# Marine Corps Seabasing Capabilities

**Today and Tomorrow** 

17 November 2014

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#### SEABASING CAPABILITY

#### LHA-8

Lifts and supports over 1300 Marines and the MAGTF command & control nodes- is main base to fixed (JSF), rotary wing / till rotor, and unmanned aircraft systems. Well deck supports simultaneous landing craft operations. Level II medical capability.

#### LPD-17

Capable of basing over 700 Marines, their equipment and supplies and projecting capabilities ashore with LCACs, conventional landing craft, amphibious connectors and rotary lift craft.

#### LSD

Provides largest capacity to operate landing craft in support of MAGTF operations.

#### LMSR

Military Sealift Command's (MSC) Large, Medium Speed, Roll-On/ Roll-Off ship (LMSR) program significantly expands the nation's sealift capability as a prime mover of US military equipment. The ships carry vehicles and equipment to support humanitarian missions, as well as combat missions.

Mobile Landing Platform Leverages float-on/ float-off technology and has raised vehicle platform, sideport ramp, mooring fenders and LCAC lanes. Utility of "Interoperable Pier in the Ocean" spans the Range of Military Operations. JHSV Provider bigh rec

Provides high speed transportation for over 300 Marines and 20,000 sq ft of MAGTF equipment. Ship to Shore Connector (SSC) Provides modernized landing craft over-thebeach capability.

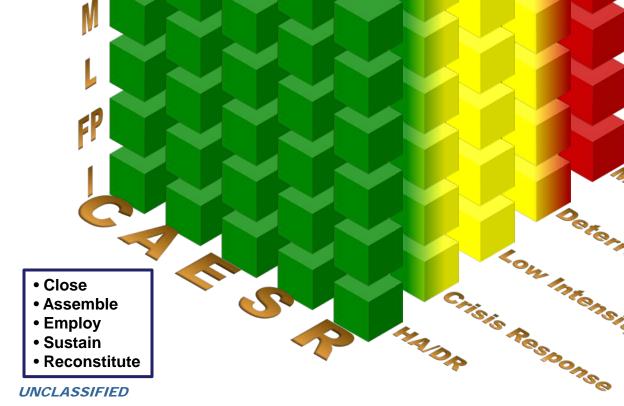
In future crises, forward based and forward deployed amphibious and MPF forces will continue to demonstrate their inherent flexibility and utility by aggregating with surged forces to conduct engagement, crisis response or forcible entry operations.

T-AKE Offers selective access and off load of unitized supplies for prepositioning MEB and other MAGTFs operating in the sea base or ashore.

#### SEABASING CAPABILITY **DEVELOPMENT FACTORS**

Deferrence

Low Intensity Contice



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EXPEDITIONARY FORCE

Major Combar Oberations



# **Amphibious Warships**







# Maritime Prepositioning Capability



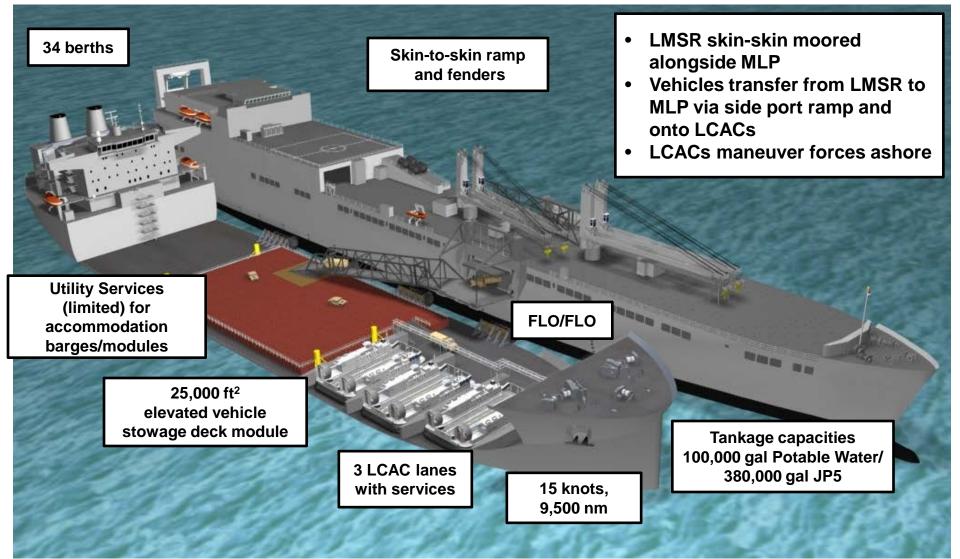
#### **MPSRON 2 MPSRON 3 DIEGO GARCIA GUAM / SAIPAN** SISLER SEAY DAHL PILILAAU T-AKE T-AKE **STOCKHAM LEWIS & CLARK** LUMMUS **SACAGAWEA WILLIAMS** BUTTON LOPEZ **BOBO** % of MEB 30-day requirement % of MEB 30-day requirement Square feet 71% Square feet 67% 61% 67% 20-foot containers 20-foot containers **MONTFORD POINT GLENN** Fuel 37% Fuel 50% 13% 15% Water Water

Average squadron capacity is 69% of MEB square-foot lift requirement



# Mobile Landing Platform (MLP) Artist's Conception...August 2009







## Mobile Landing Platform (MLP 1) Reality...June 2014













## Mobile Landing Platform (MLP 1) Reality...June 2014





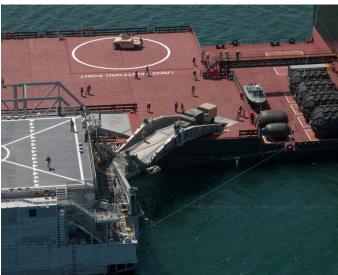
## Mobile Landing Platform (MLP 1) Reality...June 2014













## MPF T-AKE: Selective Offload <u>Plus</u> Operational Reach

























#### MLP 3 Afloat Forward Staging Base USNS Lewis B Puller...Nov 2014







EXPED

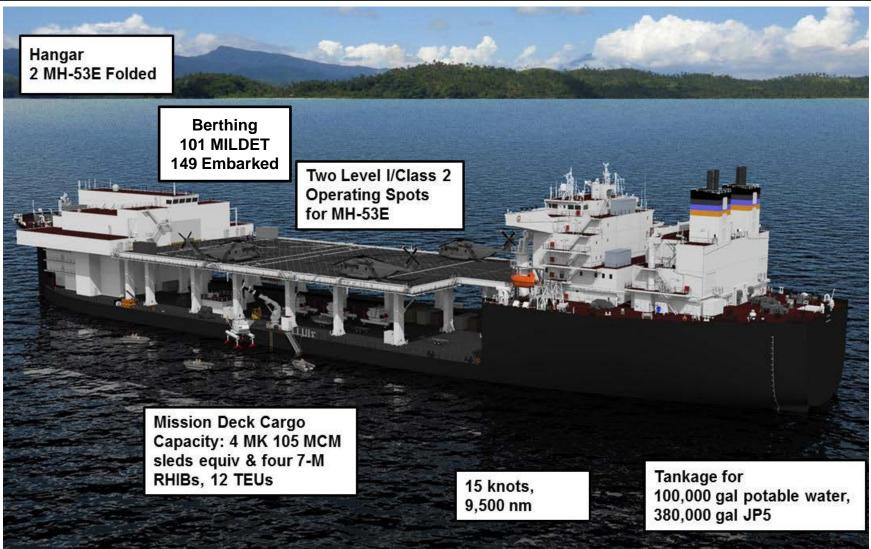






## MLP Afloat Forward Staging Base (AFSB) Capabilities





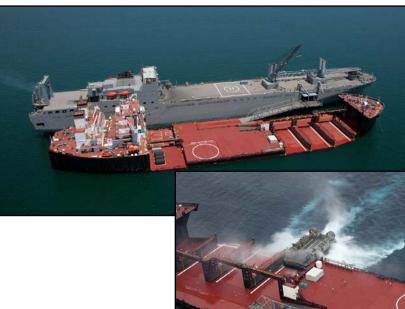


# **MLP - AFSB Capabilities** Comparison



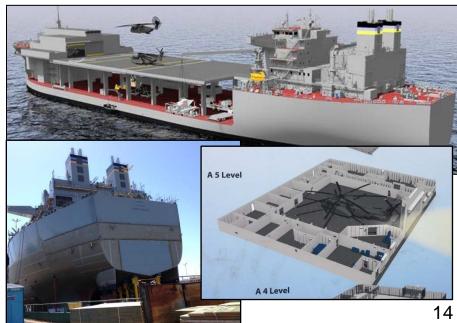
#### MLP (MLPs 1 and 2)

- In-stream selective offload of Large, Medium Speed RO/RO (LMSR) in sea state 3 conditions
- Increased connector lift capacity
- **Requires module augments for** troop berthing & facilities



#### AFSB (MLPs 3 and 4)

- Maritime base of operations for MCM and SOF missions
- Accommodations and work spaces for up to 250 embarked personnel
- H-53 capable flight deck; pending V-22 certification







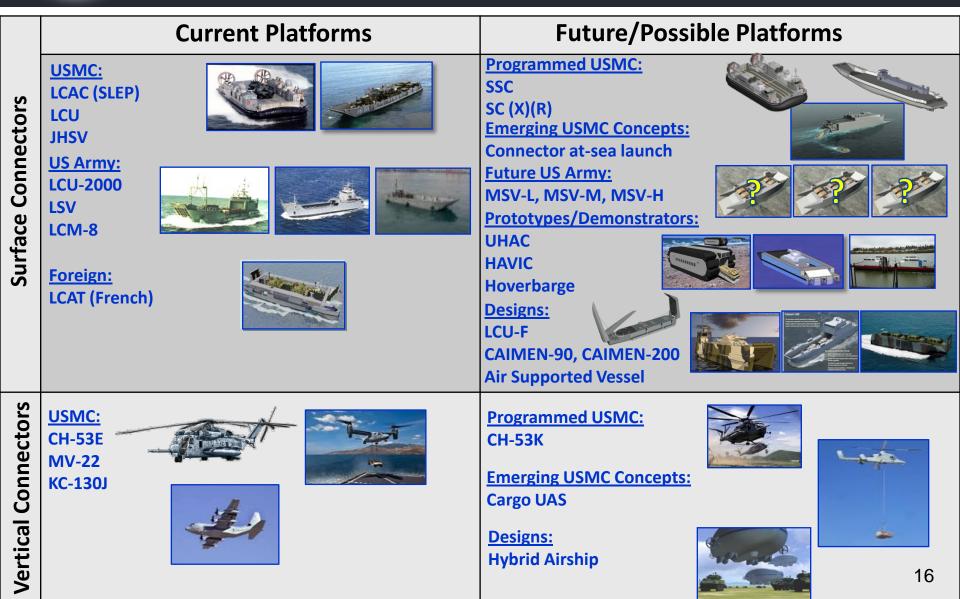
Connectors characterize the <u>surface</u> and <u>vertical lift platform capabilities</u> that are a <u>critical component</u> either organic to, or in support of, the sea base to <u>transport</u> personnel, supplies, and equipment <u>within</u> the sea base and <u>maneuver them from the sea base to objectives ashore</u>.

Derived From: Seabasing Joint Integrating Concept (JIC), 2005



## **Connectors** Surface & Vertical, Current & Future Platforms







# **Surface Connectors**



SSC

LCAC (SLEP)



Retains a high speed, OTH surface assault capability

72 craft procurement starting in 2013 IOC FY 20

74 ST at 35 kts
Carries M1A1 with TWMP
Full load in sea-state 3+ / 100F

• 60 ST at 35 kts

- Designed to carry M-60 tank
- Narrower performance envelope

#### LCU-1600

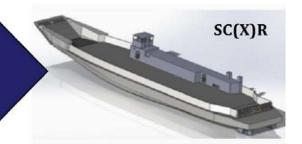


• <140 ST / 1200 NM at 11 kts

2200 sq ft payload cargo

Recapitalizes a rugged, persistent, economical, high capacity landing craft

*32 craft procurement starting in 2018 IOC FY 22* 



Min 170 ST / 1200 NM at 11 kts
Min 2200 sq ft payload cargo

Recapitalization of primary surface ship to shore connectors



# **Joint High Speed Vessel**



WPE/JHSV/HST Comparison			
	WestPac Express	JHSV <u>POR: 10 Vessels</u>	HST <u>POR: 2 Vessels</u>
Overall Length	101m	103m	107m
Draft	4.3m	3.83m	3.7m
Cruise/Max Speed	36kts/38kts	35kts/43kts	40kts/42kts
Passengers	900	312	866
Vehicle/Cargo Capacity	33,000sqft 165 HMMWVS	20,000-22,000sqft 100–110 HMMWVS	31,000sqft 152 HMMWVS
Deadweight	790t	700t	800t
Range	1250nm	1200nm	1200nm

Extensive, yet flexible crew & troop accommodations with lounge, medical, and mess facilities



Large mission bay for range of military hardware, vehicles and boats; MTVR with trailer can do horseshoe turn

**Crew-served weapon** mounts fore and aft



\*\*JHSV is not a combatant; operates in a permissive environment\*\*

Supports 312 troops for 4 days or 104 troops 14 days without replenishment

Level I, Class 2 for H53/H60 helo operations

Level I, Class 4 VERTREP operations

45\* slewing articulated quarter ramp for rapid and efficient loading and offloading



# **Seabasing Related Doctrine**



- Marine Corps
  - Marine Corps Reference Pub (MCRP) 4-11C, Combat Cargo Ops (Notes: 1, 2 [SID])
  - MCRP 4-11.3G, Unit Embarkation Handbook (1, 2 [SID])
- Navy
  - Navy Tactics, Techniques, & Procedures (NTTP) 3-02.12, Naval Beach Group (NBG) Support Element Ops (3, 4 [SID])
- Naval / Dual Designated
  - Marine Corps Warfighting Pub (MCWP) 3-31A / Navy Warfighting Pub (NWP) 3-02.12, Employment of LCAC (1, 2 [N], 4 [SID])
  - MCRP 3-31.2A/NTTP 3-15.24, Mine Countermeasures in Support of Amphibious Ops (1, 2 [N], 4 [FMID])
  - MCWP 3-31.5 / NTTP 3-02.1M, Ship-to-Shore Movement (1, 2 [N], 4 [SID])
  - MCWP 3-31.7 / NWP 3-62M, Seabasing (1, 2 [N], 4 [SID])
  - MCWP 3-31.8 / NTTP 3-02.1.4M, Defense of the Expeditionary Strike Group (1, 2 [N], 4 [FPID])
  - MCWP 3-32 / NTTP 3-02.3M, Maritime Prepositioning Ops (1, 2 [SID], 4 [N])
  - MCRP 4-11.3D / NTTP 3-02.14 , The NBG (1, 2 [N], 4 [SID])
- Joint / Multi-national
  - JP 3-02, Amphibious Ops (1, 2 [N], 4 [SID])
  - JP 3-02.1, Amphibious Embarkation & Debarkation (1, 2 [SID], 4 [N])
  - JP 3-32, Command & Control for Joint Maritime Ops (1, 2 [N], 4 [SID])
  - ATP-8(B) Vol. I, Doctrine for Amphibious Ops (1, 2 [N], 4 [SID])
  - ATP-8(B) Vol. II, Tactics, Techniques, & Procedures for Amphibious Ops (1, 2 [N], 4 [SID])
  - ATP-24, MCM in Support of Amphibious Ops (1, 2 [N], 4 [FMID])



## Doctrine Development Benchmark Documents



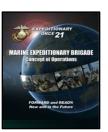


Seabasing Concept of Operations for Low to Mid Intensity Operations

 Joint Operational Access Concept (JOAC)



• MCWP 3-31.7 Seabasing



• EF 21 MEB CONOPS

Expeditionary Force 21

 Disaggregated ARG/MEU Unit Concept of Employment

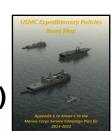




 Marine Corps Prepositioning <sup>T</sup> Road Map 2025

**Transitions to** 

 USMC Expeditionary Roadmap (2014 Draft)





## **Doctrine Development** Emerging Documents





- MLP Prepositioning Wholeness CONOPS (Current draft (21 May 2014))
  - Afloat Forward Staging Base (AFSB) CONOPS (Initial Working Draft (~Secret~))





MPF (SE) Seabasing Concept of Employment (Draft) ~ In AO level staffing, Target signature by Spring 2015

> T-AKE Operational Handbook (Draft) ~ Staffing Nov 2014-Spring 2015



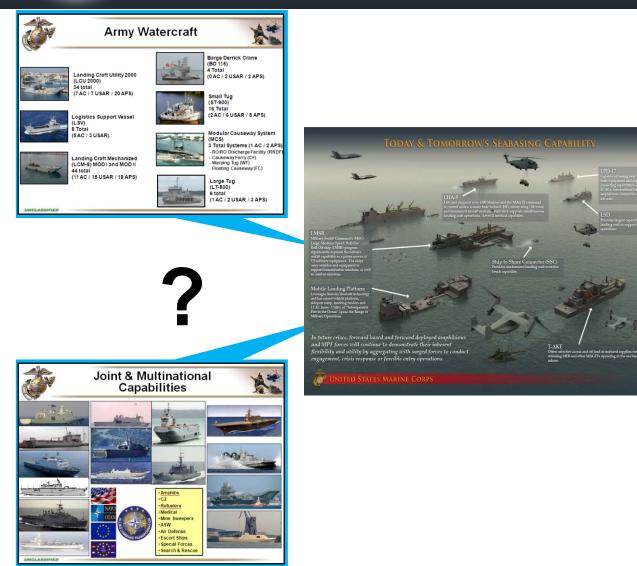
 MLP Operational Handbook (Draft) ~ Staffing Dec 2014 - Summer 2015





# Seabasing....So What's Next?













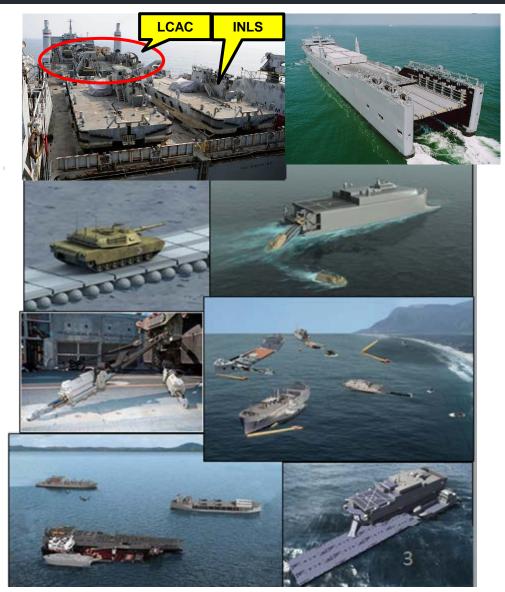
# Near to Mid Term Possibilities



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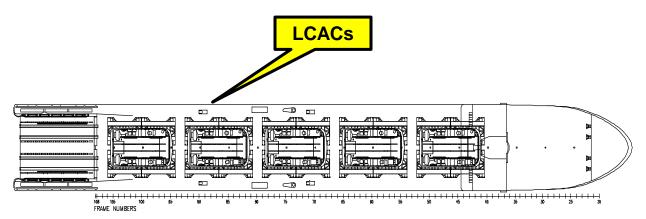








Sea Barge (SEABEE) Cape May with elevator in half-raised position





# Possibility: Connector Station Ship



SEABEE Barge Carrier SS Cape Mohican transports Navy Lighterage, LCAC, and Side-Loading Warping Tugs (SLWT) for Joint Logistics Over-The-Shore (JLOTS) 2008 Exercise.



**Cape Mohican Underway** 



# Possibility: Connector Station Ship





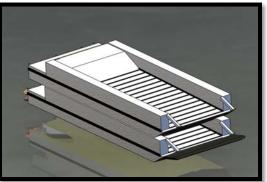
Two improved Navy lighterage system (INLS) craft from Amphibious Construction Battalion 1 stand by to descend on the elevator of the Military Sealift Command SS Cape Mohican during Pacific Strike 2008.

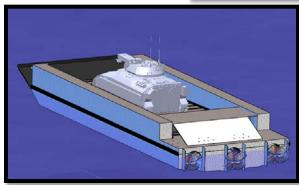


# Possibility: High Speed Assault & Interdiction Craft (HAVIC)

- Aluminum transporter landing craft designed and built in 1985-86 as part of AAAV AoA
- Tested with LAV in 1988 at Camp Lejeune
- LAV vehicle commander piloted the HAVIC via tele-operation
- Max speed at full load: 23.4kts in calm seas, 20kts in sea state 3
- Range: 80nm
- Stackable for transport & stowage
- Demonstrator scrapped in 1993
- Patent holder attended March 2014 Connector Summit & responded to Connector RFI

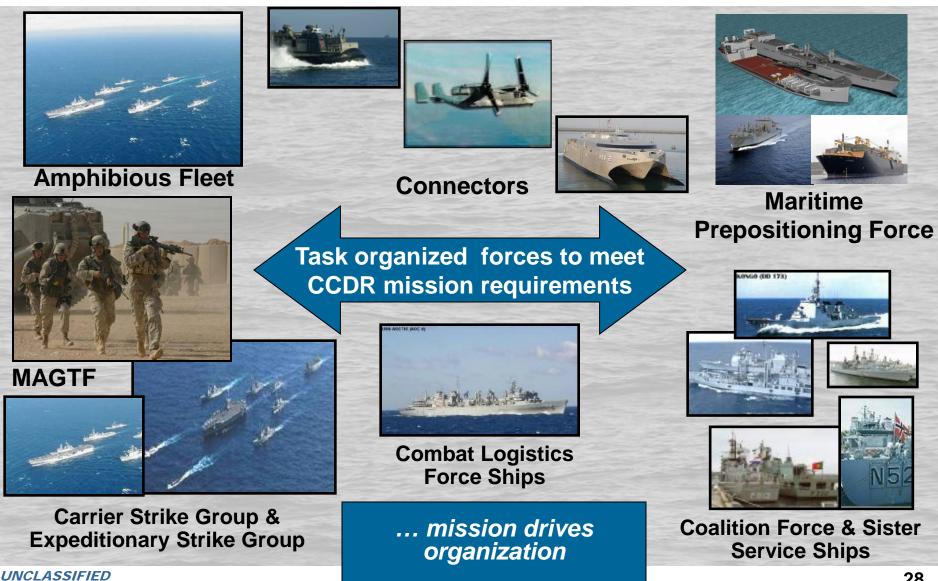








## **Seabasing: Assured Capability for Expeditionary Warfare**





## Seabasing Integration Division Points Of Contact



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