



U.S. MARINE CORPS FORCES, PACIFIC



CEROS Industry Day

Donn Murakami
September 14, 2009



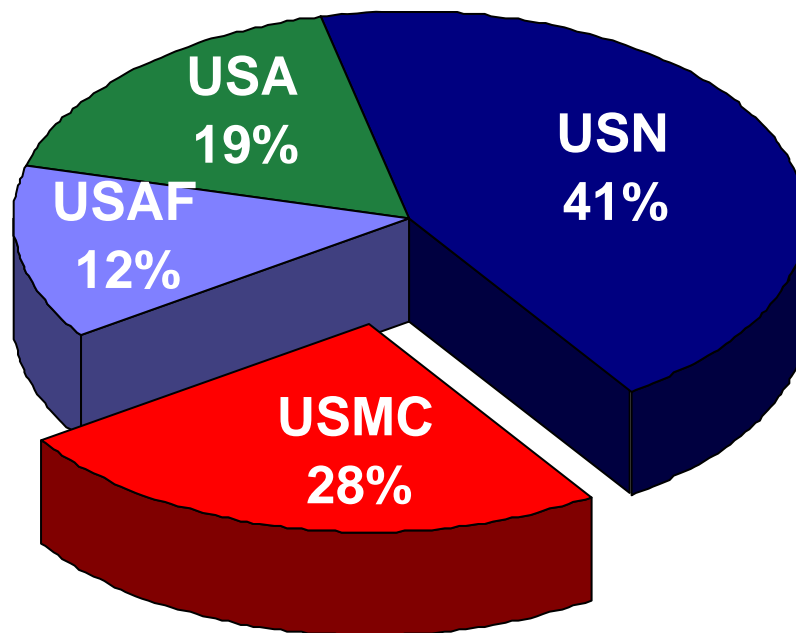
PACIFIC COMMAND

AUTHORIZED STRENGTH

PACOM = 310,000

MARFORPAC = 91,400 (86,373 Combat Forces)

Marine Family Members = 70,000



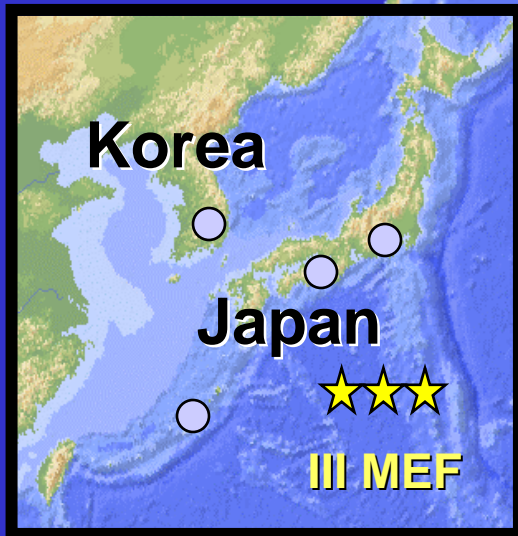
UNCLASSIFIED

FORCE LAYDOWN

OPERATING FORCES

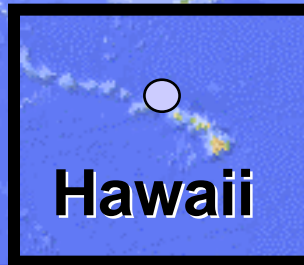
III MEF

3d Marine Division
1st Marine Air Wing
3d Marine Logistics Group
31st Marine Expeditionary Unit (SOC)



MCAS Iwakuni
MCB Camp Butler
Camp Fuji
MCAS Futenma
MCB Mujuk

MCBH Kaneohe Bay/Camp Smith



U.S. MARINE CORPS
FORCES, PACIFIC

U.S. MARINE CORPS
BASES, PACIFIC

FLEET MARINE FORCES
PACIFIC

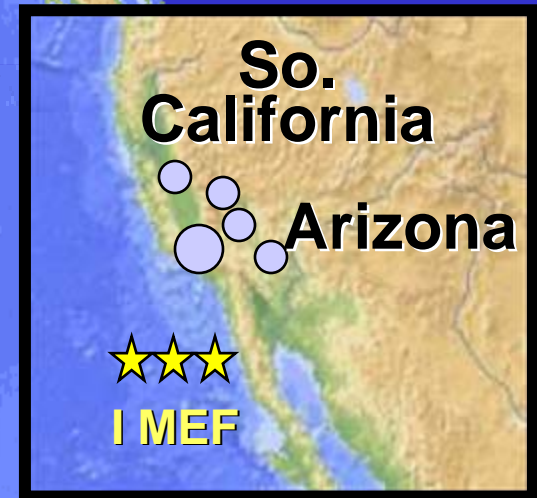


~91,400 Marines, sailors, and civilians

OPERATING FORCES

I MEF

1st Marine Division
3d Marine Air Wing
1st Marine Logistics Group
11th/13th/15th MEU (SOC)

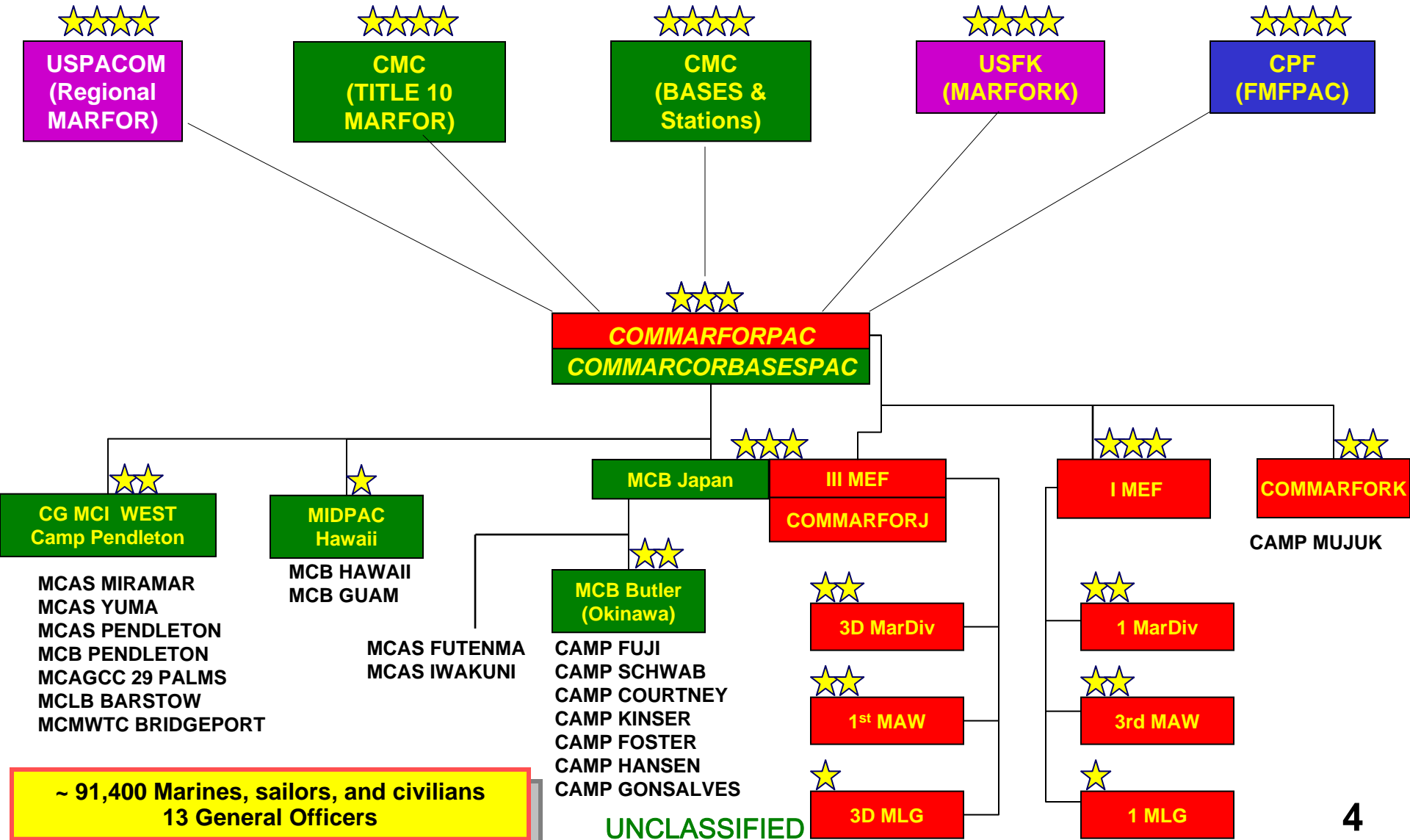


MCIWEST

- MCB Camp Pendleton
- MCAS Camp Pendleton
- MCAS Miramar
- MCB Barstow
- MCAS Yuma
- MCMWTC Bridgeport
- MCAGCC 29 Palms

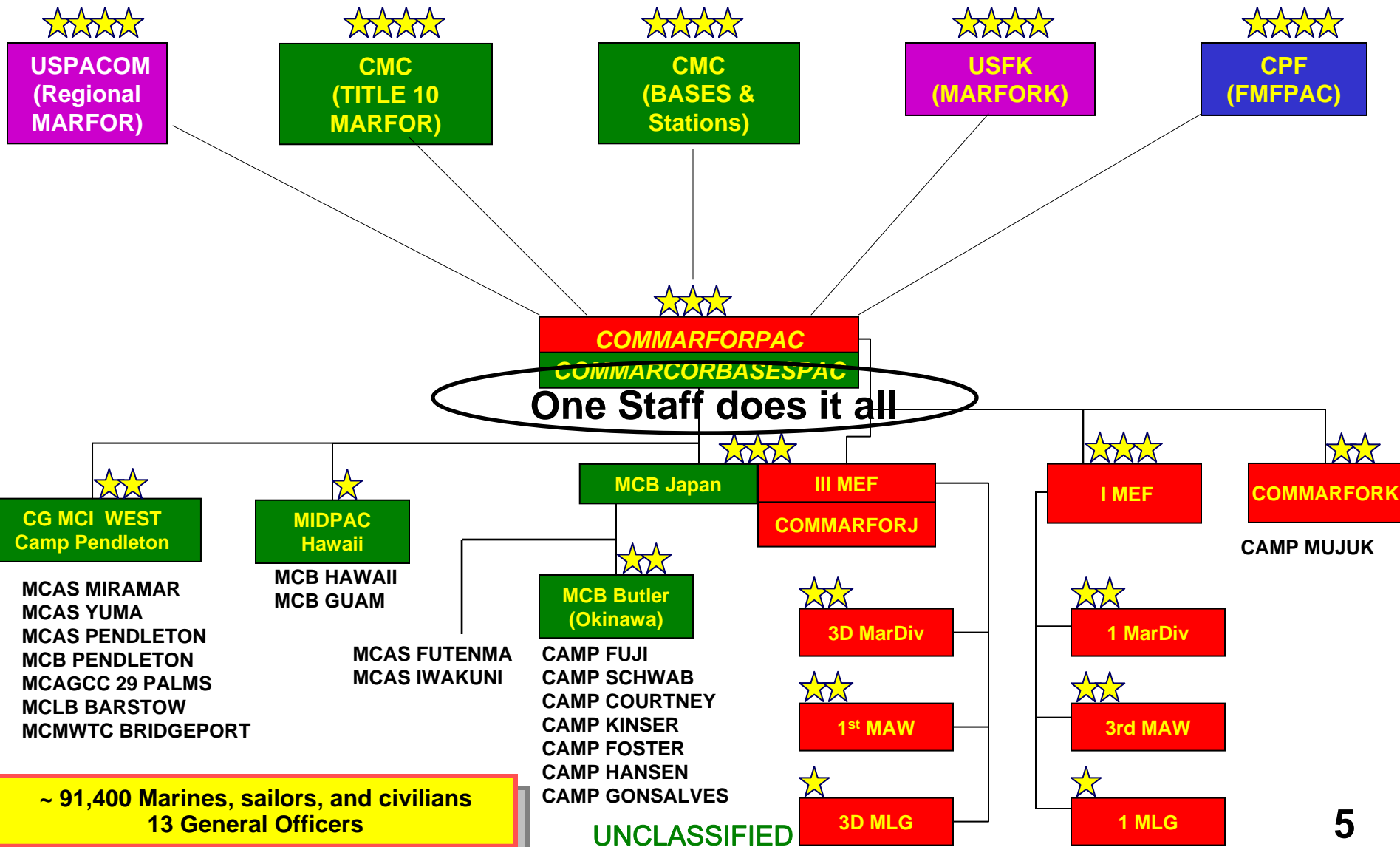


MARFORPAC RESPONSIBILITIES





MARFORPAC RESPONSIBILITIES



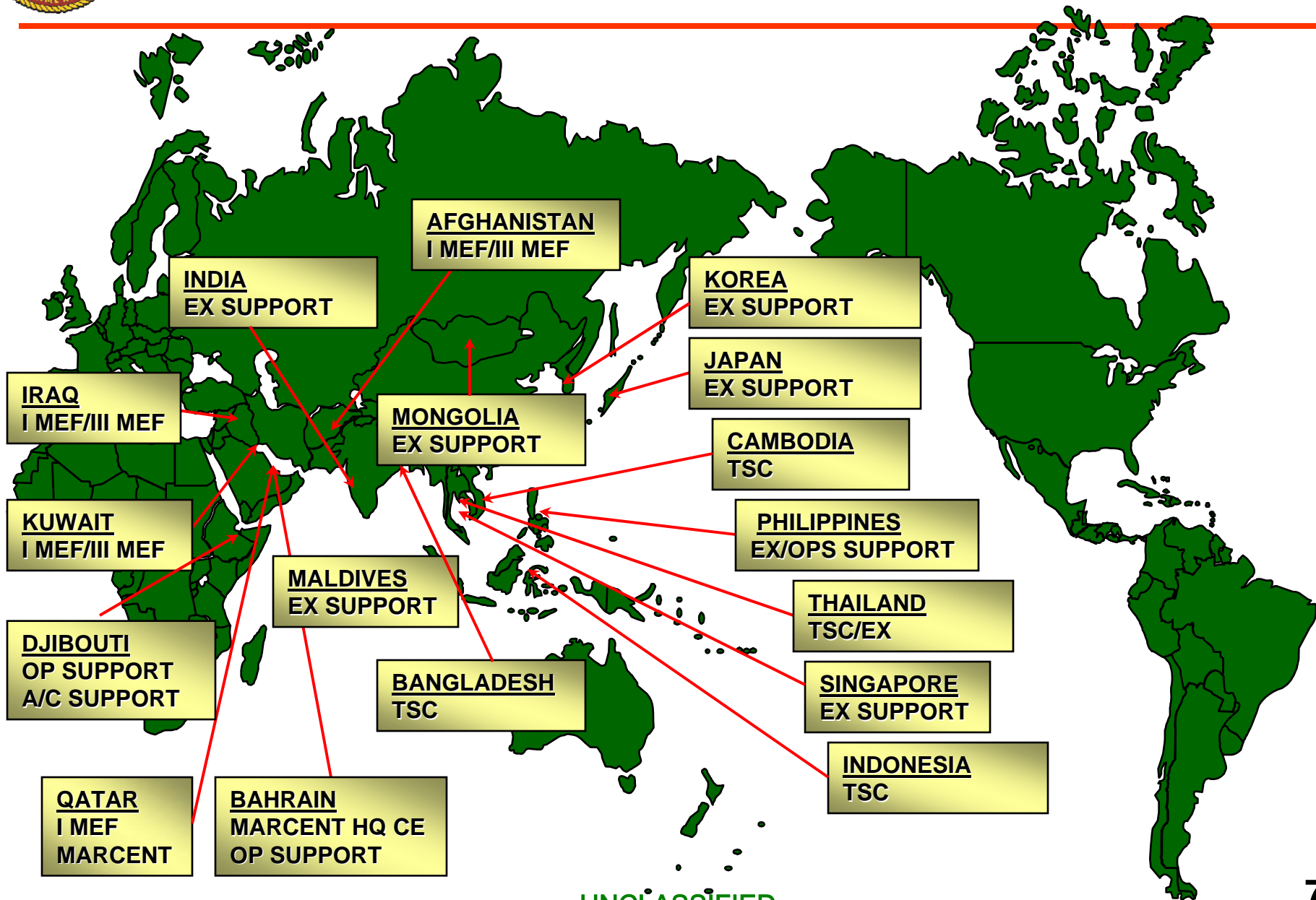


MFP as Force Provider

- On any given day, MARFORPAC Marines and Sailors are deployed around the Globe, to include Afghanistan and Iraq.
 - Example: 11,961 deployed to CENTCOM ISO OIF/OEF (as of 20 Jan 09)
- The challenges faced in Afghanistan and Iraq are some of the problems we need your help to solve.



MARFORPAC GLOBAL DEPLOYMENTS





CG Technology Priorities

As outlined during the PACOM S&T Conference - 4 Aug 09

- Coalition Operations - Language, information sharing, translation of PowerPoint slides, etc.
- Cyber Security
- Defeating IEDs
- Integrate Systems - Information and C2 systems need to become more interoperable using universal communication methods.
- Mine Countermeasures
- Shallow Water ISR - To enable operations in the littorals
- Battlespace Awareness
- Lethality of Maneuvering Units
- Training - Enable training in the areas above.
- Prevent Technical Surprise - Predict adversary actions



Coalition Operations

- Language translation – PowerPoint, email, chat.
- Winning the hearts and minds
 - Training tools for language and cultural understanding
 - Language agnostic communications
 - Improved biometric identification technologies
- **Focus Areas: Asymmetric & Irregular Warfare**
 - Social-Cultural Domain Analysis
 - Influence Operations Enablers
- Information Superiority & Communication
 - Info Processing, Discovery, Integration & Presentation

2009 Naval S&T Strategic Plan

<http://www.onr.navy.mil/About.asp>



Tactical Wheeled Vehicle Fire Suppression

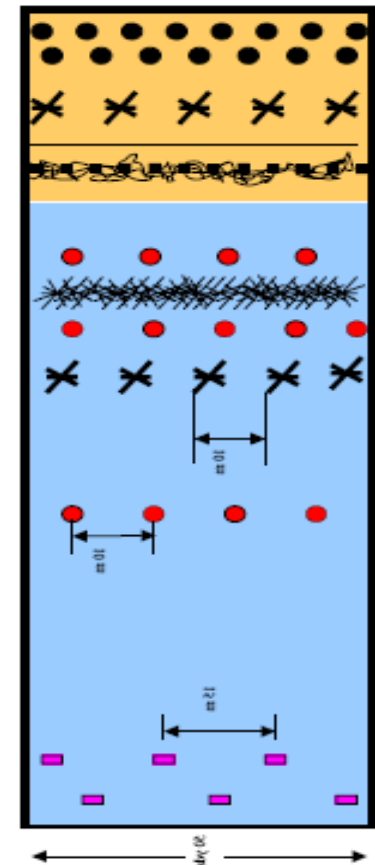
- Prevent death/injury, damage to vehicles resulting from **secondary fires after IED attacks** on tactical vehicles
- Lightweight fire proof fabric
 - Clothing, protective blankets, protective layering on vehicles and components.
- Aqueous based systems to protect crew and vehicle
- **Focus Areas:** Asymmetric & Irregular Warfare - Counter IED, Survivability
- Distributed Operations – Lethality & Survivability





Mine Countermeasures

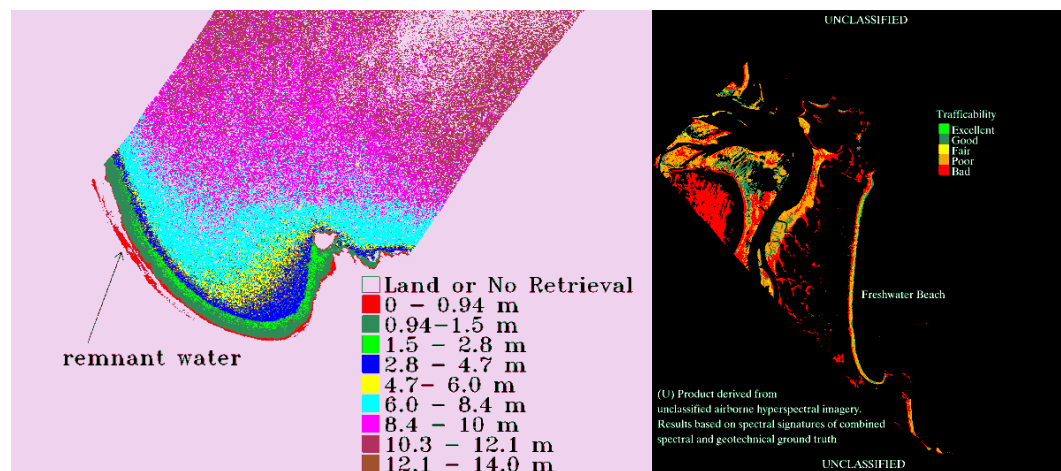
- Example: Single UAV package with sensors to detect and map mines deployed from shallow water to beach
- System to rapidly mark and destroy mines to clear a landing corridor in a matter of hours
- **Focus Area:** Assure Access & Hold at Risk
 - Mine Neutralization





Shallow Water ISR

- Need for geospatial products for **ground trafficability and near-shore bathymetry**
 - Aircraft, space based
 - Hyperspectral Imagery
- **Focus Area:** Maritime Domain Awareness
 - Automated Image Understanding





Cross Domain C2, ISR, Comms on the Move

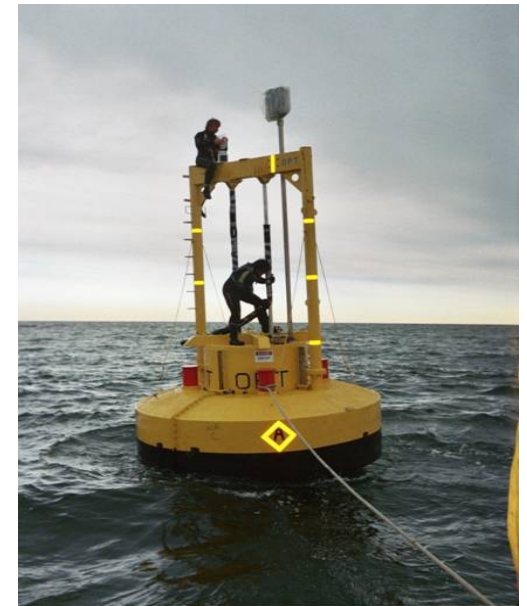
- Need for **Coalition Comms, ISR, and C2** at the lowest levels (company) to enable distributed operations and maneuver warfare
- **Focus Area:** Distributed Operations
 - Expeditionary C4
 - Expeditionary ISR
 - Communications & Networks





Renewable Energy for FOBs, Bases, & Stations

- **Provide renewable energy solutions** for remote or forward bases and training areas
 - Enable self sustained training ranges across Pacific
 - Reduce cost and burden on local infrastructure (e.g. Guam)
 - Solar, wind, wave, waste-to-energy, etc.
 - Energy storage
 - Grid management
- **Focus Area: Power & Energy**
 - Energy Security
 - Efficient Power and Energy Systems
- **Distributed Operations**
 - Expeditionary Logistics





Thank You!

Donn Murakami
donn.murakami@usmc.mil
(808) 477-8909