

Headquarters U.S. Air Force

Integrity - Service - Excellence

UAS Workshop— DOD Requirements and Advocacy



**AF/A30-W
8 Nov 12**

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Joint Typhoon Warning Center (JTWC) Pacific Support

- **JTWC supports PACOM theater operations, plus much more...**
- **JTWC supports DoS/Embassy ops – DoS has labeled this century as “America’s Pacific Century”**
 - **Critical direct spt to allied RIMPAC nations underway**
- **JTWC supports DoC via Nat’l Hurricane Ops Plan**
 - **Provides surveillance fixes to Central Pac Hurricane Ctr**
 - **Provides Warnings, prog reasoning, etc. to NWS Guam**
 - **Initiates, monitors and updates satellite invest areas to TC Satellite websites at FNMOC & NRL to support NWS Guam and CPHC**



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Joint DoD Requirement Gaps

- **Ocean Sfc Vector Winds (OSVW)**
 - Coverage Area: (PACOM AOR) 30E – 80W;
 - Currently provided by WindSat and Scatterometer (EUMETSAT) data
 - Refresh requirement min every 6 hours

- **Tropical Cyclone (TC) Intensity**
 - Covered Area: (PACOM AOR) 30E – 80W
 - Currently provided by DMSP and GCOM (JAXA)
 - Refresh requirement min every 6 hours



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PACOM Needs

- **USPACOM revised Joint Typhoon Warning Center (JTWC) forecast goals for Trop Cyclone (TC) forecast track errors in 2009**
 - **Aside from combat, TCs account for greatest cost to DOD (prep and recovery)**

- **Satellite based remote sensing capability for TC reconnaissance will decrease in 2015-2020 timeframe, but partial capability projected to continue with DMSP through 2025**
 - **UAS capability may help fill satellite gap by providing TC reconnaissance data**



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Possible AF Contribution

- PACAF Air Operations Center willing to **explore** possibility of providing (at Guam) facilities (hanger, offices, etc.), maintenance capabilities, FAA assistance, fuel, etc.
 - Details and higher headquarters approval not worked out yet
 - PACAF reps will discuss further



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Bottom Line

- NASA demonstrated GH concept this hurricane season – gathering difficult-to-obtain measurements of wind speeds, precipitation, and cloud structures in and around tropical storms
- AF is an advocate for **exploring how we might extend** this capability in the PACOM theater
- Mr. Robert Falvey, JTWC, and Lt Col Jason Patla, Commander 17 OWS, Hickam AFB, Hawaii will cover further details later this afternoon