

Flt ID: 020912 n Time Off: 1735 Time On:

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1012.9 mb

429.95

1013.5

29.95

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

1

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

25

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

NOAA9 0309A CYCLONE

29.2 87.4

TEAL 54 THU 21Z

TEAL -- 03Z

DROP 2 - INTERMITTENT WINDS BELOW 800 mb

DROP 8 - OUT 1 min LATE CAR TRAFFIC

DROP 19 - WINDS FAILED - RECOVERED

DROP 20E - EXTRA DROP BETWEEN 20 + 21

DROP 21E - EXTRA DROP AFTER 21 (FAILED @  $\approx$  600 mb)

## U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

AOCWF1

|                  |                     |                      |
|------------------|---------------------|----------------------|
| Flt ID: 020912n  | From: MCF           | To: MCF              |
| Flt No: 02-084   | Blk In: 0217        | ATA: 0205z           |
| ETD: 1330        | Blk Out: 1725z      | ATD: 1735z           |
| ETE: 8.5         | Blk Time: 8:52 (29) | Flt Time: 8:30 (2.5) |
| Sponsor Org: NHC | Program: SURV.      | Purpose: TD #9       |

## AOC Personnel

|                         |                       |
|-------------------------|-----------------------|
| AC: FINKE ✓             | Sys Eng: HORN BROOK ✓ |
| CP: FINN / POSTON       | Data Sys: CALENTER ✓  |
| Nav:                    | Radar: BROGAN ✓       |
| FE:                     | GPS/BT:               |
| FD: PARASH / FLAHERTY ✓ | Cld Phys:             |
| Avionics: HILL ✓        |                       |

## Participating Scientists / Visitors / AOC

| Name (Last, First) | Activity on Aircraft | Affiliation |
|--------------------|----------------------|-------------|
| LANDSEA ✓          | H2D                  |             |
| LIN ✓              | VIS                  |             |
| WONG ✓             | VIS                  |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |

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



Flight ID:

020912n

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U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

Form 413-50

| Time   | Lat   | Long  | Trk | Hdg | Wind Dir | Wind Spd | T <sub>a</sub> | T <sub>i</sub> | Press. Alt | Geo. Alt | Sfc Press. | Press. Sfc | Dyn. Press | Remarks            |
|--------|-------|-------|-----|-----|----------|----------|----------------|----------------|------------|----------|------------|------------|------------|--------------------|
| 1735   | 27.8  | 82.4  |     |     | 190      | 10       | 24             | 21             |            |          | 1012.9     | 151m       | 0.1m       | TAKE-OFF           |
| 182054 | 30.98 | 79.37 | 075 | 073 | 281      | 25       | -60            | -67            | 12466      | 13062    | ✓          | 175        | 88         | DROP 1             |
| 183614 | 31.00 | 76.95 | 90  | 87  | 276      | 31       | -60            | -64            | 12468      | 13031    | ✓          | 175        | 89         | DROP 2             |
| 185836 | 31.00 | 74.62 | 120 | 122 | 298      | 33       | -58            | -63            | 12467      | 13009    | ✓          | 175        | 89         | DROP 3             |
| 191045 | 28.53 | 74.60 | 240 | 244 | 272      | 22       | -59            | -67            | 12470      | 13077    | ✓          | 175        | 88         | DROP 4             |
| 192421 | 28.50 | 76.27 | 270 | 269 | 270      | 28       | -59            | -67            | 12469      | 13070    | ✓          | 175        | 87         | DROP 5             |
| 193825 | 28.42 | 77.95 | 216 | 221 | 282      | 34       | -59            | -63            |            |          |            |            |            | DROP 6             |
| 200446 | 25.11 | 78.00 | 200 | 207 | 301      | 22       | -59            | -60            |            |          |            |            |            | DROP 7             |
| 202729 | 24.20 | 80.65 |     |     |          |          |                |                |            |          |            |            |            | DROP 8             |
| 204918 | 23.47 | 83.09 | 252 | 252 | 291      | 6        | -64            | -63            | 13247      | 13747    | ✓          | 159        | 80         | DROP 9             |
| 210755 | 22.71 | 85.53 | 215 | 244 | 195      | 2        | -63            | -61            | 13048      | 13752    | ✓          | 157        | 78         | DROP 10            |
| 212755 | 22.00 | 88.04 | 269 | 269 | 266      | 5        | -63            | -63            | 13114      | 13825    | ✓          | 157        | 79         | DROP 11            |
| 215140 | 21.98 | 91.01 | 251 | 252 | 318      | 10.6     | -64            | -66            | 13187      | 13891    | ✓          | 155        | 70         | DROP 12            |
| 221305 | 20.61 | 93.37 | 239 | 239 | 341      | 6        | -66            | -67            | 13325      | 14055    | ✓          | 152        | 76         | DROP 13            |
| 223355 | 19.34 | 95.72 | 220 | 220 | 334      | 10       | -65            | -65            | 13331      | 14075    | ✓          | 152        | 79         | DROP 14            |
| 225957 | 20.63 | 96.80 | 70  | 70  | 22       | 9        | -65            | -66            | 13337      | 14026    | ✓          | 152        | 76         | DROP 15            |
| 232230 |       |       |     |     |          |          |                |                |            |          |            |            |            | DROP 16            |
| 234636 | 25.01 | 92.50 | 17  | 13  | 326      | 11       | -66            | -70            | 13613      | 14378    | ✓          | 145        | 72         | DROP 17            |
| 201300 | 27.99 | 91.86 | 71  | 68  | 325      | 8        | -67            | -71            | 13614      | 14389    | ✓          | 144        | 73         | DROP 18            |
| 003040 | 27.85 | 89.58 | 165 | 169 |          |          |                |                |            |          |            |            |            | DROP 19            |
| 003    |       |       |     |     | WINDS    |          | FAILED         |                |            |          |            |            |            | <del>DROP 20</del> |
| 003622 | 27.05 | 89.49 | 180 | 179 | 99       | 1        | -66            | -71            | 13617      | 14381    | ✓          | 144        | 72         | DROP 19A           |
| 005310 | 27.05 | 0     |     |     |          |          |                |                |            |          |            |            |            | DROP 20            |
| 010457 | 26.23 | 88.47 | 36  | 36  | 82       | 2        | -68            | -72            | 13616      | 14382    | ✓          | 144        | 71         | DROP 20E           |
| 010955 | 26.54 | 88.20 |     |     |          |          |                |                |            |          |            |            |            | DROP 21            |
| 011057 | 26.86 | 87.99 |     |     |          |          |                |                |            |          |            |            |            | DROP 21E           |
| 012342 | 27.98 | 86.93 | 79  | 78  | 299      | 9        | -68            | -72            |            |          |            |            |            | DROP 22            |
| 020500 | 27.85 | 82.5  |     |     | 92       | 9        | 25             | 22             |            |          | 1013.5     |            |            | LAND               |



# N49RF AVAPS DropSonde Log

N49RF Project: HURRICANE 02 Flight ID 020912N

Mission: TD #9 Flight #: RF 4 System Status: AOK

| Drop # | Sonde Serial Number | Chn. # | Time (Zulu) | Press. offset | Winds time | Operator Initials | Comments / Drop Status/ Failure Reason | OOD <input checked="" type="checkbox"/> |
|--------|---------------------|--------|-------------|---------------|------------|-------------------|----------------------------------------|-----------------------------------------|
| 1      | 003 115030          | 1      | 1820        | -0.2          | 21         | ASZ               |                                        | ✓                                       |
| 2      | 014 415002          | 2      | 1836        | -0.3          | 19         | ASZ               | LOST WINDS LAST 1000M                  | ✓                                       |
| 3      | 013 915072          | 1      | 1850        | 0.4           | 22         | ASZ               |                                        | ✓                                       |
| 4      | 014 515029          | 1      | 1910        | 0             | 27         | ASZ               |                                        | ✓                                       |
| 5      | 013 945120          | 2      | 1924        | 0.1           | 10         | ASZ               |                                        | ✓                                       |
| 6      | 013 945086          | 1      | 1938        | 0.1           | 19         | ASZ               |                                        | ✓                                       |
| 7      | 013 968065          | 1      | 2004        | 0.4           | 85         | ASZ               |                                        | ✓                                       |
| 8      | 014 335056          | 1      | 2027        | -0.1          | 57         | ASZ               |                                        | ✓                                       |
| 9      | 003 815261          | 1      | 2047        | -0.2          | 54         | ASZ               |                                        | ✓                                       |
| 10     | 003 825048          | 1      | 2107        | -0.2          | 42         | ASZ               |                                        | ✓                                       |
| 11     | 003 338038          | 1      | 2127        | 0.3           | 44         | ASZ               |                                        | ✓                                       |
| 12     | 003 475055          | 1      | 2151        | -0.6          | 17         | JWH               |                                        | ✓                                       |
| 13     | 013 915086          | 1      | 2213        | 0.4           | 19         | JWH               |                                        | ✓                                       |
| 14     | 013 945115          | 1      | 2233        | 0.5           | 15         | JWH               |                                        | ✓                                       |
| 15     | 013 945164          | 1      | 2259        | 0.4           | 41         | JWH               |                                        | ✓                                       |
| 16     | 013 945082          | 1      | 2322        | 0.3           | 33         | JWH               |                                        | ✓                                       |
| 17     | 013 945102          | 1      | 2346        | 0.3           | 26         | JWH               |                                        | ✓                                       |
| 18     | 014 415033          | 1      | 0013        | -0.3          | 20         | JWH               |                                        | ✓                                       |
| 19     | 013 945078          | 2      | 0030        | 0.3           | 29         | JWH               | Lost Winds for extended time           | ✓                                       |
| 20     | 013 945114          | 1      | 0036        | 0.3           | 25         | JWH               | B/U                                    | ✓                                       |
| 21     | 013 945080          | 2      | 0053        | 0.3           | 37         | JWH               |                                        | ✓                                       |
| 22     | 994 325182          | 1      | 0104        | 0             | 38         | JWH               |                                        | ✓                                       |
| 23     | 013 915073          | 3      | 0107        | 0.4           | 460        | JWH               |                                        | ✓                                       |
| 24     | 013 915074          | 4      | 0110        | 0.5           | 53         | JWH               | Telemetry died halfway down            |                                         |
| 25     | 994 325086          | 1      | 0123        | 0             | 38         | JWH               |                                        | ✓                                       |
| 26     |                     |        |             |               |            |                   |                                        |                                         |
| 27     |                     |        |             |               |            |                   |                                        |                                         |
| 28     |                     |        |             |               |            |                   |                                        |                                         |
| 29     |                     |        |             |               |            |                   |                                        |                                         |
| 30     |                     |        |             |               |            |                   |                                        |                                         |
| 31     |                     |        |             |               |            |                   |                                        |                                         |
| 32     |                     |        |             |               |            |                   |                                        |                                         |
| 33     |                     |        |             |               |            |                   |                                        |                                         |

## =====

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: INVEST/SYNOPTIC

NOAA/Hurricane Research Division Wednesday, September 11, 2002 1:01:17 PM  
Aircraft: N49RF Proposed takeoff: 12/1730Z

## =====

DROP LOCATIONS

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| #  | LAT<br>(d m) | LON<br>(d m) | RAD/AZM<br>(nm/dg) | TIME<br>(h:mm) |
|----|--------------|--------------|--------------------|----------------|
| 1  | 31 00        | 79 30        |                    | 0:34           |
| 2  | 31 00        | 77 00        |                    | 0:53           |
| 3  | 31 00        | 74 30        |                    | 1:12           |
| 4  | 28 30        | 74 30        |                    | 1:32           |
| 5  | 28 30        | 76 15        |                    | 1:46           |
| 6  | 28 30        | 78 00        |                    | 1:59           |
| 7  | 25 00        | 78 00        |                    | 2:28           |
| 8  | 24 15        | 80 30        |                    | 2:48           |
| 9  | 23 30        | 83 00        |                    | 3:09           |
| 10 | 22 45        | 85 30        |                    | 3:29           |
| 11 | 22 00        | 88 00        |                    | 3:50           |
| 12 | 22 00        | 91 00        |                    | 4:14           |
| 13 | 20 37        | 93 22        |                    | 4:36           |
| 14 | 19 15        | 95 45        |                    | 4:57           |
| 15 | 22 00        | 97 00        |                    | 5:22           |
| 16 | 22 30        | 94 00        |                    | 5:46           |
| 17 | 25 00        | 92 30        |                    | 6:10           |
| 18 | 28 00        | 92 00        |                    | 6:34           |
| 19 | 28 00        | 89 30        |                    | 6:54           |
| 20 | 25 00        | 89 30        |                    | 7:18           |
| 21 | 26 30        | 88 15        |                    | 7:34           |
| 22 | 28 00        | 87 00        |                    | 7:49           |



# 020912N INVEST

