

|                  |                       |                           |
|------------------|-----------------------|---------------------------|
| ID: 001004N      | From: KMCF            | To: KMCF                  |
| Flt No: 01-04    | Blk In: 0222          | ATA: 0213                 |
| ETD: 1730Z       | Blk Out: 1723         | ATD: 1745<br>1735 → abort |
| ETE: 8:5         | Blk Time: 8:54 (9.0)  | Flt Time: 8:28 (8.5)      |
| Sponsor Org: DHC | Program: Surveillance | Purpose: J.S. Keith       |

ACC Personnel

|                      |                            |
|----------------------|----------------------------|
| AC: Finke ✓          | Sys Eng: Will ✓            |
| CP: McCann / Yates ✓ | Data Sys: Prodes-Bergnes ✓ |
| Nav:                 | Radar: Smith ✓             |
| FE:                  | GPS/BT: →                  |
| FD: Parrish ✓        | Cld Phys:                  |
| Avionics:            |                            |

Participating Scientists

| Name (Last, First) | Activity on Aircraft | Affiliation |
|--------------------|----------------------|-------------|
| Lundser, C. ✓      | IRPs                 | HRD         |
| Gawach, J. ✓       | ↓                    | ↓           |
| Schenck, F. ✓      | Visitor              | SOCOM       |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |

**Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)**

MN 1315A KEITH TEAL 60 2330Z. DPC still no good.  
 27/29 - 1800 - Had a hard time getting to altitude & PT. 1 FM Tex Center.  
 29.98  
 210/5 24 drops. 24 good (Drop #5 terminated early).  
 27.6/22.3 0053  
 1013-1 340/5  
 26/24  
 29.98

001004N T.S. Keith Bower Nance

| Time   | LAT   | LONG    | TRC   | WD  | WS   | RA    | TA    | TD     | PS     | Sonde # | Qual |                 |
|--------|-------|---------|-------|-----|------|-------|-------|--------|--------|---------|------|-----------------|
| 1723   | 27 50 | 82 29.0 |       |     |      |       | 29.8  | 21.9   | 1013.8 |         |      | BLK OUT         |
| 174645 | 27 53 | 82 24   | 114   | 270 | 3    | 715   | 21.0  | 18.2   | 914    |         |      |                 |
| 1804   | 28 45 | 80 53   | 43    | 250 | 10.6 | 8531  | -23   | -29    | 342    |         |      |                 |
| 182115 | 29 44 | 79 46   | ~     | 193 | 11   | 11282 | -49   | -57    | 213    | 1       | ✓    | SW of RTI & low |
| 183800 | 28 09 | 78 39   | 173   | 225 | 18   | 13155 | -60.3 | -60.5  | 175.4  | 2       | ✓    |                 |
| 185745 | 25 48 | 78 19   | 173   | 225 | 7.1  | 13181 | -60.2 | -60.3  | 172    | 3       | ✓    |                 |
| 191637 | 23 31 | 78 06   | ~     | 304 | 4    | 13473 | -63   | -59    | 167    | 4       | ✓    |                 |
| 193330 | 23 30 | 80 20   | 270   | 343 | 8.4  | 13754 | -66   | -62    | 159.4  | 5       | ✓    | SW of RTI       |
| 195146 | 23 30 | 82 40   | 270.7 | 285 | 11   | 13771 | -64.8 | -63.6  | 159.4  | 6       | ✓    | Dropout of data |
| 200955 | 23 29 | 85 00   | ~     | 252 | 8.9  | 13771 | -64.8 | -62    | 159.4  | 7       | ✓    |                 |
| 203629 | 22 00 | 85 01   | ~     | 284 | 6.6  | 14076 | -66   | -65    | 151.9  | 8       | ✓    |                 |
| 210042 | 22 31 | 91 00   | ~     | 307 | 14   | 14070 | -66.7 | -62.4  | 151.9  | 9       | ✓    |                 |
| 211221 | 23 30 | 92 01   | ~     | 281 | 12.6 | 14066 | -65.4 | -63.6  | 152    | 10      | ✓    |                 |
| 212859 | 23 55 | 94 03   | ~     | 252 | 18.4 | 14062 | -66   | -64    | 151    | 11      | ✓    |                 |
| 215204 | 21 58 | 95 58   | ~     | 192 | 11   | 14209 | -66.4 | -64    | 148    | 12      | ✓    |                 |
| 221723 | 19 08 | 95 42   | ~     | 45  | 11   | 14536 | -69   | -56    | 144    | 13      | ✓    |                 |
| 223210 | 20 45 | 96 30   | 332   | 82  | 4.8  | 14351 | -68   | -61    | 144.6  | 14      | ✓    |                 |
| 224830 | 22 31 | 97 27   | ~     | 249 | 5.0  | 14359 | -68   | -63    | 143.6  | 15      | ✓    |                 |
| 230926 | 24 45 | 96 00   | 30    | 278 | 7.3  | 14356 | -67   | -65    |        | 16      | ✓    | slow winds      |
| 233059 | 26 58 | 94 27   | ~     | 280 | 1.5  | 14351 | -68   | -67    | 144.8  | 17      | ✓    |                 |
| 235054 | 27 15 | 91 45   | 84    | 276 | 3.1  | 14354 | -68.4 | -68.6  | 144.8  | 18      | ✓    |                 |
| 001040 | 27 20 | 89 05   | ~     | 262 | 10.3 | 14358 | -68.2 | -68.4  | 144.6  | 19      | ✓    |                 |
| 003308 | 25 00 | 90 11   | ~     | 235 | 3.7  | 14373 | -68.3 | -68.6  | 144.7  | 20      | ✓    |                 |
| 005120 | 24 31 | 87 59   | ~     | 300 | 1.5  | 14372 | -68.5 | -69.2  | 144.8  | 21      | ✓    |                 |
| 010553 | 25 15 | 86 14   | 65    | 2   | 6.7  | 14387 | -68.9 | -68.9  | 144.8  | 22      | ✓    |                 |
| 011956 | 26 02 | 84 35   | ~     | 340 | 10.3 | 14377 | -68.9 | -67.87 | 144.8  | 23      | ✓    |                 |
| 013925 | 27 59 | 85 47   | ~     | 330 | 5.8  | 14376 | -68   | -67    | 144.9  | 24      | ✓    |                 |

0222 Block in

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: SURV ØØ Project No. 006 Flight No. 1413 Flight ID: 001004N

SED Crew: JCPRADAS, SMITH, Parrish, Hill Mission: \_\_\_\_\_

Pre-Flight: 1630 Z Take-Off: 1745 Z Landing: 0212 Z

| SYSTEM                     |   | Pre-Flight Check |  | In-Flight     | Post-Flight Check |  |         |
|----------------------------|---|------------------|--|---------------|-------------------|--|---------|
| N<br>A<br>V                | IRS #1  | ✓                |  |               |                   |  |         |
|                            | IRS #2  | ✓                |  |               |                   |  |         |
|                            | IRS #3  | ✓                |  |               |                   |  |         |
|                            | GPS Honeywell #1  | ✓                |  |               |                   |  |         |
|                            | GPS Honeywell #2  | ✓                | INOP                                   |               |                   |  |         |
|                            | GPS Collins   | ✓                |  |               |                   | Off? <input checked="" type="checkbox"/>     |         |
| Nose Radar -Collins        |   | ✓                |  |               |                   | Off? <input checked="" type="checkbox"/>     |         |
| T<br>E<br>M<br>P           |   | Time             | Temp °C                                |               |                   | Time   | Temp °C |
|                            | Temp #1   | 1658             | 32.9                                   | ✓ JCPB        |                   | 0223   | 25.9    |
|                            | Temp #2   | ↓                | 29.99                                  | ✓             |                   | ↓  | 25.9    |
|                            | Temp #3   | ↓                | 31.09                                  | ✓             |                   | ↓  | 25.3    |
|                            | Temp #4   | ↓                | 30.371                                 | ✓             |                   | ↓  | 25.6    |
|                            | DP Left   | ↓                | 22.151                                 | ✓             | Cal. Time:        | ↓  | 25.1    |
|                            | DP Right  | ↓                | 21.810                                 | ✓             | Cal. Time:        | ↓  | 20.2    |
| P<br>R<br>E<br>S<br>S      | Attack Angle (ADCAOA)   | ✓                | JCPB                                   |               |                   |  |         |
|                            | Slip Angle (BPx/DxPx)   | ✓                | ↓                                      |               |                   |  |         |
|                            | Differential (PQ1/PQ2)  | ✓                | ↓                                      |               |                   |  |         |
|                            | Absolute (PS1/PS2)  |                  |  | 1014.2/1014.7 |                   |  |         |
|                            | Check Radome Press. Lines <input checked="" type="checkbox"/> |                  |  | Date: 091500  |                   |  |         |
| S<br>Y<br>S<br>T<br>E<br>M | DOWN PRT-5 ⇒ Open? <input type="checkbox"/>                   |                  | Not USED                               |               |                   | Closed? <input type="checkbox"/>             | N/A     |
|                            | MADS (WINDS/DISCWIN)  | ✓                |  |               |                   | # DATs:                                      |         |
|                            | MADS Printer ⇒ Paper? <input checked="" type="checkbox"/>     | ✓                |  |               |                   | Printer Power off? <input type="checkbox"/>  |         |
|                            | MADS Cal. Date: 060800  |                  | QC time: 164846                        |               |                   | QC time: 0214                                |         |
|                            | WINDS ⇒ NET BCAST <input type="checkbox"/>                    |                  | —                                      |               |                   |  |         |
|                            | HAPS System / Time set? <input type="checkbox"/>              |                  |  |               |                   | # Msg: 24 # Fail: 10                         |         |
|                            | AVAPS System  |                  | JAS                                    |               |                   |  |         |
|                            | K2 Printer ⇒ Paper? <input checked="" type="checkbox"/>       | ✓                |  |               |                   | Printer Power off? <input type="checkbox"/>  |         |
|                            | Exterior Walk Around <input checked="" type="checkbox"/>      |                  | JAS                                    |               |                   |  |         |
|                            | Inspect DropSonde Chute Bolts                                 |                  | JAS                                    |               |                   |  |         |
| M<br>I<br>S<br>C           | Satcom (Flight Phone) <input checked="" type="checkbox"/>     |                  |  |               |                   | Off CB? <input type="checkbox"/>             |         |
|                            | Call COMSAT? <input type="checkbox"/> (*292#)                 |                  | —                                      |               |                   |  |         |
|                            | FCU/UPS/CB  |                  | CB's Checked? <input type="checkbox"/> |               |                   | UPS off? <input checked="" type="checkbox"/> |         |
|                            | AVAPS Sondes  |                  | # On Board: 74                         | # Dropped: 24 |                   | # Good: 24                                   |         |
|                            | AXBT  |                  | # On Board: —                          | # Dropped:    |                   | # Good:                                      |         |
|                            | APN-232 Altimeter   |                  | ✓ JCPB                                 |               |                   |  |         |
|                            | Modem Power On? <input checked="" type="checkbox"/>           |                  | JCPB                                   |               |                   |  |         |

|   |             |          |           |           |
|---|-------------|----------|-----------|-----------|
| 1 | DAT Tape #1 | On: 1648 | Type: V6Ø | Off: 0222 |
| 2 | DAT Tape #2 | On:      | Type:     | Off:      |

Comments:

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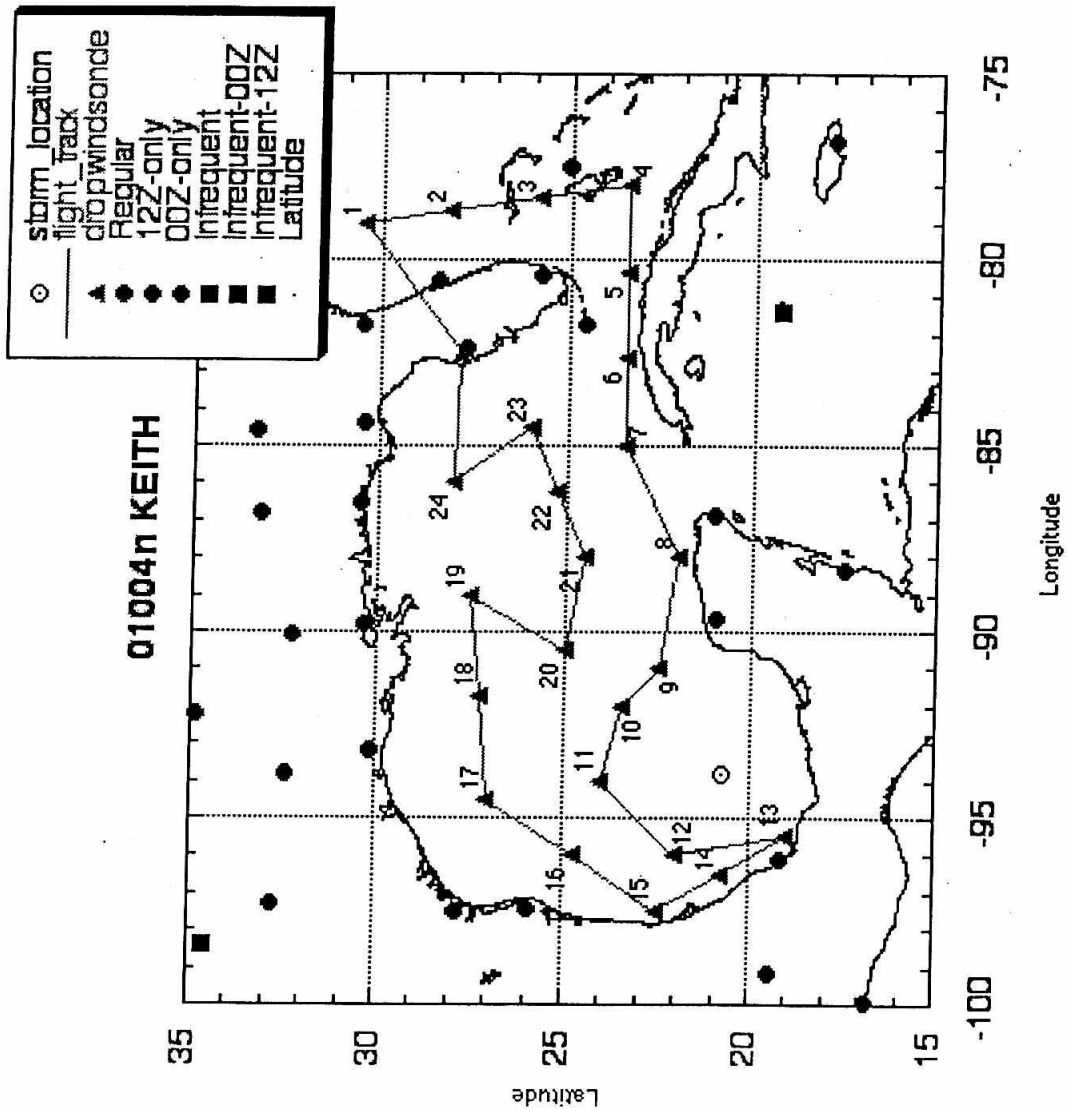
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GIF image 540x432 pixels

ftp://ftp.aoml.noaa.gov/pub/hrd/aberson/surveillance/001004n.gif



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 HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: KEITH/SYNOPTIC

 NOAA/Hurricane Research Division Wednesday, October 4, 2000 8:21:39 AM  
 Aircraft: N49RF Proposed takeoff: 04/1730Z  
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## TRACK DISTANCES

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| #  | LAT<br>(d m) | LON<br>(d m) | RAD/AZM<br>(nm/dg) | LEG<br>(nm) | TOTAL<br>(nm) | TIME<br>(h:mm) |
|----|--------------|--------------|--------------------|-------------|---------------|----------------|
| 0  | MACDILL      |              |                    | 0.          | 0.            | 0:00           |
| 1  | 30 30        | 79 00        |                    | 253.        | 253.          | 0:34           |
| 2  | 23 30        | 78 00        |                    | 424.        | 677.          | 1:32           |
| 3  | 23 30        | 85 00        |                    | 402.        | 1079.         | 2:27           |
| 4  | 22 00        | 88 00        |                    | 195.        | 1274.         | 2:53           |
| 5  | 22 30        | 91 00        |                    | 176.        | 1450.         | 3:17           |
| 6  | 23 30        | 92 00        |                    | 83.         | 1533.         | 3:29           |
| 7  | 24 00        | 94 00        |                    | 119.        | 1652.         | 3:45           |
| 8  | 22 00        | 96 00        |                    | 166.        | 1818.         | 4:07           |
| 9  | 19 00        | 95 30        |                    | 182.        | 2001.         | 4:32           |
| 10 | 22 30        | 97 30        |                    | 240.        | 2240.         | 5:05           |
| 11 | 27 00        | 94 30        |                    | 320.        | 2560.         | 5:49           |
| 12 | 27 30        | 89 00        |                    | 313.        | 2873.         | 6:31           |
| 13 | 25 00        | 90 30        |                    | 173.        | 3045.         | 6:55           |
| 14 | 24 30        | 88 00        |                    | 146.        | 3191.         | 7:15           |
| 15 | 26 00        | 84 30        |                    | 219.        | 3411.         | 7:45           |
| 16 | 28 00        | 86 00        |                    | 147.        | 3558.         | 8:05           |
| 17 | MACDILL      |              |                    | 196.        | 3754.         | 8:31           |

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## =====

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: KEITH/SYNOPTIC

NOAA/Hurricane Research Division Wednesday, October 4, 2000 8:21:39 AM  
Aircraft: N49RF Proposed takeoff: 04/1730Z

## =====

DROP LOCATIONS

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| #  | LAT<br>(d m) | LON<br>(d m) | RAD/AZM<br>(nm/dg) | TIME<br>(h:mm) |
|----|--------------|--------------|--------------------|----------------|
| 1  | 30 30        | 79 00        |                    | 0:34           |
| 2  | 28 10        | 78 40        |                    | 0:53           |
| 3  | 25 49        | 78 19        |                    | 1:13           |
| 4  | 23 30        | 78 00        |                    | 1:32           |
| 5  | 23 30        | 80 19        |                    | 1:50           |
| 6  | 23 30        | 82 40        |                    | 2:08           |
| 7  | 23 30        | 85 00        |                    | 2:27           |
| 8  | 22 00        | 88 00        |                    | 2:53           |
| 9  | 22 30        | 91 00        |                    | 3:17           |
| 10 | 23 30        | 92 00        |                    | 3:29           |
| 11 | 24 00        | 94 00        |                    | 3:45           |
| 12 | 22 00        | 96 00        |                    | 4:07           |
| 13 | 19 00        | 95 30        |                    | 4:32           |
| 14 | 20 45        | 96 30        |                    | 4:49           |
| 15 | 22 30        | 97 30        |                    | 5:05           |
| 16 | 24 45        | 96 00        |                    | 5:27           |
| 17 | 27 00        | 94 30        |                    | 5:49           |
| 18 | 27 15        | 91 45        |                    | 6:10           |
| 19 | 27 30        | 89 00        |                    | 6:31           |
| 20 | 25 00        | 90 30        |                    | 6:55           |
| 21 | 24 30        | 88 00        |                    | 7:15           |
| 22 | 25 15        | 86 15        |                    | 7:30           |
| 23 | 26 00        | 84 30        |                    | 7:45           |
| 24 | 28 00        | 86 00        |                    | 8:05           |

