# 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** 

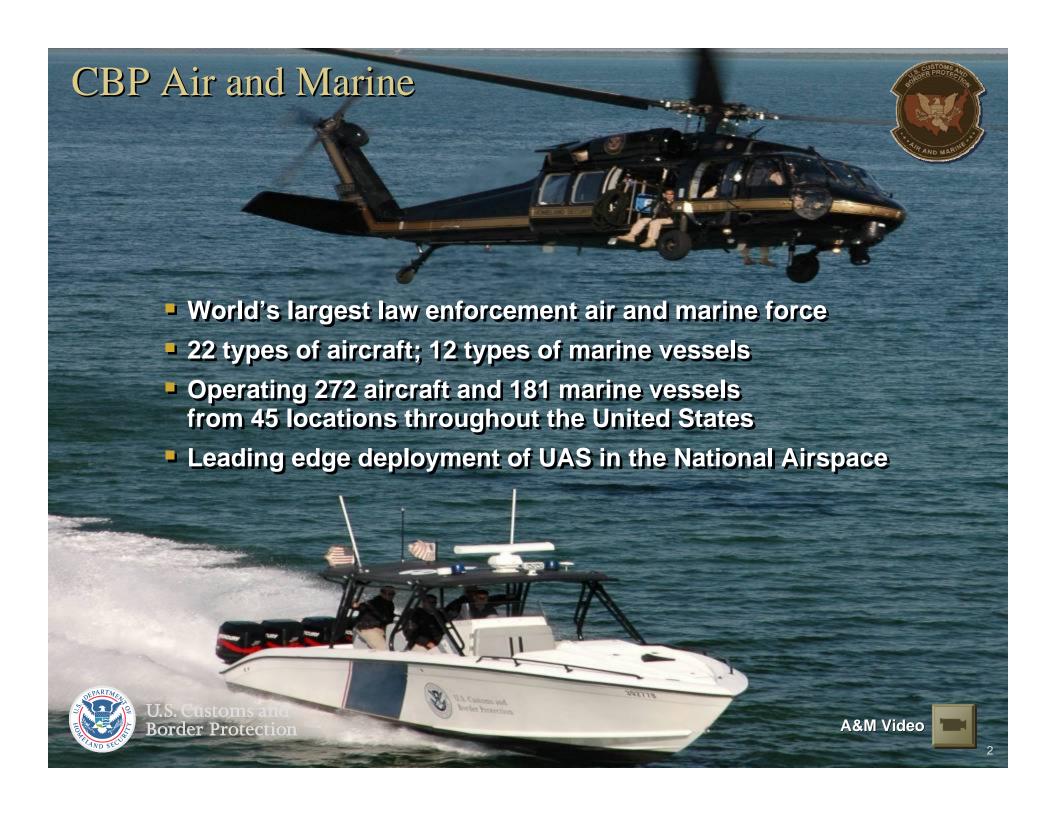
U.S. Customs and Border Protection

U.S. Customs and

Office of CBP Air and Marine

October 2008





### Department of Homeland Security







**FEMA** 



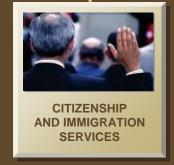
TSA



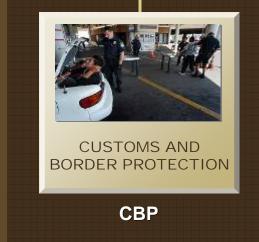
USSS



USCG



CIS



IMMIGRATION AND CUSTOMS ENFORCEMENT

ICE



## U.S. Customs and Border Protection Securing the Borders and Preventing Acts of Terrorism













Office of CBP Air and Marine



#### CBP Air and Marine Mission Statement



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 Operating Locations **Bellingham** Houlton Spokane **NORTHERN REGION** Montana North Dakota Plattsburgh Buffalo **Great Lakes NATIONAL UAS MISSIONS** Headquarters: Washington DC **ICE SUPPORT** AMOC: Riverside CA Albuquerque NATC: OKC Centro Tucson San Diego Sierra Vista El Paso NATC-ELP Jacksonville Marfa New Orleans Houston **National Marine Center** SOUTHWEST REGION Del Rio P-3 Ops Center-JAX Laredo 3 Ops Center Corpus Christi **SOUTHEAST REGION** McAllen (Marine) Training Center McAllen Aguadilla **MEXICO / SOURCE / TRANSIT ZONE** Mexico National HQ - Washington DC

Air and Marine

Air and Marine Training Centers

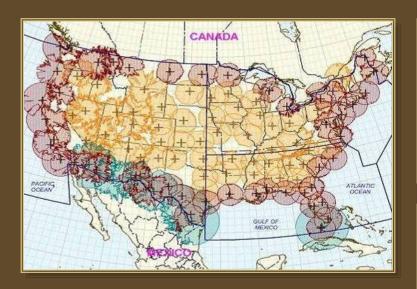


## CBP Air and Marine Operations Center *Riverside, CA*



#### 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

























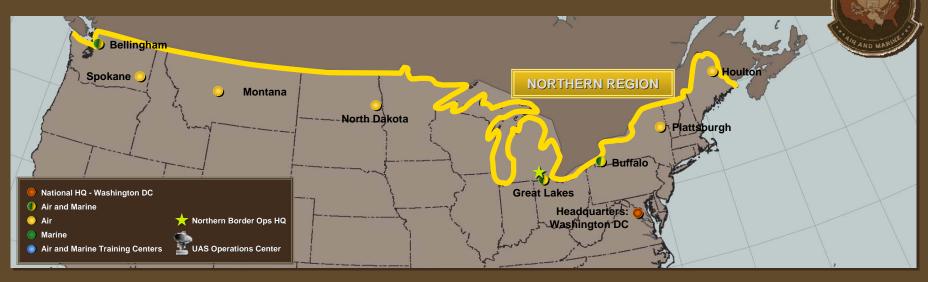






- 2000 miles of border
- 22 Air and Marine locations
- 129 aircraft and 72 vessels
- Illegal immigration and drug trafficking
- Contraband transported by vehicles, pack animals and humans

### 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





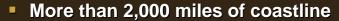












- 27 Air and Marine locations
- 51 aircraft and 46 marine vessels
- Illegal immigration and drug trafficking



#### Interior Enforcement: ICE Support **Bellingham** Houlton Spokane Montala North Dak ta Plattsburgh Buffalo Gra Lakes Headquarters: Washington DC ICE SUPPORT AMOC: Riverside CA Albuquerque NATC: OKC Centro Tucson San Diego NAT C-ELP L'acksonville New Orleans National Marine Center Hou ston De Rio P-3 Ops Center-JAX Ops Center Cc rpus Christi McAllen (Marir Training Cente McAllen Aguadilla CAMOC Mexico National HQ - Washington DC Air and Marine Provide law enforcement support from existing A&M branches Air ★ Wing Commander Support includes Air and Marine Training Centers UAS Operations Center - Surveillance of persons, places and things for enhanced situational awareness and increased officer safety



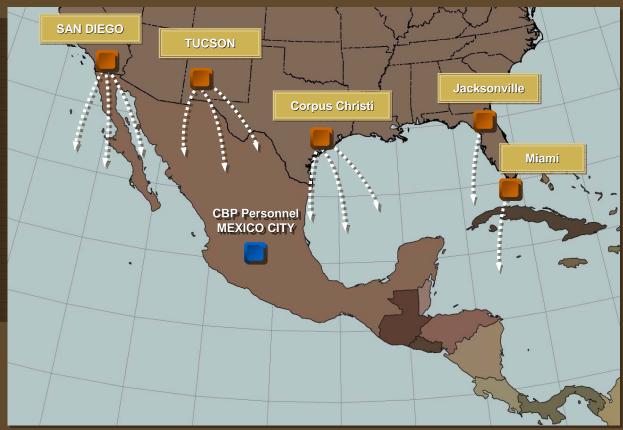
- Tactical insertion of warrant teams
- FY 2007 included 3,757 flight hours and 2,016 float hours

## 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



















### UAS Operational Deployment Key Component of Secure Border Initiative





- 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

CUSTOMS TO THE PROTECTION OF T

- 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





## 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







## 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





- 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



Force Multiplier to the Homeland Security Mission!



















