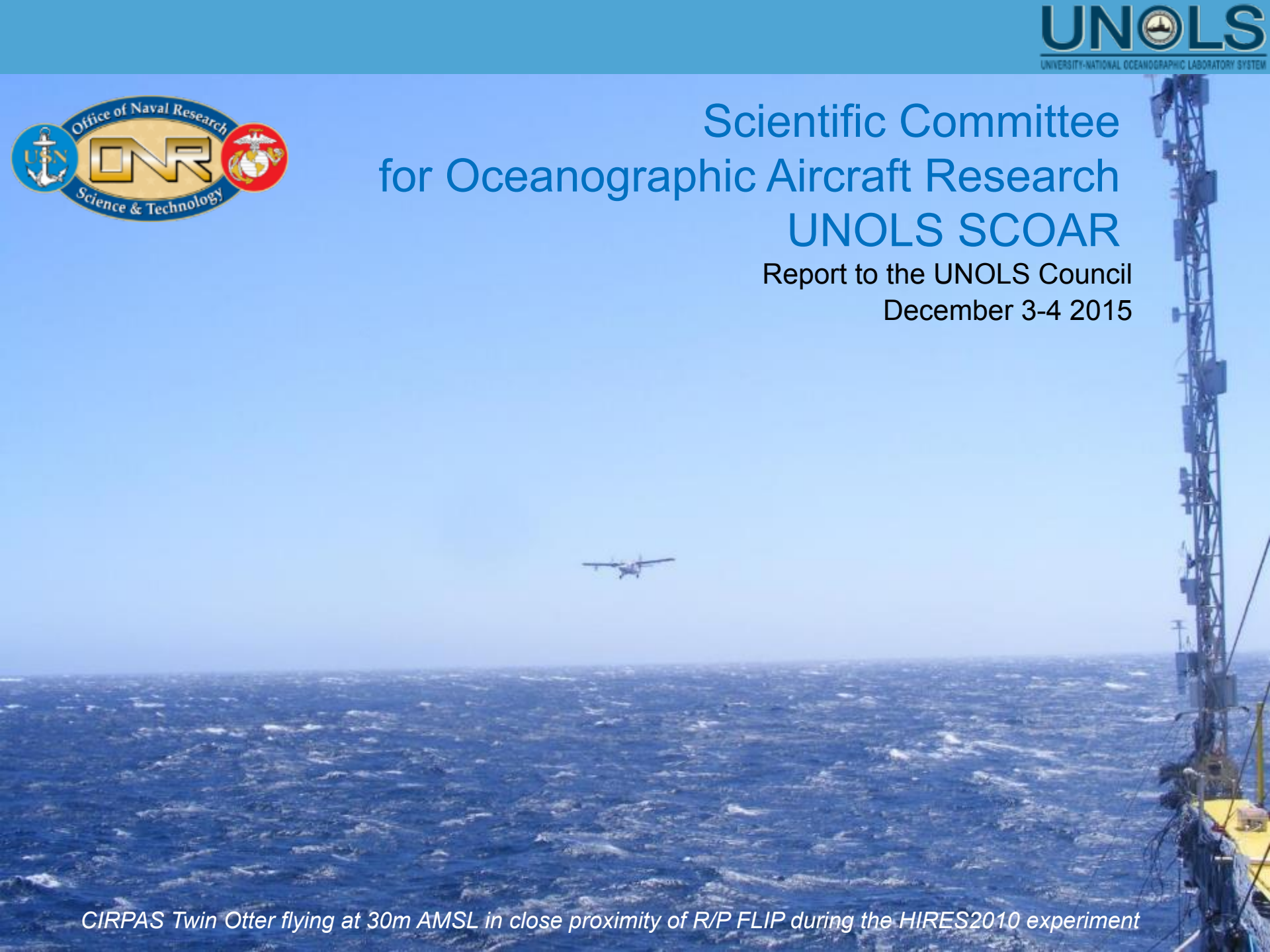




Scientific Committee for Oceanographic Aircraft Research UNOLS SCOAR

Report to the UNOLS Council
December 3-4 2015



CIRPAS Twin Otter flying at 30m AMSL in close proximity of R/P FLIP during the HIRES2010 experiment

“This Committee shall provide advice and recommendations to the National Oceanographic Aircraft Facility managers and supporting federal agencies on aspects of operations, sensor development, fleet composition, utilization and data services as appropriate.

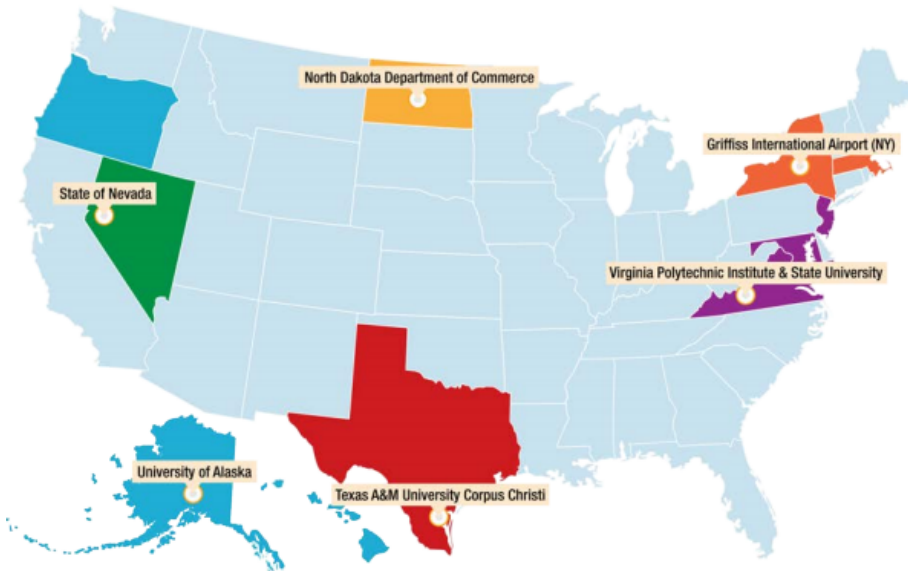
In addition, SCOAR and the UNOLS Office shall provide the ocean science user community with valuable information and advice concerning experiment design, facility usage, scheduling and capabilities.

The Committee shall also promote collaborations and cooperation between facility operators, funding agencies and the scientific community to improve the availability, capabilities and quality of aircraft facilities supporting the ocean sciences. By promoting collaboration between the ocean science community, the atmospheric science community and other science communities using aircraft in support of their research, the Committee shall work to improve utilization and capabilities for all of these communities.

The SCOAR shall also recommend the designation of aircraft facilities as National Oceanographic Facilities to the UNOLS Council and membership as described in paragraph 4 below.”

NAME	AFFILIATION	TERM
Bailey, Ro	UAF	02/13 to 02/16
Bluth, Bob (ex-officio)	NPS	01/03
Fisichella, David	WHOI	07/14 to 07/17
Hartz, Steve (RVTEC Rep, ex-officio)	UAF	05/07
Jonsson, Hafliði (ex-officio)	NPS	01/03
Kudela, Raphael *	UCSC	10/11 to 10/17
Lenain, Luc (Chair, SCOAR)	SIO	04/15 to 04/18
McGillivray, Phillip	USCG	04/10 to 04/16
Woods, Roy (ex-officio)	NPS	03/09
Zappa, Christopher	LDEO	09/15 to 09/18

UAS Test Sites



http://www.faa.gov/uas/legislative_programs/test_sites/

- **University of Alaska**
 - Includes test ranges in Hawaii and Oregon
 - Operational May 5, 2014
- **State of Nevada**
 - Operational June 9, 2014
- **New York Griffiss International Airport**
 - Includes test ranges in Massachusetts
 - Operational August 7, 2014
- **North Dakota Department of Commerce**
 - Operational April 21, 2014
- **Texas A&M University – Corpus Christi**
 - Operational June 20, 2014
- **Virginia Polytechnic Institute and State University (Virginia Tech)**
 - Includes test ranges in New Jersey (partnered with Rutgers University) and Maryland
 - Operational August 13, 2014

And creation of centers of Excellence throughout the US

Section 333 exemption

- Compiling a UAS information database to be posted on the SCOAR website. This includes:
 1. Regulatory aspects (sample COAs, list of approved Section 333 exemptions, FAA points of contact etc..) with regular updates.
 2. Example of past projects that made use of UASs on UNOLS ships.
 3. UAS operators with experience on UNOLS ships.
- Detailed review of the CIRPAS facility at the next meeting (NSF MOU? Planned activities? Assets available to science community?)

- ▣ The Center for Interdisciplinary Remotely-Piloted Aircraft Studies (CIRPAS) was established by the Office of Naval Research (ONR) in the spring of 1996
- ▣ CIRPAS provides Manned and Unmanned Air Vehicle flight services to the scientific and engineering communities.
- ▣ CIRPAS became an University National Oceanographic Laboratory System (UNOLS) National Facility in 2002 and NSF National Facility in 2010



UV 18-A Twin Otter (2)



Pelican



**Sentry BK 30
UAV (5)**



SPA-10