Scientific Committee for Oceanographic Aircraft Research

Ocean Sciences 2010

Town Hall Meeting:
The view from above!
Aircraft on ships? Who’d have thought?

Eugene Ely. Nov 1910
SCOAR MEMBERS as of OCTOBER 2009

Daniel Schwartz University of Washington
John Bane University of North Carolina
James Hain Associated Scientists at Woods Hole
Steven Ramp Monterey Bay Aquarium Research Institute
Daniel Riemer University of Miami, RSMAS
Richard Zimmerman Old Dominion University
Bob Bluth, (ex-officio) CIRPAS, Naval Postgraduate School
Haflidi Jonsson, (ex-officio) CIRPAS, Naval Postgraduate School
Roy Woods, (ex-officio) CIRPAS, Naval Postgraduate School
Steven Hartz, RVTEC Rep (ex-officio) University of Alaska
SCOAR Activities 2009-2010

June 11, 2009: SCOAR Teleconference Meeting


Nov. 9-10, 2009: ICCAGRA The Interagency Coordinating Committee for Airborne Geosciences Research and Applications. Tampa, Florida


Ocean Technology & Infrastructure Needs for the next 20 Years -- session at Ocean Sciences Meeting

The Center for Interdisciplinary Remotely-Piloted Aircraft Studies (CIRPAS) was established at the Naval Postgraduate School in Monterey, California by the Office of Naval Research in the Spring of 1996 to provide Manned and Unmanned Air Vehicle flight services to the scientific and engineering communities.

THE AIRCRAFT FLEET

UV 18-A Twin Otter

Pelican (2)

Predator (3)
CIRPAS Twin Otter
Center for Interdisciplinary Remotely-Piloted Aircraft Studies
FACILITIES:

- Marina Facility
  - 3500 ft runway - manned operations only
  - 30,000 sq ft maintenance hangar
  - Instrumentation and Calibration Laboratory
  - Maintenance and Payload integration shops
  - Offices
Twin Otter: Facility Payload

Wings: CAPS, FSSP, PCASP, CI P, PI P, APS

Hard points and pods for ‘research’ or ‘guest’ instruments

Aerosol and Cloud Spectrometers
Twin Otter: Facility Payload

Cabin: Nephelometer, Sootphotometer, CPCs, UFCPC, Data System

Racks for ‘Research’ and ‘Guest’ Instruments.
Stabilized Radiometer Platform

20 November 2002 SSFR Downwelling

20 November 2002 SSFR Upwelling
Autonomous Aircraft, Scripps, NOAA PMEL, UAF Adv.Ceramic Res. MANTA & launcher
Air (C-130)-deployable Coyote

Courtesy, USCG
MMS U. Michigan Flying Fish Self-relocating ATON Buoy used off Alaskan North Slope
PSEA AWS08 ship & aerial tracks

Courtesy USCG
Ice Seal Abundance, Distribution

Courtesy USCG
Bering Sea launch and recovery of UAF Unmanned Aircraft
At-Sea Launch and Recovery from an AGOR-sized vessel

NOAA / UAF Video

Welcome to our future!
What about a hybrid? UAS and Manned Aircraft...

More to come!
Thank You!