

Department of Aviation, HQMC

Naval Aviation's Future: Leadership & the Challenges

Presented to

7th Annual Expeditionary Warfare Conference October 23, 2002

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Outline

- Philosophy and Vision
- Change
- TacAir Integration
- Marine Aviation Way Ahead





Philosophy

Naval Solution

- One Team
- One Vision



Six Functions of Marine Aviation

- Offensive Air Support
- Anti-Air Warfare
- Electronic Warfare
- Assault Support
- Control of Aircraft and Missiles
- Reconnaissance







Marine Aviation's Role





<u>Operational Flexibility</u> for Expeditionary Maneuver Warfare



Change within ACE Concept of Operations

2015 ACE Capabilities Responding to omorrow's Threat ANATION PROSPANS

Legacy **Platforms**

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CONCERS

KCMO CT

Challenges TacAir Integration Modern Aircraft Transitions **Combat Air Forces New Aircraft Basing MACCS Modernization Enhanced Seabasing**

Battlespace Awareness

Operational Reach

Interoperability

Flexibility

Lethality

Survivability



ACE Initiatives ISO EMW

Strategic Agility

- Rapid Self Deployment Capability of Aircraft—TacAir, MV-22, KC-130J
- Capable of both land-based Expeditionary operations and Sea-Based operations

Operational Reach

 Modern Aircraft enable substantial increase in Range, Payload & Survivability over Legacy Aircraft

- JSF, KC-130J, MV-22, H-1(Y/Z), CH-53X
- KC-130J extends Combat Range/Radius of JSF, MV-22 & CH-53E

Tactical Flexibility

- Versatility of Platforms across Full Spectrum of Conflict



ACE Initiatives ISO EMW

Support and Sustainment

- Aircraft and Munition Neckdown Strategy—J-Weapons
- -Commonality of Platforms
 - MV-22, KC-130J & CH-53X Engines
 - UH-1Y and AH-1Z Engines & Avionics
- -Marine Aviation Logistics Support Program
 - Enables rapid and sustained support to the ACE

Joint/ Multinational Enabling

- Scalable ACE with Joint/ Combined C2 Plug-in
- Common Aviation Command and Control System(CAC2S)—Modular and Scalable with joint interoperability





Harness Change in order to Retain our Culture within Expeditionary Maneuver Warfare



What Change?

Change Period: 2003-2015

- TacAir Integration
- Legacy to Modern Transition
- MACCS Modernization
- New Basing Requirements
- AAAV
- LW-155
- New Infantry Weapons

How We Change will Dictate the Marine Corps' Future for the Next Half Century

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TacAir Integration







Tasking

- Answer Defense Planning Guidance Tasking:
 - "...conduct a comprehensive review to assess the feasibility of integrating all Naval aviation force structure. Naval Aviation structure must continue to provide flexible, responsive, interoperable and expeditionary forces that support Combatant Commanders and joint forces. The integration of aviation capabilities should <u>seek both</u> <u>effectiveness and efficiencies</u>."



TacAir Integration

- Retains our Culture—This is not a New Concept
- Smaller, More Capable, More Affordable Force
- Ensures TacAir Support to the MAGTF
 - Allows Global Sourcing of all DoN TacAir Assets
 - USMC CAS Expertise on Every Carrier
- Increased Combat Capability Forward
- In Concert with Sea Basing Concept
- Reinforces Expeditionary Ethos



Aircraft Transition

- KC-130J
- F-18 E/F
- F-18 C/D
- MV-22
- JSF
- H-1Y/Z
- CH-53X
- EW



KC-130J





F/A-18E/F





F/A-18C





F/A-18D





MV-22











UH-1Y





AH-1Z





CH-53X









The Challenge is Maintaining Readiness & Warfighting Relevance



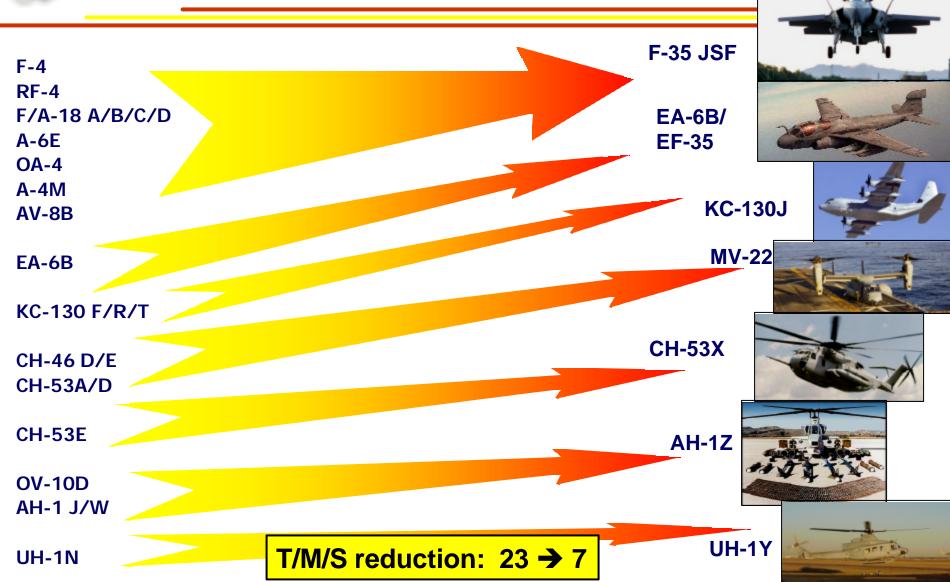
Throughout the Transition from Legacy to Modern Platforms

in support of Expeditionary Maneuver Warfare





USMC Platform Roadmap



MACCS Modernization





CTN



CLAWS



CAC2S



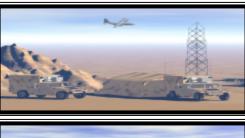


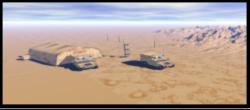
Convergence of Marine Aviation's MACCS capabilities to support Expeditionary Maneuver Warfare

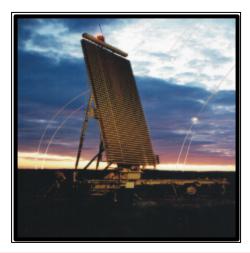


Joint/Multinational Enabling: Aviation Command & Control









MACCS

- Interoperability
- Modern Info Technology
- Expeditionary Packaging
- MAGTF "Info Warrior"
 - Operator
 - Maintainers

• Scaleable

- Modular
- Joint
- Common Hardware
- Defense Information Infrastructure (DII)

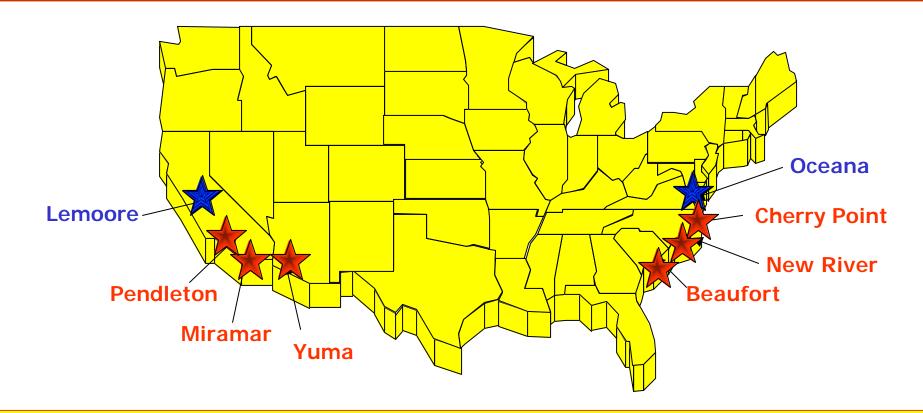
• Common Operating Environment (COE) Complaint Software

Aviation Ground Support Enabling Expeditionary Marine Air





Basing Challenges



Pendleton—Miramar—Yuma—Cherry Point—New River—Beaufort

Lemoore—Oceana



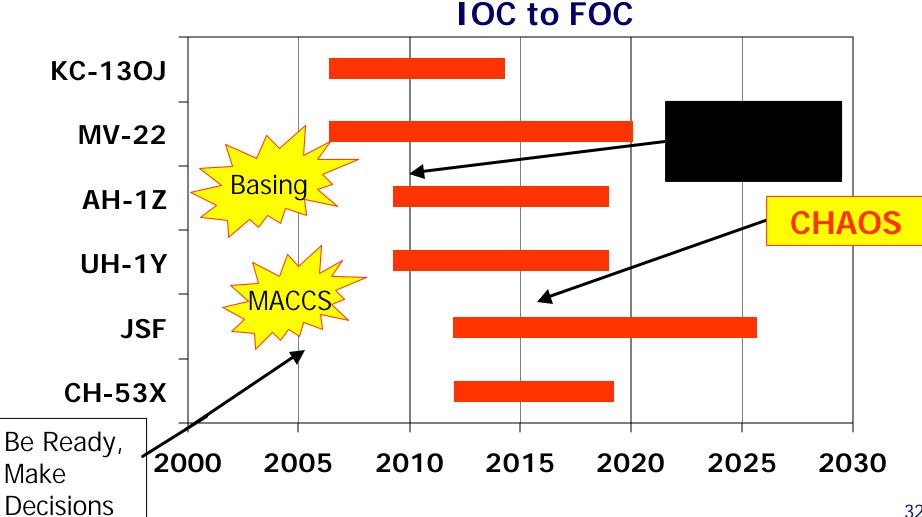
Future Bases & Stations

- Strategic Reachback
 - Worldwide Access to Info & Analysis
- Enhance Networked Sea base
 - Counter to Anti-access and Area Denial Strategies
 - Minimizes Footprint Ashore
 - Enhanced Force Protection
- Strategic Sustainment for Deployed Forces
- Networked Foundation for Joint Training

Minimizing Overhead, Resourcing Warfighters



_egacy to Modern Transition Chaos





The Way Ahead





- Execute TacAir Integration within Concept of Expeditionary Warfare & Maneuver from the Sea
- Transition from Legacy to Modern Aircraft (STOVL Force)
- Integration of All Naval Aircraft with Naval C41











2003-2008

- Aviation & Ground Safety is Primary Focus
 - Preserve our Most Important Assets— Marines, Sailors & Equipment
- Transition Plan
- Budget
- Readiness

We Must Maintain Combat Readiness



Philosophy

Naval Solution

- One Team
- One Vision

Our Mission Remains the #1 Priority

