

May 24, 2016

Tentative Agenda
Scientific Committee for Oceanographic Aircraft Research (SCOAR)
CIRPAS Marina Airfield
3200 Imjin Road
Marina, California 93933
June 28-29, 2016

Important Logistical Information:

- **RSVP Please:** Your RSVP is requested at <office@unols.org> by June 6th if you plan to attend the meeting in person or via web conference.
 - **SCOAR Meeting Hotel** - A special hotel rate of \$149.00 + tax is available to SCOAR meeting participants. Please reserve your room by June 6, 2016 by contacting Casa Munras Reservation Line at (800) 222-2446 and mention the University of Rhode Island/UNOLS SCOAR Room Block.
 - **For Participants who cannot attend in person:** Webex Log in information:
To join the online meeting, go to:
<https://unols.webex.com/unols/j.php?MTID=m5a98a7b5497731adc9c97c0ad52e0476>
Meeting number: 808 325 512
Meeting password: aircraft16
Join by phone: 1-877-668-4490, Access code: 808 325 512
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Day 1, Tuesday, June 28th:

0830 Welcome and Introduction

- Welcome by SCOAR Chair – Luc Lenain
- Introduction of participants
- Review the Meeting Agenda

0845 Agency and UNOLS Reports

- **ONR** – Tim Schnoor (via Webex -10 minutes)
- **NSF Division of Atmospheric and Geospace Sciences** – Presenter Pending Confirmation (10 minutes)
- **NSF /PLR** – UAS Antarctic Operations – Presenter Pending Confirmation (10 min)
- **ICCAGRA** – Presenter Pending Confirmation (10 minutes)
- **Interagency Working Group on Facility Infrastructure, Subcommittee on Unmanned Systems (IWG-FI SUS)** Activities – Presenter Pending Confirmation (10 minutes)
- **USCG Report** – Phil McGillivray (10 minutes)
- **NOAA Aircraft Facilities and Operations** – Presenter Pending Confirmation (10 minutes)
- **NOAA's UAS Program** – JC Coffey (10 minutes)
- **UNOLS report** – Annette DeSilva (10 minutes)

1015 Break

1030 Agency and UNOLS Reports (*continued*)

- Airborne research developments (both unmanned and manned based) at NASA AMES - Fladeland, Matthew M

1055 CIRPAS Report - UNOLS National Oceanographic Aircraft Facility

- CIRPAS Operations Schedule for 2016 and beyond– Bob Bluth
- Airborne Research Activities – Past & Future Plans – Haf Jonsson
- Status of A-10 integration into CIRPAS – Bob Bluth
- CIRPAS NEPTUNE AUV Status – Bob Bluth
- Memorandum of Agreements – CIRPAS/NSF – Bob Bluth
- Looking forward – SCOAR's role
 - CIRPAS User Debrief Process

1155 Aircraft Operation Reports (NOAF) – Users of the National Oceanographic Aircraft Facility (NOAF) are invited to comment on field activities. Please contact Annette DeSilva <office@unols.org> by 6/1 if you wish to present.

1210 Lunch Break

1250 CIRPAS Facility Tour

1350 Manned and Unmanned Oceanographic Aircraft Development/ Operations at Institutions - (Non-NOAF):

- UAF UAV Operations – Ro Bailey (UAF) (15 min)
- WHOI Unmanned Aircraft Vehicle Operations – Report on WHOI UAV systems, operations, and planned activities – David Fisichella (15 min)
- UAS Activities at LDEO – Chris Zappa (15 min)
- Activities at Lone Star UAS FAA test site related to coastal mapping – Michael Starek (TAMUCC) (15 min)

1450 Break

1505 Manned and Unmanned Oceanographic Aircraft Development/ Operations at Institutions (Non-NOAF) (*continued*):

- SOI's plans for UAS operations from R/V *Falkor*– Stian Alesandrini (SOI) (10 min)
- U. Miami Helicopter Operations – Presenter Pending Confirmation (10 min)
- Airborne research of the CARThe project (<http://carthe.org/>) - Jeroen Molemaker (UCLA) (20 min)
- Duke Marine Lab's UAS facility – David Johnson (Duke U) (20 min)
- MBARI UAS program - Presenter Pending Confirmation (5 min)
- Survey to identify which institutions have, or are interested in a UAS

program - David Fisichella (15 min)

1625 Adjourn Day One

1630 SCOAR Executive Session

SCOAR Meeting, Day 2, Wednesday, June 19th:

Web/Phone Log-In is the same as Day 1.

0830 Day-2 Opening Remarks – Luc Lenain

0840 Technology Developments:

- Interferometric SAR and Scatterometry – Gordon Farquharson (UW/APL)

0900 FAA Regulations, policies, guidance and training for aircraft operations

- FAA section 333 update – TBD (15 min)
- Update on UAS Phantom 3 Pro operations and FAA Section 333 exemption - Jim Hain (Associated Scientists at Woods Hole) (15 min)
- Airworthiness Flight Safety Review Board (AFSRB) to review UAS requests and provide guidance in the development of UAS Concepts of Operation – Presenter Pending Confirmation (15 min)
- SCOAR Activities for Consideration (45 min)
 - Compile guidance documents and information to the research community who are interested in using airborne assets in support of their research (e.g. FAA POC per region, aircraft operators with contact information, recent field deployments summary with POCs etc.)
 - Develop pilot training for UAS operations from ships
 - Chief Scientist Training Program
 - Draft guidance document for PIs who are planning UAS operations from ships
 - Draft a UAS 101 Handout with a list of Top 10 UAS Dos and Don'ts.
 - Policy discussion on use of UAS for non-research purposes from ships

1030 Break

1045 Future Business and Direction for SCOAR

- Review SCOAR terms of reference:
<https://www.unols.org/what-unols/unols-charter#Annex%20VIII> - A charter review is required every 3-years - Annette DeSilva

- UNOLS *Research Vessel Safety Standards (RVSS)* Chapter on UAS Operations – In consideration of new technologies and evolving regulations, review/update of the UAS Chapter should be considered, https://www.unols.org/sites/default/files/RVSS_Edition_10_July2015.pdf (Chapter 19) - Annette DeSilva

1115 SCOAR Outreach Activities:

- Ocean Sciences Conference: February 21-26, 2016 Feedback – Luc Lenain
- Eos Article – Draft an Eos article about oceanographic aircraft and SCOAR – Phil McGillivray
- Discussion on future outreach activities and venues

1130 Other Business:

- **OOSC Liaison Report** – Raphael Kudela
- **AICC Liaison Report** – Steve Hartz
- **SCOAR Membership** – Luc Lenain
- **Next meeting, dates and location**

1150 Review Meeting Action item list and assignments

1200 Closing Remarks

1210 Adjourn meeting