

Headquarters U.S. Air Force

Integrity - Service - Excellence

EC-130H Compass Call



Capt Jimmy “Juan” Maday

43 ECS/DOW

8 Sep 2017

Version 1



Overview

- Introduction & history
- Mission sets
- Aircraft & hardware
- Strengths and challenges
- Summary
- Closing/questions





Introduction

- Disrupt enemy command and control communications
- Provide Precision Electronic Attack (EA) and Offensive Counter-Information capabilities
- US and Coalition tactical air, ground, maritime and special operations forces



BOTTOM LINE: COMPASS CALL JAMS!!!



Introduction



Breaking Barriers ... Since 1947



41st Electronic Combat Sq

- Deploy combat-ready EC-130H crews to unified combatant commanders: CENTCOM & EUCOM
- Develop and refine EA TTPs to combat emerging threats
- Mentor and grow the next generation of Air Force Leaders
- ORIGIN: WWI, 4th Balloon Sq, 13 Nov 1917; Re-designated as 41 ECS 17 Jun 1980





42 Electronic Combat Sq

- **“Train Professional Aviators”** in 11 different crew positions and instructor upgrades as the Air Forces sole EC-130H Formal Training Unit (FTU)
- Graduate approximately 200 students a year
- Support with training, deployed manpower & reach back support
- Provide qualified experts to support AF & DoD requirements
- **ORIGIN: WWII, 42d Recon Sq, 24 Oct 1945 42d Tactical Electronic Warfare Squadron (Vietnam); Re-designated as 42 ECS, 9 Mar 2006**





43 Electronic Combat Sq

- Provide combat-ready Airmen, delivering electronic attack at a moment's notice anywhere: esp. PACOM
- Execute initial and continuation training for 140 Airmen while supporting overseas contingency ops
- Deliver premier Electronic Attack in support of national security objectives across the ROMO
- ORIGIN: WWI: 86th Aero Sq, 17 Aug 1917; Re-designated 43 ECS 6 Jun 1986





755th Operations Support Sq

- Supports world-wide combat mission and contingency taskings
- Directs operational support functions including plans, exercises, cryptologic training, ECG scheduling and weapons and tactics for five EC-130H COMPASS CALL squadrons
- Performs information warfare analysis, targeting and intelligence activities and conducts mission support for aircrew mission planning and combat system software





755th Aircraft Maintenance Sq

- Provide safe, reliable COMPASS CALL aircraft in support of 55 ECG operations and training
- Plans and executes all on-equipment aircraft maintenance actions for 14 EC-130H and one non-PME EC-130H aircraft
- Focuses efforts on training and equipping the world's best maintainers for future operations





Compass Call History

Operation JUST CAUSE

“The Army will never again go to war without COMPASS CALL”

General Carl E. Vuono, USA
Army Chief of Staff 1987 - 1991



Operation SOUTHERN WATCH

Operation VIGILANT WARRIOR

Operation DENY FLIGHT

Operation DELIBERATE FORCE

Operation ALLIED FORCE

Operation WILLING SPIRIT

Operation IRAQI FREEDOM

“COMPASS CALL saved my life”

Maj Gen James N. Mattis, USMC
Commander, 1st Marine Division 2003



Operation ENDURING FREEDOM - FREEDOM'S SENTINEL

Operation INHERENT RESOLVE

Participated in every major American combat operation since 1989...

Breaking Barriers ... Since 1947



Mission Sets

- **Air Operations**
- **Ground Operations**
- **Maritime Operations**
- **Amphibious Operations**
- **Special Operations**
- **Tactical Deception**
- **Electronic Warfare Support**
- **Irregular Warfare**





Aircraft & Hardware

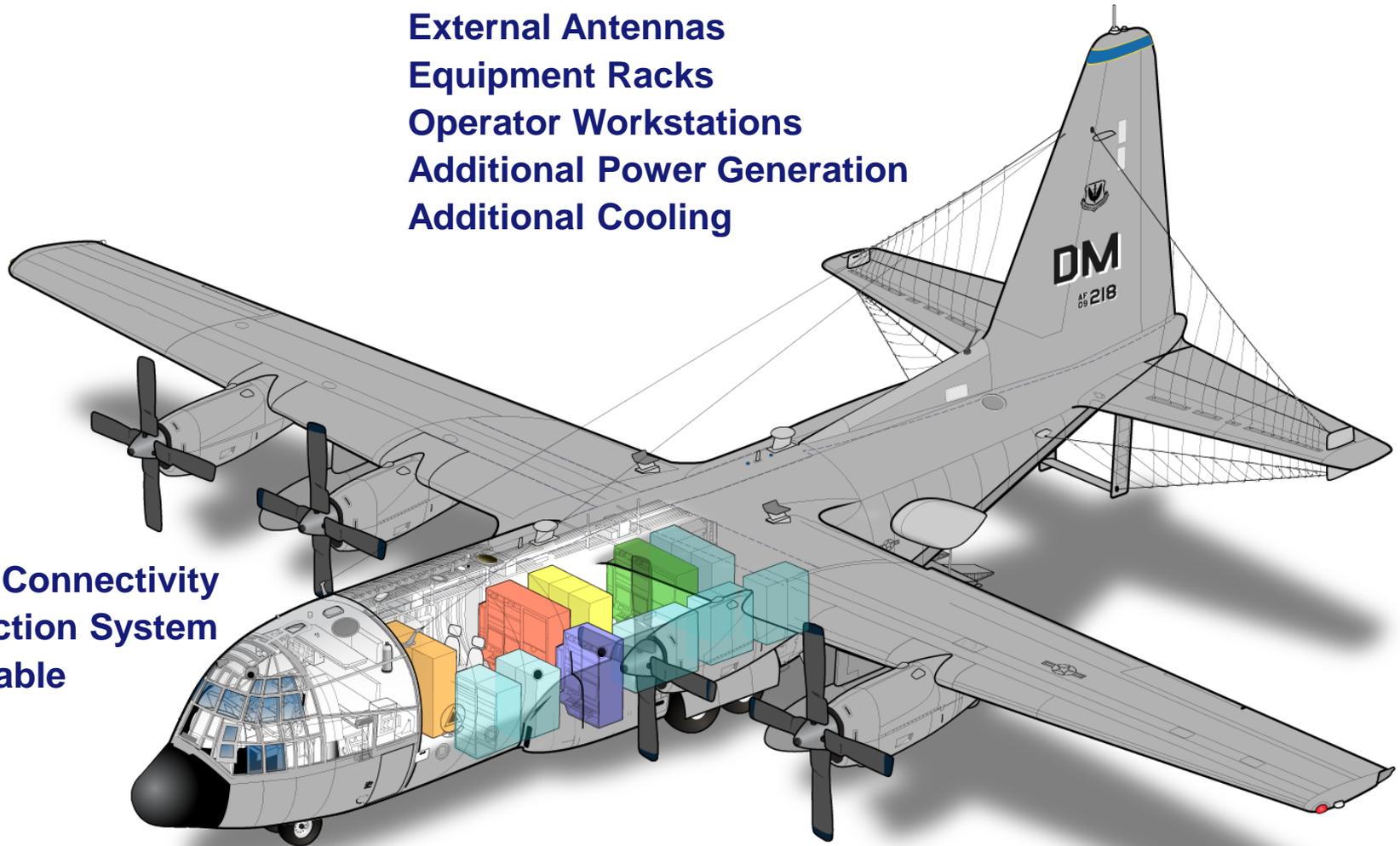
- **Modified C-130H Airframe**
- **Crew Complement**
 - **5 Flight Crew**
 - **8 Mission Crew**
- **Orbit Altitude: Up to 25,000 feet**
- **Cruise Air Speed 270 Knots**
- **Flight Time**
 - **7 Hours (Unrefueled)**
 - **Limited by duty day (Air Refueled)**
- **Extensive Communication Systems**





Aircraft & Hardware

External Antennas
Equipment Racks
Operator Workstations
Additional Power Generation
Additional Cooling



Extensive Connectivity
Self Protection System
Air Refuelable

Breaking Barriers ... Since 1947



Strengths & Challenges

■ **Strengths:**

- **Representation at HAF for QRCs which easily modify our aircraft combat effectiveness**

■ **Challenges:**

- **LDHD asset – Air Force’s only Electronic Attack Aircraft and only 15 in the world**
- **Lack of funding and program uncertainty**
 - **Divestiture**
 - **Cross-deck (EC-X)**
- **Average aircraft age 45+ years old**



Summary

- Introduction & history
- Mission sets
- Aircraft & hardware
- Strengths and challenges
- Summary
- Closing/questions





EC-130H Compass Call

■ Questions?

