



N85

Expeditionary Warfare Division

**Naval Expeditionary Warfare
in the 21st Century**

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Director, Expeditionary Warfare Division, N85**

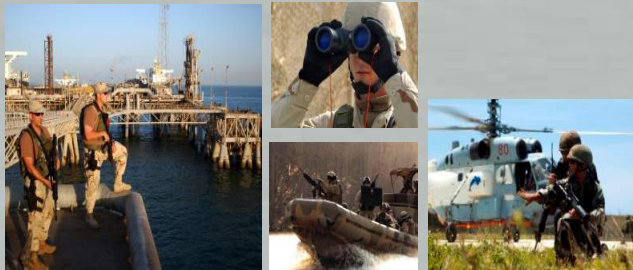
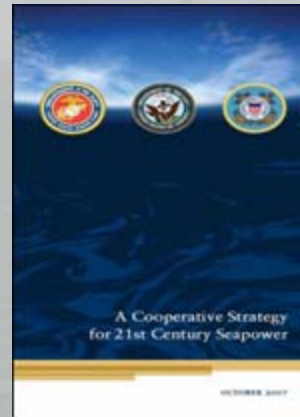


Maritime Strategy—Execution 2008



Growing Demand for Expeditionary Forces

- Forward Deployed Naval Forces
- GFS Operations
- MARSEC Operations
- Humanitarian/Disaster Relief





Amphibious Force Development



Assault Echelon Long Range Plan: 33-34 Ships

- (3) LHA(R)—New Construction
- (8) LHD—ESL 2038
- (11) LPD-17—9 Under Contract
- (12) LSD-41—ESL 2035
- LSD Replacement—2018
- LHD Replacement—2023

A flexible, balanced Expeditionary Force to meet warfare demands

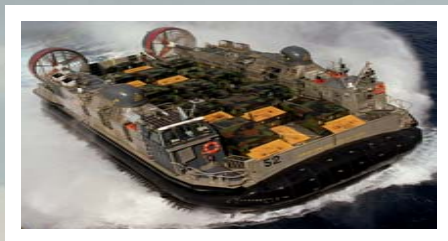
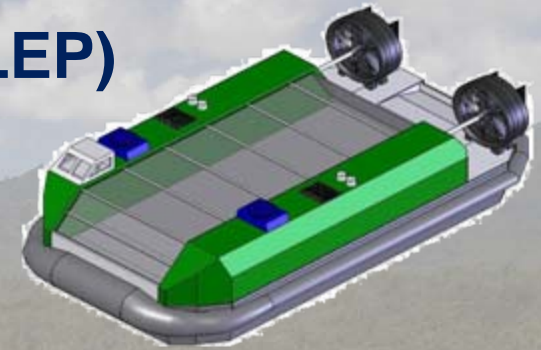




Connectors



- Joint High Speed Vessel (JHSV)
- Landing Craft Air Cushion (LCAC) / (SLEP)
- Sea Base to Shore Connector
- Landing Craft Utility (LCU)
- T-CRAFT S&T Initiative

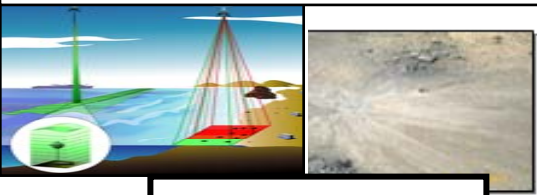




Mine Warfare



Minefield Detection and Neutralization



Assault Breaching System



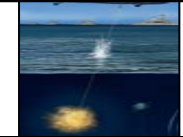
EOD Mobile Unit One

Laser (Hunt)



Airborne Laser Mine Detection System

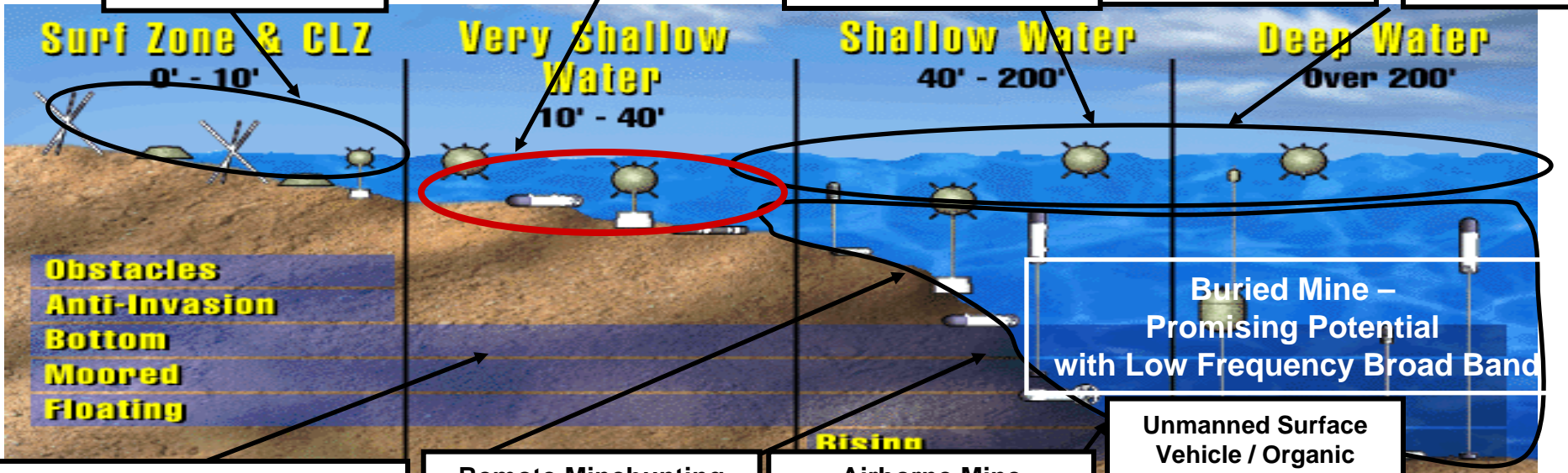
Super-cavitating Projectiles (Kill)



Rapid Airborne Mine Clearance System



Littoral Combat Ship

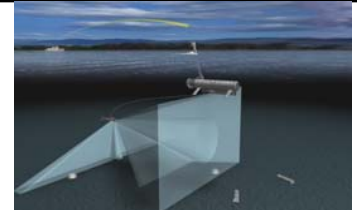


Surface Mine Countermeasures
Unmanned Underwater Vehicle and Low Frequency Broadband



Buried Mine Detection

Remote Minehunting System – AN/AQS-20A



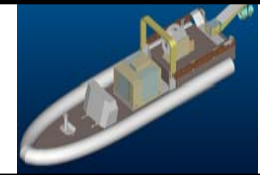
Sonar (Hunt)

Airborne Mine Neutralization System



Self propelled explosive charges (Kill)

Unmanned Surface Vehicle / Organic Airborne and Surface Influence Sweep



Magnetic Acoustic Influence Sweep



NECC / NSW / NSFS



Contingency Construction

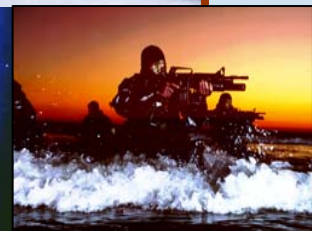
- **NECC Modernization—C4ISR, NLW**
- **NSW—Equipment Upgrades, ISR**
- **Naval Surface Fire Support—ERM AOA**
- **Green Water—Capability Development**



Riverine Assault Boat



Riverine Patrol Boat





Maritime Prepositioning Force



2 T-LHA(R)



3 MLP



1 T-LHD



3 T-AKE



3 T-AKR

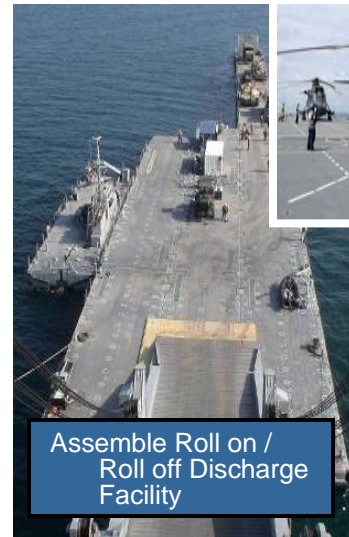


2 Legacy T-AK



Maritime Prepositioning Force (Future):

- Close joint forces to the sea base
- Arrival and assembly at sea
 - Integration of personnel and equipment
 - Vehicle and equipment transfer
- Employment of “combat ready” forces from Over-the-Horizon
 - Surface
 - Vertical
- Sustainment of Joint forces ashore
 - Delivered via vertical connectors from T-AKE
 - Delivered via surface connectors from MLP
 - TEU handling at sea and throughput to shore
- Reconstitution and redeployment of forces



Assemble Roll on / Roll off Discharge Facility



Arrive / Assemble onboard LSD-43



Trans-load Force onto HSV



Off-load MPF Equipment onto Lighterage System



Deliver force via HSV

Deliver Supplies

Washdown + Backload + Reset





Questions?

