Naval Air Systems Command
Point Mugu Sea Range

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Key Points

- Testing, including live fire, is essential to provide safe, effective weapons and equipment for our military personnel
- Training is essential to ensure military personnel are prepared for combat missions
- The Point Mugu Sea Range is a unique and irreplaceable national asset critical to testing DoD weapons systems, and training our sailors to go into harm's way and return safely
- STS1 would have significant impacts on the Sea Range mission

Point Mugu Sea Range

- Realistic sea operational environment
- 36,000 sq mi of controlled sea / airspace
- Extended to over 200,000 sq mi
- Extensive instrumentation
- Air, sea, littoral targets

Only DoD range for testing of & training with many weapons systems!

Video

Surface-to-Air

- Fleet surface-to-air missile operations incorporating live fire of advanced surface weapons
- Typically one to three surface participants against two targets; maximum of 7 shooters against 12 targets
- MDA Intercepts: Arrow, AEGIS/SM-3, etc.

Surface-to-Surface

- Test, training and experimentation ops involving surface launched weapon systems:
- Ship attack throughout the Sea Range
- Land attack: launch occurs on the Sea Range with impact at San Clemente Island, China Lake, or further inland

Air-to-Air

- Test, training and experimentation scenarios incorporating live fire of advanced air-to-air weapons
- Up to 4 shooters against 5 targets
- Fleet training scenarios include repeated stream raids

Air-to-Surface

- Aviation strike operations against both sea and ground targets.

- SNI is the only location in the Pacific at which SLAM test or training exercises can be conducted

Satellite and Strategic Missile Launch Support

- Launch area support (tracking, telemetry, comm., flight termination) for all ballistic missile and satellite launches from Vandenberg AFB

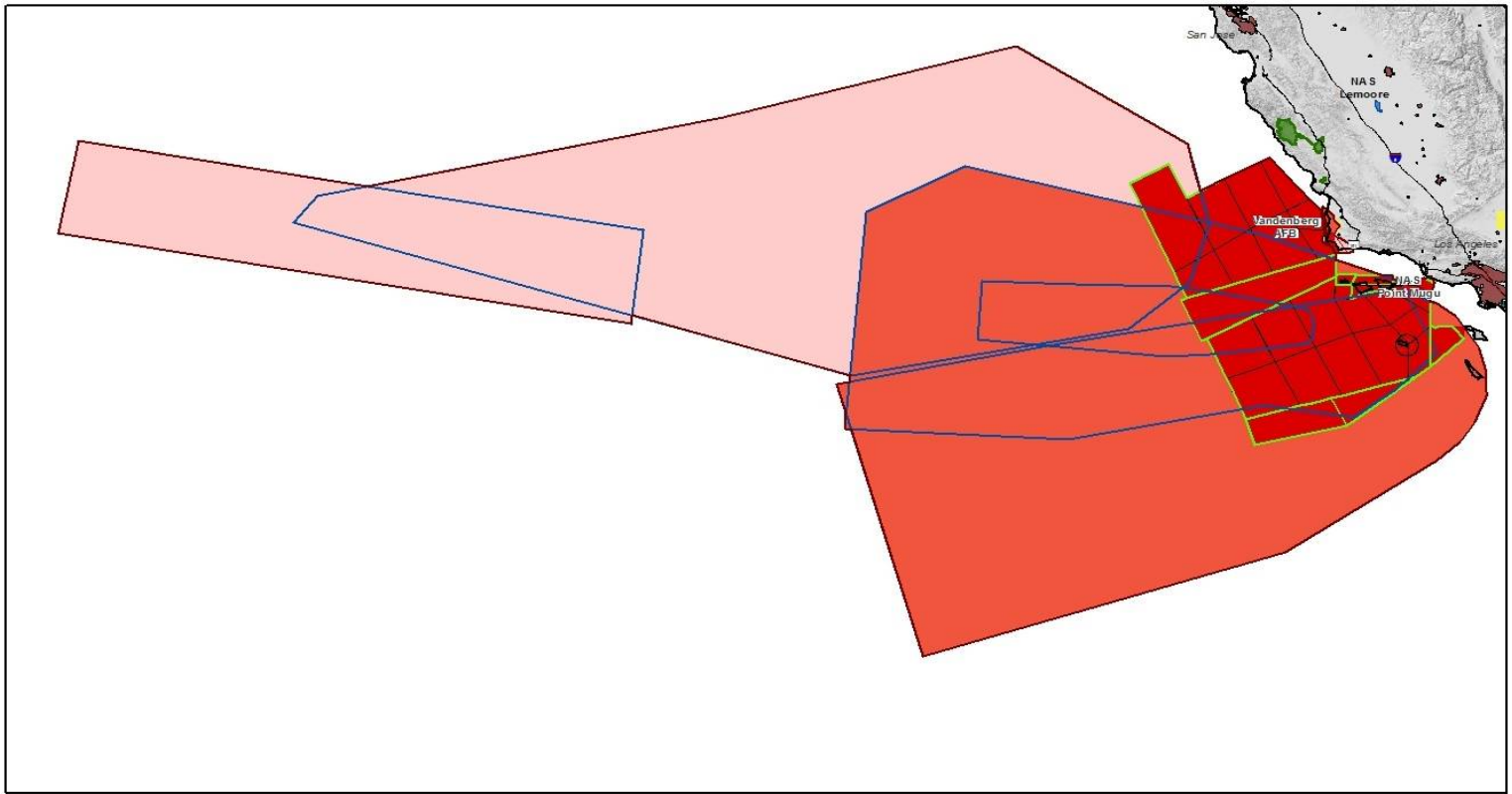
Flexibility Is Critical

- Many things can affect schedules
  - Availability of ships & aircraft
  - Unreliability of unproven systems
  - Weather
  - Non-participants in a hazard area
- Events often scheduled with multiple backups

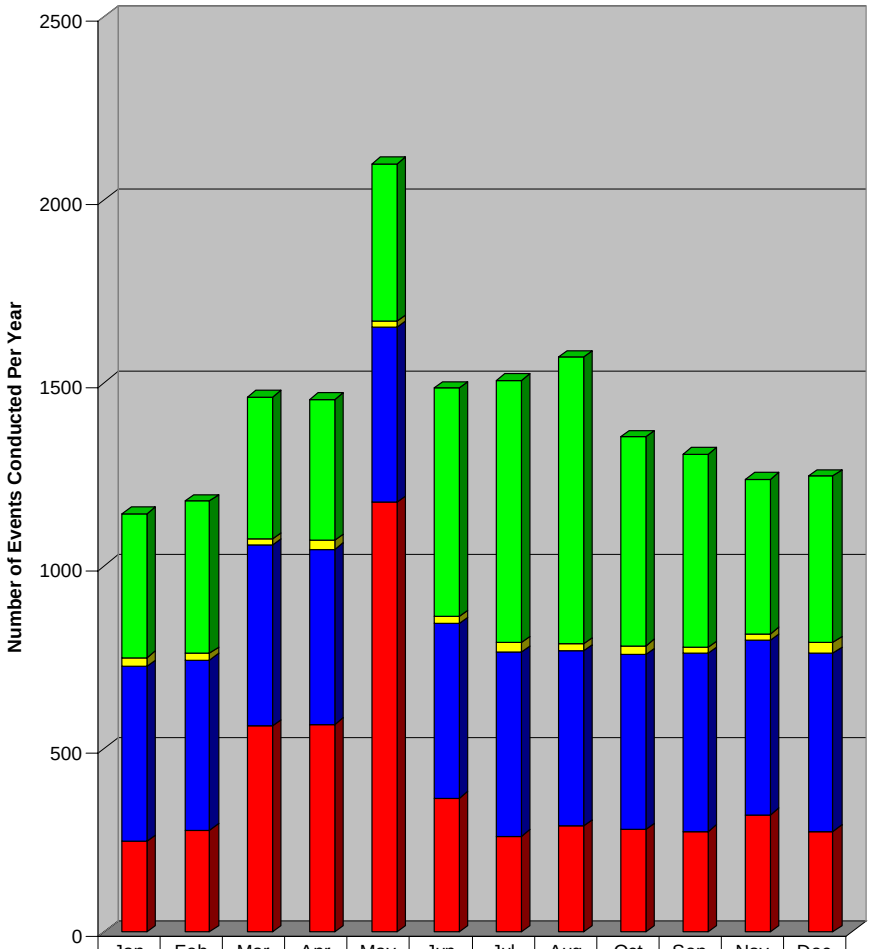
Senior Operators Impact Report

- Establish a quantitative baseline of the scope and intensity of military activities in the Sea Range
- Completed – November 2006
- Results…

Cumulative Sea Range Use



Number of Events



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Oct	Sep	Nov	Dec
RDT&E	393.7	417.7	388.6	385.5	430.5	623.3	717	783.5	571	527.8	423.2	453.5
Maintenance	24.75	17	17	24.75	17	19	26.75	19	24.75	17	17	30
Operations	477.5	464.5	494	477.5	477.5	477	502	477.5	477.5	486	477.5	486.5
Training	246.7	278.4	561.7	567.4	1174	365.8	261.3	290.2	279.2	274.7	319.7	274.2

- RDT&E, training and other events are conducted continuously throughout the year.
- Event scheduling is a function of multiple interrelated factors including ship availability and scheduling for both RDT&E and training events.
- May “spike”: one or more periods each year expected to exhibit above average usage due to these factors.
- Requirements for access are continuous, but not inherently predictable or uniform over time.

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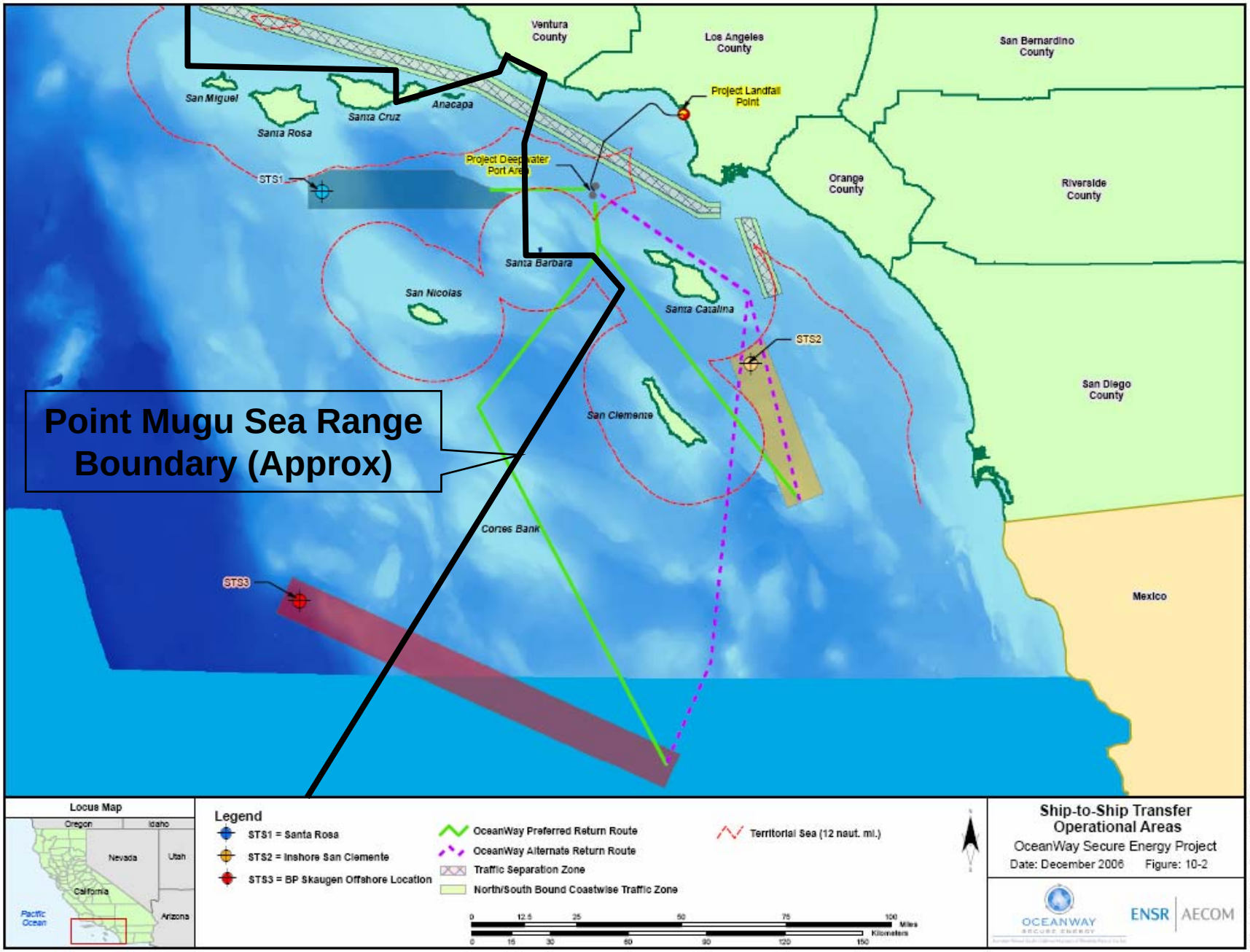
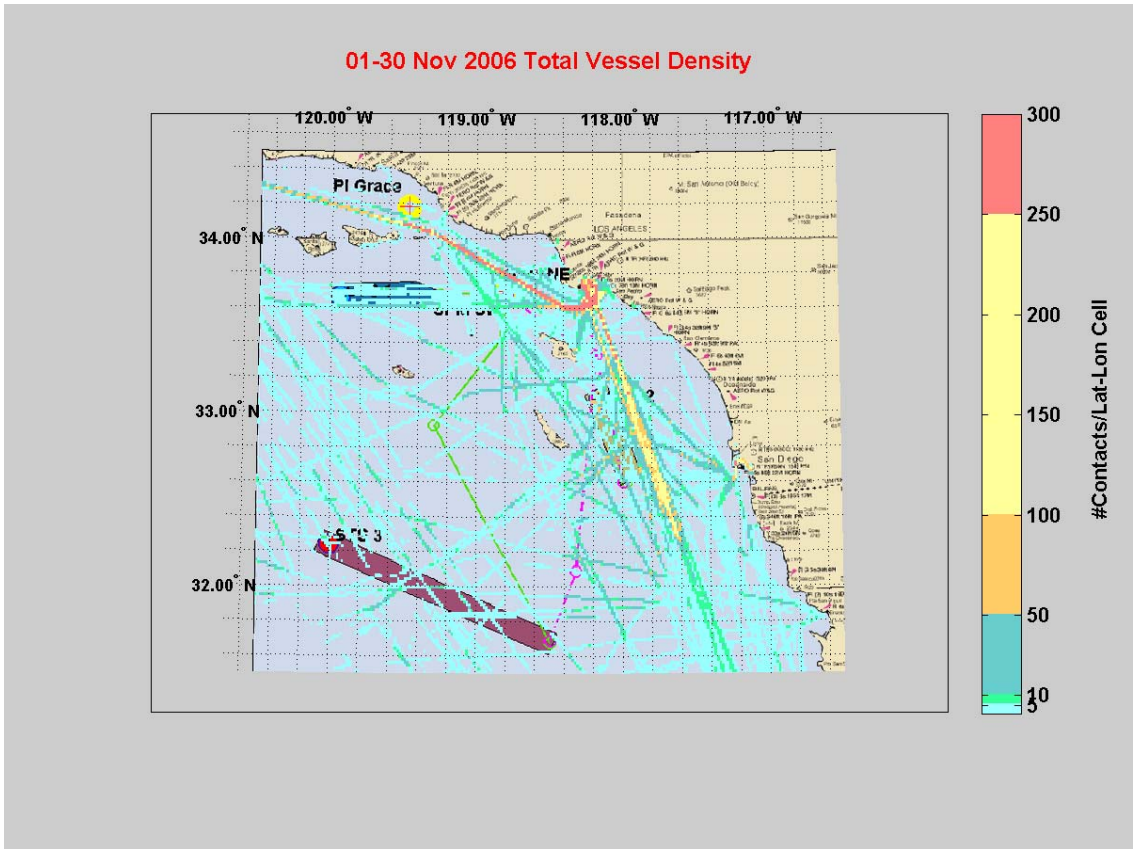

Point Mugu Sea Range Boundary (Approx)
Ventura County
Los Angeles County
San Bernardino County
Orange County
Riverside County
San Diego County
Mexico
San Miguel
Santa Rosa
Santa Cruz
Anacapa
Santa Barbara
San Nicolas
Santa Catalina
San Clemente
Cortes Bank
Project Landfall Point
Project Deepwater Port Area
STS1
STS2
STS3
Locus Map
Oregon
Idaho
Nevada
Utah
California
Arizona
Pacific Ocean
Legend
STS1 = Santa Rosa
STS2 = Inshore San Clemente
STS3 = BP Skaugen Offshore Location
OceanWay Preferred Return Route
OceanWay Alternate Return Route
Traffic Separation Zone
North/South Bound Coastwise Traffic Zone
Territorial Sea (12 naut. mi.)
0 12.5 25 50 75 100 Miles
0 15 30 60 90 120 150 Kilometers
Ship-to-Ship Transfer Operational Areas
OceanWay Secure Energy Project
Date: December 2006 Figure: 10-2
OCEANWAY SECURE ENERGY
ENSR | AECOM

STS Transfer Operations
(As Described in Oceanway Documentation)

- Operations would be conducted either drifting or slow steaming
- Duration: 23-30 hours
- Site Selection Criterion: “The use of an STS transfer location will minimize or avoid interruption to…USN operations…”

Existing Vessel Traffic



- Short duration
- Can be rerouted

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STS1 Impacts on Sea Range

- Critical test & training events will be postponed or cancelled
- Testing requirements for new & updated weapons systems will not be met
- Ships & aircraft will deploy without adequate training

Conclusions

- The Point Mugu Sea Range is a unique and irreplaceable resource and national asset.
- Scope of Sea Range activities routinely encompasses 36,000 sq mi and regularly requires access to over 200,000 sq mi of ocean area and airspace.
- Activities intensively and continuously occur on the Sea Range; over 17,000 separate events per year.
- Flexibility is critical to meeting test and training requirements
- STS1 would have significant impacts on the Sea Range testing & training mission