Semi-Annual Progress Report

As of July 10, 1985, the following progress was made on the proposal work:

1. Wind and Turbulence Measurements on NRL Navy RP3A aircraft, BUNO 149670:
   a. Radome pressure transducers purchased and installed with radome tubing, wiring. See photos. Test flights performed to determine that pressure signals are active. See strip chart.
   b. Data system for aircraft tested, borrowed from National Center for Atmospheric Research (NCAR), Boulder, Colorado and shipped to NRL and made operational in the laboratory.
   c. Various environmental sensors obtained from USN China Lake, CA, for the NRL RP3A: Barnes infrared meteorological radiometers; parts of dew point system.

2. FASINEX Aircraft Coordination:
   a. Site visit made to NAS Bermuda. Facilities will be provided for transient FASINEX aircraft by NAS Bermuda;
   b. Cooperative agreement for joint use of NCAR Electra research aircraft by GALE and FASINEX projects worked out;
   c. Attended GALE planning meeting as FASINEX representative.

The following problem areas are noted:

1. There was a three month delay by ONR in sending funds for the above contract. This resulted in delay in ordering equipment.
2. To date, a Litton LTN 51 Inertial Navigation System has not been received from NAVAIR. It is a crucial part of the RP3A wind system.
3. NRL aircraft data system is behind schedule, which necessitated borrowing a data system (see 1b above).
4. NAVAIR may not be able to supply a APN 159 High Altitude Radar Altimeter, necessary for static pressure corrections and barometric pressure measurements on the RP3A.
The following activities are planned:

1. RP3A test flights in October and December 1985.


3. NRL is purchasing total air temperature system (Rosemount 102EAL + 510 BH) sensor for dew point system (General Eastern 1011) and will mount same and Barnes radiometers on RP3A.

Presentations made:

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