050710I

Lead Project Scientist

# Preflight

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Participate in general mission briefing.

- Determine specific mission and flight requirements for assigned aircraft.
- Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
- 4. Contact HRD members of crew to:
  - a. Assure availability for mission.
  - b. Review field program safety checklist
  - c. Arrange ground transportation schedule when deployed.
  - d. Determine equipment status.
  - Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.

Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.

Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).

Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.

- Make sure each HRD flight crew members have life vests
- Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
- Collect "mess" fee (\$2.00) from all on-board HRD flight crew members.

#### In-Flight

- 1. Confirm from AOC flight director that satellite data link is operative (information).
- \_ 2. Confirm camera mode of operation.
- Confirm data recording rate.
  - \_\_\_\_\_ 4. Complete Lead Project Scientist Form.
    - Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

#### **Post flight**

1. Debrief scientific crew. 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC. 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.] Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms. 4. 5. Obtain a copy of the radar DAT tapes. Turn in with completed forms. Cbtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms. 6. 7. Obtain a copy of CD with all flight data. Turn in with completed forms. 8. Determine next mission status, if any, and brief crews as necessary. 9. Notify MGOC as to where you can be contacted and arrange for any further coordination required. Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the 10. flight).

Lead Project Scientist Check List

Storm or Project <u>Dennis</u> Experiment name <u>//</u> Date <u>7/10/05</u> Aircraft <u>43/F</u> Flight ID <u>050</u>

### A. Participants:

| HRD                              | AOC   |  |
|----------------------------------|---|--|
| Function Participant             | Function Participant                                  |  |
| Lead Project Scientist M. Black  | Flight Director Marky Mayery / Tom<br>Pilots The hard |  |
| Radar M. Black/Eric Uhlton       | A THOSE / EPECIF, Welson                              |  |
| Workstation Krystal Valde        | Navigator Devig Bry tob                               |  |
| Cloud Physics Paul wills         | Systems Engineer Dewie Floyd                          |  |
| Photographer/Observer<br>/Guests | Data Technician Terry Lynch                           |  |
| Guests Sengart (2)               |   |  |
| Dropwindsonde trystal Walde      | Electronics Technician Denvon San Sover               |  |
| AXBT/AXCP Eric Uhlhorn           | Other   |  |

#### B. Take-off and Landing Times and Locations:

Take-Off: 1501 UTC Location: DAX NAS Landing: \_\_\_\_\_UTC Location: \_ Number of Eye Penetrations: <u>~ (</u>

### C. Past and Forecast Storm Locations:

| Date/Time | Latitude | Longitude | MSLP       | Maximum<br>Wind |
|-----------|----------|-----------|------------|-----------------|
| 90/12     | 28.2     | \$6.6     | 930        | 120 Kt          |
| 10/18     | 29.4     | 87.2      | .?         | 120101          |
| 11/00     | 30.6     | 87.9      | Just Inlaw | Mobile Ra       |
|           |          |           |            | -               |
|           |          |           |            | -               |

D. Mission Briefing: FIT AIT 12KSt, 35 rondes, 3 BTS IP BOUN 4203 G- Sonde, BULN 42039-250ndest 2 BTS; Ene, bung 4203 G- Sonde, BULN 42039-250ndest 2 BTS; ene, bung 4203 G- Sonde, BULN 42000, SW-NE thank thrue exp 42040, 50 Jh - 2001, SW-NE thank thrue exp 42040, 50 Jh - 2001, SW-NE thank thrue exp CSBCI along 2005 east of str, 2005 eyeall 2 perpindres have prove 42007, ere for the coast of eyeall 2 perpindres have prove 42007, ere for the coast of eyeall 2 perpindres have prove 42007, ere for the coast of eyeall 2 perpindres have prove 42007, ere for the coast of eyeall 2 perpindres have prove 42007, ere for the coast of eyeall 2 perpindres have prove to coast, back to coast for the perpindres have prove to coast, back to coast for the perpindres have prove to coast, back to coast for the perpindres have prove to coast, back to coast for the perpindres have prove to coast, back to coast for the perpindres have prove to coast, back to coast for the perpindres have prove to coast, back to coast for the perpindres have prove to coast for the perpindres have perpindres have to coast for the perpindres have prove to coast for the perpindres have prove to coast for the perpindres have perpindres have to coast for the perpindres have perpindres have to coast for the perpindres have perpindres have to coast for the perpindres have to coast for the perpindres have perpindres have to coast for the perpindres have to

| Equipment        | Pre-Flight         | In-Flight   | Post-Flight                              | # DATs / Cds<br>/Expendables/<br>Printouts |
|------------------|--------------------|---|--|--|
| Radar/LF         |                    |   |  |  |
| Doppler Radar/TA | 201                | 1964 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - |  | 1. 6                                       |
| Cloud Physics    |                    | A starter and   | a she was the second                     |  |
| Data System      | in Course of State | men after i   | . 21 ( St. 1.                            | 1 14-56 B                                  |
| GPS sondes       | AN L I AN          | DOM: NO   |  | 18 C. 1.                                   |
| AXBT/AXCP        | Harry B. C. A.     | tore A and  | S. E. B. C. S                            |  |
| Ozone instrument | लगाम स्तूर जोत     | m the to  | A Province A                             | 20.1                                       |
| Workstation      | 1 1 1              | and the state   | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | TZ ATTACA                                  |
| Videography      |                    | William Provide the   | 78.51                                    |  |

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## E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

**REMARKS:** 

1.5

MS

154545 1590 SNS 40

15 K 10,000

sec

154530 -150000 4530 4530 - 100 A 4500 30 45,3

~ 154530

15-1530

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# Lead Project Scientist Event Log

(17

Date 7/10/05 Flight 070 LPS M. Black

|                 | Time    | Event                   | Position       | Comments                    |        |
|-----------------|---------|-------------------------|----------------|-----------------------------|--------|
|                 | 1501    | Takeoff                 | Jax            | and the substitution of the |        |
|                 | 1509    | Radar Star              | +              | a and Maria -               |        |
|                 | 1529    | Moving offe             | shore to wsw   | - For TP 42036              |        |
|                 | 153     | F/ASY 2                 | DO PRE         | safe .                      |        |
|                 | 1532    | RU9541B                 | end 21750      | lestor ctn                  | _      |
|                 | 1534    | eje about 16            | o mile to wi   | W, Small Conceptor          |        |
|                 | 1537    | Pescend Xou             | vard IP        | d and a                     | -      |
|                 | 15111   | 291101 ×1               | antiglig orled | 8 mi across                 | -      |
| SFMK            | 155038  | Turn to 2               | 700            | NIQ NI                      | 0      |
| ~lous           | 155308  | Proptia                 |                | 1.53, Buey 42036 59         | Arlia  |
| Jeere           | 155405  | Torn to Bu              | 04 42039       |                             |        |
| 26.7            | 161349  | Bacy 42                 | 039 ANBT       | , Sonde#2-24                | RIS    |
| 25m/5           | 16144   | Torn'to                 | IW found       | Eral Cik                    | He ald |
| 25mls'<br>Sorte | 1618-   | - Sending               | SFMR-Que       | Inew X F                    | ma     |
| 26,8°C          | 1622    | 2712486rs               | 6 35 miles     | NWOR BURGE - 23             |        |
|                 | 1626    | Siv eyewel              |                | 110                         | Emig   |
| Pror            | 112411  | CTR.                    |                | Nopigadownda                | 600    |
| FT              | 4-10/10 | offs and                | IN tyant       | a thout                     | 2 K    |
|                 | 1637    | Tunn to see             | Kh Semi        |                             | B      |
|                 | 1654    | Turn to SW              | Ron Braz 4/2   | 1 0 × 10                    | Bound  |
| Print+5         | 165732  | 0.10                    | Eloci 420      | 10                          | .co    |
|                 | 1658    | Torn to Non             |                | oreyp                       |        |
|                 | 1701/2  | Turn to en<br>Radas por | st toward      | eye Cym W                   |        |
| /               | 1705-   | Rada Pol                | in-rebod       | R                           |        |
|                 | 170540  | Sondette                |                | west of erit                |        |
|                 |         |                         | 56 Kts         | SFC 35KH RIFel              | -1     |
|                 | 17.000  | r LF rada               | r up           |                             |        |
|                 | 110     |                         |                |                             |        |

 $\frac{29}{56} \frac{42}{56}$ Lead Project Scientist Event Log
Date  $\frac{7/10}{05}$  Flight  $\frac{0.50716}{0.50716}$  LPS  $\frac{M}{56}$  K pennos Landfall, Position Event Time 3 Comments et.e 720 501 a 96 919 eye 280 CSBF :2 REShore NO 29 Non 9 chors 30.18 hetween coast + exerval west LOKB Adg 10 onele Losec 00 Inn COASXA vle. 8-8 SC en 40 mile RY SAM 04 P 14 Oh フン大ち O C ee las 85260 affed 185351 N Stonello 5NR ih ar Če. 1855 5 Besken heali 15 milles 1459 SEOR 2 ene to coast

Lead Project Scientist Event Log Date 7/5/05 Flight OSOZIOI LPS M. Black

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Time Event Position Comments 90406 5 miles off Coga 30 hes each of et 90623 8 Smilles 2P cogl 6.3 wes = 5 miles Aleran 90849 30.29 934 ons X 6,5 Op D Onco Cogst 85078 20 C.C. 2000 - XU miles earlor etu OCBF1 CI

Prop

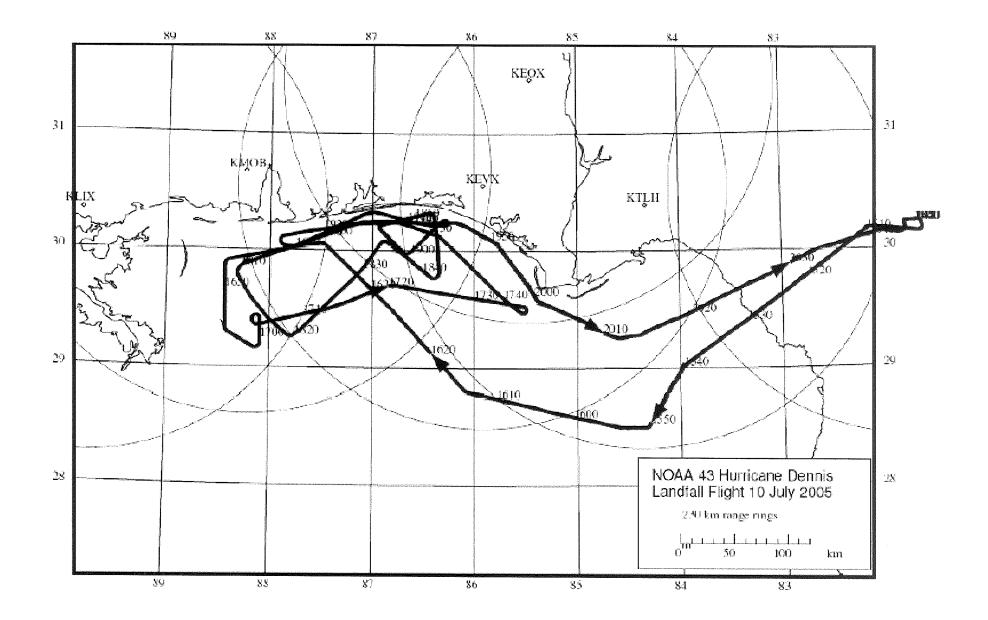
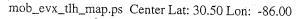
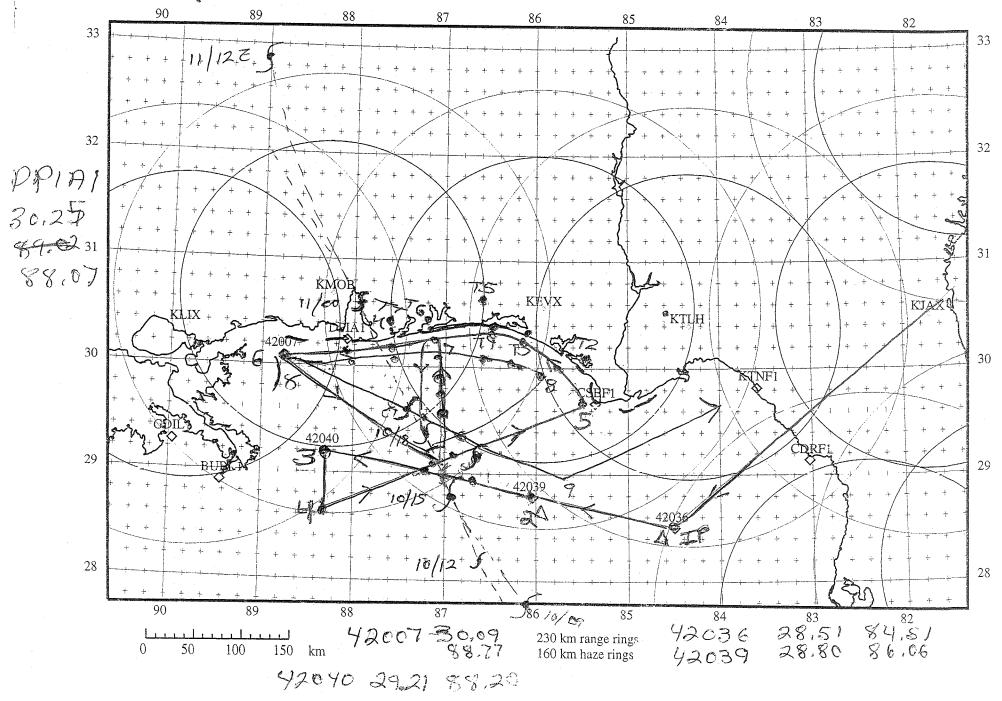


Fig. 1: Flight track of NOAA43.

FIT AIT= 12,000 Ft 230 sondes 774 87°32' 2 AXBTS 774 87°32'





(Tust) 99 SK Pressure

2784 N 2900 W 8400 LINKN 5073

Carlo Delivery VHF-134.775