



Range Sustainment and Modernization to Meet Customer Needs

*Targets, UAVs & Range Operations Symposium
New Orleans, LA*

**Mr. Robert J. Arnold
Technical Advisor, 46th Test Wing
Eglin Air Force Base, Florida**

20 October 2010

Integrity - Service - Excellence



KEY TAKE-AWAY



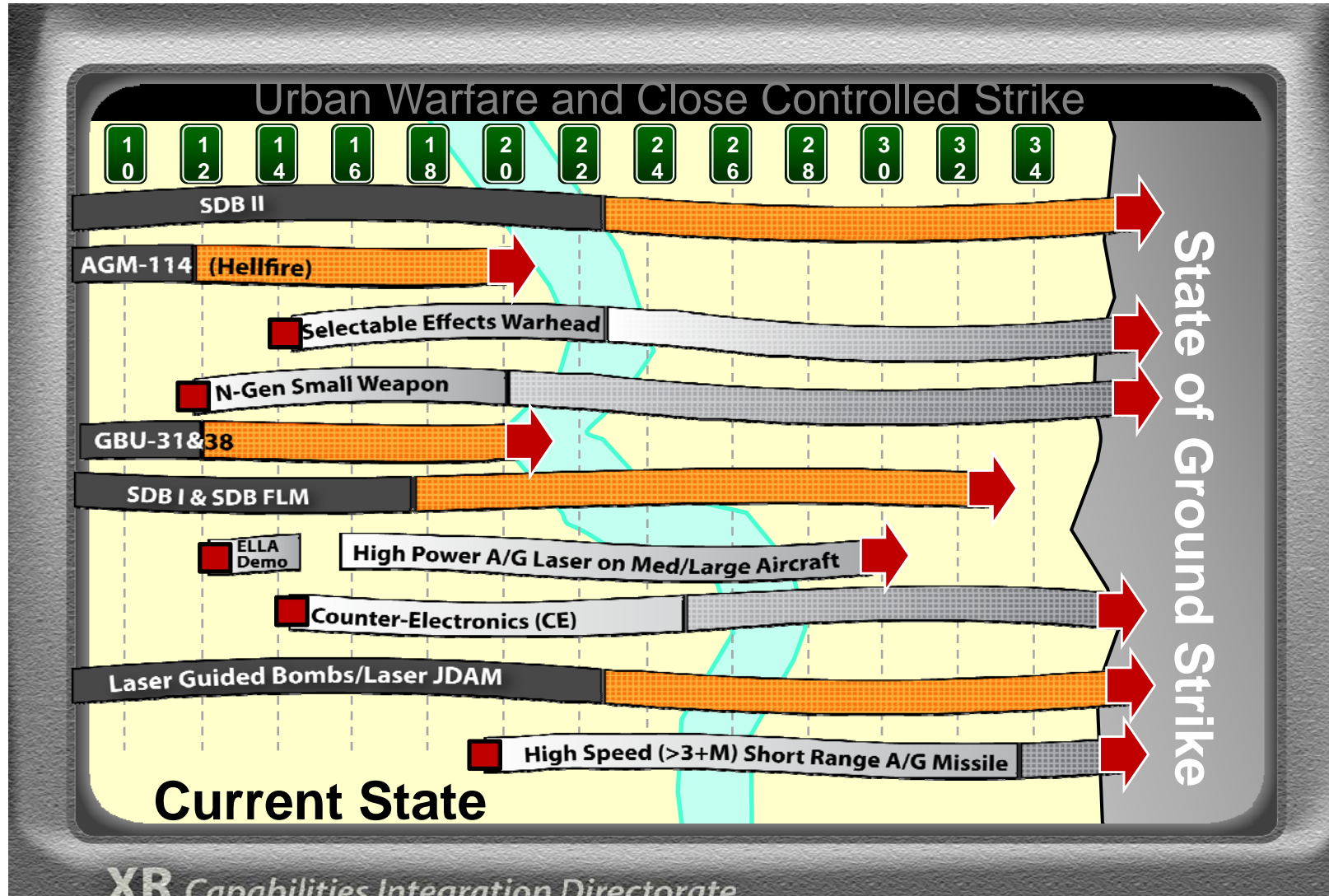


VIDEO



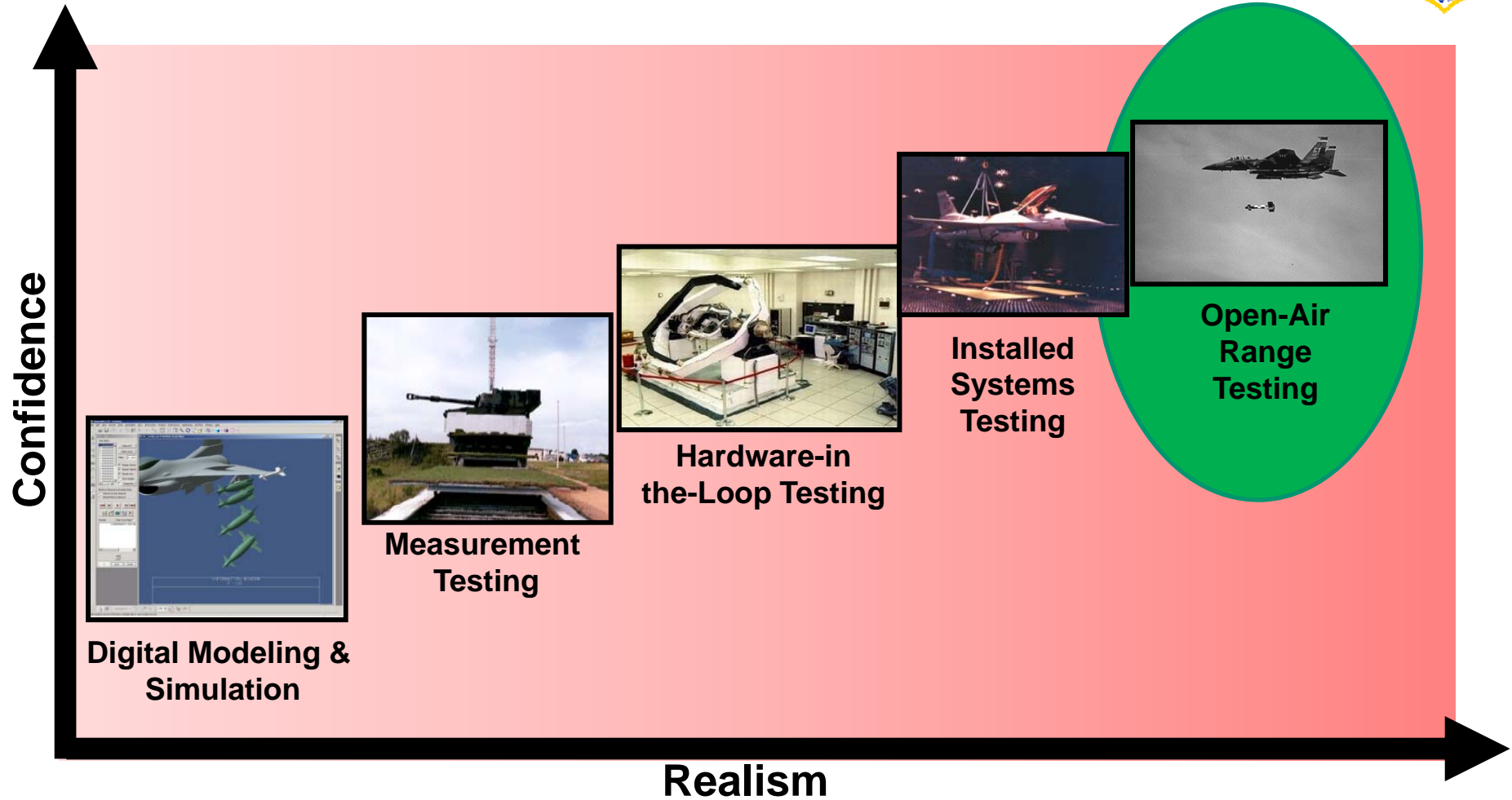


URBAN WARFARE: FUTURE WEAPONS





TEST HIERARCHY



There Is No Substitute For Open-Air Testing!



KEY CHALLENGES

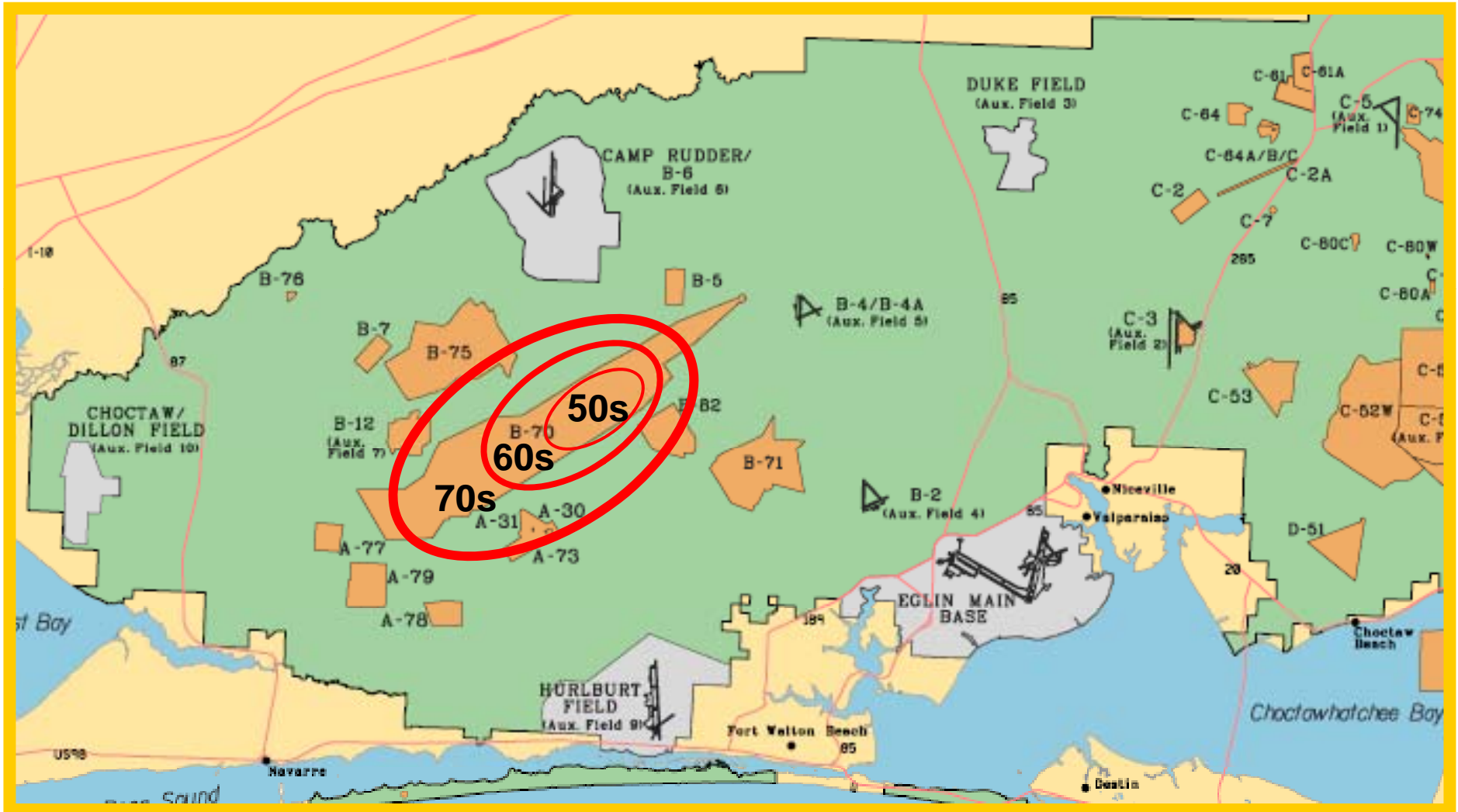


- **Range Constraints**
- **Encroachment**
- **Congestion**



HISTORICAL SAFETY FOOTPRINTS

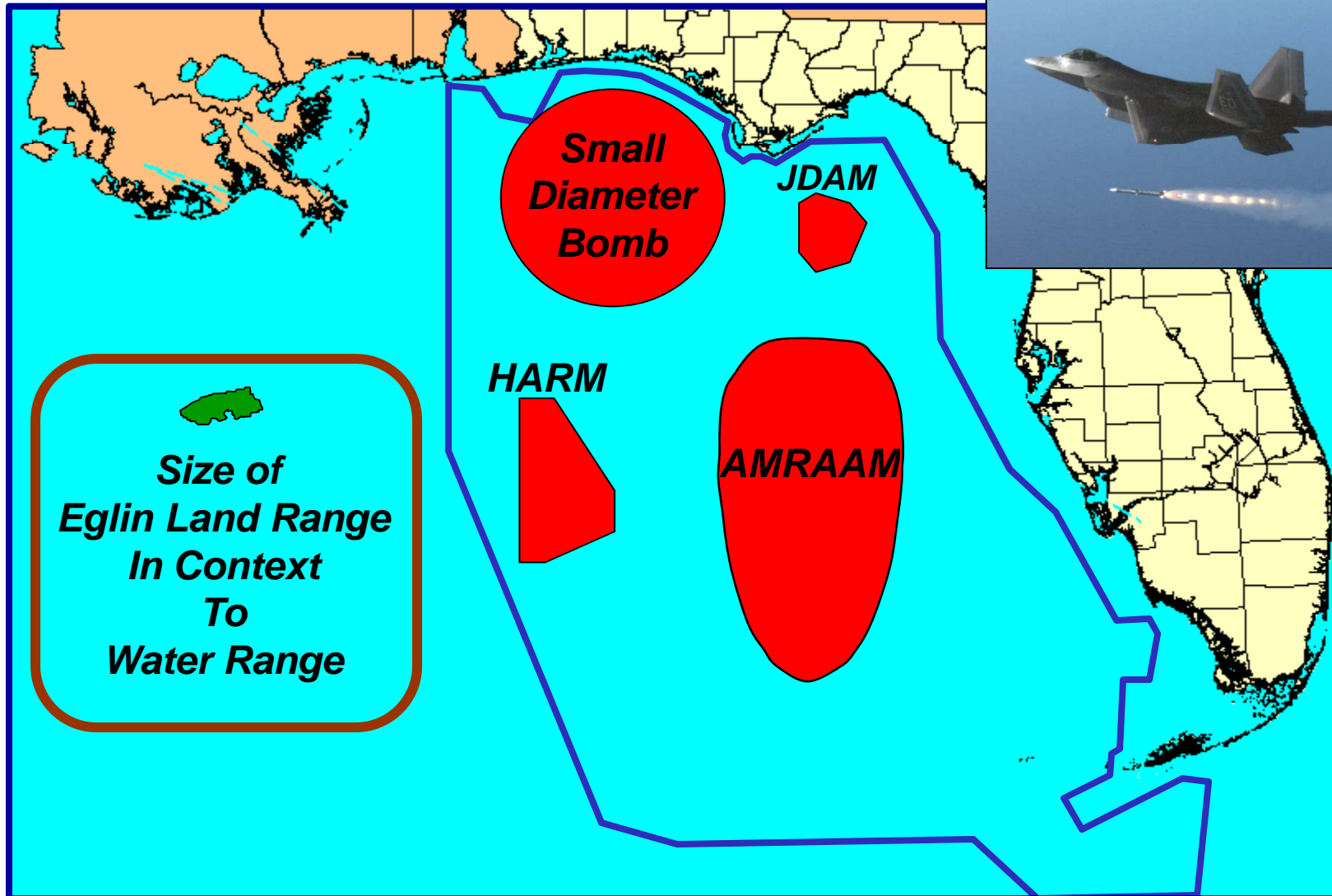
AFMOC





CURRENT SAFETY FOOTPRINTS

AFMCG





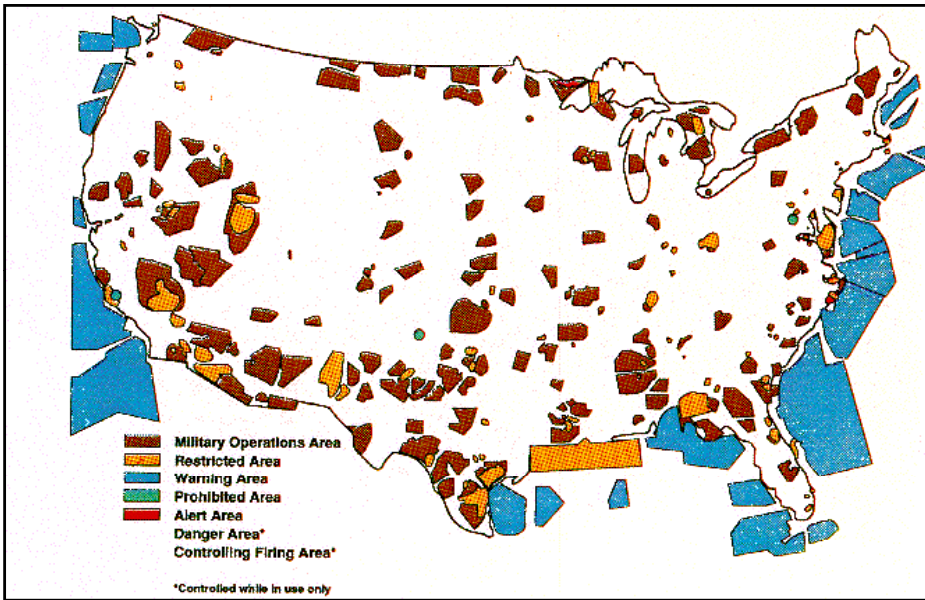
URBAN GROWTH



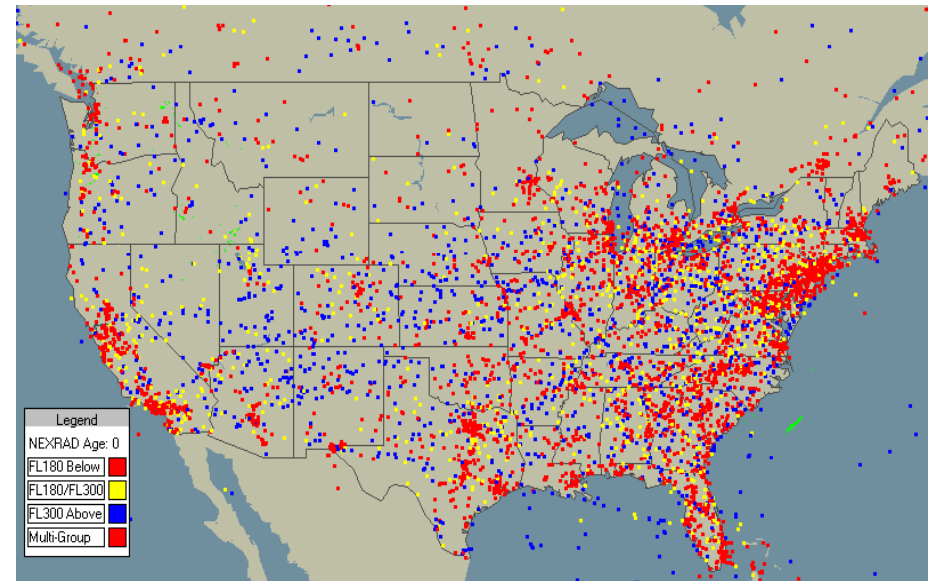
**Urban Development Has Marched To The Gates Of
Once Remote Military Training Installations**



AIRSPACE



Special Use Airspace



Commercial Air Traffic

Airspace Competition From Both Within And Outside Of DoD



AVIATION GROWTH

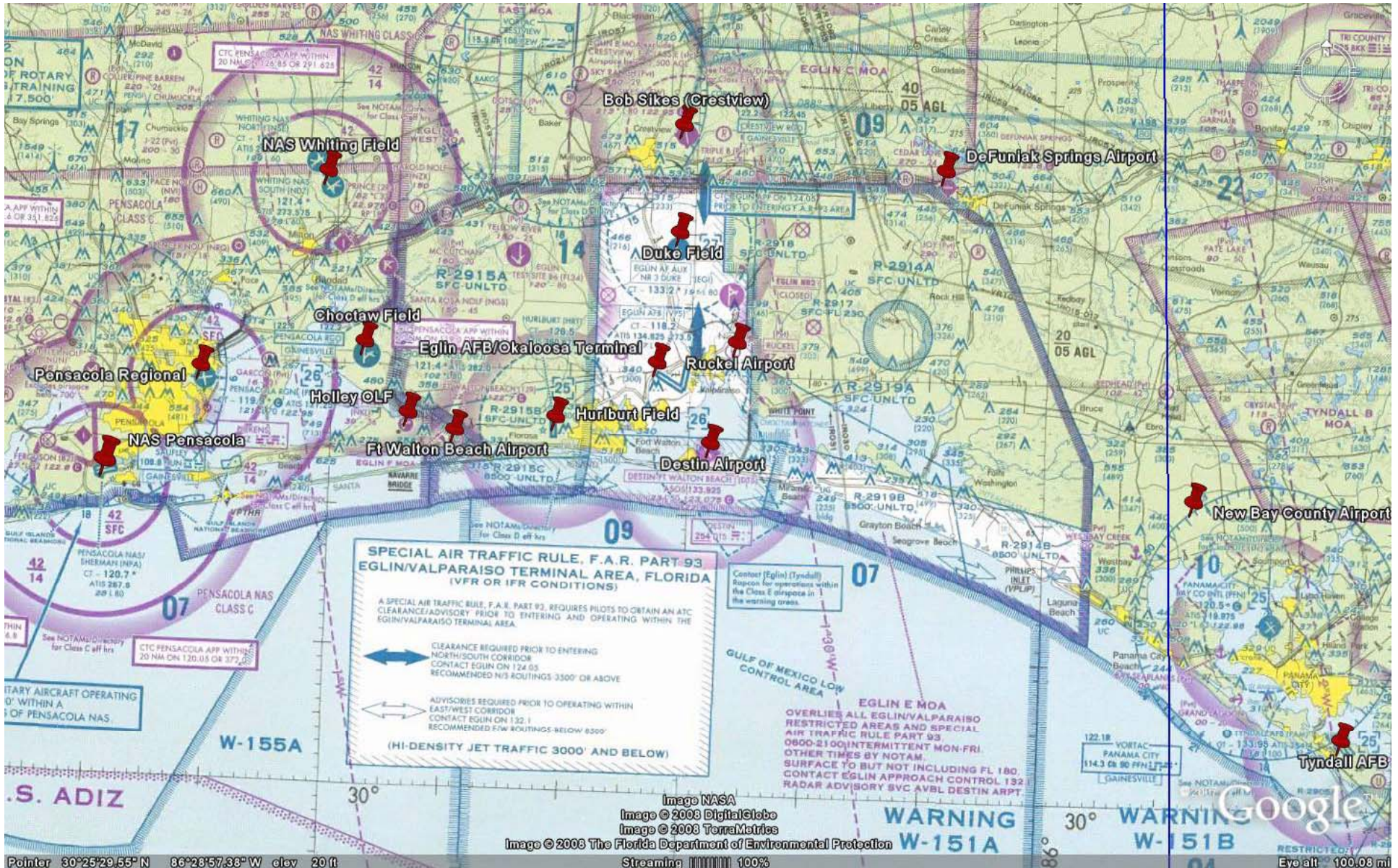
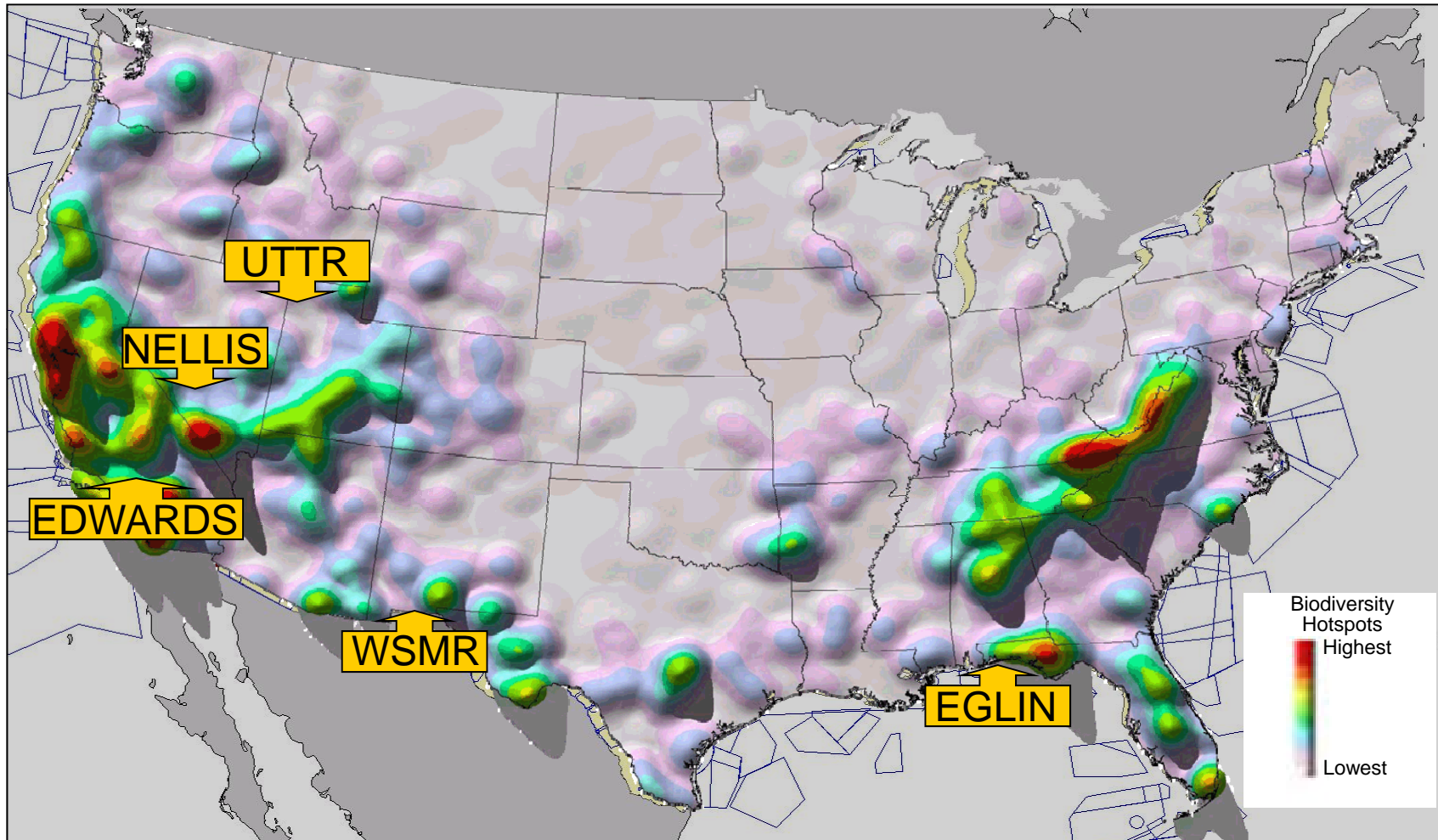


Image NASA
 Image © 2008 DigitalGlobe
 Image © 2008 TerraMetrics
 Image © 2008 The Florida Department of Environmental Protection



ENDANGERED SPECIES



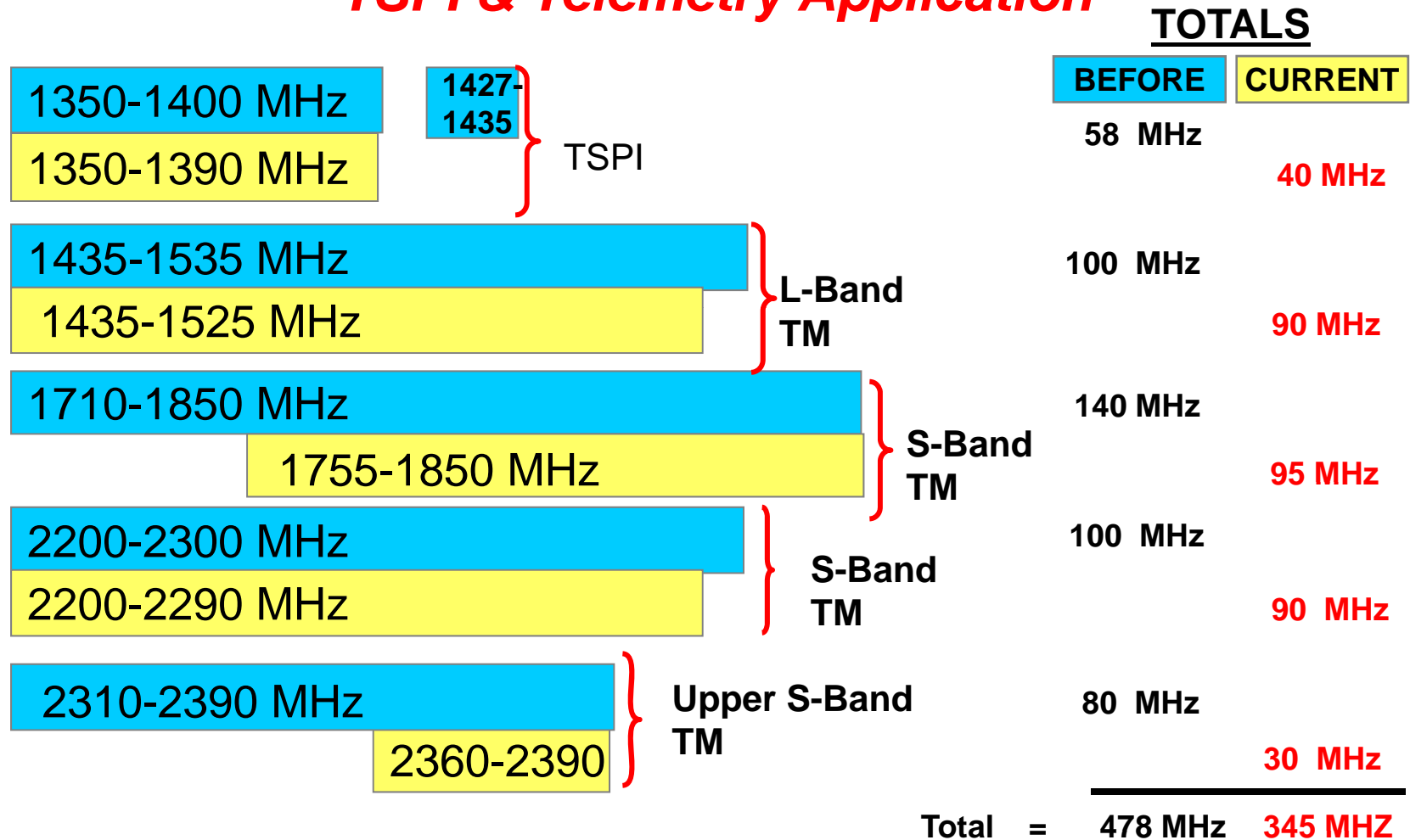
Ranges Are Environmental Hot Spots



LOSS OF SPECTRUM



TSPI & Telemetry Application



Loss Of 133 Mhz Of Spectrum Since WRC 92



BRAC 2005

ADDITIONAL DEMANDS ON RANGE USE

AFMPC



7th Special Forces Group (Airborne)



~2200 Personnel - Arriving FY11
~\$400M MILCON - Began FY09
Location - West of Duke Field

F-35 Integrated Training Center (ITC)



~2000 Personnel - Arriving FY09-FY15
~\$400M MILCON - Began FY09
Location - 33 FW Area



BRAC 2005 New Missions For Eglin

~800M MILCON
~4200 Mil/Civ/Ctr
~6000 Dependents



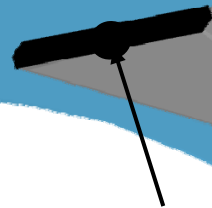
2005 Base Realignment And Closure (BRAC)



TESTING & TRAINING



*Testing
Modernization
For Tomorrow*



**Scheduling
Throttles**

D
O
D

R
A
N
G
E
S

*Sustainment
Mission*



*Training
Readiness
For Today*

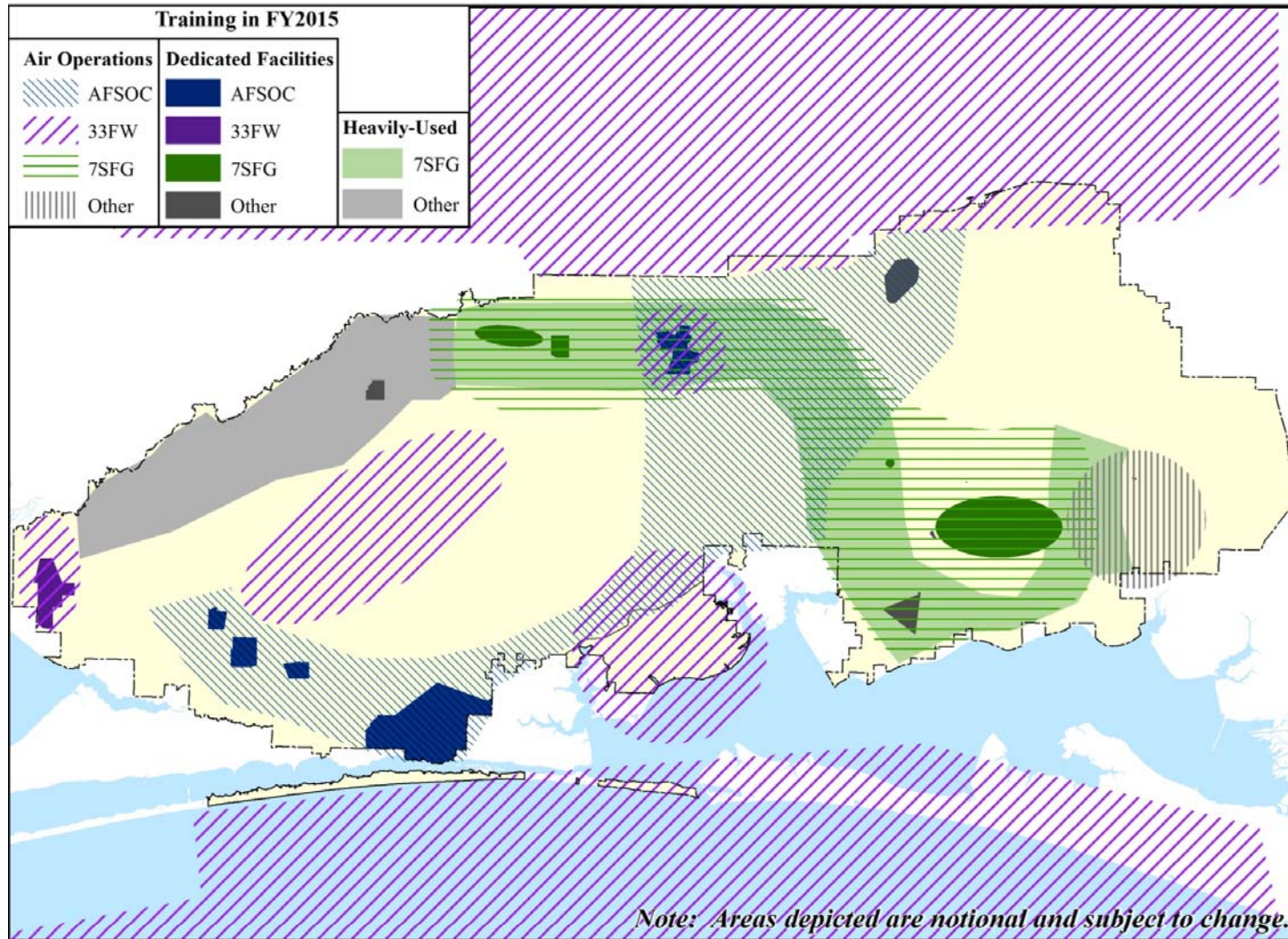


Balancing Testing And Training



TRAINING REQUIREMENTS LAND SEGMENTATION

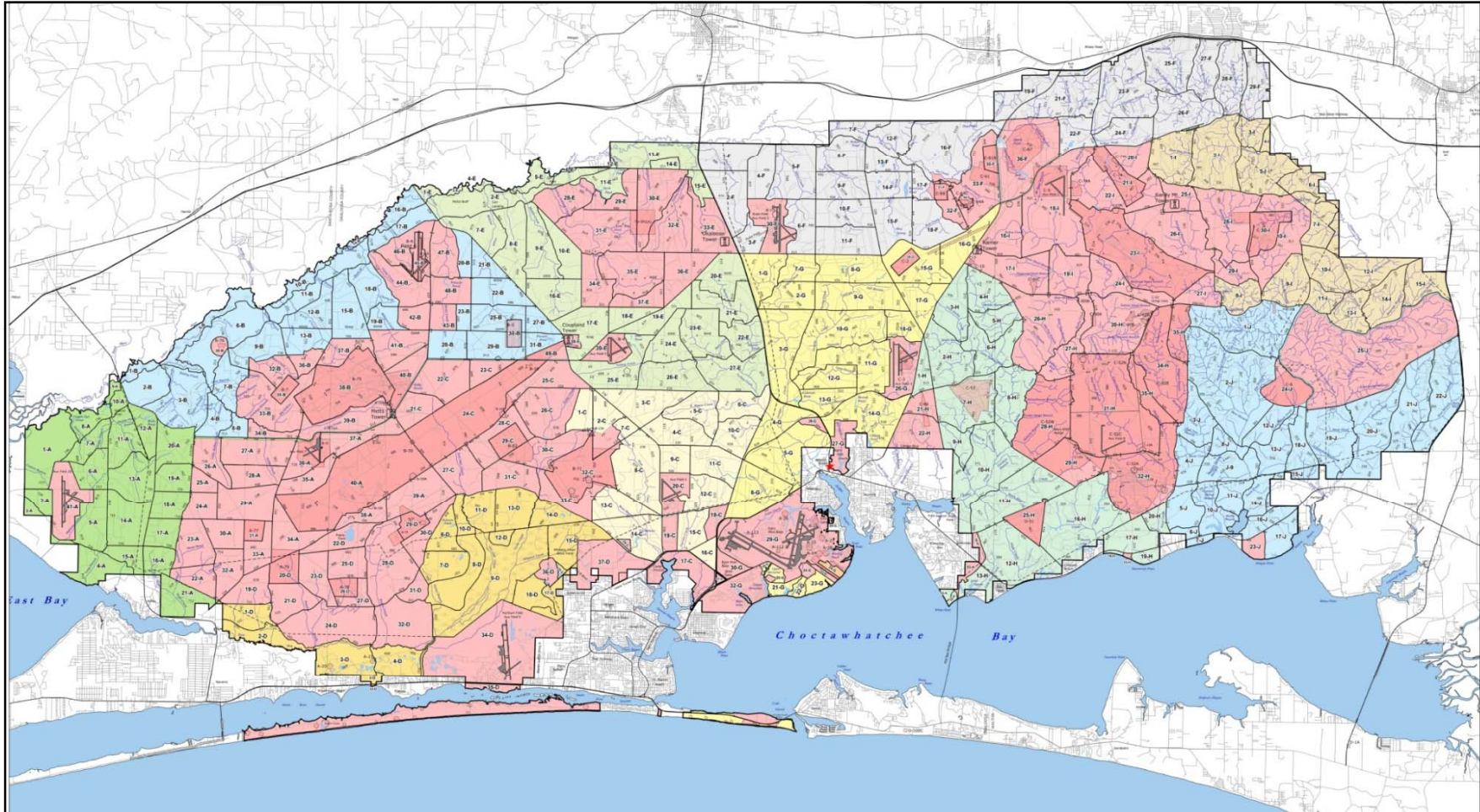
AFMCG



New Paradigm For A Traditional Test Range



RANGE COMPARTMENTALIZATION

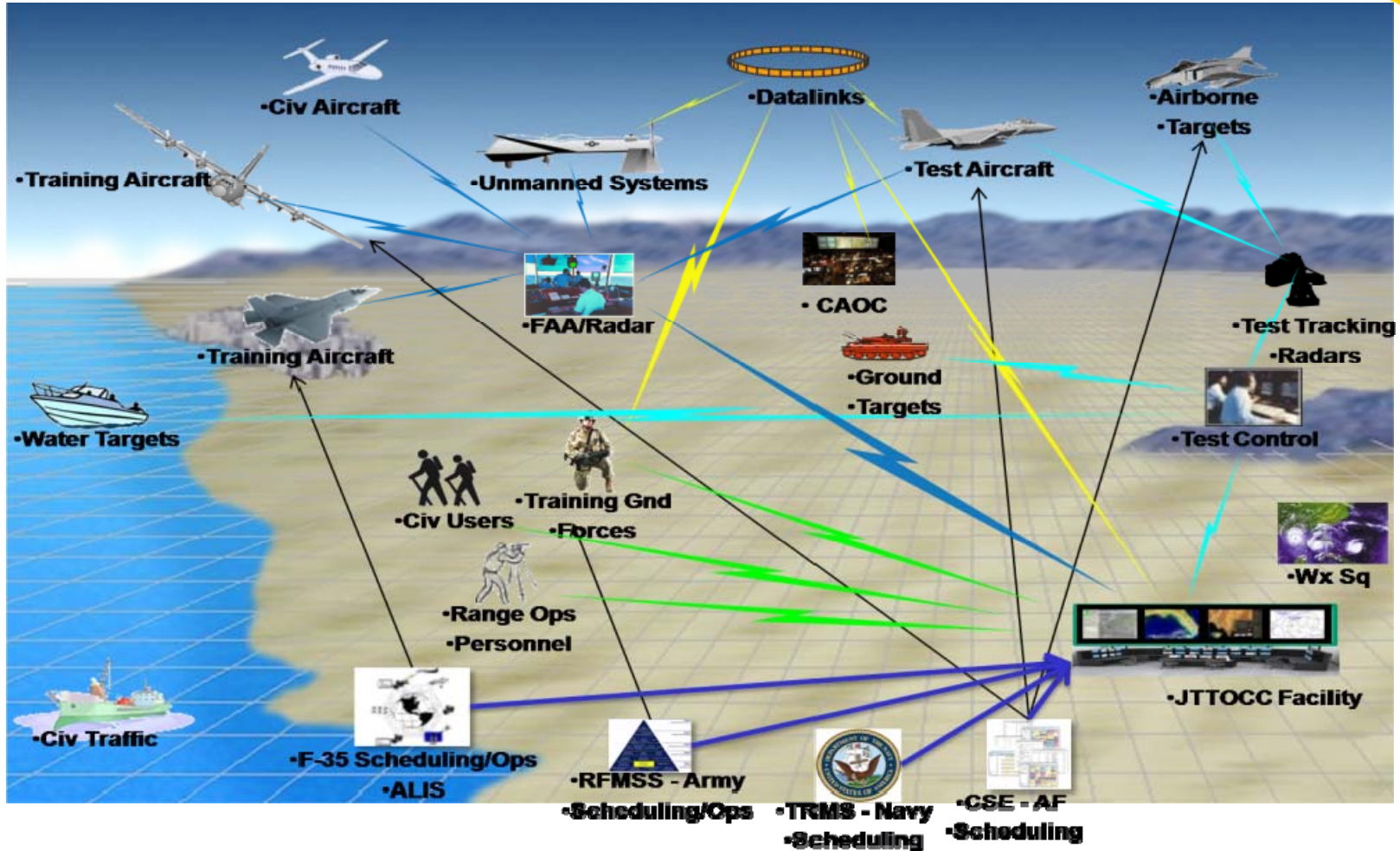


Deconflicts Land Use By Trainers



MISSION SCHEDULING

AFMOC

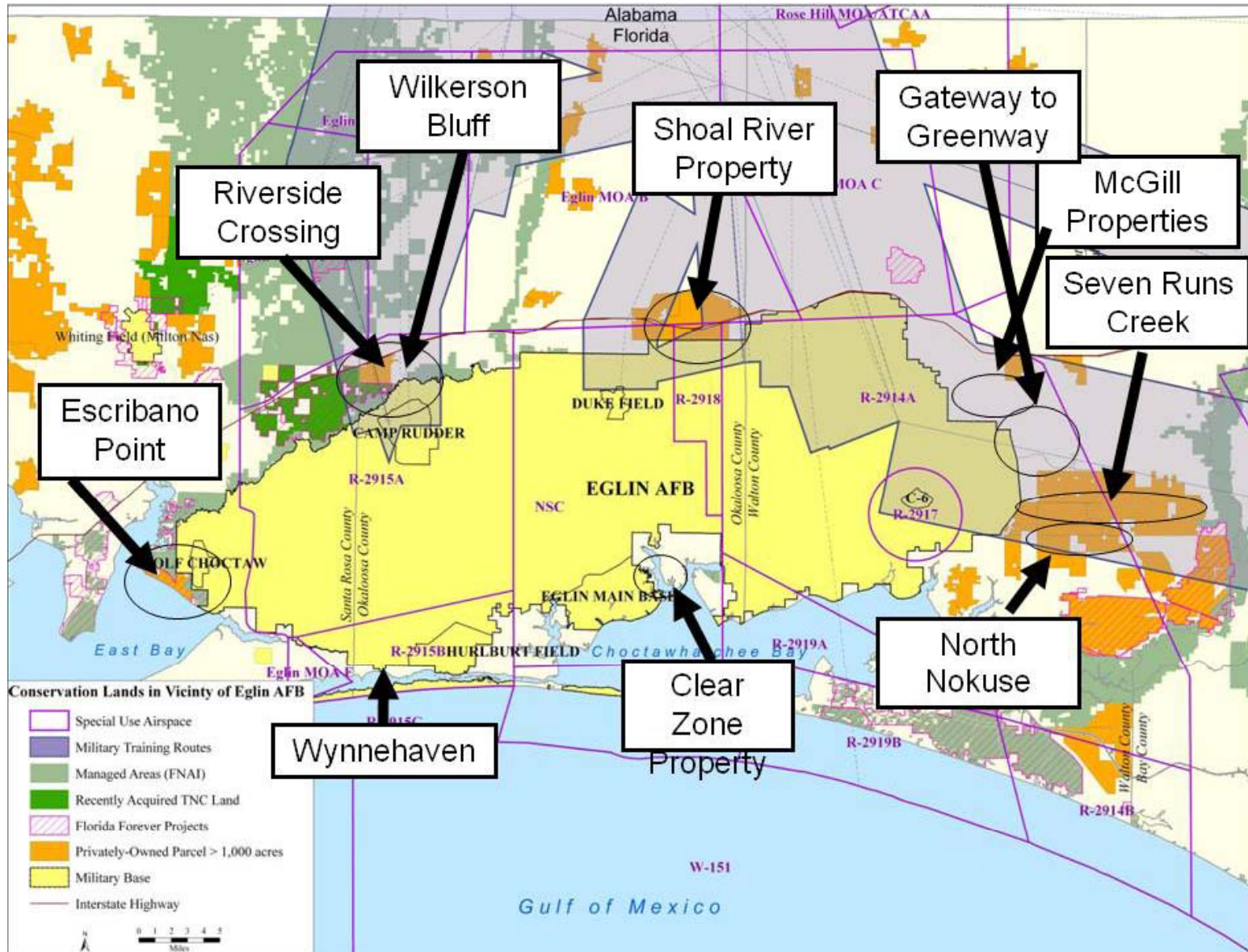


Establishing New Joint Test & Training Operations Control Capability



STRATEGIC BUFFERING

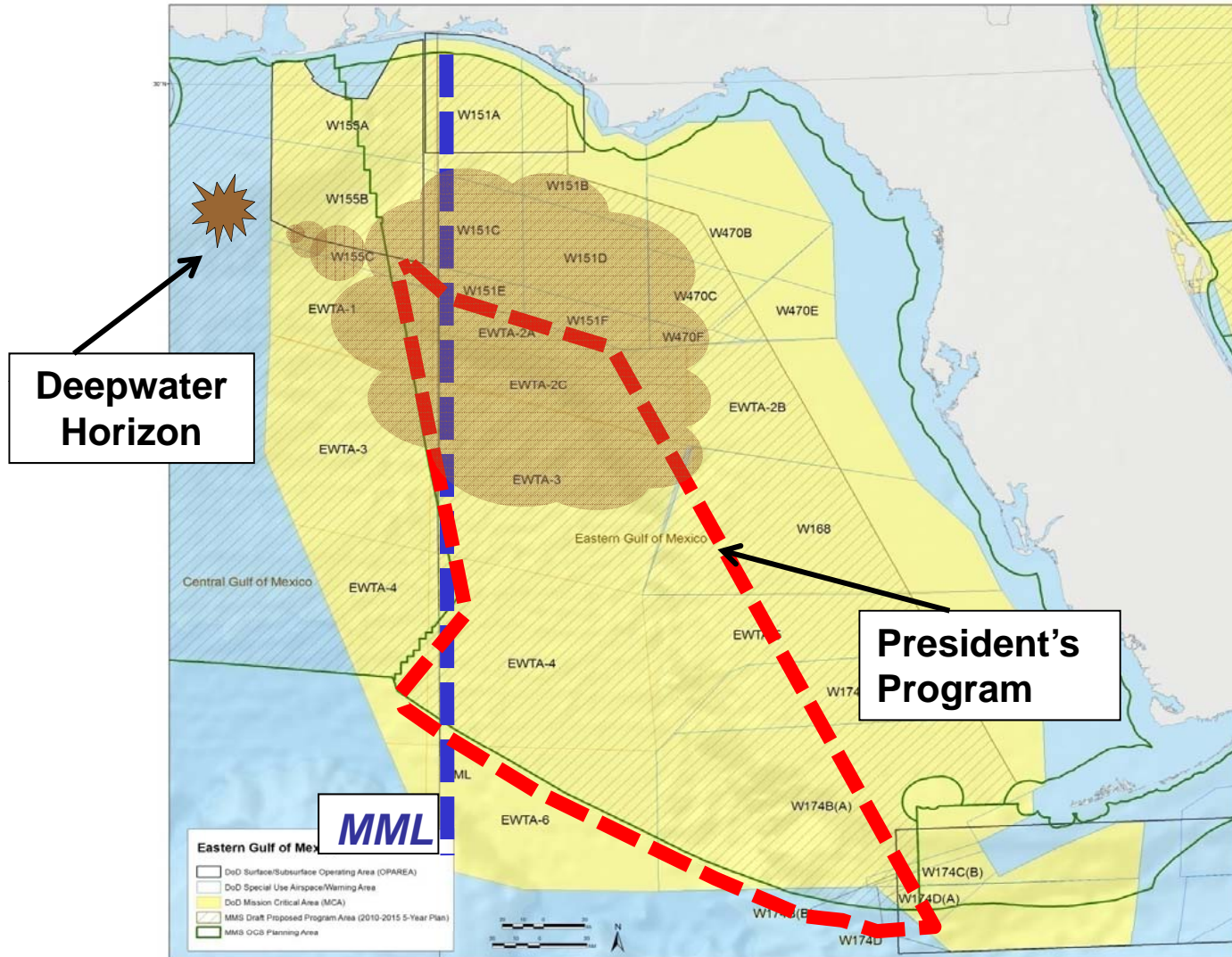
AFMCO





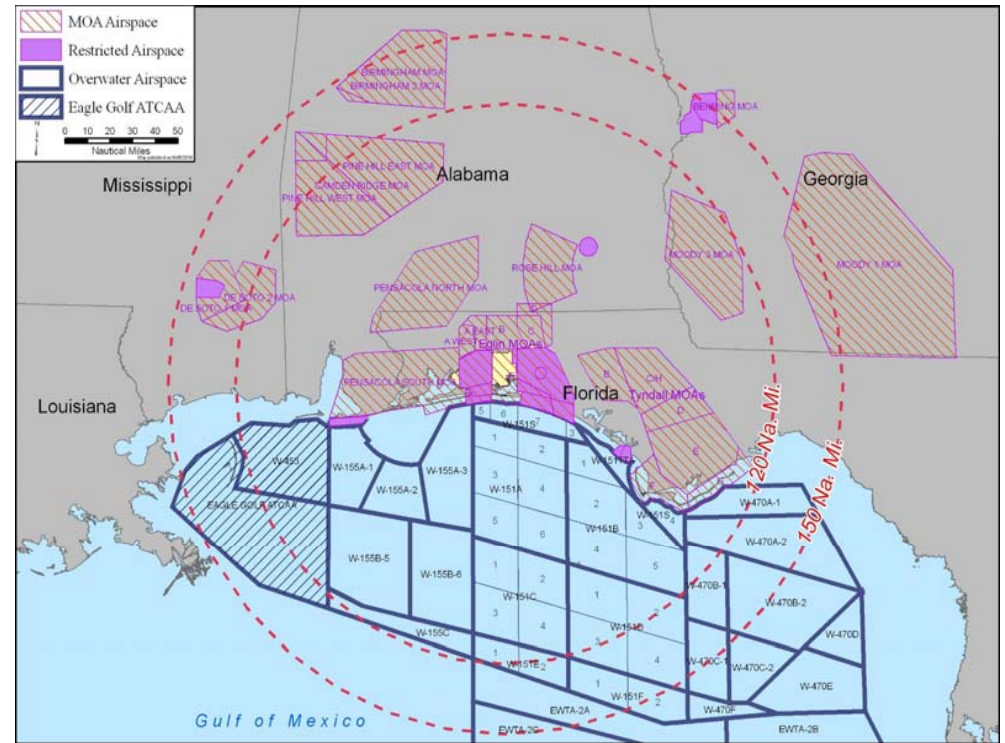
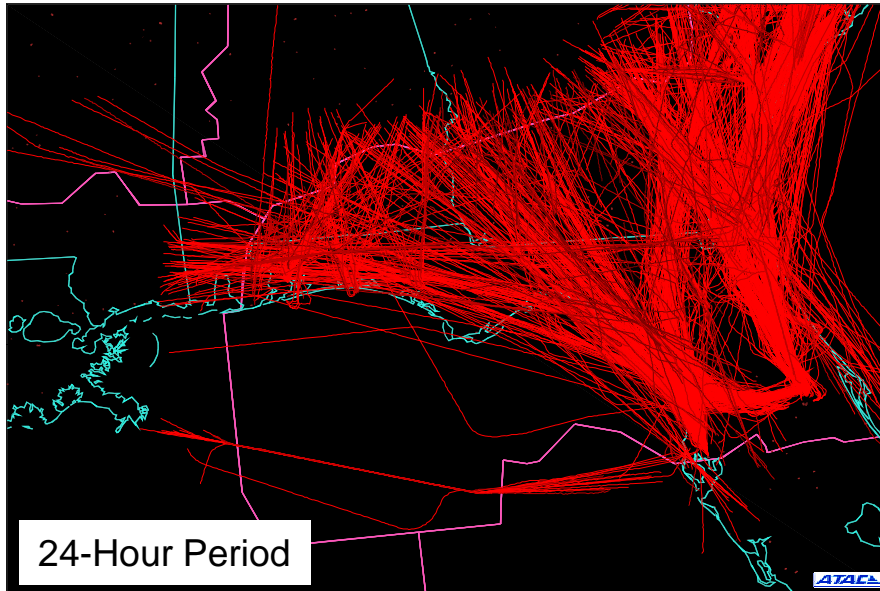
EGLIN WATER RANGE

AFMCG





GULF RANGE AIRSPACE STRATEGIC INITIATIVE



Increasing Airspace Demands From Both DoD And Civilian Operators

Gulf Regional Airspace Is A National Asset



SUMMARY



Air-Land-Sea Ranges are critical for testing weapon systems for tomorrow and training readiness for today

