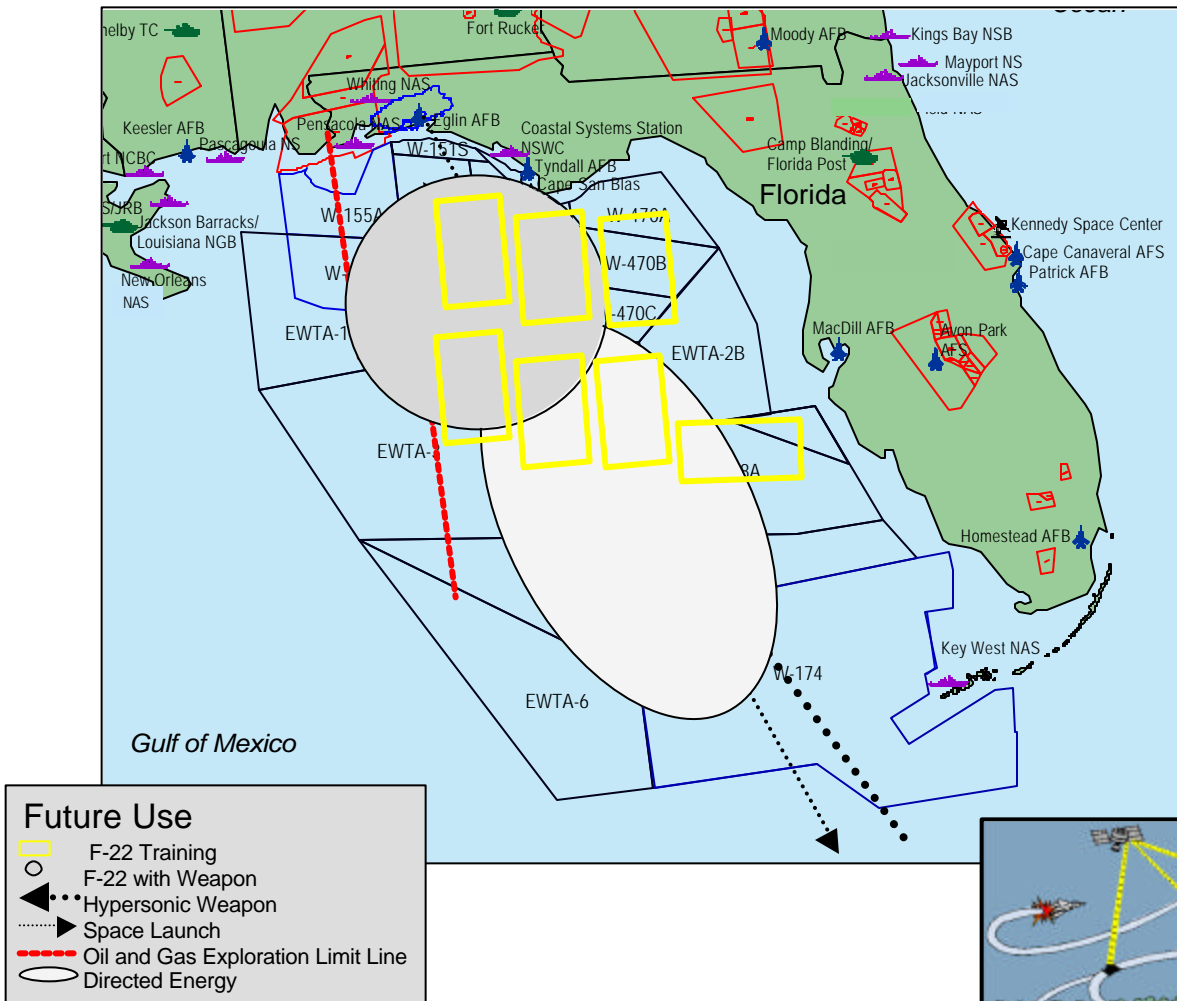


Joint Gulf Range:

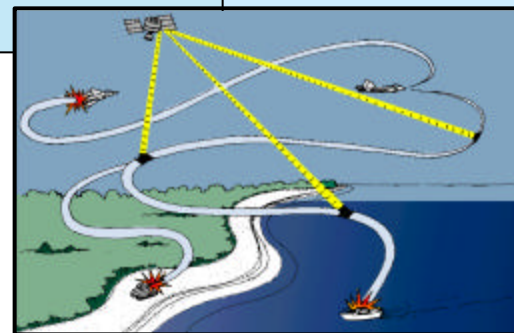
A Venue for Testing, Training, & Experimentation



Future Mission



Joint Tactics and Doctrine & Littoral Warfare



“New weapon system performance capabilities and new Warfighter doctrine, as detailed in Joint Vision 2010, will expand the demand to integrate multiple ranges, facilities and simulations.”

Joint Training and Test Range Roadmap



Background

- **Recent Initiatives:**
 - **DSB T&E Capabilities Study**
 - **JFCOM Category II Interoperability Training Improvement (Livex)**
 - **DPG Tasking, Interoperability Training**



DSB T&E Capabilities Study

- **“Limited infrastructure is a contributor to the lack of interoperability testing”**
- **“Develop a means to do joint interoperability testing on a realistic basis”**
- **“DOT&E take the initiative to establish processes and procedures with training activities to facilitate combining testing and training events”**



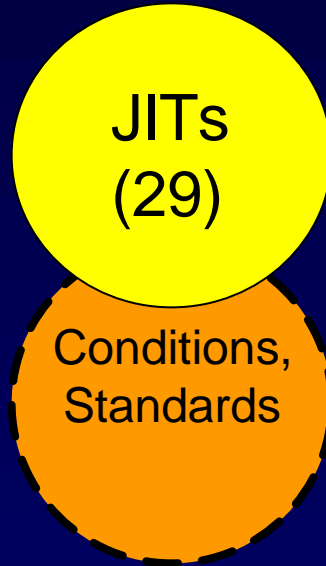
JFCOM Cat II Improvement Plan

- Premier Interoperability Events (Livexes)
 - JTFEX (Forced Entry, Time Sensitive Targets)
 - Roving Sands (Joint Theater Air & Missile Defense)
 - Red Flag (Joint Theater Air Operations)
- Robust all-Service participation
- Focus on Joint Interoperability Tasks (JITs)
- Reduce OPTEMPO (consolidate exercises)
- Venues for training, testing, and experimentation



JFCOM CAT II Program

CINC & Component Interoperability Req'ts



Forced Entry & TST

JTFEX 15 JITs
At Sea Atlantic or Gulf of Mexico

JTAMDO

Roving Sands 9 JITs
White Sands

JTAO & CAS

Red Flag 6 JITs
Nellis AFB & NTC

JFCOM concept accepted in principle by component CINCs, Aug '01



DPG Tasking (1)

- **“By Mar 02 USD (AT&L) [with others] will develop a plan to transform military training to better enable Joint Forces operations.”**
 - Ranges & devices modernized, sustainable
 - Interoperability measured and reported
 - Acquisition & logistics integrated
 - Distributed learning to reengineer training



DPG Tasking (2)

- **“By Mar 02 JFCOM, with Mil Depts, CJCS, and USD (P&R), will make recommendations for developing an effective mix of simulated and live operations.” [Addressing]:**
 - **Need for a Joint National Training Capability/Center**
 - **Level of training to be accomplished**
 - **Live training against dedicated OPFOR**
 - **Opportunities for building on existing ... Service training centers and ranges**



DPG (3)

- “USD (AT&L) should program S&T funds to support ADL and JPT. In addition, by Mar 02, Dir DOT&E and USD (P&R) will assess the feasibility of increasing cross-service and cross-functional use of testing and training ranges.”



Longer-Standing Initiatives

- **DSB Modeling & Simulation (1993)**
 - Everything but war is simulation
 - Link live, constructive, virtual sims
 - Training, testing, acquisition reform
- **OSD FI2010 “Linking Ranges” Initiative**
 - T&E range interoperability
- **OSD Joint Synthetic Battlespace Initiative**



Testing, Training & Experimentation Drivers

- Long-range weapons
 - Space for testing and training
- Interoperability
 - “Systems of systems” must be tested and trained in a common battlespace – must “rub up against each other”
 - Jointness = Integration (~~Deconfliction~~)
 - Train for Rapid, Decisive Operations

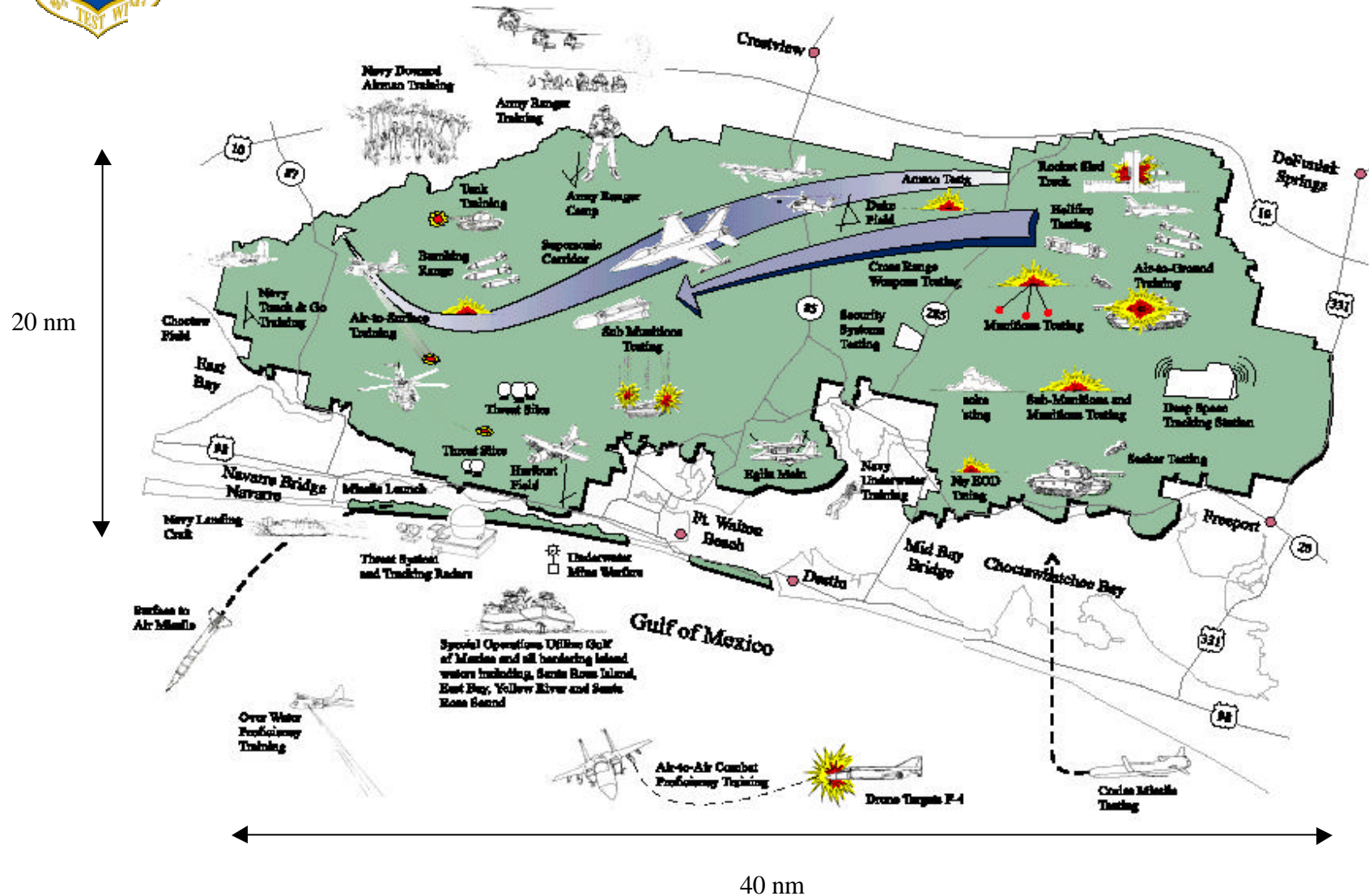


Gulf Range Capabilities

- **Littoral Battlespace (multiple live ranges)**
 - Air, Maritime, Land
 - Permits overlapping C4ISR systems
 - Long range (Eglin south to Key West)
 - Live ordnance (Eglin)
 - Potential Amphibious Ops (Eglin)
- **Venue for JTFEX (LANTFLT, maritime, littoral, with Army, Air Force)**
- **Venue for SOF training (separate or w/non-SOF)**



TST, JCAS, UAV, SPECWAR, STOM, CSAR/TRAP WITH LIVE FIRES





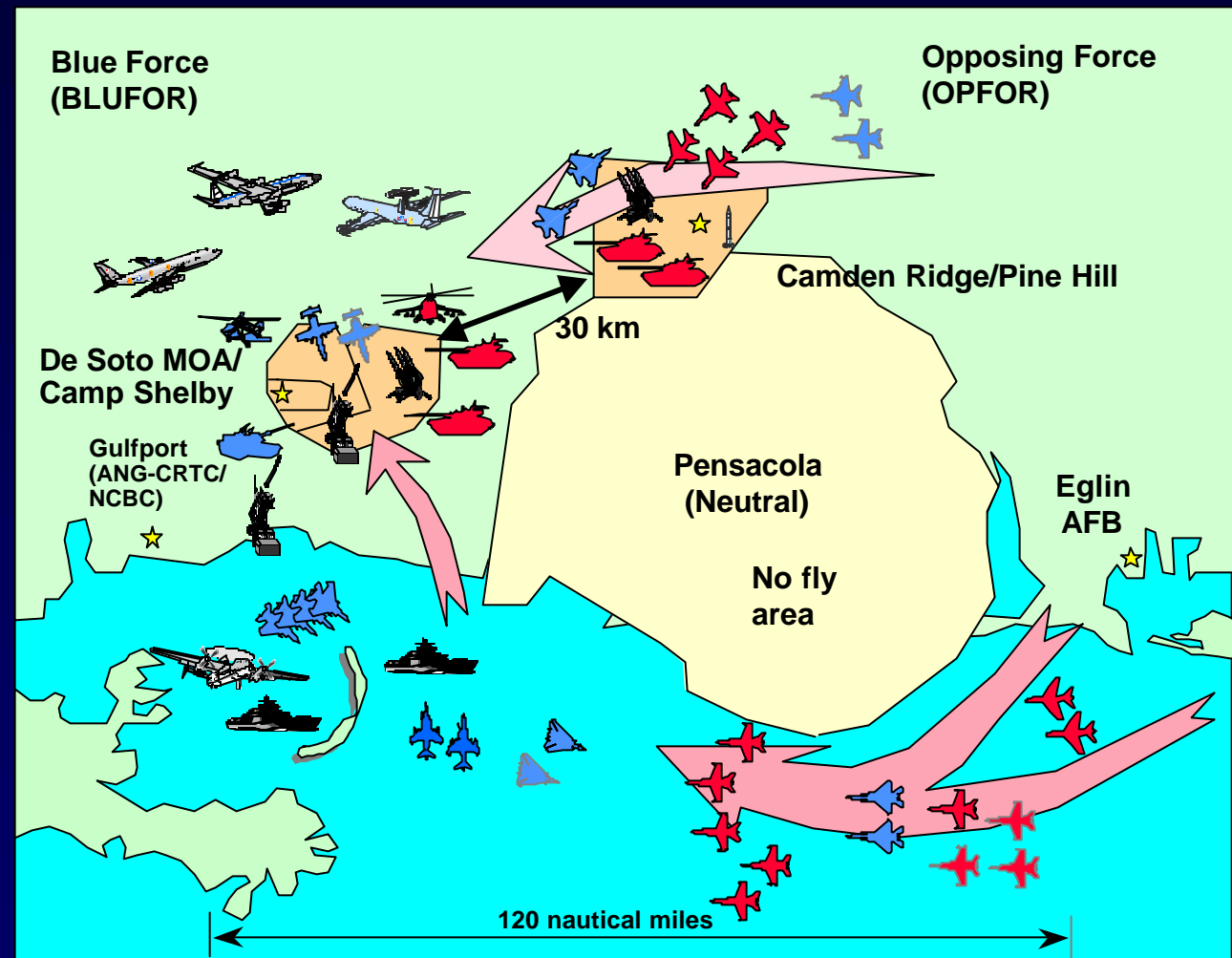
Joint Gulf Range Opportunities

- **Multi-Service participation**
- **Centralized schedule visibility**
- **Lead agency – Single POC for joint event coordination**
- **Instrumented forces**
- **Technical linkages for “ground truth” position, weapon-target interactions**
 - **Training assessment/feedback**
 - **Interoperability testing/analysis**



JCIET 2002 Evaluation

- Air defense/
air-to-surface
mission areas
- Supports objectives
 - USAF
 - USN
 - USA
 - USMC
 - SIAP-SE
 - JCMD
 - JC2ISR
 - U.K.





JCIET 02 Experiments

- Multi-functional Information Display Sys (MIDS) - USN (PMA-265)
- Transport Multi-Platform Gateway (TMPG) – Air Guard
- Next Generation SIGINT for Maritime Use – USN
- Network Centric Collaborative Targeting **ACTD** – USAF (AFSOC)
- Space Based Blue Force Tracking – Army Battle Labs
- Advanced Remote Unattended Ground Sensors – USAF (AC2ISR)
- Advanced Close Air Support System – USMC Warfighting Lab
- SHORAD & MEADS Target Classification System – Army, MEADS Program Office
- Ground to Air Passive Surveillance Silent Sentry 3 (GAPS) **ACTD** - SOUTHCOM & USN SPAWAR
- Joint Synthetic Battlespace (JSB) – USAF (CXC)
- Theater Missile Defense Interoperability **ACTD** – JFCOM
- **Plus 10 more...**



US Navy – Gulf Range Plans

- **CINCLANTFLT committed to expanded Gulf Range Use**
 - **Carrier Battle Groups**
- **USMC exploring Amphibious Ready Group training opportunities**
- **Robust maritime presence probable on frequent basis beginning FY04**



Challenges

- **Range utilization & priorities**
 - Cat I Service needs vs. Joint needs
 - T&E vs. training
 - Costs, esp. for T&E/MRTFB Ranges
- **Exercise design**
 - Cat I Service needs vs. Joint
 - M&S connections to Livexes
- **“Linkage” & infrastructure investments**



Assessment

- **We have no choice**
 - Must get better at interoperability
- **We must use ranges at hand**
 - Both training and T&E
 - Probably won't get more
 - Individually, none big enough or jointly accessible
- **JGR is doable (SWUS, East Coast similar)**
 - Stakeholders must participate & support



Joint Gulf Range Goals

- Maximize the capability of the unique air, land, and sea resources
- **Develop a Joint Complex-wide planning perspective**
 - Jointness: **scheduling (today)/planning (future)**
 - Interdependence: **range development and infrastructure**
 - Stewardship: **unique ecosystems entrusted to DoD**
 - Synergism: **of individual capabilities**
- Regional Perspective
 - Chesapeake and Gulf Ranges Linkage



Summary – Joint Perspective

- **Joint interoperability must improve (readiness)**
 - Design, testing, training challenges
- **For testing, training & experimentation, must do better with current resources/venues**
 - Limited ranges – for T&E and training
 - Limited live exercises – Service OPTEMPO
- **Periodic joint live exercises across linked ranges are the only feasible solution**
- **Adjustments to status quo required; not many**
- **Gulf Coast facilities are unique and critical**



Summary – T&E Perspective

- Gulf Ranges are particularly suitable for joint testing, training, & experimentation
- Eglin mission is testing
- Testing pays our bills (by law)
- Test v. training priorities unresolved
- Want to support warfighters

Our Core Purpose:

Serving Our Country...

Preserving Our Freedom...