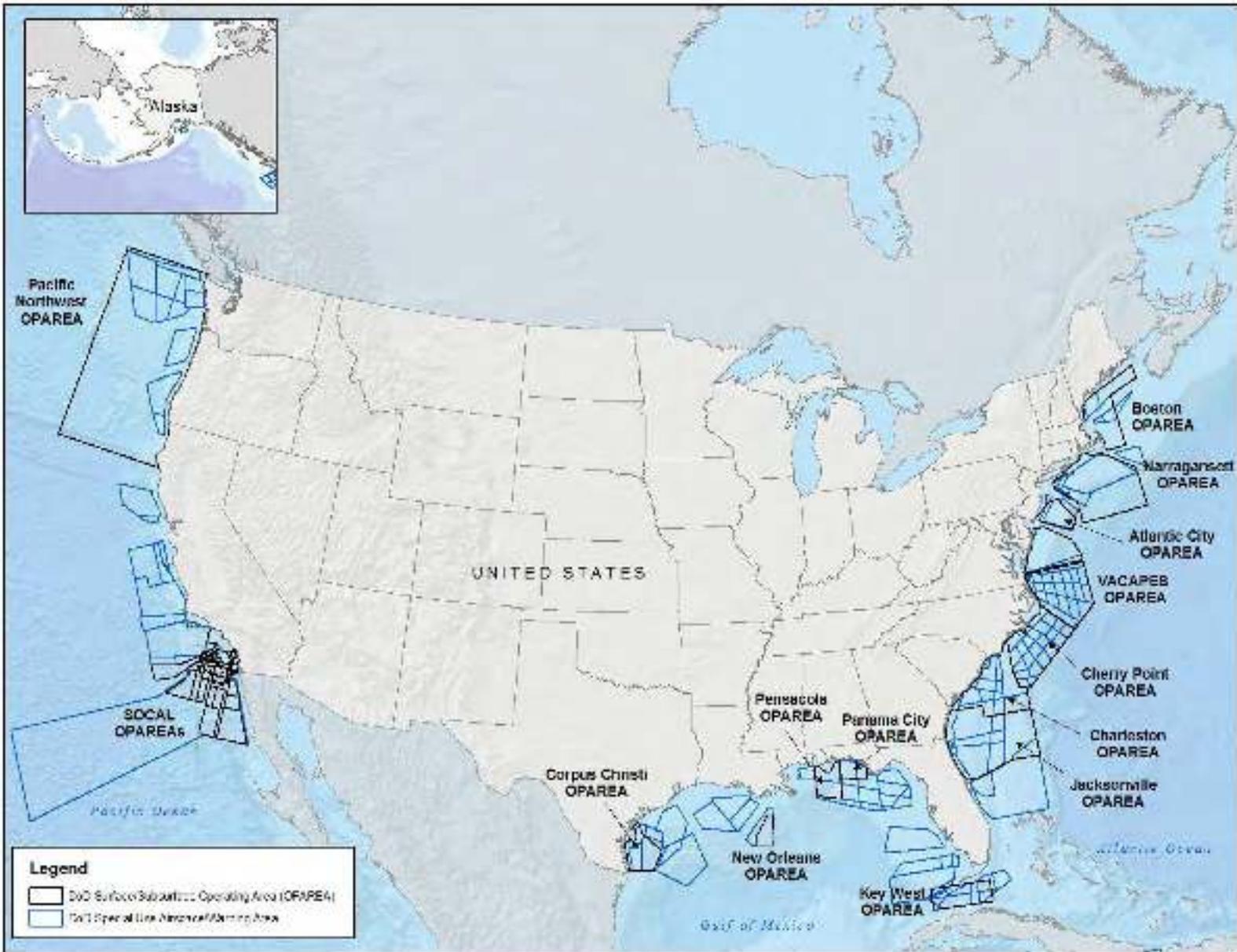
### DoD Points of Contact

Mr. Frank DiGiovanni  
Director, Force Readiness and Training  
Office of the Assistant Secretary of Defense for Readiness  
703-695-2618  
[frank.c.digiovanni.civ@mail.mil](mailto:frank.c.digiovanni.civ@mail.mil)

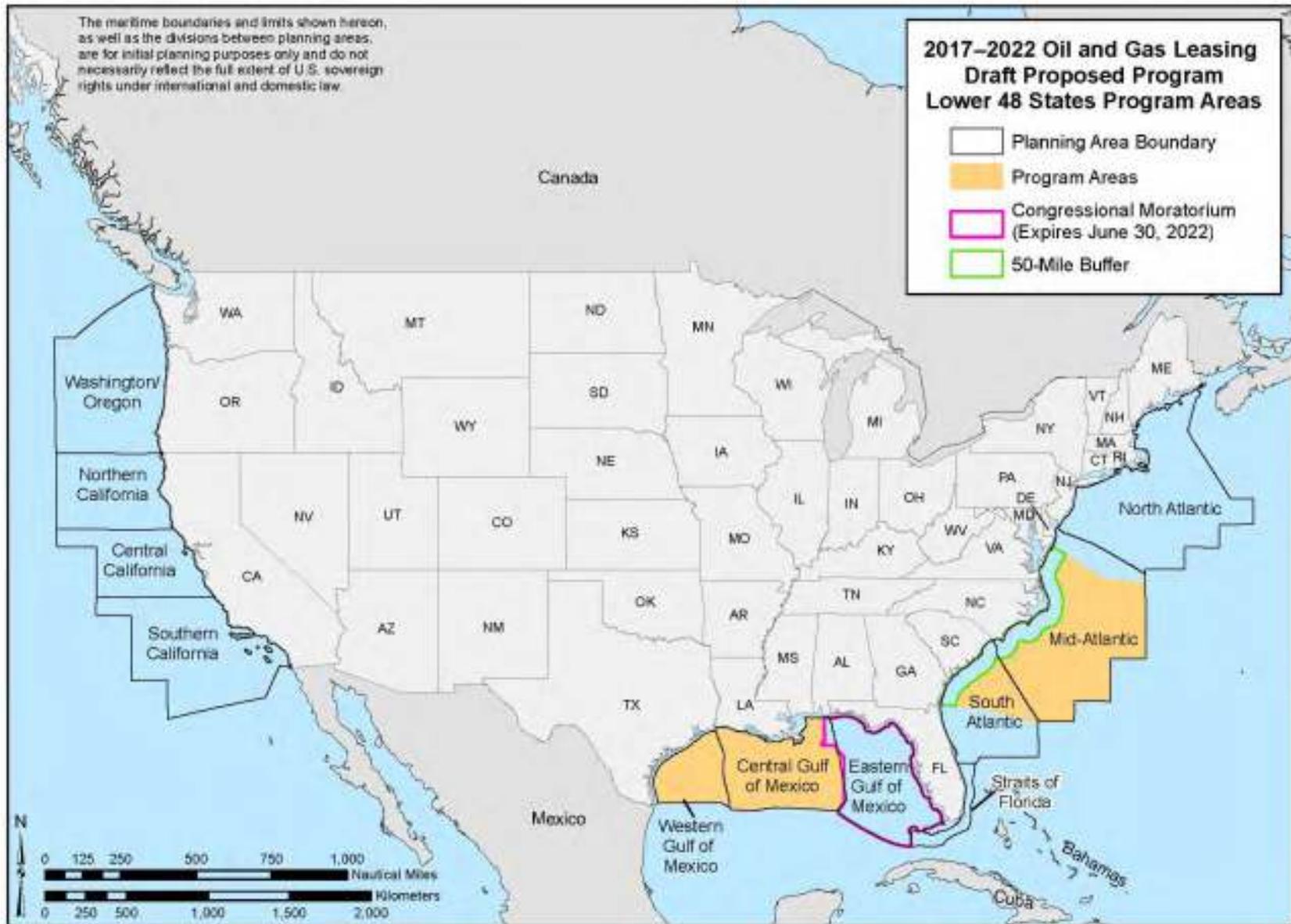
Mr. Fred Engle  
Deputy Director, Training Ranges, Sea and Air Space  
Office of the Assistant Secretary of Defense for Readiness  
703-693-3478  
[frederick.c.Engle.civ@mail.mil](mailto:frederick.c.Engle.civ@mail.mil)

**Appendix 5**

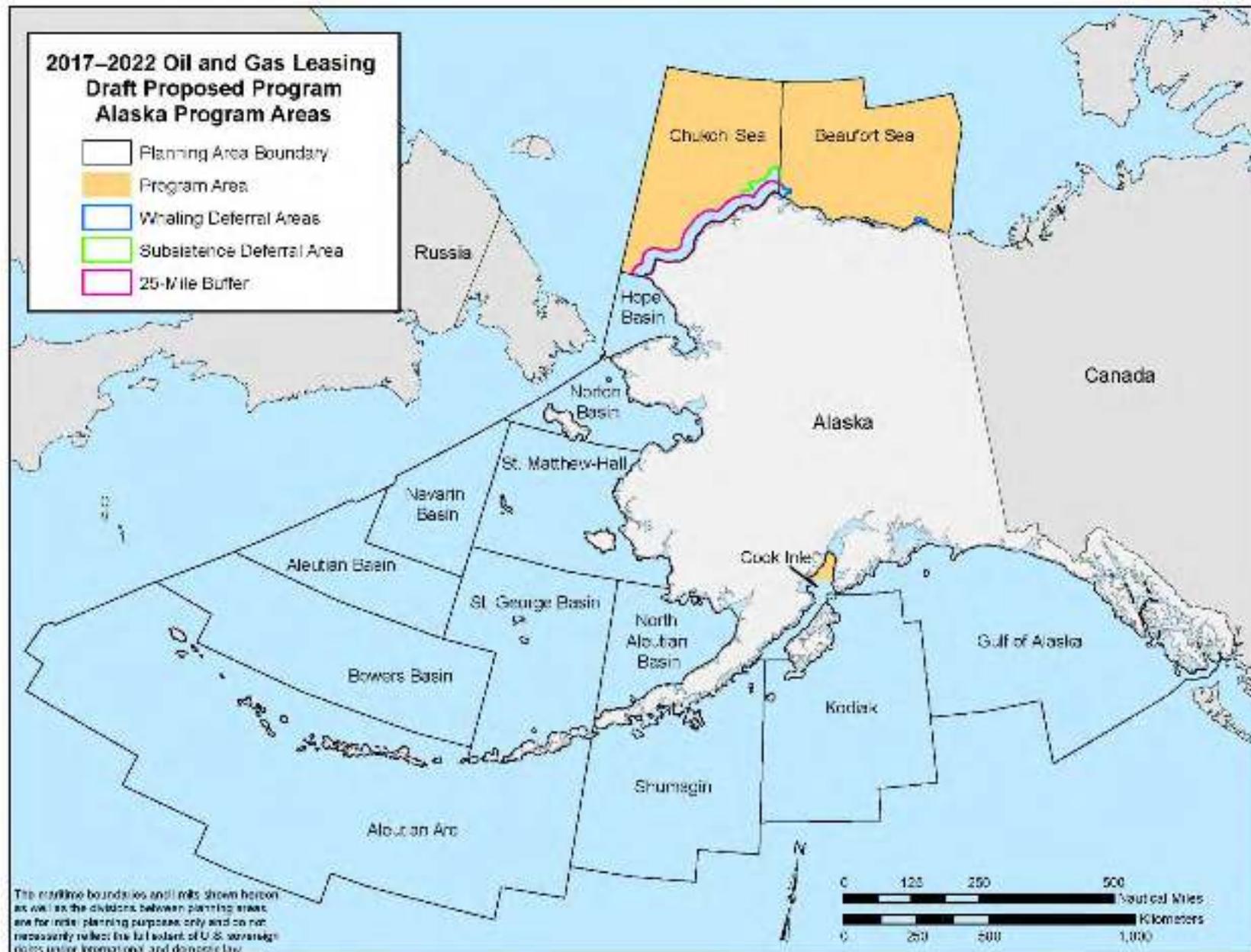
**BOEM Planning Areas and DoD OPAREA & Warning Area Maps**



DoD OPAREAs & Warning Areas



**BOEM Program and Planning Areas**

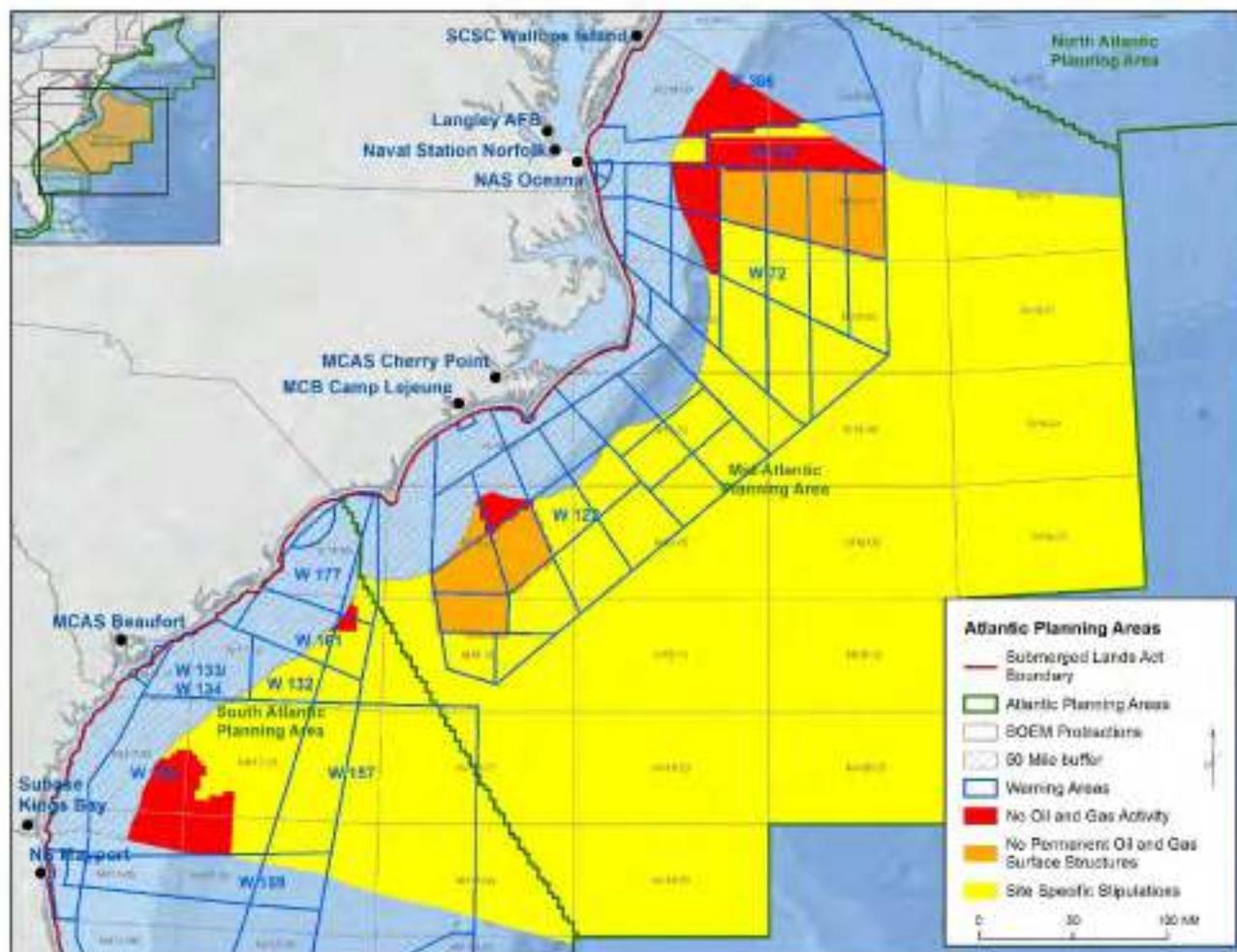


Alaska BOEM Program and Planning Areas

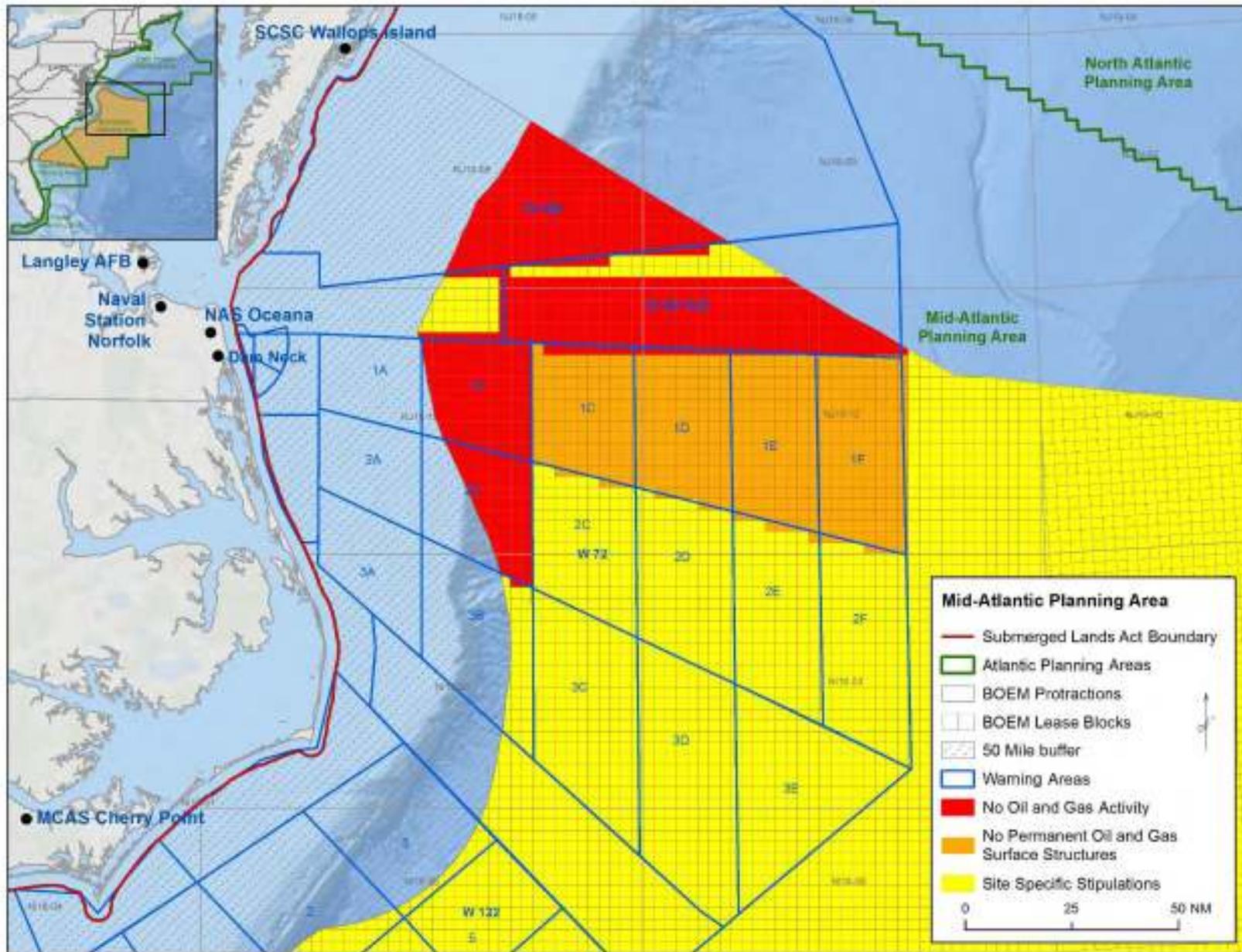
### 2015 Atlantic Summary

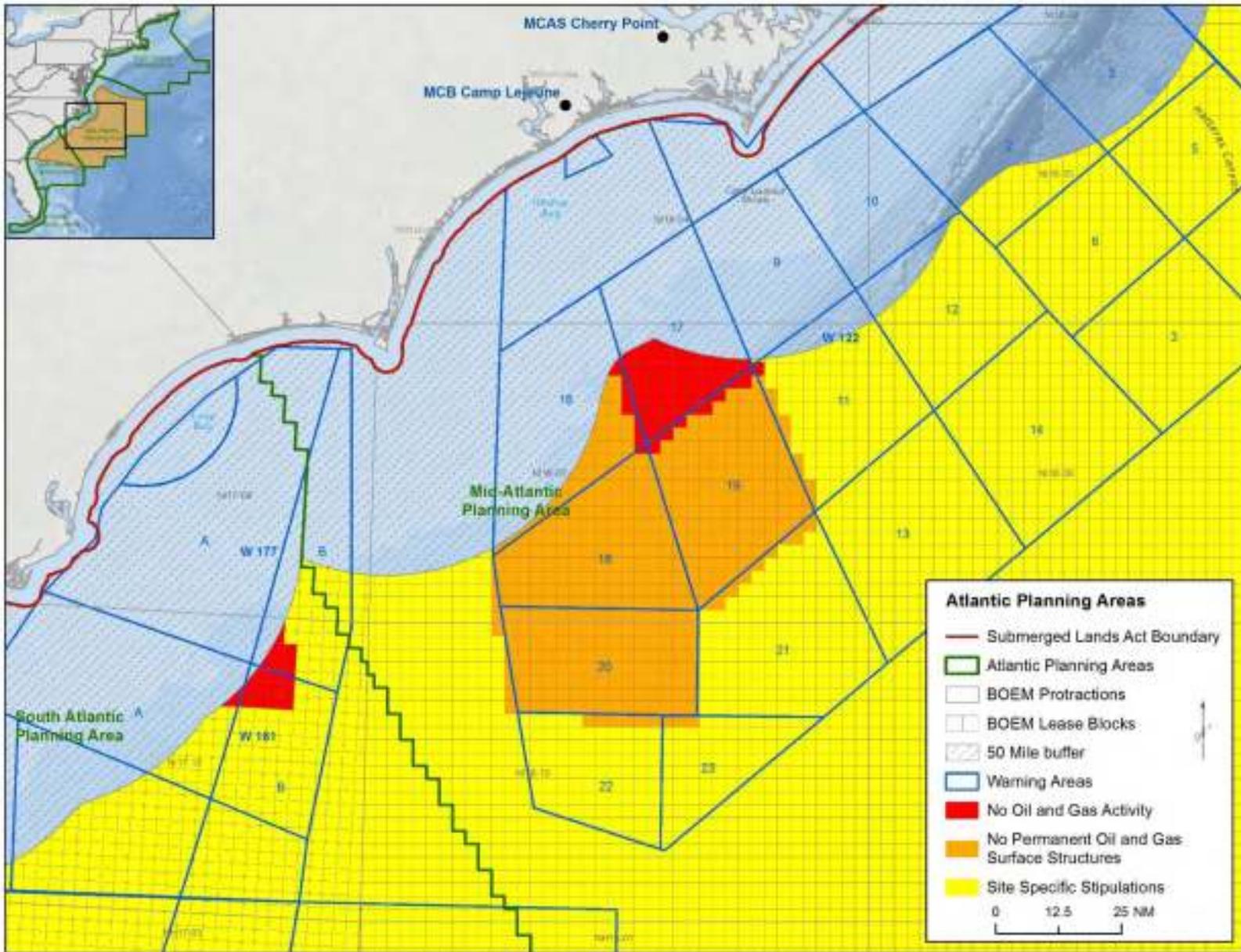
Category Type	Square Nautical Miles	Percentage of Total
Site Specific Stipulations*	111,417	90.00%
No Surface Structures	6,107	4.93%
No Oil and Gas Activity	6,279	5.07%
Total	123,803	100.00%

\* Site Specific Stipulation (Yellow) areas outside of DoD Warning Areas and Operating Areas are associated with emerging Ballistic Missile Defense training missions, longer weapons release ranges, and expanded weapons hazard patterns for safety. These activities may or may not require site specific stipulations and this determination will be made on a case-by-case basis.

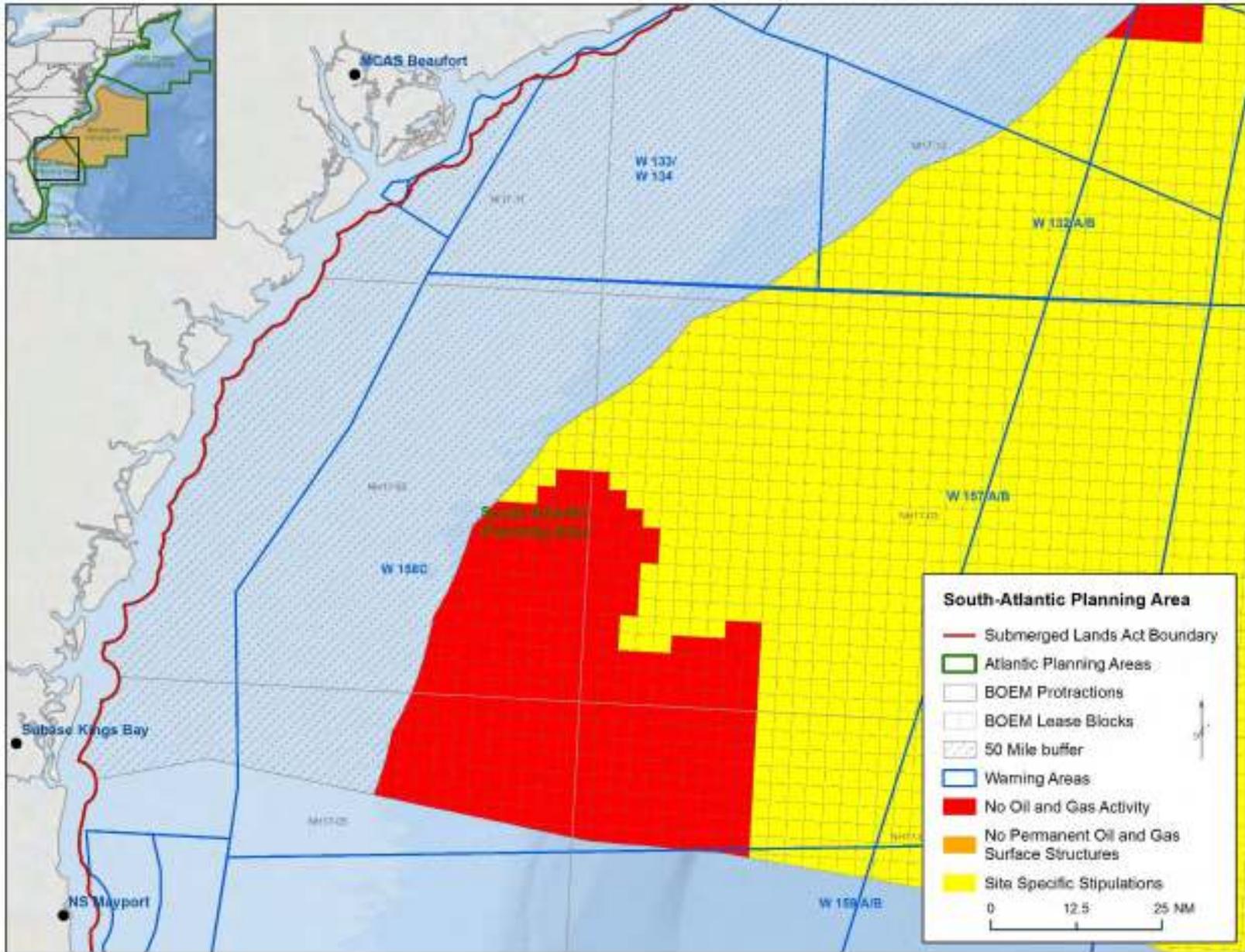


2015 Mid-Atlantic and South Atlantic Planning & Program Areas

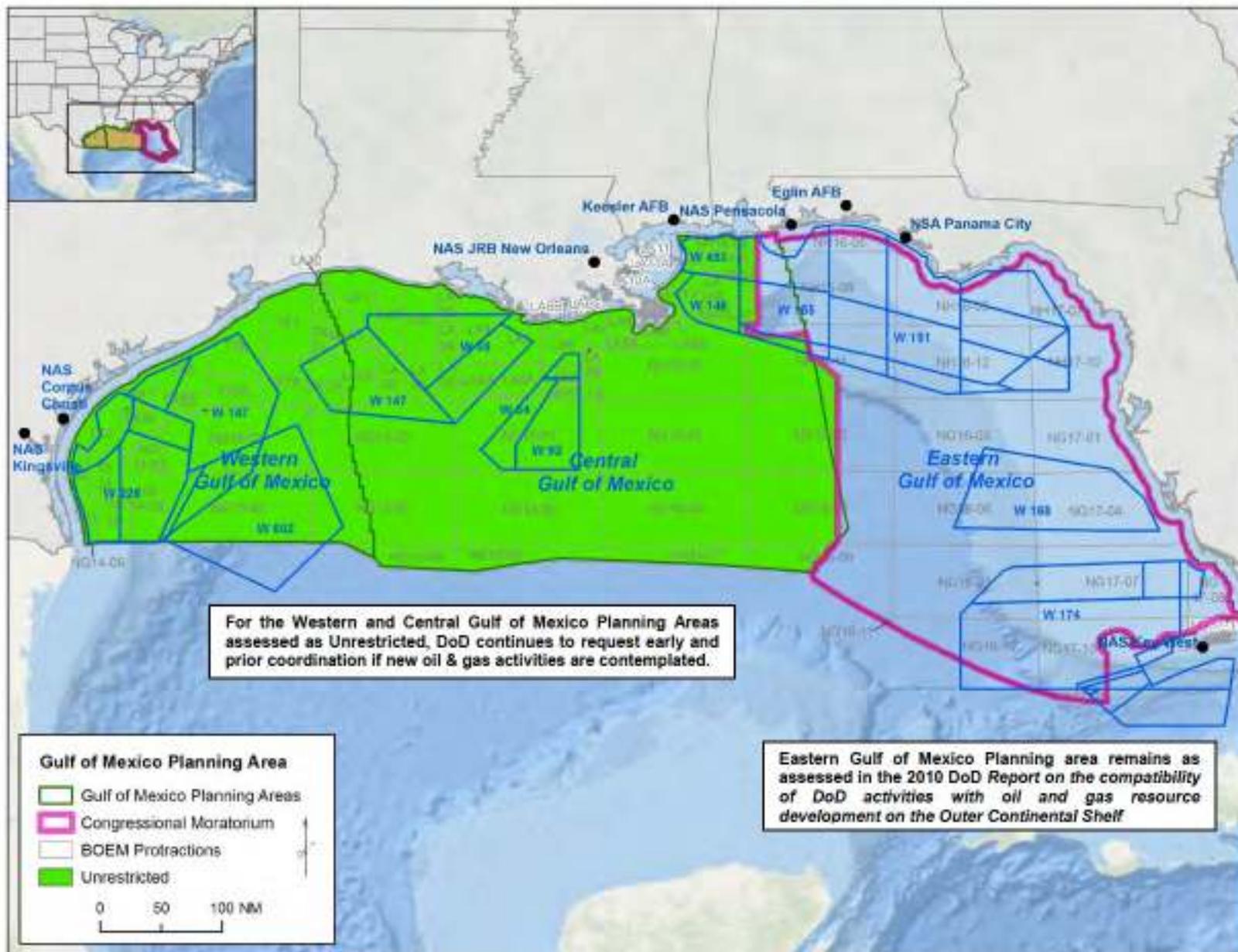




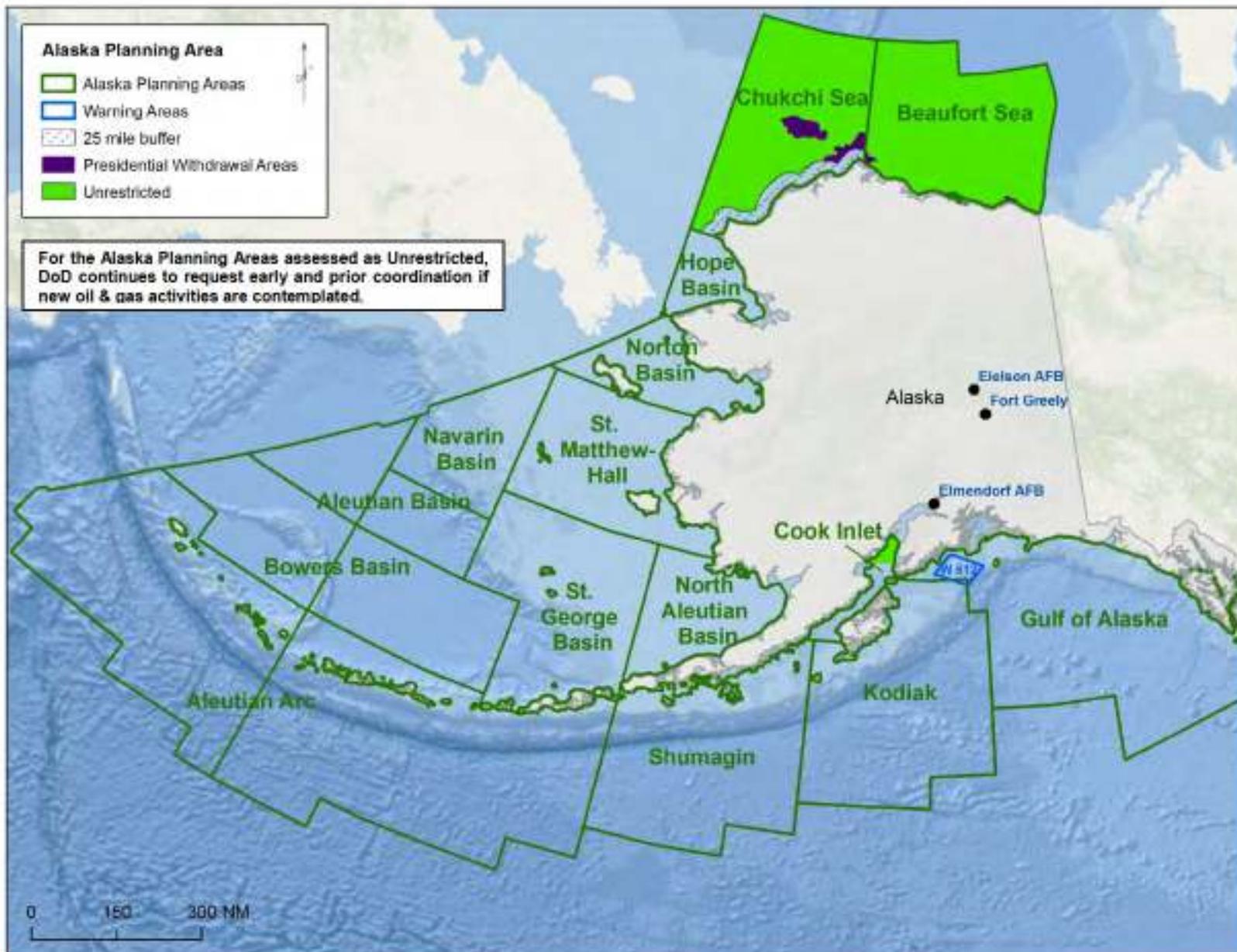
2015 Mid-Atlantic and South Atlantic Planning & Program Areas



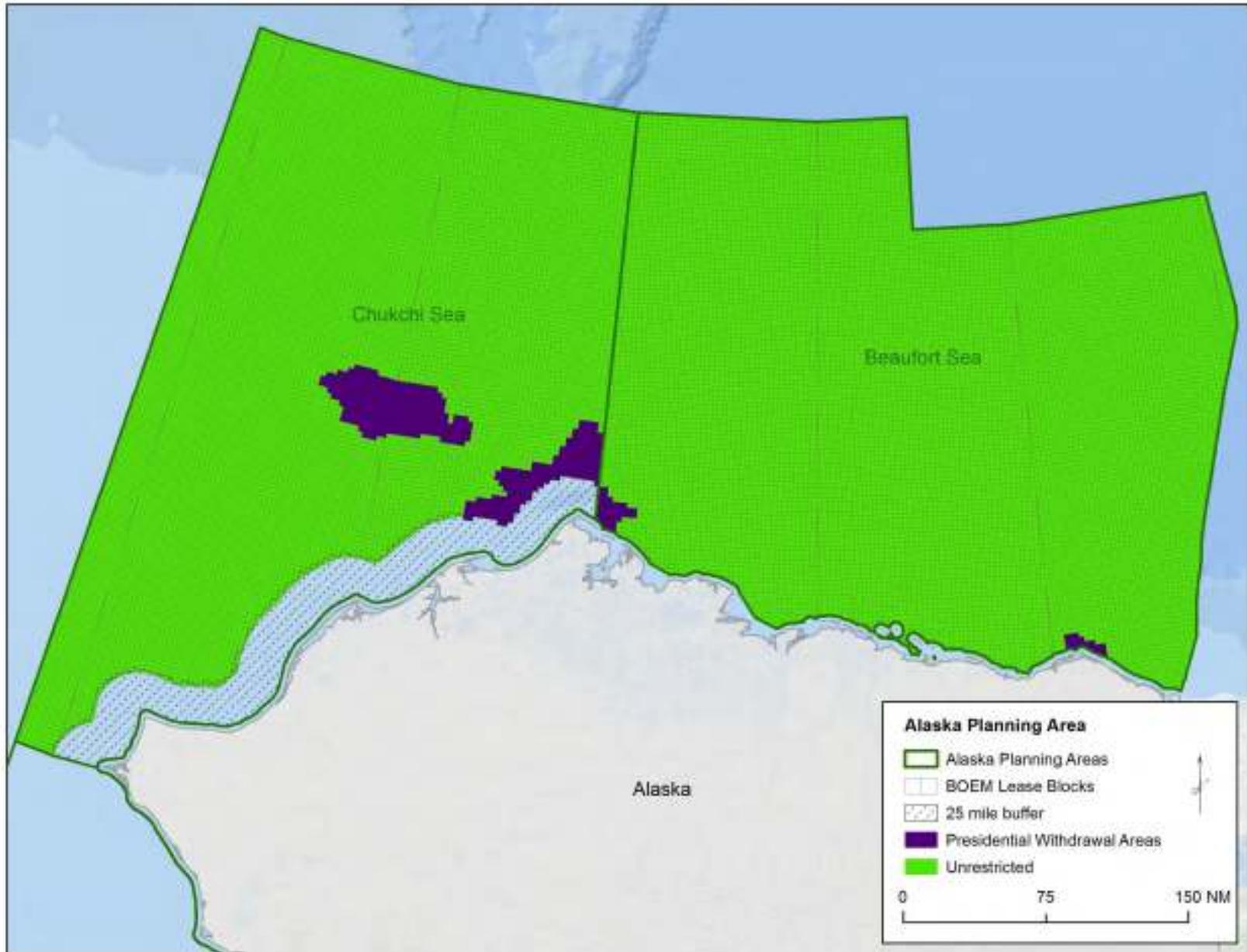
2015 South Atlantic Planning & Program Area



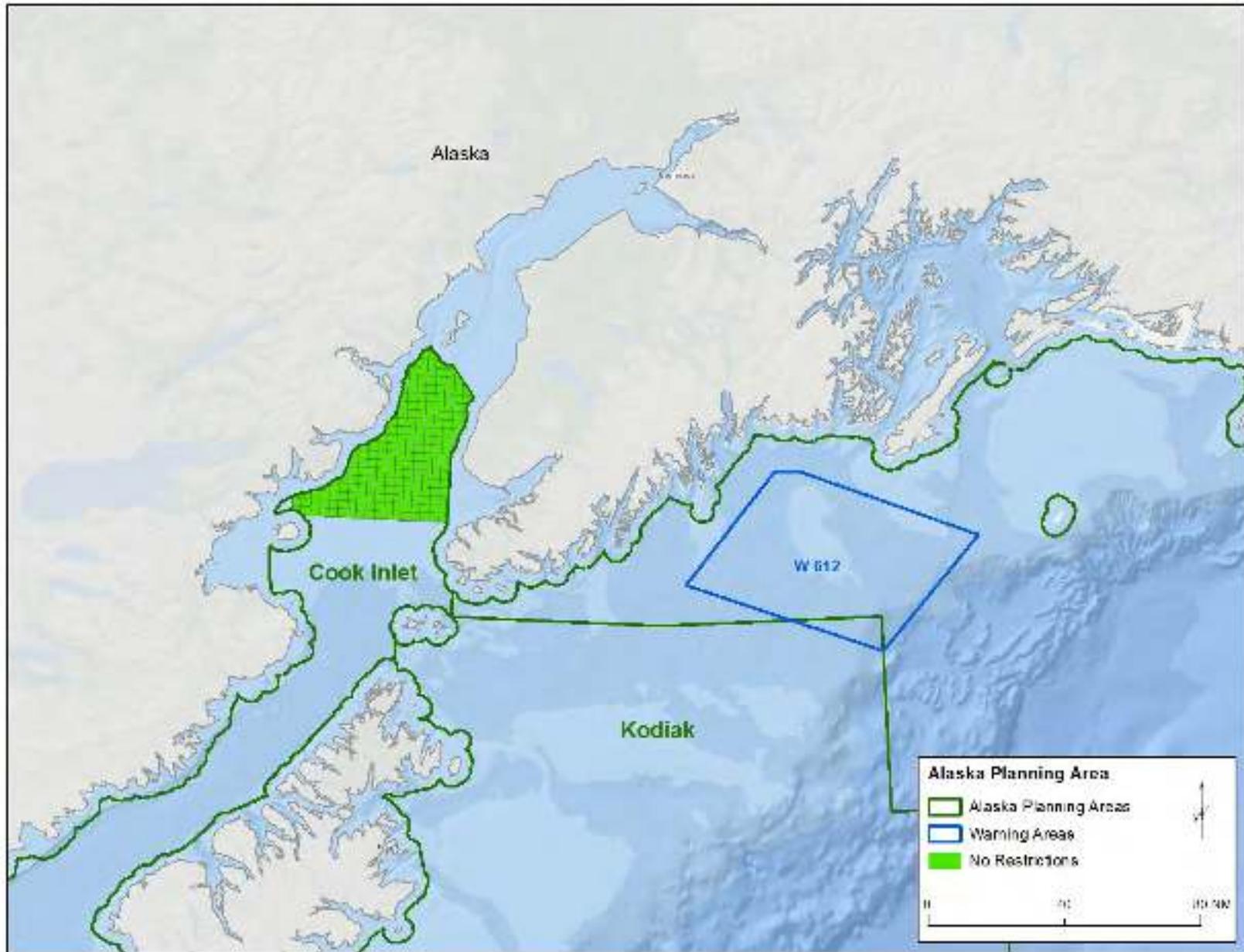
2015 Gulf of Mexico Planning & Program Areas



2015 Alaska Planning & Program Areas



2015 Chuckchi Sea and Beaufort Sea Planning & Program Areas



2015 Cook Inlet Planning & Program Area