Defense Support of Civil Authorities

DSCA

This brief is UNCLASSIFIED

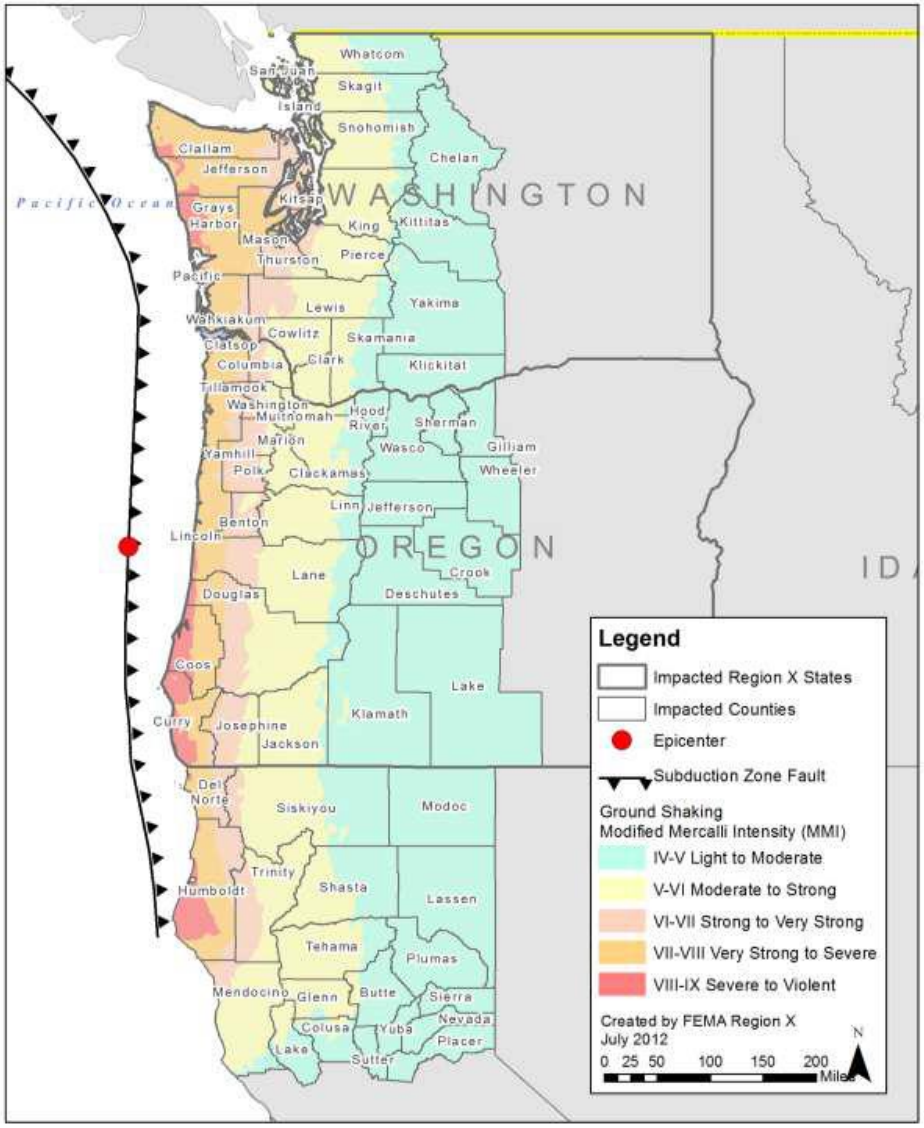
DSCA Mission

- Mission Statement – When directed, provide resources ashore or afloat in order to safeguard Navy assets and conduct DSCA operations

- Respond quickly and effectively to the requests of Civil Authorities to save lives, prevent human suffering and mitigate great property damage under imminently serious conditions

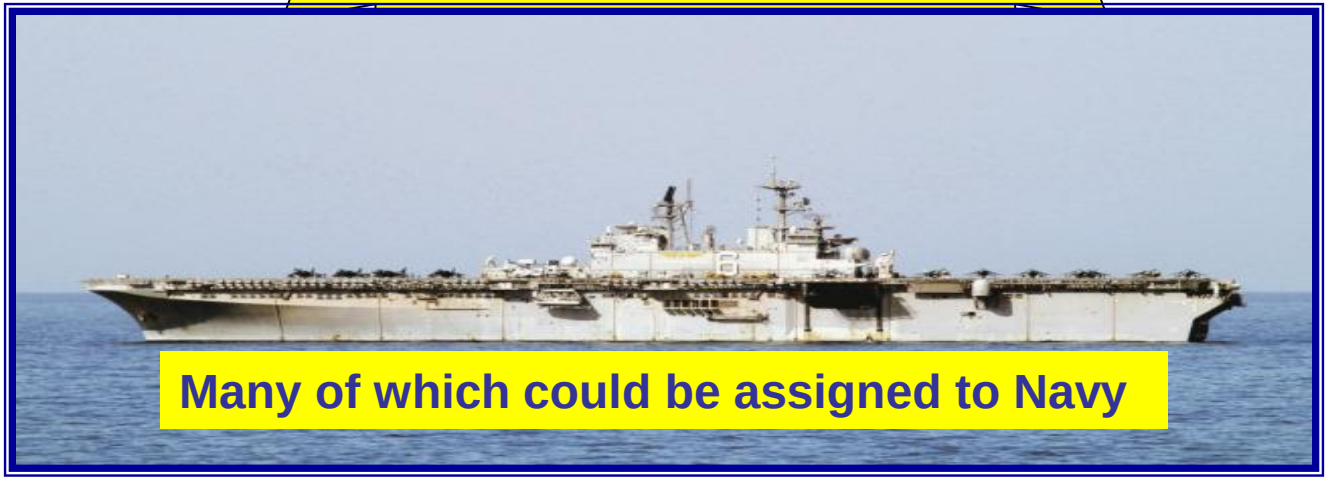
West Coast DSCA Challenges

- **Disaster Timing**
  - No-notice / short notice onset
    - Earthquake, fire, flood, volcano, tsunami
- **Geography**
  - Large time-distance issues
  - Isolated areas, severe terrain, limited coastal access (Post event)
- **High-Visibility Targets**
  - Population density (~7M people in WA alone)
  - Hi-visibility / hi-impact targets (MHS/D and DSCA issue)



Mission Assignment

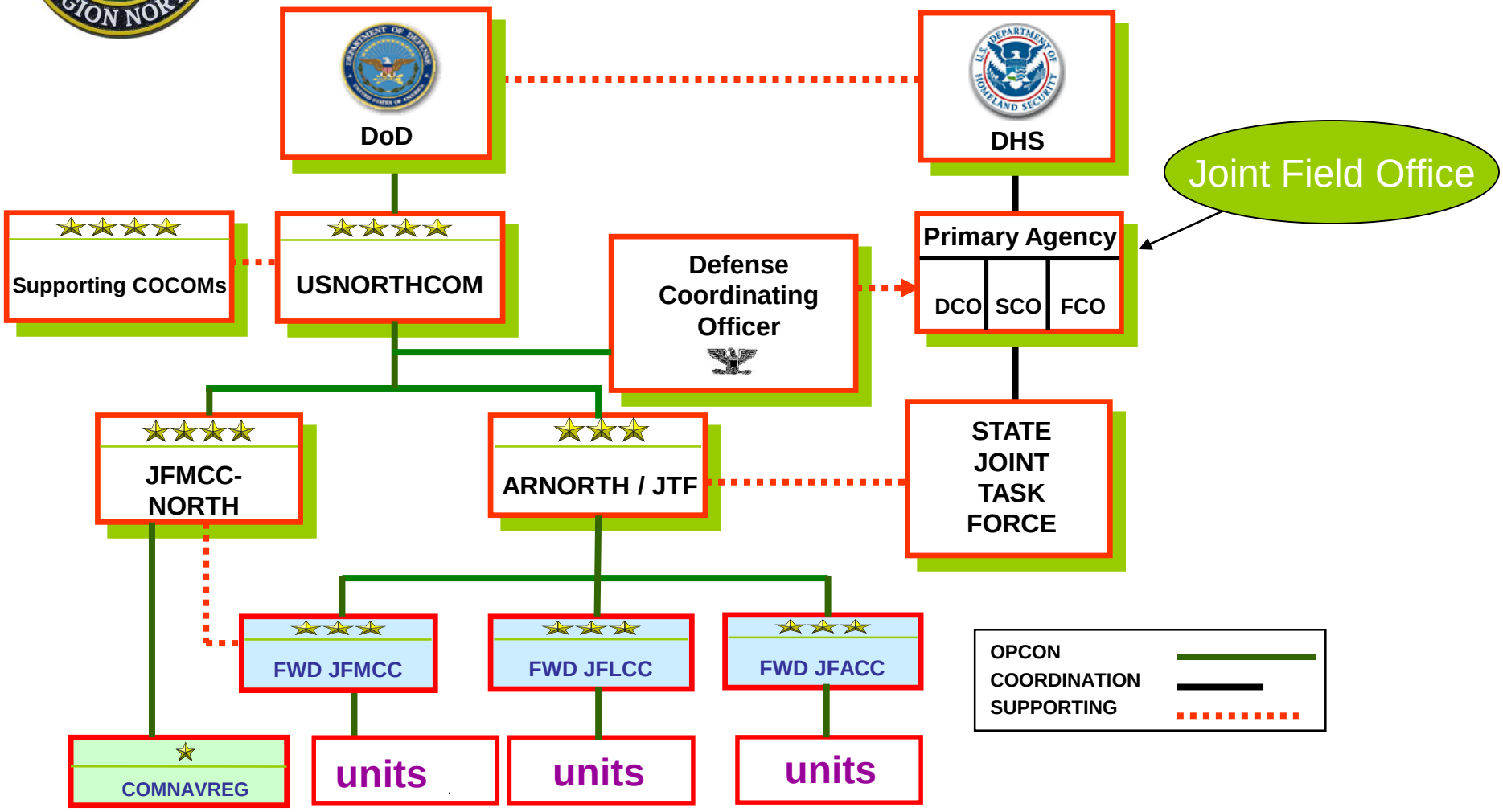
Pre-Scripted DoD Mission Assignments 15 Emergency Support Functions



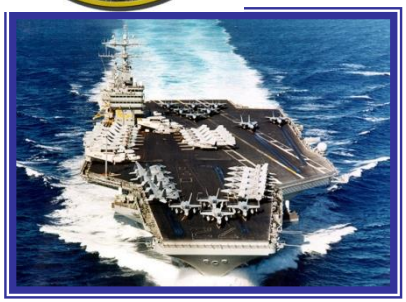
DSCA Utilization of Navy Bases/Stations

- Base Support Installation (BSI)
  - Installation for DoD use to provide shelter, staging, etc. usually for a Joint Task Force
  - Not usually reimbursable from other Federal Agencies
- Incident Staging Base (ISB)
  - Formerly National Logistics Staging Area (NLSA)
  - Provides support to Federal Agencies for staging of relief supplies or shelter for relief workers
  - Reimbursable from Federal Agencies
- Coordination - when requested by NORTHCOM
  - USFF coordinates with CNIC/NAVREG to determine installation availability
  - USFF coordinates with CNO (acting for SECNAV) for final approval
  - USFF then releases an EXORD to appropriate Region Commander to provide the facility within the limitations/capabilities of the installation

DSCA Command Relationships



CSG Capabilities



Embarked CSG Air Wing

12 x FA-18F
12 x FA-18E
20 x FA-18C
4 x EA-6B
4 x E-2C
3 x HH-60H* – 10 pax
4 x SH-60F* – 2 pax
4 x SH-60B* – 2 pax
4 x C-2A

* 3000 lb lift capability

Other CSG Aircraft

4 x SH-60B
2 x MH-60S

Surface Craft

10 x RHIBS

- **Carrier Strike Group:**
  - CARRIER AIR WING (CVW) – 11 Helos
  - (CG) – 2 SH-60B
  - (DDG) – 2 SH-60B
  - (DDG)
  - (T-AOE) – Logistics w/2 MH-60S
- **AIRLIFT Capabilities:**
  - Helicopters employed daily
    - 75,000lbs of lift per cycle (multi cycles/day)
    - 75 passengers per cycle
    - Search and Rescue (SAR) – day and night
  - Fixed Wing C-2 “COD” available for logistics and medical evacuation.
  - Other air wing aircraft for SAR/damage assessment
- **Medical Capabilities:**
  - LIN – 43 Bed Hospital with OR and ICU
  - All other ships have 2 bed medical facility

Navy Rotary Wing

- MH-53E $15,190 per hr
- MH-60S $4,452 per hr
- HH-60H $5,544 per hr
- SH-60B $4,478 per hr
- SH-60F $4,891 per hr
- VH-60N $18,991 per hr

Helicopter Firefighting Support

- Firefighting capability evolved

Incident Awareness and Assessment

- P-3C Orion
- May need Tactical Common Data Link
- May need LNO
- Cost: $8,160 per hr

ESG Capabilities

Embarked ESG Squadron:

8 x CH-46: 4000lb lift
4 x CH-53: 32000lb lift
4 x UH-1: 1500lb lift
4 x AH-1: damage survey
6 x AV-8B: damage survey

Other Aircraft in ESG

4 x SH-60B – 2000lb lift

Surface craft:

5 x Landing Craft (Air Cush)
1 x Utility Landing Craft
12 x RHIBs (small boats)

- **Expeditionary Strike Group:**
  - Marine Expeditionary Unit (MEU) – 2100+ Marines
  - Aviation Combat Element – 24 helos, 6 Harriers
  - (LHD) – 3 LCACs, Helos
  - (LSD) – 2 LCACs
  - (LPD) – LCU/Command and Control
  - (CG) - 2 SH-60B
  - (FFG) – 2 SH-60B helos
  - USCGC (WHEC 724)
  - (DDG)
- **LIFT Capabilities:**
  - Airlift: 132,000 lbs cargo or 340 persons per cycle
  - Surface Lift capability
    - 5 LCAC – 75 ton lift at 40kts, 25 pax per LCAC
    - 1 LCU – 170tons cargo at 11kt (400+ persons)
    - 4 X 10 and 8 X 7m RHIBs for personnel/cargo lift
- **MEU Capability for Humanitarian Assistance:**
  - 2 water purifiers with 2400gal storage each
  - Earthmovers – forklifts, excavators, tractors
  - Motor transports – trucks, trailers, HMMWV
- **Medical Capabilities:**
  - 46-68 Bed Hospital with OR and ICU
  - 123 bed overflow capability

Amphibious Assault Ship (LHA/LHD)

- Steam propulsion
- 800+ ft length
- Crew ~ 1100
- 9 Helo Landing Spots
- 2 LCUs (both classes)
- 1 (LHA)/3 (LHD) LCACs
- Note: Up to 4 LCUs can be embarked in an LHA if no LCACs are onboard

LHA/LHD Medical Mission Capability

- Medical Staff
- 17 personnel
  - Senior Medical Officer, Junior Medical Officer, Independent Duty Hospital Corpsman, Medical Admin Officer
  - HMs: Lab, OR, Prev.Med, BioMed, Aviation, General Duty Corpsman
- Basic Primary Care
  - Daily Sick Call
- Basic Resuscitative Care
  - First Responder, Mass Casualty

- Capability
- Maximum Surgical
  - 4 Operating Rooms with medical personnel augmentation
- Patient Beds
  - -15 Intensive Care Unit/45 Routine Care with medical personnel augmentation
- Supply Limitations
  - -20 surgical packs
  - -Limited medications
- Stabilize and Transport

- Fleet Surgical Team
- 13 personnel
  - OIC, Medical Regulating Control Officer
    - Medical Regulating
    - Tracking
  - Surgeon, CRNA, OR Nurse, ICU/Ward Nurse
  - HMs: OR, ICU, X-Ray, Blood Bank, RESP
- Basic Surgical care / intervention

- Capability
- Secondary emergency surgical cases
  - Triage ashore
- Primary Care / relatively healthy individuals
  - Musculoskeletal injuries
  - Respiratory / diarrheal ailments
  - Dehydration, Sunburn, Cuts, Abrasions

LHA/LHD Medical Constraints

- Must maintain:
  - Surgical Capability – First Responder – Emergency Medical Triage
  - Robust Sick Call
- Personnel Limitations
  - 1 General Surgeon, 1 Certified Register Nurse Anesthetist, 1 Operating Room Nurse, 1 Intensive Car Unit/Ward Nurse
  - Supporting Hospital Corpsman
- No specialty physicians (Internal Medicine, Cardiac, Pulmonary, Nephrology)
- Supplies
  - Authorized Medical Allowance List (AMAL) was designed to care for a relatively healthy population
  - Cannot treat/sustain patients with significant co-morbidities (Diabetics, Congestive Heart Failure, Renal insufficiency, Peripheral Vascular Disease, Stroke, etc.)

Dock Landing Ship (LSD)

- Specifically designed to operate LCACs
- Diesel propulsion
- Crew ~ 420
- 2 LCACs (LSD 49 class)
- 4 LCACs (LSD 41 class)
- 1 LCU dependent on loading
- 2 Helo Landing Spots
- Medical Capbaility
  - General Medical Officer, Independent Duty Hospital Corpsman, General Hospital Corpsman, Dental Officer and Technicians
  - 6 Beds

Cost per day:
LSD-41 ~$40,028
LSD-49 ~$41,296

Landing Platform Dock (LPD)

- Diesel Propulsion
- Crew ~353
- 2 LCACs
- 2 LCUs
- 2 Helo Landing spots
- Medical Capability:
  - General Medical Officer, Independent Duty Hospital Corpsman, General Hospital Corpsman, Dental Officer and Technicians
  - 6 beds, 1 isolation bed

Landing Craft Utility

- Can carry 180 tons of equipment
  - Requires 9-ft draft
  - More self-sufficient than LCAC
  - 135-175 ft long

Landing Craft, Air Cushioned (LCAC)

- 60 - 75 ton payload
- Fuel Capacity: 5000 gallons – uses an average of 1000 gallons per hour
- Maneuvering considerations:
  - Requires 500 yards or more to stop
  - 2000 yards or more turning radius
- Approx 200 mi range

Cost per day:
~$48,892

Disaster Recovery Team Capabilities

- Self-sustaining 30 days, 5k MREs, 5k water bottles (minus fuel)
- Road clearing
- Debris hauling
- Limited power generation
- De-watering
- Emergency water distribution
- Personnel and material transportation
- Structural inspection
- Project planning
- Contingency construction
- COMMS: HF/VHF (PRC 117/PRC 119), SAT and CELL phones, wireless computers, XTS 5000
- Equipment: (3) MTVR trucks, (3) HMMWV, RT forklift (extendable boom), RT loader (fork and bucket attachments), welder, Water Buffalo, (3) dewatering pumps, (2) generators (10kw, 15kw), light plant
- 3 TRICONS (Steel Shipping Containers – 3 = 20 Feet length), which include the following
    - Chain and circular saws/absorbents/rope/sandbags/wrecking and crow bars
    - Axes/shovels/hatchets/sledgehammers/bolt cutters/nails/absorbent/PPE
    - Repair kits for 2 and 4-man crews (Mechanic/Builder/Electrician)
    - Medical kit, (3) MGTPS tents, (26)cots

Amphibious SeaBees Disaster Relief Teams

- 3 Teams, 36 personnel
- Team 1
  - Officer in Charge plus 11 personnel
  - Front Loader, Dump Truck, HMMWV, Floodlight
- Team 2
  - Officer in Charge plus 11 personnel
  - Rough Terrain (RT) Forklift, Flatbed Truck, HMMWV, Welder
- Team 3
  - Officer in Charge plus 11 personnel
  - Flatbed Truck, 2 Generators (10/15 KW), HMMWV, Water Bull

Navy Beach Group Capabilities

- Communications and Planning Element
- 1250 person tent camp with all associated equipment. Mass shelter, feeding and hygiene.
  - Scalable from 250 to 1250 individuals
- 2 Debris Clearance Teams (Dozer, Low-Boy, MTVR, 2 HMVR, Fuel Truck, Water Bull)
- 10 Water Bulls for water distribution to include transportation capability
- 2X ROWPU (Reverse Osmosis Water Purification System)
- 3 LCUs (Landing Craft Utility)
- 3 LCMs (Mechanized Landing Craft)
- 3 Navy Lighterage (NL) barge ferries
- 3 Beach Party Teams
- 2 MPF Utility Boats (Maritime Prepositioning Force)
- 4 LCAC (Landing Craft Air Cushion)
- Communications & Computer Package (LAN, SATCOM, LOS, HF, VOIP)
- Amphibious Bulk Liquid Transfer System (Fuel or Water)

Staff Support

- Staff Liaison augments
  - Mission Analysis
  - Plan Development
  - Force Asset Generation
  - Execution Planning

Beach Master Unit (BMU)

Overview

- (2) Light Amphibious Resupply Cargo (LARC V) for LCU salvage
  - Can transport 20 PAX for short distances over land / sea
  - Can transport 4000 lbs. cargo over water / 10,000 lbs. cargo over land
- (1) D7 bulldozer
- (1) 7-1/2 ton cargo carrier
- (1) 7-1/2 ton COMMS truck (UHF/VHF/HF)
- (1) 400-gal. Water Bull
- (1) Light plant (floodlight)
- (1) HMMWV
- Team of 18
- 7 days sustainment

Cost per day: ~$2,214

No-go Criteria for LARC V

- Swim no more than 9nm
  - -"Swim" means range of travel
- Must swim in pairs

Navy Expeditionary Combat Command

- Established in Jan 2006
- Training, manning, resourcing and sustaining Navy's Expeditionary Forces (40,000 sailors)
- Capabilities
  - Explosive Ordnance Disposal
  - Maritime Expeditionary Security
  - Riverine
  - Expeditionary Diving and Salvage
  - Naval Construction
  - Expeditionary Logistics
  - Maritime Civil Affairs
  - Expeditionary Training
  - Intelligence
  - Combat Camera

Salvage Ship (ARS)

- Four Ships – Military Sealift Command
  - USNS Safeguard (T-ARS-50) – Sasebo
  - USNS Grasp (T-ARS-51) – Norfolk
  - USNS Salvor (T-ARS-52) – Pearl Harbor
  - USNS Grapple (T-ARS-53) – Norfolk

Cost per day:
~$46,725

Mobile Diving and Salvage Unit (MDSU)

- Harbor clearance, salvage, underwater search and recovery, underwater repairs

- Locations:
  - -MDSU One – Pearl Harbor
  - - MDSU Two – Little Creek

- Past events
  - - Hurricane Katrina
  - - Haiti

MDSU Detachment

- MDSU first response:
  - Embarks in 96 hours (or less) by air or ground
  - Task organized to meet mission requirements. MDSU DET's are highly mobile, rapidly deployable, fully capable and equipped diving and salvage detachments to remove obstructions restricting access to ports, piers, and waterways, assist vessels in distress, salvage ships and aircraft, locate and recover other objects of value.
- Capabilities:
  - DE-BEACHING, HARBOR CLEARANCE AND RECOVERY
  - SALVAGE SUNKEN, GROUNDED AND BEACHED VESSELS
  - DAMAGE REPAIR TO SHIPS AT SEA
  - SALVAGE OF OUL AND FUELS CARGO
  - CONDUCT HYDROGRAPHIC SURVEYS
- 1 Det Personnel: 1 – 1140/CWO OIC, 1 – E8 MDV, 1 – E6/7 IDC/DMT, 6 E5/6 1/C DV's, 8 – E3/5 2/C DV's

Cost per day:
~$2,000 per person

Underwater Construction Team (UCT) Air Detachment

- UCT first response:
  - Embarks in 48 hours (or less) by air or ground
  - Can be task-tailored to meet mission requirements
- Capabilities:
  - Contingency underwater/waterfront facility construction and inspection
  - Precision (explosive/non explosive) demolition
  - Hydrographic and Side Scan Sonar Survey
  - Underwater (exothermic) cutting and welding
- Personnel: 17 total = E8/7 OIC, 1 IDC, 15 E6 and below
- Equipment
  - 4 pieces of civil engineer support equipment: construction equipment, vehicles
  - Sustainment: berthing, generators
  - ADP: radios, phones, switchboards, computers
  - Weapons: personal, crew-served

Cost per day:
~$2,170

Naval Mobile Construction Battalion (NMCB)

- Provide construction support in military operations, construct base facilities and conduct defensive operations
- Specialized construction such as water well drilling and battle damage repair
- Disaster control and recovery operations
- 8 active duty and 12 reserve NMCBs
- Approx 600 personnel

NMCB Air Detachment

- NMCB first reponse:
  - Embarks in 48 hours (or less) by air or ground
  - Can be task-tailored to meet mission requirements
- Capabilities:
  - Contingency construction, both vertical and horizontal
  - Humanitarian assistance and disaster recovery
  - Self-sustaining for up to 30 days
- Personnel: 89 total = 2 officer, 5 CPOs, 82 E6 and below
- Equipment:
  - 34 pieces of civil engineer support equipment: construction equipment, vehicles
  - Sustainment: berthing, messing, generators
  - ADP: radios, switchboards, computers

Cost per day: ~$5,920

Combat Camera

- Two COMCAM units:
  - NECC Detachment COMBATCAM – Norfolk
  - NECC Detachment COMBATCOM – San Diego
- Still photography (film and digital, including night and aerial)
- Video (Betacam, digital, including night and aerial)
- Audio
- Production capabilities
- Qualified divers (Norfolk only)

Cost per day:
~$190

USNS MERCY Capabilities

- **Capabilities**
  - Water production 300,000 gals/day
  - 7000 meals/day
  - 12 Operating Room
  - 50 Bed Triage Area
  - Isolation unit
  - 4 Radiology Suites
  - CT scanner
  - STAT Lab, blood bank
  - Optometry, burn unit, pharmacy
  - O2/N2 production

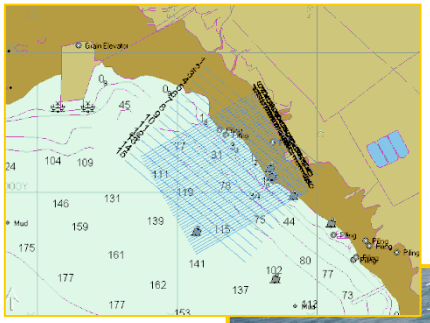
- **Bed Capacity**
  - 20 Recovery ward
  - 80 ICU
  - 280 Intermediate care
  - 120 Light care
  - 500 Limited care

NOTE: Requires HHQ approval for full activation. Amphibious ships and aircraft carriers have many similar hospital capabilities (just not the capacity).

Cost per day:
~$180,927

Fleet Survey Team (FST)

A specialized team of military and civilian experts providing Hydrographic and Oceanographic knowledge of the littoral environment to support Safety of Navigation



Tailored Products and delivery in the field

- Rapidly deployable teams
  - 4 - 6 pax, 9 m RHIB or Fly-Away Survey Kit for Boat of Opportunity; 48 hrs to departure upon tasking
- Expeditionary Surveys – Beaches and Rivers
  - Expeditionary Survey vessels (ESV), w/bolt-on sensor package for near-shore assessments.
- International Cooperative Surveys
  - Host country participation, Boats of Opportunity
- Theater Security Cooperation
  - Global Partnership Building through Maritime Safety, Security, and Training
- Humanitarian Assist / Disaster Relief
  - Post-hurricane surveys – Katrina, Gustav, Ike

NALO Aircraft Capabilities

- C-40
  - RANGE WITH 5000 LBS: 3400 NM
  - NOMINAL MISSION RANGE: 2400 – 300
  - CONFIGURATION OPTIONS
    - 121 PAX
    - 70 PAX & 3 PALLETS
    - 8 PALLETS (40,000 LBS)

Cost per hour:
~$4,450

- C-9B
  - -MAX RANGE: 2,300 NM
  - NOMINAL MISSION RANGE: 1000-1500
  - CONFIGURATION OPTIONS
    - 90 PAX + BAGGAGE
    - 65 PAX & 2 PALLETS
    - 45 PAX & 3 PALLETS
    - 7 PAX & 7 PALLETS
    - 8 PALLETS

Cost per hour:
~$4,300

- C-130
  - -MAX RANGE: 4,000 NM
  - RANGE: 2900-3200 NM
  - CONFIGURATION OPTIONS
    - 80 PAX OR UP TO 40,000 LBS OF CARGO
    - OUTSIZE AND/OR WHEELED CARGO
    - UNLIMITED CARGO & PAX COMBINATIONS

Cost Per hour:
~$3,900

NALO Tasking

- Navy Air Logistics Office (NALO)
  - Navy Unique Fleet Essential Aircraft (NUFEA)
    - Navy organic air logistics support
  - Tasks C-40 and C-130 aircraft worldwide
  - Reports to Chief of Naval Air Forces Reserve (CNAFR)
  - USFF can task these assets via expedited lift requests
    - Phone, fax, lift request
- Joint Operational Support Airlift Center (JOSAC)
  - Tasks C-9 aircraft CONUS
  - Reports to TRANSCOM
    - Joint scheduling of Navy C-9 aircraft via lift requests

Summary

- ✓ DSCA : DoD humanitarian assistance **within** the U.S.

- ✓ In a disaster DoD is the LAST to respond and the FIRST to leave
  - ➢ Our military obligations come first
  - ➢ We are expensive

- ✓ We can respond locally without HHQ approval under Immediate Response Authority
  - ➢ MOU/LOA come in handy for this
  - ➢ Otherwise we await Mission Assignments (MA)

- ✓ We do NOT enforce the law
  - ➢ Law Enforcement does
  - ➢ National Guard & US Coast Guard too

- ✓ **Navy has many DSCA response capabilities**