

Office of the Federal Coordinator for Meteorological Services and Supporting Research

Exploratory Mini-Workshop Utilization of Unmanned Aircraft Systems for Environmental Monitoring

AGENDA

February 4, 2011

9:00 AM	Administrative Information	Mr. Michael F. Bonadonna Senior Staff Meteorologist, OFCM
9:05 AM	Welcome	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
Session 1: Unmanned Aircraft System Applications for Environmental Research and Monitoring		
<p>The use of Unmanned Aircraft Systems (UASs) has the potential to substantially contribute to U.S. scientific research and operational forecasting by enabling the collection of atmospheric, oceanic, and remote land data in ways either not possible, or not prudent, by manned aircraft or other systems.</p> <p><i>This session will describe the UAS activities and interests of federal government agencies; explore their needs, requirements, and priorities; and identify gaps and leveraging opportunities.</i></p> <p>Facilitator: Mr. Rick Petty, Program Manager, Climate and Environmental Science Division, Office of Biological and Environmental Research, Dept. of Energy</p>		
9:15 AM	National Oceanic and Atmospheric Administration (NOAA) UAS Program	Ms. Robbie Hood UAS Program Manager NOAA
9:30 AM	National Aeronautics and Space Administration (NASA) UAS Program	Ms. Brenda Mulac UAS Program Lead Goddard Space Flight Center NASA
9:45 AM	Department of Energy (DOE) UAS Program	Mr. Rick Petty Program Manager, Climate and Environmental Science Division, Office of Biological and Environmental Research, Dept. of Energy
10:00 AM	U.S. Department of Agriculture (USDA) U.S. Forest Service (USFS) UAS Program	Mr. Everett Hinkley National Remote Sensing Program Manager U.S. Forest Service
10:15 AM	U.S. Geological Survey (USGS) UAS Program	Mr. Michael Hutt UAS Program Manager U.S. Geological Survey
10:30 AM	Session 1 Discussion	
11:30 AM	LUNCH BREAK	

Session 2: Challenges to the Development and Use of UASs for Environmental Monitoring

Full utilization of civil UASs is currently limited by several challenges, including securing sufficient resources, developing and approving standards for UAS operations, routine access to the National Airspace System, sustaining UAS infrastructure, and training. Our ability to address these and other challenges will determine the long-term effectiveness of UASs for environmental monitoring.

This session will review the key challenges to fully utilizing UASs for research and operational environmental monitoring.

Facilitator: Mr. Michael F. Bonadonna, Senior Staff Meteorologist, OFCM

1:00 PM	Federal Aviation Administration (FAA) UAS Policies and Procedures	Mr. Randy Willis Air Traffic Control Specialist, Unmanned Aircraft Systems Group, Headquarters, FAA
1:15 PM	Customs and Border Protection UAS Program Lessons learned	Mr. Tom Faller National Director, UAS Operations, U.S. Customs and Border Protection, Department of Homeland Security
1:30 PM	U.S. Coast Guard UAS Program Lessons Learned	LCDR Jeffrey Vajda Unmanned Aircraft Systems Joint Program Office U.S. Coast Guard
1:45 PM	USAF UAS Infrastructure and Training	Lt Col Peter "Pepe" LeHew , USAF Deputy Director ISR Innovations HQ USAF – A2
2:00 PM	U.S. Army UAS Program Lessons Learned	LTC Trey Kelley Chief External Programs, Cooperative Programs Integration Program Manager Unmanned Aircraft Systems U.S. Army
2:15 PM	Session 2 Discussion	
3:00 PM	BREAK (15 min)	

Session 3: Interagency Coordination and Strategic Planning for the Use of UASs to Support Environmental Monitoring

Several U.S. civil government agencies have UAS programs or plans and other agencies have potential applications, but we lack broad awareness of capabilities, needs, requirements, and priorities and an awareness of associated gaps and leveraging opportunities. Improved coordination among U.S. government agencies would increase the effectiveness and efficiency of UAS environmental monitoring operations and planning and maximize the national investment in these capabilities.

This session will explore efforts to coordinate the use of UASs across the federal government and how this coordination may be improved.

Facilitator: Mr. Kim Curry, Deputy Technical Director, Oceanographer of the Navy

3:15 PM	NOAA Unmanned Systems Strategy	Rear Admiral Philip M. Kenul Director, Marine and Aviation Operations Centers NOAA
3:30 PM	Interagency Working Group – Facilities and Infrastructure Task Force for Unmanned Systems (IWG-FI TFUS)	Dr. Reginald Beach Senior Scientist Office of Ocean Exploration and Research NOAA
3:45 PM	Collecting, Validating, and Documenting UAS Requirements for Environmental Monitoring	Mr. Matt Lucas NOAA UAS Program Office TriVector Services, Inc.
4:00 PM	Session 3 Discussion	
4:45 PM	Mini-Workshop Wrap Up and Action Items	Mr. Michael F. Bonadonna Senior Staff Meteorologist, OFCM
4:55 PM	Closing Remarks	Mr. Michael Babcock Deputy Federal Coordinator for Meteorology
5:00 PM	ADJOURN	