

NY 10122  
 FLT NO: 97-32  
 ETD: 0900Z  
 ETE:  
 SPONSOR ORG: NSF  
 BLK IN: 1357Z  
 BLK OUT: 1025Z  
 BLK TIME: 3:32  
 PROGRAM: FASTEX  
 ATA: 1353Z  
 ATD: 1033Z  
 FLT TIME: 13:20  
 PURPOSE: ~~FASTEX~~ AND CALIBRATION

# DAO PERSONNEL

|       |              |          |                |
|-------|--------------|----------|----------------|
| AC    | PLAYER       | SYS ENG  | GOLDSTEIN      |
| CP    | MAXSON       | DATA SYS | PRADDS-BERONES |
| NAV   |              | RADAR    |                |
| FE    | KITSON/MEREK | BT/ODW   | HILL           |
| RADIO |              | CLD PHYS |                |
| FD    | DAMIANO      | DOPPLER  |                |

# PARTICIPATING SCIENTIST/VISITORS/DAO

| LAST, FIRST NAME | ACTIVITY ON A/C | AFFILIATION |
|------------------|-----------------|-------------|
| BOND             | PI              | PMEL        |
| BARTELS          | HAPS            | NSSL        |
| METTIN           | HAPS            | NSSL        |
| ROHNEY           | ASST. PI        | NRL         |
|                  |                 |             |
|                  |                 |             |
|                  |                 |             |

# PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

T/O delayed due to MADS problems.

No close low models off

115930Z in cloud both DP's are close

1205Z Delaying at 47°N 16°30'W for higher alt

PALT  
GALT HGLT

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: N970122

TIME OFF: 1033Z

TIME ON: 1353Z

|          | A/C T/O | WX STN | A/C LAND | WX STN |
|----------|---------|--------|----------|--------|
| PRESSURE | 1013.4  | 1012.0 | 1013.4   | 1012.0 |

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

~~SON~~ GPS

3

PHOTOGRAPHY

|      | FWD | LS | RS | VERT |
|------|-----|----|----|------|
| ON   |     |    |    |      |
| OFF  |     |    |    |      |
| RATE |     |    |    |      |

REMARKS

## FASTEX

Flight #04 N970122 (Dropsonde test and racetracks)

### DATA TYPE

### SENSOR or OPTION

|                              |            |
|------------------------------|------------|
| INE                          | VEW_PITR   |
| Accelerometer                | ACINS_PITR |
| Temperature Probe            | AT2        |
| Altitude (for vertical wind) | PALT       |
| Static Pressure              | PS1M       |
| Dynamic Pressure             | QC1M       |
| Dewpoint Probe               | DPRC       |

### Notes:

Beginning at 124400Z wind calibration maneuvers (racetracks) were performed until 131800Z. These maneuvers were flown to derive attack angle and slip angle coefficients.

No dynamic corrections were applied to the measured static and dynamic pressures. Thus wind direction and wind speed may not be representative of actual flight level conditions.

Dropsonde data and event switch information ARE NOT on the tape.

Downward spikes in radar altimeter data are a result of overflying land.

|                          | <u>Takeoff</u> | <u>Landing</u> |
|--------------------------|----------------|----------------|
| Aircraft static pressure | 1013.4mb       | 1013.4mb       |
| Corrected tower pressure | 1012.0mb       | 1012.0mb       |

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073



N9701202

30  
25  
40 290/110  
58

| TIME   | LAT  | LONG | TRK | WD  | WS | TA    | TD    | PA   | GA   | PS    | PQ    |          |      |
|--------|------|------|-----|-----|----|-------|-------|------|------|-------|-------|----------|------|
| 104900 | 5247 | 1120 | 254 | 234 | 21 | -45.8 | -50.6 | 8227 | 8041 | 343.8 | 169.5 | ABU      | CLD  |
| 110000 | 5228 | 1316 | 254 | 253 | 33 | -46.5 | -52.5 | 8228 | 8028 | 343.8 | 168.9 | ABU      | CLD  |
| 111500 | 5200 | 1544 | 250 | 245 | 30 | -47.0 | -52.0 | 8227 | 8020 | 343.8 | 170.0 | ABU      | CLD  |
| 112902 | 5128 | 1804 | T   | 200 | 31 | -47.8 | -52.8 | 8232 | 8003 | 343.5 | 169   | NO WINDS | DEOP |
| 113433 | 5126 | 1713 | 100 | 240 | 25 | -47.4 | -53.5 | 8227 | 8010 | 343.7 | 169   |          | DEOP |
| 113853 | 5122 | 1616 | 98  | 227 | 32 | -47.4 | -53.6 | 8235 | 8024 | 343.7 | 167   |          | DEOP |
| 120400 | 4835 | 1612 | 230 | 241 | 18 | -44.7 | -47.4 | 8232 | 8060 | 343.6 | 169.5 | IN       | CLD  |
| 121500 | 4836 | 1607 | 190 | 199 | 20 | -44.6 | -47.3 | 8226 | 8046 | 343.8 | 169.4 | IN       | CLD  |
| 124450 |      |      | 085 |     |    |       |       |      |      |       |       |          |      |
| 124750 |      |      | TRK |     |    |       |       |      | 240  | IAS   |       | 30K      |      |
| 125115 |      |      | 290 |     |    |       |       |      |      |       |       |          |      |
| 125415 |      |      |     |     |    |       |       |      |      |       |       |          |      |
| 125650 |      |      | 270 |     |    |       |       |      |      |       |       |          |      |
| 130010 |      |      |     |     |    |       |       |      |      |       |       | 210      | IAS  |
| 130230 |      |      | 090 |     |    |       |       |      |      |       |       |          |      |
| 130500 |      |      |     |     |    |       |       |      |      |       |       |          |      |
| 130730 |      |      | 090 |     |    |       |       |      |      |       |       | 180      | IAS  |
| 131030 |      |      |     |     |    |       |       |      |      |       |       |          |      |
| 131410 |      |      | 270 |     |    |       |       |      |      |       |       |          |      |
| 131740 |      |      |     |     |    |       |       |      |      |       |       |          |      |

22-jan-1997, 14:00:00 Lambert conformal polar projection: g4 track with wind vectors.

