Office of Customs and Border Protection Air and Marine

Unmanned Aircraft Systems and the Homeland Security Mission

Presented by: Major General Michael C. Kostelnik USAF (Ret.)
Assistant Commissioner
U.S. Customs and Border Protection
Office of CBP Air and Marine

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CBP Air and Marine

- World’s largest law enforcement air and marine force
- 22 types of aircraft; 12 types of marine vessels
- Operating 272 aircraft and 181 marine vessels from 45 locations throughout the United States
- Leading edge deployment of UAS in the National Airspace
U.S. Customs and Border Protection
Securing the Borders and Preventing Acts of Terrorism

Field Operations

Office of CBP Air and Marine

Border Patrol
We protect the American people and Nation’s critical infrastructure through the coordinated use of integrated air and marine forces to detect, interdict and prevent acts of terrorism and the unlawful movement of people, illegal drugs and other contraband toward or across the borders of the United States.
CBP Air and Marine Operations Center
Riverside, CA

AMOC – DHS Center of Excellence

- 450 FAA, DoD and Aerostat radar feeds
- Multiple law enforcement data bases and communications networks
- Detects, sorts, and monitors suspect air and marine tracks of interest
- Building command and control center and intelligence teams for National UAS operations
Southwest Border Region

- 2000 miles of border
- 22 Air and Marine locations
- 129 aircraft and 72 vessels
- Illegal immigration and drug trafficking
- Contraband transported by vehicles, pack animals and humans
Northern Border Region

- Longest unprotected border in the world: 4000 miles
- Illegal immigration and drug trafficking
- 12 Air and Marine locations
- 35 aircraft and 60 marine vessels
- Threats include air, marine and ground
- 5 air wings opened since 2003
Southeastern Coastal Region

- More than 2,000 miles of coastline
- 27 Air and Marine locations
- 51 aircraft and 46 marine vessels
- Illegal immigration and drug trafficking
Provide law enforcement support from existing A&M branches

Support includes
- Surveillance of persons, places and things for enhanced situational awareness and increased officer safety
- Tactical insertion of warrant teams

FY 2007 included 3,757 flight hours and 2,016 float hours
Mexico/Source/Transit Zone
Interdicting Drugs and Drug Traffickers

- Support to Mexican Law Enforcement: Operation Halcon
- Support to Joint Inter-Agency Task Force South (JIATF-S)
- Operations support Office of National Drug Control Policy (ONDCP)
- Semi-submersibles
Two additional Predator B’s to be delivered in FY 2008
Funding for additional aircraft in FY 2009 for maritime prototype
Predator B: Key Enabler for Homeland Security Mission!

Proven flight systems
- Predator family of aircraft flown by the USAF for more than 10 years and 350,000 hours
- Predator B has more than 1500 hours in border security role

High performance aircraft and multi-spectral systems
- 30+ hours flight time
- MTS B Electro Optical/Infrared Radar
- Lynx Synthetic Aperture Radar (SAR)
- Laser illuminator
- Large payload capacity for variety of sensors
- Baseline candidate for Maritime Variant

Worldwide Command and Control Capability Through Satellite Infrastructure
Predator Operations Today

- Libby Army Airfield, Sierra Vista, AZ
- A&M hub for testing, training and initial Arizona Border operations
- Four Predator B’s in service today
- Two more enter service in CY 2008; One more in CY 2009
- Operations to expand along Southwestern Border and to Northern Border in 2008

500 MILE COA

FUTURE DEPLOYMENTS TO FOLLOW

UAS Video
Joint maritime ACTD March 17-28, 2008
- Partnership with USCG, FAA and USAF
- Basis for joint maritime ORD – Predator B maritime variant
- Joint UAS Requirement’s Summit in July
- Joint CBP USCG program office established to develop maritime Predator B variant
Predator UAS Support
to DHS Hurricane Operations

- UAS and ground support equipment rapidly deployed from Sierra Vista, AZ to NAS Corpus Christi, TX
- Mission prioritization and FAA coordination at AMOC in Riverside, CA
- 74.9 hours flown; more than 260 points of interest mapped or viewed

- 11.9 hour flight covering Georgia, South Carolina and North Carolina Coast
- Pre- and Post- hurricane Synthetic Aperture Radar mapping
- Imagery analysis by CBP Air and Marine
- Streaming video provided to multiple customers via website

U.S. Customs and Border Protection

Fox News Video
Post Landfall Assessment
MTS-B EO/IR Camera

Damaged bridge over Roll Over Pass on Highway 87 North Of Galveston, TX
*Predator is at 27,000ft MSL*
*Range to bridge is 11.9 miles*

Damaged Property at Surfside Beach South of Galveston Texas
*Predator B is at 22,000ft MSL*
*Range to building is 7.4 miles*
Post Landfall Assessment
*Lynx Synthetic Aperture Radar*

**TARGET:** South Texas Nuclear Generating Station

**LAT/LON:** 28.7958° N 96.0512° W

**TOT:** 16 SEPT 2008 – 1823Z

No Visible Damage
CBP UAS Operations on Leading Edge

- Operating day and night along the Nation’s borders
- Operations to expand across Southwest and Northern Border as additional aircraft enter service
- Joint Program Office underway to develop Maritime Predator B
- Key air component of Secure Border Initiative