

CONvective TRansport of Active Species in the Tropics

Project Debrief

15 January – 28 February 2014 Guam

CONTRAST project debrief

- Logistics, ops center support overview
- Location, FBO operations, flight hours, schedule overview
- Aircraft performance and instrumentation performance overview
- PI comments
- Lessons learned
- Open discussion

CONTRAST Science Team



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CONTRAST Institutions

- National Science Foundation
- National Center for Atmospheric Research
- University of Miami
- University of Maryland
- Texas A&M
- University of Colorado
- University of California at Irvine
- University of Hawaii
- Georgia Institute of Technology
- NASA Goddard Space Flight Center
- The City College of New York

Coordination with other projects







CAST

ATTREX CONTRAST

UK FAAM

NASA

NSF-NCAR



CONTRAST Science Objectives

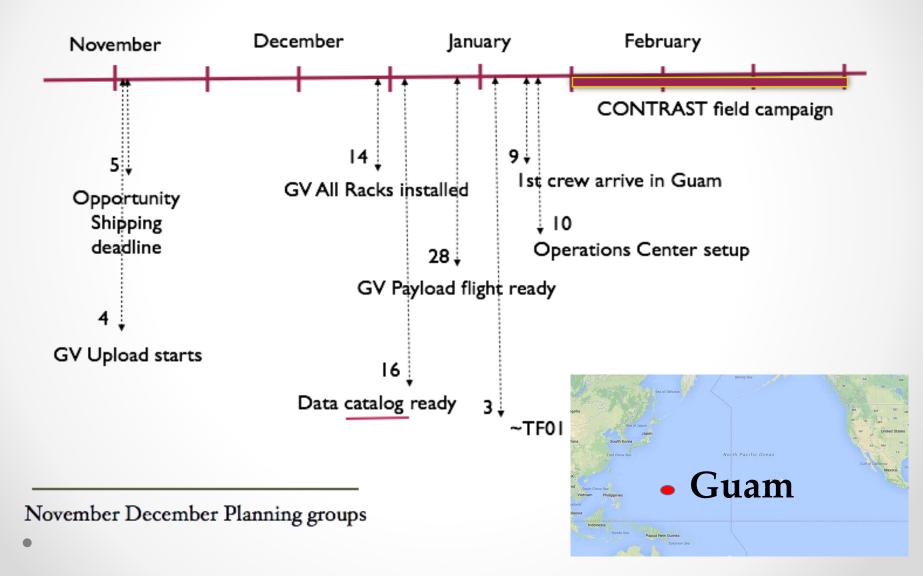
Main Objectives

- Characterize the chemical composition and ozone photochemical budget at the level of convective outflow over the western Pacific during the deep convective season
- Evaluate the budget of organic and inorganic bromine and iodine in the TTL
- Investigate transport pathways from the oceanic surface to the tropopause using the NSF NCAR GV coordinated flights with the BAe-146 and NASA Global Hawk.





CONTRAST Timeline



Logistics

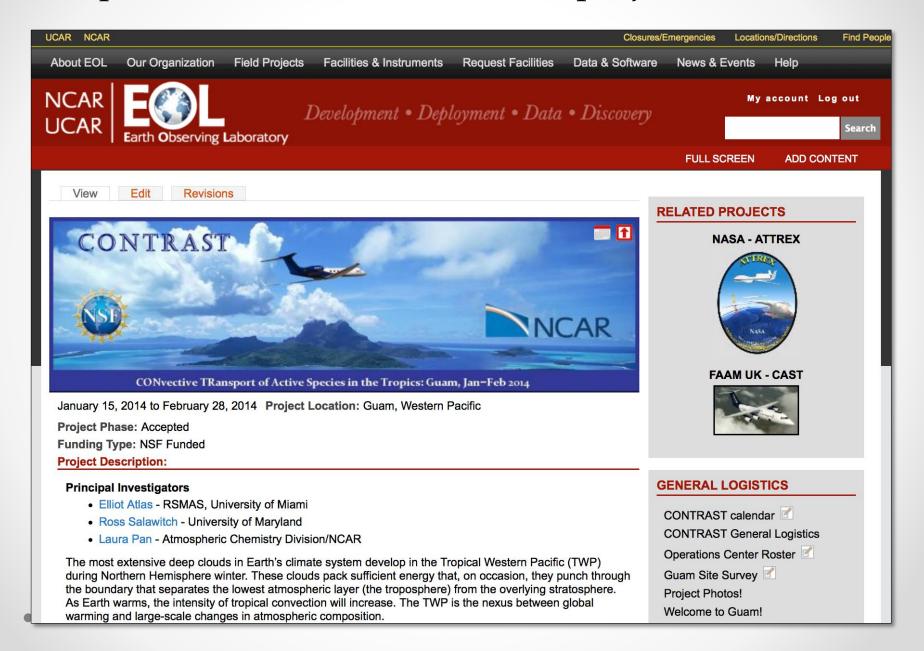
- Overall Project Planning and implementation
- Planning and coordination with collaborating agencies (NASA, FAAM)
 - Logistics with base of operations (Aviation Concepts, GUAM)
- Operations Center (Hilton Guam Hotel)
 - Full support for all project participants

GV Base of operations: Aviation Concepts





https://www.eol.ucar.edu/field_projects/contrast





Operations Center

- ~ 40 CONTRAST participants
- ~30 CAST team members
- NASA team members



- Lesson learned
- EOL Supported with Wifi, Printing, data sharing, etc.
- Sharing of resources between NASA, UK and NCAR
- Crowded at times
- Infrastructure worked well for everyone
- Hilton hotel was excellent on their support





FBO

 Aircraft support for both NSF/NCAR GV and UK FAAM Bae-146

Lessons learned

- Excellent support and coordination
- Good working area for instrument PIs
- Operations at the airport were closely monitored by airport authorities because of the large group
- Limited number of badges
- Co-location with the UK Bae aircraft provided for busy operations
- Overall it was handled very well by AC

