SEA BASED BATTLE LAB...
A UNIQUE OPPORTUNITY

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Maritime Strategy
Bi-Polar World Circa 1986

3RD FLEET
7TH FLEET
3RD FLEET
PERSONNEL:

U.S.  200,200
FORWARD DEPLOYED / BASED  113,400
TOTAL  313,600
Sea Lines Of Communication

Pacific Basin

Region of dynamic growth, rapidly expanding trade, instant communications
☆ The world’s seven largest militaries
☆ 60% of world’s population
☆ U.S. annual trade: $1.7 Trillion
☆ Pacific controls 36% of U.S. trade vs 20% controlled by Europe
☆ 2.5 million U.S. jobs linked to Pacific
Pacific Basin Strategy
Multi-Polar World 1996

7TH FLEET

3RD FLEET
Operational Employment of Sea-Based Joint Task Forces

Capabilities Packages

- Command & Control
- Deployed Forces
- Ready Forces
- Theater Forces
- Deployable Forces
Operational Employment of Sea-Based Joint Task Forces

PEACETIME PRESENCE

(Immediate)

CRISIS RESPONSE

(Tactical)

(Operational)

LRC

DUAL SCENARIO

PEACETIME PRESENCE

DUAL SCENARIO (PACOM)

MILITARY INTERVENTION

OOTW - NEO - HUMANITARIAN ASSIST

FORCES

FORCES

FORCES

FORCES

C2

OP

TAC

TASK GROUPS

CVTG

(Geographically Separated)

ATG/MEU

TASK UNITS

DEPLOYED FORCES

READY FORCES

THEATER FORCES

DEPLOYABLE FORCES
Operational Employment of Sea-Based Joint Task Forces

**PEACETIME PRESENCE**
- Immediate
- Tactical

**CRISIS RESPONSE**
- (Operational)
  - NAVAL TASK FORCE JFACC(SEA)
  - NAVFOR
  - DJFACC(ASHORE)

**LRC**
- (or NCC in MRC)
  - 2 CJTF
  - NAVFOR

**DUAL SCENARIO**
- 2 JCC
  - 2-3 CVTG
  - 3-5 CVTG
  - 2 ATF/MEF

**FORCES**
- THEATER C4ISR
- THEATER C4ISR
- THEATER C4ISR

**TASK GROUPS**
- CVTG
- ATG/MEU

**TASK UNITS**
- THEATER SSN’s VP’s
- THEATER SSN’s VP’s/IUSS
- THEATER C4ISR
- USAF WING
- USA DIVISION
- 1-2 USA CORPS
- JFACC ASHORE

**OP TAC**
- THEATER
- THEATER
- THEATER

**OPERATIONAL EMPLOYMENT OF SEA-BASED JOINT TASK FORCES**
- Geographically Separated
- THEATER SSN’s VP’s/IUSS
- THEATER C4ISR
- USAF WING
- USA DIVISION
- 1-2 USA CORPS
- JFACC ASHORE
Operational Employment of Sea-Based Joint Task Forces

★ Sea-Based, Mobile Forces
WILL MOST LIKELY BE THE FIRST ON-STATION FOR MILITARY RESPONSE OR DISASTER RELIEF.

★ Naval Command & Control Packages
AND FORCE PACKAGES MUST BE OPTIMIZED TO SUPPORT JOINT TASK FORCE OPERATIONS.
Operational Employment of Sea-Based Joint Task Forces

“Seamless Application of Joint Air Power”

CV-BASED ENABLING JFACC

- UNAUGMENTED
  - COMTHIRDFLT
  - BG JTFEX
  - 1 CVBG ARG
  - 1 USAF CAW
  - 180-200 SORTIES

- AUGMENTED
  - CINCPACFLT
  - TANDEM THRUST
  - 2 CVBG
  - 1 ARG
  - 1 USAF WG
  - 400 PLUS SORTIES

JCC SEA-BASED JFACC

- COMSECONDFLT
  - STRONG RESOLVE
  - 2-3 CVBG
  - 1-2 ARG/MAW
  - 2 USAF WINGS
  - 800 PLUS SORTIES

JFACC ASHORE

- USAF AGOS
  - BLUE FLAG
  - 3-5 CVBG
  - 2 ARG/MAW
  - 2 USAF WINGS
  - 1400 PLUS SORTIES

USMC 2ND MAW
ROVING SANDS 95

SEA BASED JFACC CONTINUUM
Operational Employment of Sea-Based Joint Task Forces

- CENTCOM
  - NAVCENT
    - C5F AOR
    - NAVCENT AOR
    - MIDEASTFOR TASK UNITS
    - IO AOR
    - SW ASIA AOR
    - TEAMWORK
    - JIATF EAST/WEST
  - PACFLT
    - C7F AOR
    - SE ASIA AOR
    - RIMPAC
    - STAFF TALKS
    - PANAMA CANAL
    - UNITAS
    - TEAMWORK
    - JIATF EAST/WEST
  - TYCOM
    - AOR
    - KOREAN AOR
    - STAFF TALKS
    - PANAMA CANAL
    - UNITAS
    - TEAMWORK
    - JIATF EAST/WEST
  - LANTFLT
    - C3F AOR
    - TYCOM
    - AOR
    - KOREAN AOR
    - STAFF TALKS
    - PANAMA CANAL
    - UNITAS
    - TEAMWORK
    - JIATF EAST/WEST
  - ACOM
    - C2F AOR
    - TYCOM
    - AOR
    - KOREAN AOR
    - STAFF TALKS
    - PANAMA CANAL
    - UNITAS
    - TEAMWORK
    - JIATF EAST/WEST
  - EUCOM
    - C6F AOR
    - TYCOM
    - AOR
    - KOREAN AOR
    - STAFF TALKS
    - PANAMA CANAL
    - UNITAS
    - TEAMWORK
    - JIATF EAST/WEST

- SOUTHCOM
  - NAVCENT
  - PACFLT
  - TYCOM
  - NAVCENT
  - LANTFLT
  - AOR
  - NAVCENT
  - TYCOM
  - NAVCENT
  - TYCOM
  - NAVCENT
  - TYCOM
Operational Employment of Sea-Based Joint Task Forces

- ACIXS
- JECG
- BIF CMD
- ATG CMD
- MNF CMD
- KHTG CMD
- CFACC CMD
- BROADCAST
- SSR-1 XRTA

- INDYTG
- MAGS
- OPFOR
- MNF
- BI-LAT
- ASHORE

- C3F
- CTF170
- JECG
- 512 kbps

- KHTG
- 128 kbps (256 kbps)

- EATG
- 192 kbps

- MNF

- POTS
- STEL
- KY-68
- JDISS
- SIPRNET

- GCCS
- NITESTESS
- EMAIL
- CTAPS
- JMCIS
- JFLEX
- MCPT
- TAMPS

- MNF FLAG PRIVACY
- BIF EHF PRIVACY

- Operational Employment of Sea-Based Joint Task Forces
Sea-Based Battle Lab
Rapid Prototyping

Distributed Collaborative Planning in RIMPAC '96
Experimental Fleet Projects

“The military advantage goes to the nation who has the best cycle time to capture technologies that are commercially available, incorporate them in weapon systems, and get them FIELDED FIRST.”

Honorable Paul G. Kaminski
RIMPAC 96

MULTI-NATIONAL FORCE
- USN, AUS, CAN, ROKN, CHILE
- RADM OXENBOULD
- 28 SHIPS, 4 SUBMARINES, 148 AIRCRAFT, 19,000 MEN
- USAF AND ARMY SUPPORT

BILATERAL FORCE
- USN AND JMSDF
- RADM ELLIS
- 21 SHIPS, 3 SUBS, 126 AIRCRAFT, 11,000 PEOPLE

20 MAY - 21 JUNE
LOCATION: the SBBL can Leverage the capabilities of the Nation’s Core Facilities

Innovation & Technology Assimilation

- Sea Based Battle Lab
- SPAWAR Advanced Concepts Site
- Battle Management Integration Lab
- Service Ranges & Test Facilities
- Maritime Battle Center
- HQS Newport
- JBC Joint Battle Center
- Silicon Seaport
- Warfare Centers
- Industry
- Academia
- Service Labs

Academia
Industry
SBBL CAPABILITIES

• Sea Based Battle Lab: Cooperative effort-NAVSEA, Fleet, SPAWAR
  – 3rd Fleet Command Ship (USS CORONADO)+Fleet Assets
    • JCC Capabilities; 3 Staffs; Frequently @ Sea; Currently Unique
    • DARPA funded Decision Making Ergonomics
    • SBBL Project Spaces; Accommodations for Technicians
    • Extensive C4I capabilities
    • Core Architecture vs. SBBL Architecture=Temp MODs
    • Training remains C3F primary mission=fleet feedback
    • Director SBBL ADDU as PD 13B=SPAWAR procurement lines
    • We have a vested interest: CJTF & C3F relieves C5F as afloat warfighter
  – Fast track to Fleet
  – Transition, Rework or Trash: Experiment is still a success!
  – Demand for operational experimentation exceeds capacity
COMTHIRDFLT - USS CORONADO - C4I

DATA LINKS
LINK 11/JTIDS/ /DWTS/MDU
SIPRNET/NIPRNET
TADIXS/OTCIXS/BGIXSII/ VIXS
ADSI/LAWS/JTAGS/JSTARS/
JTIDS

C2
GCCS
JMCIS 3.1/23TV
CTAPS HOST/REM
COMPASS
GROUP WARE

INTEL
JWICS
JDISS
JATACS
CUB

SATCOM
SHF SATCOM
CHALLENGE ATHENA
UHF SATCOM
EHF SATCOM (1)/(2)
GMF

INTEL
JWICS
JDISS
JATACSCUB

SATCOM
SHF SATCOM
CHALLENGE ATHENA
UHF SATCOM
EHF SATCOM (1)/(2)
GMF

TACTCOM
NAVMACS II HFRG
SINGARS
SA-2112V(1)(4)
ADNS/ATM
GBS/JBS/DMS

MISC
SNAP III
RADIANT MERCURY
MCIXS
#2 PBX & CIC

completed
planned

METOC
TESS/NITES
SMQ-11
JOINT OPERATIONS CENTER

Folding Wall Stowage (54" panels)

Foldin g Leaf

Foldin g Leaf

Wall Stowage (54" panels)

Flag Briefing Theater

Pull down projection screen

Operation Planning Team

War Room

Crisis Action Team

Computer}

JMCIS Equipment

- 5 HP 712s (N)
- 1 ext CD (N)
- 5 19" monitors (N)
- 4 37" monitors (N)
- 1 Laser Jet 4 (N)
- 1 HP 660C (N)

Printer Stand
HP LJ4
HP 660C

Folding Wall Stowage

UPS Rack

Pull down projection screen

INFORMATION TO DECISIONS: ORDERS OUT
SBBL PROJECT PACES

** JOINT IMAGERY PROCESSING NAVY (JSIPS-N)
** TACTICAL REAL-TIME TARGETING SYSTEM (TARTS)
** COMMAND POST OF THE FUTURE
** ENHANCED COMBAT OPERATIONAL CENTER (MCWL & ELB)
** JOINT MEDICAL CENTER
** CMOC

** APERTURE TESTBED
** EXPERIMENTAL TECH CTRL TESTBED
** HM&E MODIFICATIONS
** CRITICAL POWER

JTF OPERATIONAL PLANNING SPACES (SUPERSTRUCTURE)

JOINT COMMUNICATIONS CONTROL CENTER

ISR

SBBL PROJECTS SPACES

JTF OPERATIONAL PLANNING SPACES (WELL DECK)
Accelerating Deployment of New Technologies

**Sea-based JTF Deployment**

"Prime Time"

- operational documentation, training, and logistics support

**Maturing Technologies**

with beta-level documentation, targeted training, logistics support & exit strategy

**Developing Technologies (6.3)**

needs warfighter input & Concept of Ops
(beta-level technology, alpha-level support)

**Emerging Technologies**

needs warfighter interaction
(alpha-level technology)

**Applied Research (6.2)**

needs warfighting concept

**Basic research (6.1)**
★ Technology enables innovation in warfighting

The “Critical Mass”

A: COMMAND
B: BATTLE STAFF
C: INTEGRATED STAFF CELLS
D: SUPPORT FUNCTIONS
Sea-Based Battle Lab
JTF Rapid Prototyping

INNOVATION & REQUIREMENTS

SIXTHFLT
SEVENTHFLT
USMC CJTF’s
SECONDFLT
THIRDFLT
FIFTHFLT

DEVELOP PROTOTYPE

SYSCOMs
CNO/CMC
CINCs
MCTSSA
ARPA
NSAP
NRAD

FIELDING & EVALUATION

JWID & JTFEX SERIES
Sea-Based Battle Lab
JTF Rapid Prototyping

• Identify good ideas
• Use group staff centers of excellence
• Assign projects
• Maintain configuration control
• Monitor success
• Validate and recommend
• Foster Joint Ventures
  DARPA, NRaD, ONR, ONI, NAVSECGRU
• Integrate results into group training
SBBL-Project Examples

- Submarine Mast Detection System
- Satellite TADIL-J
- Joint Targeting Toolkit
- JFACC After Next
- TARTS/PST/MERS
- ADSI
- COMPASS
- ECOC
- TADMUS
- Info Management
- Wireless Info Xfer
- GCCS-M
- HF- HDR-Compression
- JWID
NOW THAT YOU MENTION IT, THERE IS A RESEMBLANCE...

PROTOTYPE OF THE GALAXY CLASS JOINT TASK FORCE COMMAND & CONTROL SHIP