

U.S. DEPT. COMM./NOAA/DAO - DATA SECTION WORK FORM NO.1 DRAFT FILE

| | | |
|------------------------------------------|----------------|------------------------|
| EARTH SECTION WORK FORM NO.1 OARWF1 FILE | | |
| FLT ID: 980521N | FM: KMCF | TO: KMCF |
| FLT NO: 98-087 | BLK IN: | ATA: 1714Z |
| ETD: 1400Z | BLK OUT: 1347Z | ATD: 1357Z |
| ETE: 1700Z | BLK TIME: | FLT TIME: |
| SPONSOR ORG: NOAA/NOAA | PROGRAM: | PURPOSE: MASSONDE TEST |

ORO PERSONNEL

| | | | |
|-------|----------------------|----------|-----------------------|
| RC | PLAYER, G | SYS ENG | PLAMAS-BERGNER |
| CP | FINKE, M / MAXSON, B | DATA SYS | HILL, J ✓ |
| NAV | | RADAR | |
| 21 | | BT/ODW | GOLDSTEIN, A |
| FE | KITSON, G | CLD PHYS | HORNBOOK, C ✓ |
| RADIO | | DOPPLER | XXXXXXXXXX |
| FD | CZYZK, S | | |

PARTICIPATING SCIENTIST/VISITORS/DAO

| LAST, FIRST NAME | | | ACTIVITY ON A/C | AFFILIATION |
|------------------|---------------------------------|--|-----------------|-------------|
| 31 | FRANKLIN, J. | | HAPS | HRC |
| | WILLOUGHBY, H. | | HAPS | HRC |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 47 | | | | |
| | PROPOSED/ACTUAL MISSION MEMBERS | | | |

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
1-DPTR - DPL ONBOARD

*2 011

PRINTER NOT WORKING

MAOS OUT 140645Z
UP 142320Z

ANALOG CARDS

BALANCE PTR 14417

CALIBRATED SYSTEM 15412
CALIBRATED SYSTEM 16192

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2

FLT ID: 980521N

TIME OFF: 1357Z

TIME ON:

| | A/C T/O | WX STN | A/C LAND | WX STN |
|----------|---------|--------|----------|--------|
| PRESSURE | | | 1015.9 | 30.07 |

NO DATA DISPOSITION/DATE/QUALITY

| | | |
|---------------------|---|--|
| 1/SEC FLT LVL TAPES | | |
| FAST FLT LVL TAPES | | |
| RADAR TAPES | | |
| DOPPLER TAPES | | |
| ODW CASSETTES | | |
| HARD COPIES | | |
| | | |
| | | |
| | | |
| | | |
| AXBT | | |
| AXCP | | |
| ODW | | |
| GPS | 5 | |

PHOTOGRAPHY

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

REMARKS

980521N

| TIME | LOT | lon | TK | HD | TA | TD | WD | WS | PA | SA | PS | SP | REMARKS |
|--------|-------|-------|-----|-----|-------|-------|-----|------|-------|-------|-------|---------------|----------------------------|
| 1358 | | | | | 23.7 | 22.1 | 34E | 4.8 | | | 975.6 | 1014.8 | LEVEL 1K |
| 140223 | | | | | | | | | | | | | PASS 2 |
| 141252 | | | | | 23.5 | 21.4 | 15 | 4.4 | | | | | DROPPED HERE EARLY DROP #1 |
| 141739 | | | | | | | | | | | | | DROP #2 |
| 142151 | | | | | | | | | | | | | DROP #3 |
| 150104 | 2854 | 78 28 | 75 | 71 | -61.2 | -67.6 | 271 | 30.9 | 12516 | 12992 | 176.2 | | DROP #4 BWD 410 |
| 151215 | 2917 | 76 45 | 085 | 083 | | | | | | | | LEG #1 TK 090 | |
| 151335 | | | | | | | | | | | | | TURN (REVERSE) |
| 151715 | 29 33 | 76 37 | 261 | 262 | -60.6 | -69.5 | 275 | 32.3 | | | | | LEG #2 TK 270 |
| 152030 | | | | | | | | | | | | | TURN TRACK 190 |
| 152245 | 29 18 | 77 06 | 172 | 178 | -60.4 | -69.8 | 259 | 31.3 | | | | | |
| 152545 | | | | | | | | | | | | | LEG #3 |
| 1530 | 29 12 | 76 43 | 352 | 343 | -60.2 | -70.2 | 275 | 32.4 | | | | | TURN TM 360 |
| 153400 | 29 22 | 76 44 | | | | | | | | | | | LEG #4 |
| | | | | | | | | | | | | | LEFT CIRCLE START |
| 154530 | | | | | | | | | | | | | BEGIN RIGHT CIRCLE |
| 1551 | | | | | | | | | | | | | CIRCLE 2 |
| 155452 | | | | | | | | | | | | | CCLIMB |
| 160000 | 29 17 | 76 57 | 245 | 247 | -69.5 | -71.8 | 273 | 31.8 | | | | 144.6 | LEVEL 45K |
| 160102 | | | | | | | | | | | | | START RIGHT CIRCLE |
| 161600 | | | | | | | | | | | | | END RIGHT CIRCLE |
| 1617 | 29 12 | 76 51 | 259 | 259 | | | | | | | | | BEGIN LEFT |
| 163428 | 2854 | 78 32 | 257 | 255 | -65.6 | -72.6 | 279 | 32.3 | 13684 | 14186 | | 145.4 | MAP 5 |
| 164845 | 28 33 | 79 58 | | | | | | | | | | | DESCEND |

(S)
↓

Aircraft Operations Center
P.O. Box 6829
MacDill AFB, FL 33608-0829

AOC1:SC

May 19, 1998

MEMORANDUM FOR: All G-IV Test Flight Participants

FROM: Stan Czyzyk

SUBJECT: Aircraft/Dropsonde Test Flight - Thursday May 21, 1998

This test flight will consist of both high and low-level dropsonde deployments. The mission will test the newly updated TEMP DROP code as well as further assess the state of the flight level data. A total of 3-4 dropsondes will be launched during the mission. The flight will also include passes over buoys 41009 and 41010 in the Atlantic. At the conclusion of the scientific portion of the flight, several touch and go's will be performed at MacDill, which will add 30+ minutes to the flight. Total flight duration will be 3-4 hours and will consist of the following activities.

- 1) N49RF will takeoff at 1000 local time.
- 2) N49RF will circle MacDill three times at 1000 ft and launch 1-2 dropsondes. The first pass will be an alignment pass and radio test. The communications with the boats will be done on VHF/FM. Frequency - ?. The second pass will be a dropsonde release near the boats. The third pass, if necessary, will be an additional dropsonde release.
- 3) N49RF will then climb to FL410 and head east to buoy 41009 (28 30N and 80 11 W).
- 4) At buoy 41009, continue east to buoy 41010 (28 54N and 78 30W).
- 5) At buoy 41010, a dropsonde will be released, continue east to 29 15N and 77 00W.
- 6) A 60nm radius circle will be blocked out around 29 15N and 77 00W for 1 hour for maneuvers.

First, fly one 3-minute leg out of the wind, then one 3-minute leg into the wind, followed by two 3-minute leg perpendicular to the wind.

- 7) Next, perform two (2) left circles and then two (2) right circles.
After the last right circle continue circling and spiral climb to FL450.
Continue circling and perform two (2) right circle and two (2) left circles.
- 8) Return to buoy 41010 and release another dropsonde.
- 9) Overfly buoy 41009, this is for a backup dropsonde release.
- 10) The scientific portion of the flight is complete. N49RF will then head to MacDill to perform several touch and go's.

CREW LIST

| | |
|----------------|-----------------|
| Player | Pilot |
| Finke | Pilot |
| Maxson | Pilot |
| Czyzyk | Flight Director |
| Kitson | Flight Engineer |
| Goldstein | SED |
| Lynch | SED |
| Hornbrook | SED |
| Hill | SED |
| Pradas-Bergnes | SED |
| Franklin | HRD |
| Willoughby | HRD |