



*Amphibious Ready Group  
And  
Marine Expeditionary Unit  
Overview*



U.S. Marine Corps

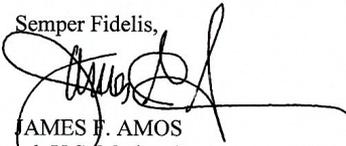


## A MESSAGE FROM THE COMMANDANT OF THE MARINE CORPS

Forward-deployed amphibious forces remain a uniquely critical and capable component of our national strategic demands for forward presence, crisis response, power projection and theater security cooperation. The Marine Expeditionary Unit (MEU) and associated Amphibious Ready Group (ARG) provide the Geographic Combatant Commanders with forward-deployed, sea-based, expeditionary forces that can operate across the range of military operations. Capable of enabling joint, interagency and coalition forces and seamlessly integrating with Special Operations Forces, no other type of force possesses these capabilities together with the ability to sustain itself logistically for significant periods of time.

Operating as a team, the ARG/MEU provides operational reach and agility, as well as assured access for the joint force in major contingencies. It is ideally suited to operate forward and from over the horizon to protect American interests, respond to crises and engage with coalition partners. A true combined arms and expeditionary force-in-readiness, the ARG/MEUs stand prepared to answer the call to the wide range of security and engagement needs of the Geographic Combatant Commanders. Since 2010, ARG/MEUs supported NATO operations in Libya, including the successful recovery of a downed F-15 pilot; supported major combat operations in Afghanistan; rescued mariners aboard the MV MAGELLAN STAR from Somali pirates; and provided humanitarian assistance and disaster relief in Haiti, Pakistan, Philippines, and Japan. These recent operations highlight the ARG/MEU's flexibility and agility to support Geographic Combatant Commanders operational requirements.

This pamphlet is intended to serve as a guide to the unique capabilities that our ARG/MEUs possess. Commanders and staffs are encouraged to use it for familiarization and as a ready reference.

Semper Fidelis,  
  
JAMES F. AMOS  
General, U.S. Marine Corps

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# The US Strategic Challenge In an Era of Uncertainty

The United States is increasingly challenged by the demands in the littorals – the complex interface where the great commons of the sea meet the physical geography where human, political, and economic domains function.

## *The Geo-Strategic Environment*

- 70% of the world is covered by water
- 95% of all commercial cargo travels by sea
- 49% of the world's oil transits 6 major sea chokepoints
- 23,000 ships are underway daily
- 17 of the world's 20 largest cities have direct access to the sea
- 95% of international communications is transmitted by undersea cable
- 75% of the world 's populace lives within 200 miles of a sea coast

## *Sources of Global Stress and Instability*

- Increasing resource scarcity and demand
- Poor or weak governance
- Explosive mega-cities – most in the littorals
- Population growths and unmet demographic expectations
- Increasing ease of access to lethal technology
- Networked terrorists/non-state actors
- Growing near-peer global powers
- Vulnerability of US expeditionary-dependent military posture to anti-access capabilities
- American prosperity rests on a foundation of fair and free access to a vibrant global economy
- Disruptions to global commerce & access to the global commons harm US and global economies
- Instability reduces confidence in the international economic system and its legal framework
- Freedom of action at sea and in the littorals are critical to securing US national interests

## **MAGTF Defined**

The Marine Air-Ground Task Force (MAGTF) is the Marine Corps principal organizational construct for conducting missions across the range of military operations. MAGTFs provide combatant commanders with scalable, versatile expeditionary forces able to assure allies, deter potential adversaries, provide persistent U.S. presence with little or no footprint ashore, and respond to a broad range of contingency, crisis, and conflict situations. They are task organized, combined-arms force packages containing command, ground, aviation, and logistics elements. A single commander leads and coordinates this combined-arms team through all phases of pre-deployment training, deployment, and employment. MAGTF teams live and train together further increasing their cohesion and fighting power.

## **Multi-Mission Capable MAGTFs**

Tailored to meet combatant commanders' requirements, MAGTFs operate as an integrated force in the air, land, maritime and cyberspace domains. The naval character of MAGTFs enhances their global mobility, lethality, and staying power. Embarked aboard amphibious ships or deployed using other means, multi-mission capable MAGTFs provide U.S. civilian and military leaders with increased strategic and operational flexibility.

## **Today's Amphibious Capability**

Among the many capabilities provided by integrated, combat ready MAGTFs aboard multi-mission amphibious ships, three are of critical importance:

- Forward presence to support engagement and theater security cooperation
- A ready force to immediately respond to emergent crises
- A credible and sustainable forcible-entry capability, operating from the sea, over the horizon, at night or during periods of reduced visibility

Our amphibious capability creates four strategic benefits for a nation dependent on its ability to exploit its command of the seas to project influence and power:

- *Freedom of action*: Amphibious forces can use the maritime domain as a base from which to conduct operations. They can loiter indefinitely in international waters and maneuver ashore at the time and place of their choosing.

- *Deterrence*: While a standoff strike is sometimes an adequate response, other situations require the rapid insertion of sustainable combat forces – “boots on the ground” – to underscore the nation’s commitment to an ally or to protect our National Security interests.
- *Assured access*: Amphibious forces contribute unique and essential capabilities toward the nation’s ability to take advantage of the freedom of the high seas to enter a region without regard to access constraints and impediments and to sustain sea-based operations almost indefinitely without need for in-theater host-government support.
- *Uncertainty for adversaries*: A credible forcible-entry capability compels potential adversaries to invest in a broad range of systems and spread their defenses over larger areas of concern.

### **Forward Deployed MEU Presence**

Forward deployed MEUs embarked aboard Amphibious Ready Groups (ARGs) operate continuously in the areas of responsibility of various Geographic Combatant Commanders (GCC). These units provide the President and the GCC with credible deterrence and decision time across the range of military operations. MEUs serve as a forward-deployed, flexible sea-based MAGTF, capable of conducting amphibious operations to respond to crisis, conduct limited contingency operations, introduce follow-on forces, and support designated special operations forces. MEUs are characterized by their sea-based forward presence, expeditionary nature, ability to plan for and respond to crises, combined arms integration, and their interoperability with joint, combined and special operations forces.

There are seven standing MEUs that routinely deploy in accordance with the Global Force Management Implementation Guidance (GFMIG). The CONUS-based MEUs are 11th, 13th and 15th from the West Coast and the 22d, 24th, and 26th MEUs from the East Coast. The 31st MEU is forward assigned and located in Okinawa, Japan.

### *Crisis/Contingency Response*

- Deter aggression
- Quickly respond to crisis
- Protect citizens/interests
- Expand influence
- Strengthen alliances
- Conduct information operations



*Recent Examples:*

- Afghanistan
- Libya
- Pakistan
- Haiti
- Indonesia
- Lebanon
- Kosovo
- Liberia
- Philippines
- U.S. Gulf Coast
- Japan
- New York City

**MEU Mission**

Provide a forward deployed, flexible sea-based MAGTF capable of conducting amphibious operations, crisis response, and limited contingency operations, to include enabling the introduction of follow on forces, and, designated special operations, in order to support the theater requirements of GCCs.



## MEU Mission Essential Tasks

### *Amphibious operations*

- Amphibious assault
- Amphibious raid
- Maritime interception Operations (MIO)/Visit, board, search, and seizure (VBSS)
- Advance force operations

### *Expeditionary support to other operations/crises and limited contingency operations — operating across the Range of Military Operations*

- Noncombatant Evacuation Operations (NEO)
- Humanitarian assistance (HA)
- Stability operations
- Tactical Recovery of Aircraft and Personnel (TRAP)
- Joint and combined operations
- Aviation operations from expeditionary shore-based sites
- Theater security cooperation activities
- Airfield/port seizure



### *MEU Characteristics*

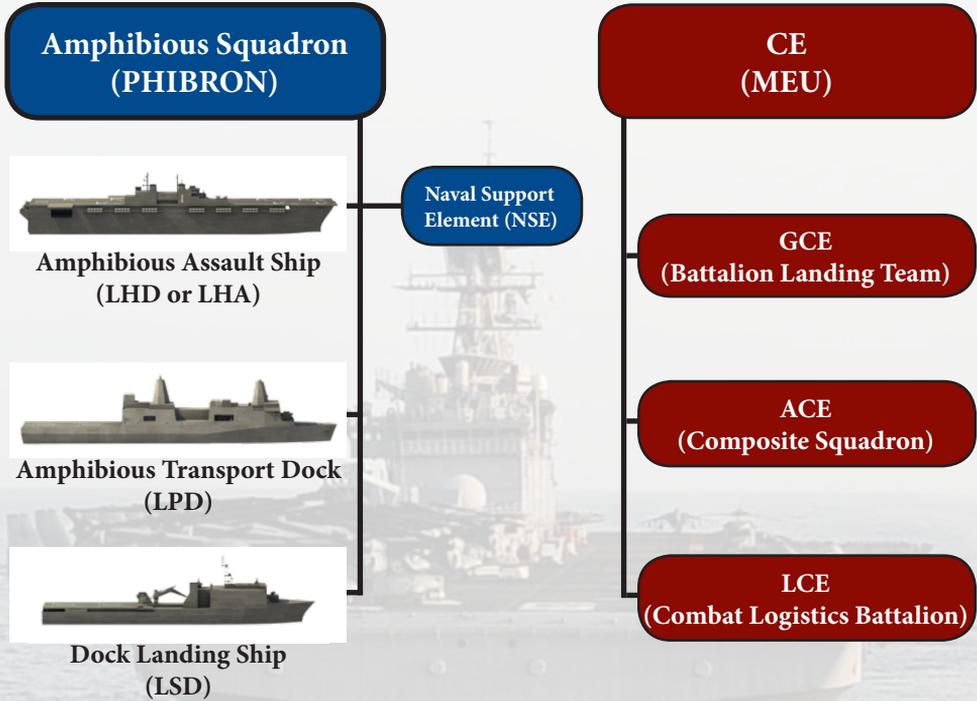
Most agile, standing Marine Air Ground Task Force (MAGTF)

- Expeditionary by nature
- Sea-based, strategic reach with inherent force protection
- Scalable levels of presence and visibility
- Offers wide range of options for the national leadership
- Rapid response: within 6 hours of notification
- Self-sustaining: 15 days of organic, sea-based logistics
- Task organized to operate across the Range Of Military Operations (ROMO)
- Enables follow-on, joint, interagency, and coalition forces
- Combined arms integration of credible combat power
- Operates from over-the-horizon and out-of-sight
- Operates independent of facilities ashore
- Capable of integrating with special operations forces

**Navy-Marine Corps Team**  
*Amphibious Ready Group (ARG) and MEU*



*Supported/Supporting Relationship*



## ARG/MEU Pre-Deployment Training Phase

Critical for building the Blue-Green team and capability

**Standardized 6-month, phased, pre-deployment training phase in CONUS**

**2 months**

*Initial Training Phase*

- ARG/MEU staff planning
- Individual and special skills training

**3 months**

*Intermediate Training Phase*

- Phibron/MEU integration training (at-sea)
- Realistic urban training
- Composite training unit (at-sea)
- MEU/SOF interoperability training

**1 month**

*Final Training Phase*

- Supporting arms coordination
- Certification (at-sea)
- Pre-overseas movement

### Building block approach

**Individual skills**



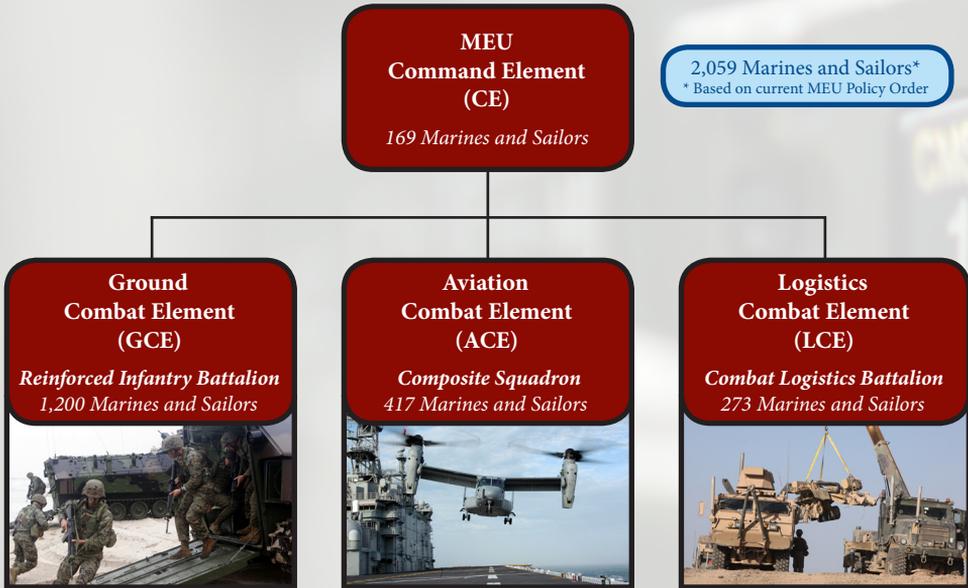
**Special skills**



**Collective skills**



# MEU Task Organization



## Command Element (CE)

(169 Marines and Sailors)

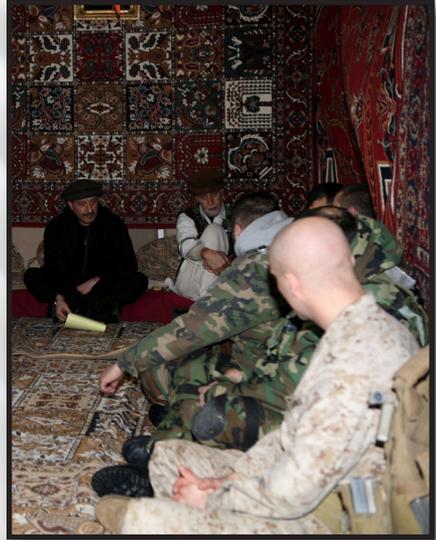
The CE contains the MAGTF headquarters and other units that provide intelligence, communications, and administrative support. The CE is scalable and task organized to provide the command, control, communications, computers, intelligence (C4I), and joint interoperability necessary for effective planning and executions of operations.

- Force Reconnaissance Platoon
- Air Naval Gunfire Detachment
- Imagery Interpretation Detachment
- Human Exploitation Detachment
- Ground Sensor Detachment
- Topographic Detachment
- Radio Detachment
- Communication Detachment
- Marine Corps Information Operations Center (MCIOC) Team
- Civil Affairs Team



### *MEU Command Element Capabilities*

- Rapid and deliberate planning
- Command and Control (C2)
- Enable Joint Task Force (JTF) and maritime prepositioning force operations
- Reconnaissance & Surveillance (R&S)
- Human intelligence collection
- Signals intelligence collection
- Geospatial intelligence/analysis
- Imagery intelligence collection
- Ground sensor employment
- MIO/VBSS
- Integrate and synchronize MEU, naval, joint, and combined fires operations
- Military information support operations
- Civil Affairs Team



## Ground Combat Element (GCE)

The GCE is task organized to conduct ground operations to support the MAGTF mission. This element includes infantry, artillery, reconnaissance, armor, light armor, assault amphibian, engineer, and other forces as needed.

### *Battalion Landing Team (BLT)*

(~1,200 Marines and Sailors)

- Headquarters & Service Company
- 3 x Rifle Company
- Weapons Company
- Artillery Battery
- Amphibious Assault Vehicle (AAV) Platoon
- Light Armored Reconnaissance Platoon or Company (-)
- Tank Platoon
- Engineer Platoon
- Reconnaissance Platoon

### *Capabilities*

- Amphibious assaults
- Amphibious raids
- Airfield seizure
- Offensive operations
- Defensive operations
- Stability operations
- NEO
- MIO/VBSS
- HA
- TRAP
- R&S

## GCE Vehicles



### *4 x M1A1 Main Battle Tank*

(In addition, LCE has 1 x M88A12 Tank Retriever)

- Crew: 4
- Speed: 42 mph
- Range: 275 miles
- Main armament: 120 mm (40 rounds)
- Secondary: 1 x 12.7mm, 2 x 7.62mm



### *15 x Assault Amphibious Vehicle (AAV)*

- personnel and command variants
- Troops: 3 Crew + 21 combat Marines
- Speed: 45 mph (7 kts in water)
- Range: 200 miles
- Armament: 1 x 12.7mm machinegun  
1 x 40mm grenade launcher



*8-17 x M1161 Internally  
Transportable Vehicles (ITV)*

- Transportable inside MV-22/  
CH-53E
- Troops: 4
- Speed: 65 mph
- Range: 170 miles
- Armament:  
1 x 12.7 mm machinegun  
or 1 x 40mm grenade launcher



*31 x Medium Tactical Vehicles*

- Cargo: 7 tons off-road/15 tons  
paved
- Troops: 25
- Speed: 65 mph
- Range: 360 miles
- Armament: 1 x 12.7 mm  
or 40mm grenade launcher or  
7.62 mm



*7-17 x Light Armored Vehicle (LAV)*  
(In addition, MEU has 1 x Mobile  
Electronic Warfare LAV)

- Troops: 3 Crew + 4 Troops
- Speed: 60+ mph
- Range: 400 miles
- Armament:  
1 x 25 mm cannon,  
2 x 7.62 mm machineguns,  
or TOW variant



*105 x High Mobility Multi-Wheeled  
Vehicles (HMMWV)*

- Troops: 4 - 10
- Speed: 55 - 70 mph
- Range: 256 - 350 miles
- Armament:  
1 x 12.7 mm  
or 40mm grenade launcher  
or 7.62 mm machineguns  
or TOW missile

## Aviation Combat Element

The ACE conducts offensive, defensive, and all other air operations to support the MAGTF mission.

### 5 of 6 Aviation Functions

- Control of aircraft and missiles
- Assault support
- Offensive air support
- Anti-aircraft warfare
- Aerial reconnaissance

### Composite Squadron

(~417 Marines and Sailors)

- Medium Tilt-rotor Squadron
- Light Attack Helo Detachment
- Fixed Wing Detachment
- Heavy Helo Detachment
- Aviation Logistics Detachment
- Aviation Support Squadron
- Air Control Detachment
- Aerial Refuel Detachment

## MEU Aircraft



### 12 x MV-22B/C Osprey

- Medium lift assault support
- 24 combat equipped Marines
- 10,000 lbs external load
- Cruise speed: 240 knots
- Combat radius: 325 NM w/o refuel
- Aerial refuel capable



### 4 x CH-53E Super Stallion

- Heavy lift assault support
- 24 combat equipped Marines (can lift up to 55 passengers)
- 36,000 lbs external load
- Cruise speed: 120 knots
- Combat radius: 225 NM w/o refuel
- Aerial refuel capable



*3 x UH-1Y Huey*

- Command and Control
- 8 combat equipped Marines
- Cruise speed: 147 knots
- Combat radius: 129 NM



*2 x Hercules (KC-130J)*

- Aerial refueling
- On-call, CONUS stand-by
- Cruise speed: 320 kts
- Combat radius: 3,345 NM



*4 x AH-1Z*

- Rotary Wing CAS
- Cruise speed: 137 knots
- Combat radius: 125 NM



*5 x RQ-21A Small Tactical Unmanned Air System (STUAS)*

- Intelligence, Surveillance, and Reconnaissance (ISR)
- Communication relay
- Ship or land-based
- Control radius: 50 NM
- Max speed: 80 kts
- Endurance: 10 hrs
- To be fielded 2014-2015



*6 x Harrier (AV-8B)*

- Fixed Wing CAS
- Vertical Short Takeoff/Landings (VSTOL)
- Max speed: 585 kts
- Combat radius: 300 NM

## Logistics Combat Element (LCE)

The LCE is task-organized to provide the full range of combat logistics functions and capabilities necessary to maintain the continued readiness and sustainability of the MAGTF as a whole.

### *Combat Logistics Battalion (CLB)*

(~273 Marines and Sailors)

- Headquarters Platoon
- Law Enforcement Detachment
- Maintenance Detachment
- Medical Detachment
- Engineer Platoon
- Communications Platoon
- EOD Detachment
- Supply Detachment
- Landing Support Platoon

### *Capabilities*

- 15 days organic sustainment
- Ground supply operations
- Ground equipment maintenance – intermediate level
- Transportation operations
- General engineering operations
  - Earth moving
  - Construction & repair
  - Electrical support
  - Water purification, and distribution
- Health services
- Explosive Ordnance Disposal (EOD)
- General services (postal, ammo)
- Humanitarian assistance
- Evacuation control center operations
- Law enforcement operations



## LCE Equipment

- 15 MTVR
- 18 HMMWVs
- 2 wreckers
- 2 bulldozers
- 3 forklifts
- 4 bulk fuel trucks
- 2 water trucks
- 2-5 water purification systems
- 1 tank retriever
- 1 recovery AAV
- 2 NEO Tracking Systems (NTS)



## Engineer Logistics

### *Water Section*

- 1,200 gal per hour  
(24k gal per 10 hour day) – purification
- 5,400 gal mobile – distribution/storage
- 30,000 gal static – storage



### *Electrical Section*

- Generators (various sizes)
- Floodlight sets
- Power distribution (various sizes)
- Refrigeration units (various)
- Trailers (various)



### *Combat Engineer Section*

- Village water cistern reinforcement
- Vertical building
- Roof replacement
- Debris removal



## ARG Capabilities

- Command and control
- Operational maneuver
- Amphibious assault, demonstration, withdrawal
- Intelligence, surveillance, reconnaissance
- Joint intelligence operations
- Logistical support
- Mass casualty & level II surgery
- SOF integration
- MIO/VBSS
- NEO
- HA
- Water Production
  - LHA/D 200,000 gallons / day
  - LSD 60,000 gallons / day
  - LPD 17 72,000 gallons / day



## ARG Task Organization

### **PHIBRON**

#### *Amphibious Squadron Staff*

- 33 personnel
- Planning
- C2

#### *Tactical Air Control Squadron Detachment*

- 29 personnel
- Control tactical air operations

#### *Fleet Surgical Team*

- 18 personnel
- 1 surgeon/2 physicians
- Surgical and medical support



## *NSE*

### *Helicopter Sea Combat Squadron (HSC) Detachment*

- 29 personnel
- Search and rescue
- Anti-surface warfare
- Logistics



### *Landing Craft Air Cushion (LCAC)*

- 34-54 personnel
- Speed: 35 knots
- Can land over 80% of the world's beaches
- Limited to beach ops
- Medium cargo lift
- 1 M1A1 tank or 2 MTVRs or 4 LAVs or 180 personnel



### *Landing Craft Utility (LCU)*

- 12-24 personnel
- Speed: 10 knots
- Large Cargo Lift
- 2 M1A1 tank or 4 MTVRs or 9 LAVs or 300 personnel
- Can operate in ports and harbors
- Limited by beach gradients



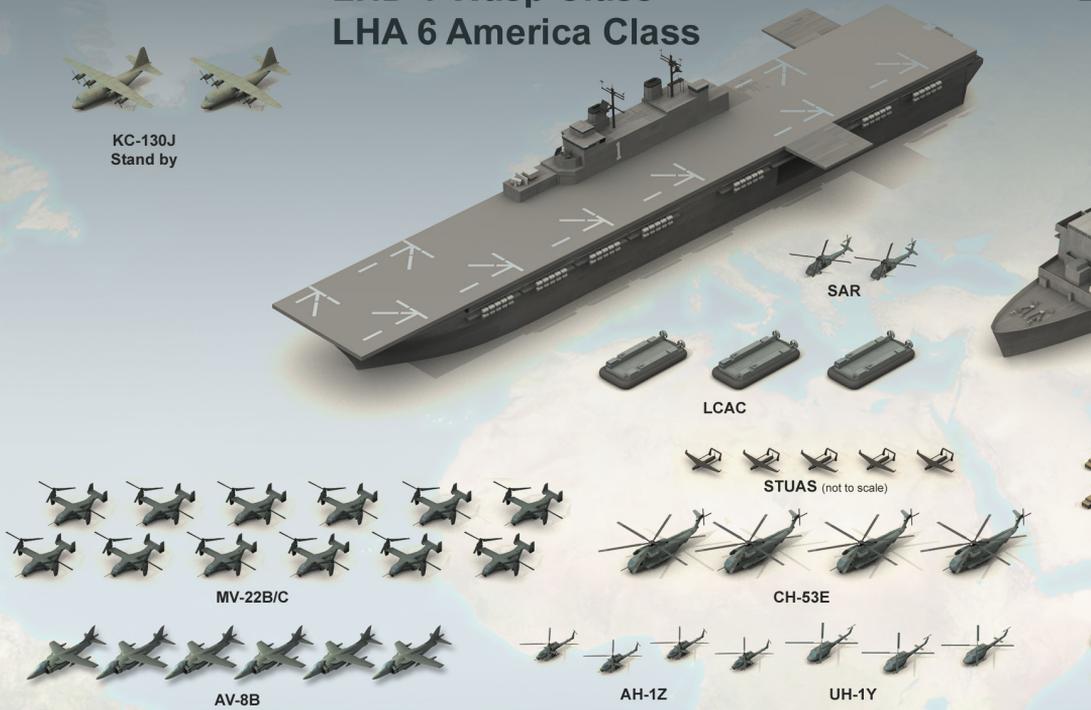
### *Beachmaster Unit Detachment*

- 25 personnel
- Beach traffic control
- Surf zone salvage



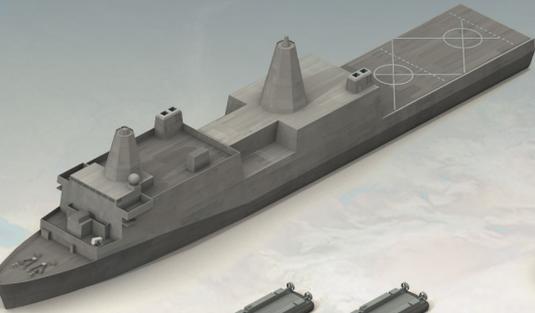
**ARG/MEU Air, Sea, and Ground Mobility**  
~2,000 ARG Personnel, ~2,059 MEU Personnel

**LHD 1 Wasp Class  
LHA 6 America Class**

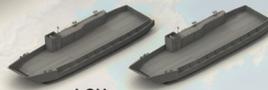


# LPD 17 San Antonio Class

# LSD 41 Whidbey Island Class LSD 49 Harper's Ferry Class



LCAC



LCU

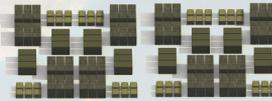


HMMWV

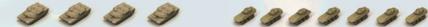


Engineers

EFSS



Landing Force Operational Reserve Material



Tank

LAV



LW155



LVSR



AAV



MTRV

## Amphibious Ships



### LHD 1 Wasp Class

- 40,650+ tons
- 22 knots
- Crew: 1,123
- Troops: 1,687 (+184 surge)
- 20,000 square ft vehicle storage
- 125,000 cubic ft cargo storage
- 9 landing spots & aircraft hangar
- 3 LCACs or 2 LCUs
- 536,343 gal JP-5
- 6 operating rooms
- 64 hospital beds



### LHA 6 America Class

- 44,850 tons
- 22 knots
- Crew: 1,059
- Troops: 1,687 (+184 surge)
- 12,000 square ft vehicle storage
- 160,000 cubic ft cargo storage
- 9 landing spots & aircraft hangar
- No well deck
- 1,300,000 gal JP-5
- 2 operating rooms
- 24 hospital beds



### LPD 17 San Antonio Class

- 25,885 tons
- 22 knots
- Crew: 360
- Troops: 720 (+80 surge)
- 24,000 square ft vehicle storage
- 34,000 cubic ft cargo storage
- \*4 landing spots & aircraft hangar
- 2 LCACs or 1 LCU
- 318,308 gal JP-5
- 24 hospital beds

*\*LPD-17 class has 2 standard helo spots and 4 expanded spots based on the type, model, and series of aircraft embarked*



**LSD 41  
Whidbey Island Class**

- 15,939 tons
- 22 knots
- Crew: 413
- Troops: 402 (+102 surge)
- 12,500 square ft vehicle storage
- 5,000 cubic ft cargo storage
- 2 landing spots
- 4 LCACs or 3 LCUs
- 52,160 gal JP-5
- 8 hospital beds

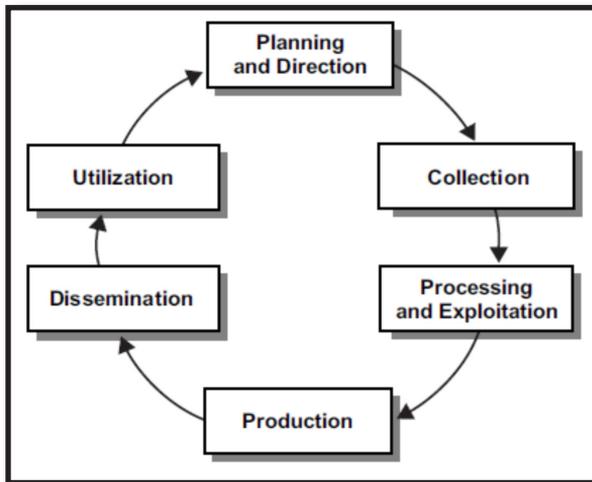
**LSD 49  
Harpers Ferry Class**

- 16,740 tons
- 22 knots
- Crew: 419
- Troops: 402 (+102 surge)
- 20,200 square ft vehicle storage
- 67,600 cubic ft cargo storage
- 2 landing spots
- 2 LCACs
- 51,923 gal JP-5
- 11 hospital beds

## **ARG/MEU Combined Capabilities**

### ***Plan and Direct Intelligence Operations***

The ARG and MEU form a cohesive intelligence team, operating from the LHD Joint Intelligence Center (JIC). The team draws on both strategic, operational, and tactical intelligence resources and, in certain circumstances, conducts intelligence operations for the operational and strategic levels. The ARG and MEU conduct the six intelligence functions continuously during the planning, decision, execution, and assessment cycles of mission planning



### ***Intelligence Cycle***

*Coordinate to leverage intelligence capabilities outside the ARG-MEU:*

- Other naval intelligence platforms/systems
- Theater intelligence systems
- National intelligence systems
- Plan Intelligence activities to support operations
- Deploy collection capabilities

*Collect, process, and exploit intelligence:*

- Signals intelligence (SIGINT)
- Human intelligence (HUMINT)
- Imagery intelligence (IMINT)
- Ground sensors
- Force reconnaissance

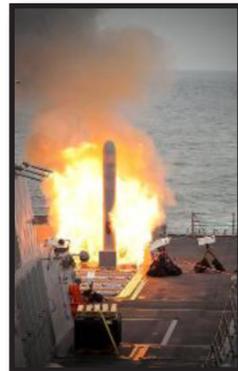
## ***Fires***

Each ARG/MEU conducts extensive integrated supporting arm training. During the PTP the ARG/MEU use both assets inherent with the MEU and those from external sources, such as Naval Surface Fire Support ships, and when available, Carrier Strike Group (CSG) aviation and joint assets. MEUs deploy with the ability to plan, coordinate and control fires in the joint/combined environment.

## ***Fires Synchronization***

### *MEU/ARG Fires Integration & Coordination*

- Integrate fires with scheme of maneuver
- Integrate both kinetic and non-kinetic fires
- Access and leverage other forward deployed naval, joint, coalition fires:
  - Carrier strike and jamming aircraft
  - Naval gunfire and missiles
  - Air Force and Army aircraft
  - Army ground fires
  - Allied and coalition aircraft and weapons
  - Electronic attack

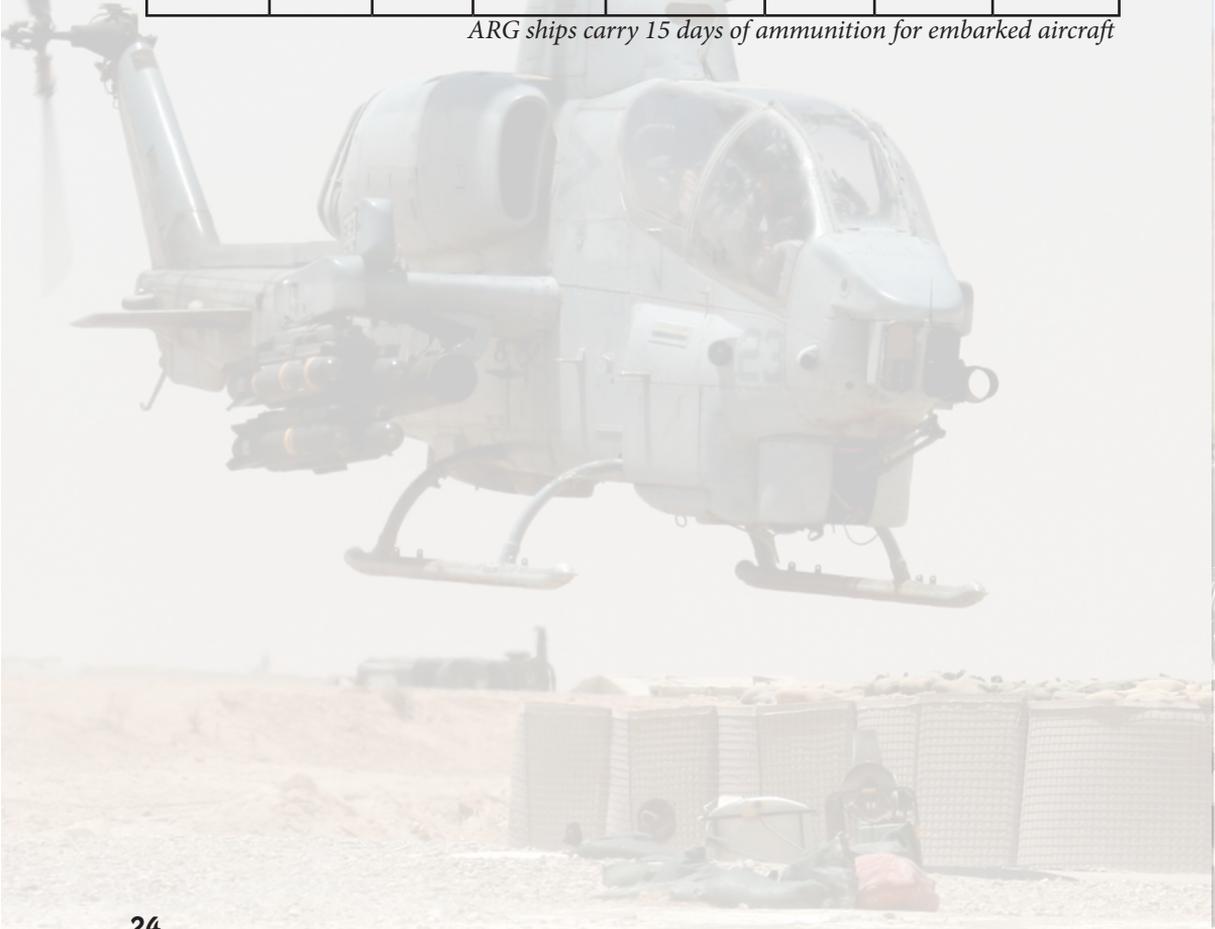


- Coordination centers able to effectively control fires from ARG shipping as well as ashore
- Multiple, highly trained controllers and observers
  - 13 Joint Terminal Attack Controllers/Air Controllers
  - 8 Joint Fires Observers/Naval gunfire observers
  - 12 artillery and mortar observers

## Aviation Fires

	Gun(s)	Rockets	Air-to-Air Missile	Air-to-Ground Missiles	General Purpose Bombs	Guidance Kits for GP Bombs	Additional Bombs
AV-8B	25mm	2.75 inch 5.0 inch	Sidewinder AMRAAM	Maverick	500 lbs. 1000 lbs.	Laser GPS	Incendiary Cluster Mines
KC-130J (w/ Harvest Hawk)	Hellfire Griffin			Hellfire Griffin			
AH-1Z	20mm	2.75 inch	Sidewinder	Hellfire			
UH-1Y	7.62mm	2.75 inch					

*ARG ships carry 15 days of ammunition for embarked aircraft*



## Ground Fires

MEUs deploy with either: 6 x 155mm M777 howitzers or 6 x 120mm M327 towed mortars or a combination of both

### 6 x M777A2 Howitzer

- 155 mm
- Range: 30 km
- Weight: 9,300 lbs



### 6 x M327 Rifled Mortar

- 120 mm
- Range: 8.2 km
- Weight: 1,800 lbs
- (MV-22 internally transportable)



### 8 x M252 Mortar

- 81 mm
- Range: 6.0 km
- Weight: 91 lbs



### 9 x M224 Mortar

- 60 mm
- Range: 3.5 km
- Weight: 47 lbs



## Types of Projectiles Available

	Caliber (mm)	Range (km)	Coverage (km2)	High Explosive	Dual Purpose Improved (Cluster)	Minefield	Laser Guided	GPS Guided	Smoke	Illumination	Gas
M777	155	30	2,827	X	X	X	X	X	X	X	X
M327	120	8.2	211	X					X	X	
M252	81	6.0	113	X					X	X & IR	
M224	60	3.5	38	X					X	X & IR	

ARG ships carry 15 days of ammunition for embarked weapons

## Humanitarian Assistance

The ARG/MEU team can provide significant assistance in response to humanitarian and disaster events.



### Medical

#### ARG

- 7 physicians and 3 dentists
- 5-9 operating rooms
- 7-25 intensive care beds
- 730-800 ward and triage beds

#### MEU

- 2 physicians and 2 physician assistants
- 78 corpsmen
- Shock trauma platoon
- 30-bed evacuation ward
- casualty evacuation



### Water

#### ARG

- Produce 332,000 gallons of potable water per day at sea

#### MEU

- Produce 24,000 gallons of potable water per day ashore



## General Engineering

### MEU

- Mobile power generators
- Bulldozers and excavator
- Forklifts

### Transport and Distribution

#### ARG

- 4-7 LCAC and LCU's
- 2 medium lift helicopters

#### MEU

- 16 medium and heavy lift helicopters
- 15 AAVs
- 38 medium lift trucks

*ARG/MEU capabilities are self-supporting and have minimal impact on a fractured infrastructure:*

- Berthing and feeding of teams aboard ship
- Aircraft basing on ships
- Self-contained landing craft facilities (well-decks)
- Significant communications and C2 facilities

## Non-combatant Evacuation Operations—*Globally Protecting US Citizens*

### *Forward deployed; ready to assist*

In the past twenty years over 20,000 American and partner nation citizens whose lives were in danger in a host nation have been evacuated by U.S. Marines from amphibious ships to a safe haven



Non-combatant Evacuation Operations (NEO)				
Operation	Location	Year	Evacuees	
			US	Total
<i>Lebanon NEO 2006</i>	Lebanon	2006	14,000	
<i>Safe Departure</i>	Asmara, Eritrea	1998	105	172
<i>Noble Obelisk</i>	Sierra Leone	1997	451	2,510
<i>Guardian Retrieval</i>	Congo (formerly Zaire)	1997		532
<i>Silver Wake</i>	Albania	1997		900
<i>Quick Response</i>	Central African Republic	1996	208	448
<i>Assured Response</i>	Liberia	1996	480	2,780
<i>Distant Runner</i>	Rwanda	1994	148	230
<i>Eastern Exit</i>	Somalia	1991	281	
<i>Sharp Edge</i>	Liberia	1990	330	3,020

Sea-based, Scalable, Flexible Engagement Capability

Foreign area specialists  
Training and advisor teams

Teams

Training teams  
Deployed dets

Detachments /

ARG/MEU

MAGT

*Comprehensive range of engagement*



**Teams**

**Integration with country team  
Situational insight**



**Elements / Platoons**

**Advice to commander and staff  
Mil-to-mil technical assistance  
Build partner capacity**



**MAGTF**

**SOF integration  
Security exercises  
Mil-to-mil contact**

*ment with minimal footprint ashore*

## **ARG/MEU Employment**

An ARG/MEU is best employed as designed—as *a single entity*. As such, they are not only capable of conducting the full range of missions, they can conduct many of them simultaneously and/or in rapid succession in accordance with GCC priorities and emerging crises. Given the increased demand for military engagement, security cooperation and crisis response capabilities, GCCs may choose to employ tactics that involve greater dispersion of the ships at sea and the conduct of littoral maneuver.

Additionally, operational necessity may occasionally require ARG/MEUs to be divided into smaller, more widely separated formations. Doing so imposes risk and is not the preferred method of employment. When operational necessity makes such risks acceptable, an ARG/MEU may operate in a *split* or *disaggregated* manner.

***Split operations*** require elements of the ARG/MEU to function separately for short durations and/or distances, with the PHIBRON and MEU commanders retaining control of all forces under the same GCC.

***Disaggregated operations*** require elements of the ARG/MEU to function separately and independently, regardless of time and distance, with elements under a command relationship that changes/limits the PHIBRON and MEU commanders' control of their forces. The ARG/MEU may be disaggregated within a GCC's AOR or elements of the ARG/MEU may be attached to a different GCC.

Although ARG/MEUs are highly capable and flexible organizations, there are some limitations on key enablers that constrain tactics and employment options if required to operate in a split or disaggregated manner.

Augmentation of medical, intelligence, aviation, and beach support party personnel and equipment may be required to continue to meet operational requirements under these circumstances.

## ARG/MEU Highly Relevant Force



### **Flexibility to respond to global instability and enabling maximum freedom of action with the least risk**

- Versatile, sea-based capability for the era of uncertainty
- Proven, flexible utility in peace and conflict
- Leverages our command of the seas to build necessary partnership, exert timely influence, and deter conflict
- Forward to respond to crises with a variety of essential capabilities
- Enables strategic conditions for an expeditionary-dependent military



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