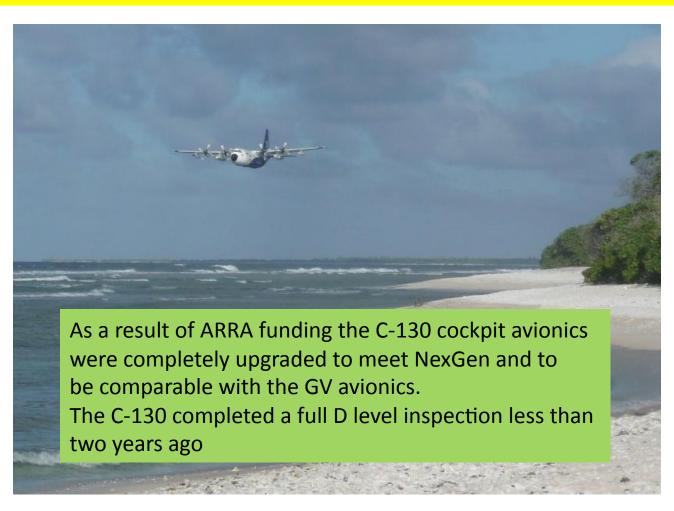
National Science Foundation

Bernard Grant and Peter Milne NCAR and Facilities Section 23 June 2011

National Science Foundation (NSF) Airborne Assets

- The NSF is continually assessing its airborne facility needs (assets removed from service and new ones added)
- Enhancing interagency and international collaboration is a strategic thrust (driven by science needs and budgetary constraints)
- CIRPAS has become a major component in the mix of airborne assets
- Airborne assets are typically oversubscribed and therefore priorities have to be made for their use

NSF C-130Q on a mission over Christmas Island



NSF C-130Q During Inspection Cascade Aerospace in Canada



NSF's Office of Polar Programs operates 4 LC-130s



JATO assist for take off requires an estimated \$7M budget item each year; 8 bladed props and electronic propeller controls should eliminate the JATO requirement

LC-130 with 8 Bladed-Props



NRL P-3 with ELDORA



The NSF and NRL are under a MOA through 2013 for supporting the ELDORA radar. The ELDORA has been upgraded using ARRA funding

University of Wyoming King Air Cooperative Agreement between NSF and University of Wyoming



University of Wyoming received ARRA funds to improve instrumentation. The King Air is now equipped with the Wyoming Cloud Radar and Wyoming Cloud Lidar. The KA remains one of the most requested NSF Atmospheric facilities.

NSF GV GV flying HIPPO mission (complex and pole-to-pole)



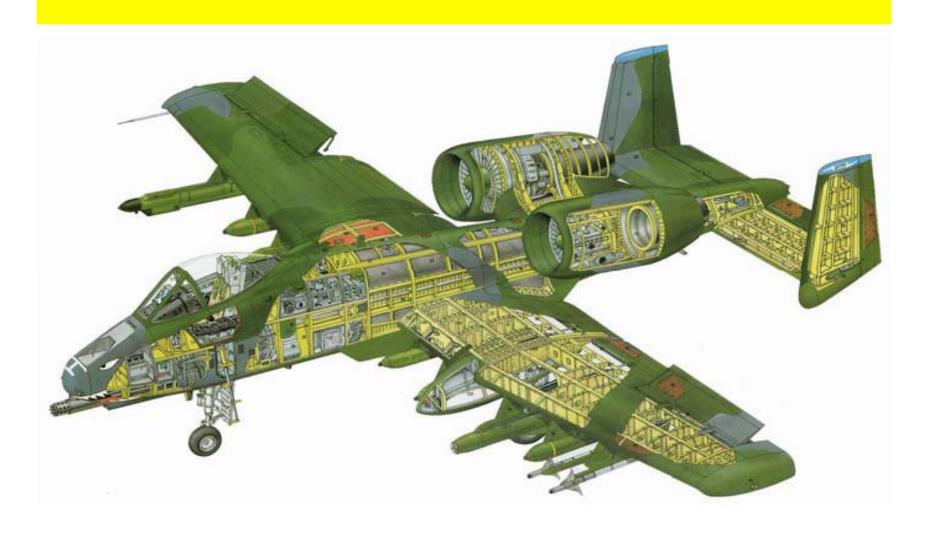
CIRPAS Twin Otter is available to NSF investigators (NSF-NPS MOA)



A-10 SPA to replace the T-28 last mission in 2003



A-10



A-10 – a hearty bird that not even PIs can damage

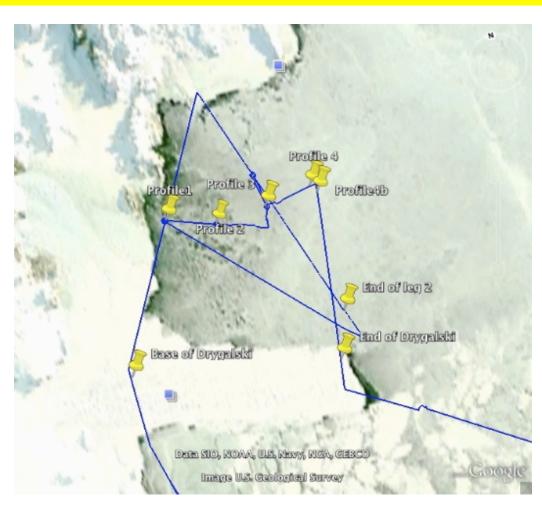


Operational as a NSF facility in late 2012 or early 2013.





Flight Path of Aerosonde in Antarctica



Aerosonde in Antarctica



ICARE2010

International Conference on Airborne Research for the Environment, Toulouse, France October 2010



ICARE2010 brought together researchers from Australia, USA, Canada, Europe and other areas. Good discussions on International collaboration. Aircraft exhibition and instrument inter-comparison fly off that included the NSF C-130.

Any Questions?



