

European Fleet for Airborne Research

ICCAGRA Meeting 5/22/08

FAAM BAe 146



James Huning



ICCAGRA – EUFAR Meeting

31 March-2 April

- Andrew Roberts, Jim Weber and I met with two of three primary members of EUFAR (European Fleet for Airborne Research), Germany (DLR) and UK Met Office (other primary member, France (Meteo-France) representative was on deployment (to the Seychelles!)
- Also met with President, ISPRS, in London – couple ICCAGRA into ISPRS (Stressa, Italy Meeting, May 2009)
- Developing strategy to allow more effective and efficient collaboration between EUFAR members and ICCAGRA
- DLR's new GV550 was modified to take advantage of engineering on NSF GV
- Wing Pods will be developed separately, but communications/power will be compatible
- DLR participate with Falcon 20 in T-PARC; BAe 146 participated in T-REX and will participate in VOCALS



HALO DLR G550



Certified by LBA (Luftfahrt-Bundesamt/EASA)

Extensive Modifications conducted by
RUAG Aerospace Services



FAAM BAe 146



Certified; maintained and operated by
British Aerospace



BAe Scientific Workspace after Conversion



EUFAR

Description

- Integrated Infrastructure Initiative of the 6th Framework of the European Commission (Research and Technology Development)
- 24 European Institutions operate 24 instrumented aircraft
 - Meteo - France is in the planning for the acquisition of a C-130; we will assist them in platform evaluation and in modification definition
- Provides users with Transnational Access
- Coordinating the network for exchanging knowledge, developments and building the unified structure required for improving access to the infrastructures
- Networking activities (i.e., With ESF), 1 M Euros
- Transnational Access, 3 M Euros
- Joint Research, 1 M Euros
- These funds are for coordination and educational activities; each institution receives its unique funding



Countries Represented

- France, Germany, Netherlands, UK, Spain, Israel, Finland, Switzerland, Italy, Sweden, Ireland, Romania
- Multiple Institutions in a single country, e.g., Germany: DLR; Technical University, Braunschweig; Freie University, Berlin; Forschungszentrum, Karlsruhe; Leibniz-Institut für Troposphärenforschung, Leipzig; Alfred Wegener Institut, Bremerhaven



Types of Activities

- Transnational Access
 - Access offered to 24 instrumented a/c ranging from low and slow single engine to 4 engine turbo jet
- Joint Research Activity
 - Design and construct Aerosol Reference Pod that can be flown on several a/c and serve as a basis for inter-calibration
 - Have this stand-alone payload available for various a/c in EUFAR fleet and operated as a common European instrument
- EUFAR Expert Working Groups
 - Certification and Operations
 - Data Issues
 - Instrument Design and Installation



Possible Next Steps

- Stephen Mobbs, FAAM head, suggests bi-lateral agreements with the 3 primary EUFAR members and ICCAGRA members
 - UK
 - Germany
 - France
- He and I will have a telecon on this suggestion next week
- Mobbs will be meeting at NCAR to discuss initial MOA in early June

