

## U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

|                         |                  |                        |
|-------------------------|------------------|------------------------|
| FLT ID: 20161119N1      | From: KMCF       | To: KMCF               |
| FLT #:                  | Blk In: 1837 Z   | Lnd Time(on): 1832 Z   |
| ETD: 1400 Z             | Blk Out: 1405 Z  | T/O Time (off): 1414 Z |
| ETE:                    | Total Blk: (4.5) | Total Flt: (4.3)       |
| Sponsoring Org: AOC/SEB | Program: RM SEB  | Purpose: AAMPS test ft |

## AOC Flight Crew

|                                 |                       |
|---------------------------------|-----------------------|
| Aircraft Commander: Hagan       | Data System: Defeo    |
| Co-Pilot: Toth                  | Avaps: Richards       |
| Navigator: /                    | System Engineer: Hill |
| Flight Eng: /                   | AA: Miller            |
| Flt Director: Williams, Damiano | AA:                   |
| Avionics:                       | Crew Chief:           |

Participating Scientists, Visitors, &amp; Add'l Aircrew on back.

(7)

# of people listed on back:

|          | A/C - Takeoff   | Wx Station - Takeoff | A/C - Land      | Wx Station - Land |
|----------|-----------------|----------------------|-----------------|-------------------|
| Pressure | 1022.3 / 1023.1 | 1023.6               | 1026.1 / 1026.5 | 1021.5            |

|                |                               |              |
|----------------|-------------------------------|--------------|
| ATIS - Takeoff | 1355Z 04007 10 SKC 14/12 3024 | PA-LT - 3028 |
| ATIS - Land    | 3024                          | 3019 - 3017  |

| Data Source        | Number | Data Disposition / Date / Quality / File Name(s) |
|--------------------|--------|--------------------------------------------------|
| Flight Level Tapes |        |                                                  |
| Radar Tapes        |        |                                                  |
| Dropsondes         | 2      | Good: 2 Bad: $\emptyset$ Sent: $\emptyset$       |
| AXBT               |        |                                                  |

List other data sources on back in Remarks section.

| Remarks (Storm Name, Mission ID, Recco Times, Fix Times) | Recco Times: | Fix # | Fix Time |
|----------------------------------------------------------|--------------|-------|----------|
| Storm Name: _____                                        |              |       |          |
| Mission ID: _____                                        |              |       |          |

84 2550

| 101119n.1og<br>v Vel   | Latitude                 | Longitude                 | Press | Temp  | 101119n.1og<br>DP | WD    | WS    | MSL Alt | G Alt   | Heading | Track | TAS   | GS    |
|------------------------|--------------------------|---------------------------|-------|-------|-------------------|-------|-------|---------|---------|---------|-------|-------|-------|
| 14:17:29<br>test       | 27 54.07'N               | 82 18.57'W                | 50.0  | -0.4  | -103.3            | 275.5 | 102.9 | 1116.1  | 1114.9  | 92.1    | 94.0  | 23.6  |       |
| 126.2                  | 10.85                    | 1405<br>blockout          |       |       |                   |       |       |         |         |         |       |       |       |
| 14:17:38               | 27 53.96'N               | 82 17.88'W                | 50.0  | -0.4  | -103.3            | 288.8 | 106.1 | 1211.8  | 1210.6  | 105.0   | 107.2 | 23.7  |       |
| 129.5                  | 8.66                     | 1414<br>t/o               |       |       |                   |       |       |         |         |         |       |       |       |
| 14:29:56               | 26 45.20'N               | 82 47.14'W                | 50.0  | -0.4  | -103.2            | 20.9  | 209.0 | 9160.5  | 9138.7  | 207.1   | 201.3 | 25.5  |       |
| 234.4                  | 10.28                    | test                      |       |       |                   |       |       |         |         |         |       |       |       |
| 14:55:59               | 25 51.34'N               | 84 14.86'W                | 50.0  | -0.7  | -103.2            | 271.5 | 219.3 | 14238.0 | 14191.9 | 94.6    | 91.6  | 32.5  |       |
| 251.8                  | 0.11                     | Start AAMPS FL450 leg     |       |       |                   |       |       |         |         |         |       |       |       |
| 14:57:40               | 25 50.95'N               | 83 59.70'W                | 50.0  | -0.7  | -103.2            | 271.8 | 219.4 | 14239.0 | 14192.8 | 94.5    | 91.7  | 32.5  |       |
| 251.8                  | -0.46                    | sonde 1 f1450             |       |       |                   |       |       |         |         |         |       |       |       |
| 15:00:09               | 25 50.33'N               | 83 37.24'W                | 50.0  | -0.7  | -103.2            | 271.8 | 221.2 | 14241.6 | 14195.4 | 94.2    | 91.7  | 32.6  |       |
| 253.8                  | 0.18                     | end AAMPS FL450 leg       |       |       |                   |       |       |         |         |         |       |       |       |
| 15:02:29               | 26 01.96'N               | 83 24.12'W                | 50.0  | -0.7  | -103.2            | 201.3 | 208.9 | 14245.0 | 14199.0 | 11.3    | 19.3  | 32.4  |       |
| 240.3                  | 0.19                     | start AAMPS FL450 circles |       |       |                   |       |       |         |         |         |       |       |       |
| 15:07:34               | 25 55.90'N               | 83 12.18'W                | 50.0  | -0.7  | -103.2            | 123.2 | 158.8 | 14246.6 | 14200.4 | 294.3   | 300.9 | 32.3  |       |
| 190.3                  | -0.14                    | end 1st circle            |       |       |                   |       |       |         |         |         |       |       |       |
| 15:13:28               | 25 57.70'N               | 82 59.83'W                | 50.0  | -0.7  | -103.2            | 85.8  | 148.1 | 14241.7 | 14195.6 | 263.4   | 264.5 | 32.4  |       |
| 180.3                  | -0.20                    | in and out of cloud       |       |       |                   |       |       |         |         |         |       |       |       |
| 15:15:28               | 26 07.48'N               | 83 06.03'W                | 148.6 | -29.1 | -103.2            | 286.7 | 53.6  | 14238.1 | 14192.2 | 14.8    | 22.7  | 243.0 |       |
| 242.6                  | -0.26                    | end AAMPS FL450 circles,  |       |       |                   |       |       |         |         |         |       |       |       |
| switch to MADS         |                          |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 15:27:27               | 25 49.50'N               | 83 38.04'W                | 148.7 | -70.3 | -73.9             | 246.7 | 42.3  | 14242.8 | 14196.5 | 267.9   | 272.4 | 222.4 | 183.4 |
| 0.07                   | start MADS FL450 leg     |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 15:34:21               | 25 49.96'N               | 84 23.66'W                | 148.7 | -70.3 | -73.9             | 240.5 | 39.7  | 14240.2 | 14194.0 | 266.5   | 271.8 | 220.5 | 185.5 |
| -0.20                  | end MADS FL450 leg       |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 15:37:19               | 26 00.90'N               | 84 36.13'W                | 148.3 | -66.7 | -73.8             | 255.8 | 39.8  | 14243.7 | 14197.7 | 352.3   | 3.1   | 225.6 | 234.1 |
| -0.17                  | start MADS FL450 circles |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 15:50:43               | 26 06.21'N               | 84 19.53'W                | 148.7 | -67.9 | -71.8             | 251.8 | 38.1  | 14225.6 | 14179.8 | 348.6   | 359.3 | 222.2 | 230.6 |
| -0.20                  | end MADS FL450 circles.  |                           |       |       |                   |       |       |         |         |         |       |       |       |
| Start descent to FL400 |                          |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 15:58:09               | 25 46.77'N               | 84 13.48'W                | 187.7 | -58.6 | -67.8             | 263.1 | 34.5  | 12797.6 | 12758.9 | 86.5    | 86.0  | 228.3 | 262.7 |
| 0.56                   | start MADS FL400 leg     |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 16:02:13               | 25 48.77'N               | 83 35.09'W                | 187.6 | -58.5 | -66.5             | 266.1 | 33.7  | 12805.9 | 12767.2 | 83.3    | 84.2  | 229.0 | 262.7 |
| 0.32                   | end MADS FL400 leg       |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 16:04:28               | 26 01.78'N               | 83 24.14'W                | 187.7 | -58.8 | -66.2             | 265.4 | 38.7  | 12794.8 | 12756.4 | 2.0     | 10.4  | 229.6 | 236.5 |
| -0.73                  | start MADS FL400 circles |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 16:17:59               | 26 05.79'N               | 83 07.15'W                | 187.6 | -59.1 | -66.6             | 272.8 | 49.8  | 12795.2 | 12756.8 | 15.1    | 21.9  | 229.6 | 240.9 |
| 0.19                   | end MADS FL400 circles.  |                           |       |       |                   |       |       |         |         |         |       |       |       |
| data system switch     |                          |                           |       |       |                   |       |       |         |         |         |       |       |       |
| 16:19:00               | 26 11.31'N               | 83 00.67'W                | 50.0  | -0.7  | -103.2            | 252.2 | 224.9 | 12791.3 | 12753.0 | 69.9    | 71.3  | 32.8  |       |
| 257.5                  | 0.13                     | data system switch        |       |       |                   |       |       |         |         |         |       |       |       |
| 16:28:44               | 25 49.27'N               | 83 32.87'W                | 50.0  | -0.7  | -103.2            | 91.9  | 157.0 | 12801.7 | 12763.0 | 269.0   | 270.9 | 32.1  |       |
| 188.9                  | -0.03                    | start AAMPS FL400 leg     |       |       |                   |       |       |         |         |         |       |       |       |
| 16:33:08               | 25 50.04'N               | 84 02.80'W                | 50.0  | -0.7  | -103.3            | 90.6  | 157.4 | 12795.1 | 12756.5 | 267.3   | 269.6 | 32.2  |       |
| 189.4                  | 0.35                     | drop sonde FL400          |       |       |                   |       |       |         |         |         |       |       |       |
| 16:36:20               | 25 50.23'N               | 84 24.60'W                | 50.0  | -0.7  | -103.2            | 91.9  | 158.2 | 12791.1 | 12752.5 | 267.7   | 270.7 | 32.4  |       |
| 190.4                  | 0.24                     | end AAMPS FL400 leg       |       |       |                   |       |       |         |         |         |       |       |       |
| 16:40:35               | 26 03.67'N               | 84 44.16'W                | 50.0  | -0.7  | -103.3            | 172.8 | 197.1 | 12782.1 | 12743.7 | 340.1   | 351.0 | 32.4  |       |
| 228.7                  | -0.24                    | start AAMPS FL400 circles |       |       |                   |       |       |         |         |         |       |       |       |
| 16:54:57               | 26 11.90'N               | 84 29.79'W                | 50.0  | -0.7  | -103.3            | 134.4 | 173.8 | 12782.0 | 12743.8 | 303.4   | 312.7 | 32.3  |       |
| 205.6                  | 0.22                     | end AAMPS FL400 circles   |       |       |                   |       |       |         |         |         |       |       |       |

|          |       |                           |    |         |       |       |             |       |         |         |       |       |       |
|----------|-------|---------------------------|----|---------|-------|-------|-------------|-------|---------|---------|-------|-------|-------|
| 16:55:13 | 26    | 12.91'N                   | 84 | 31.37'W | 50.0  | -0.7  | 101119n.109 | 167.1 | 12778.9 | 12740.7 | 289.4 | 296.9 | 32.2  |
| 198.8    | -0.00 | descend to FL350          |    |         |       |       | 118.5       |       |         |         |       |       |       |
| 17:00:56 | 25    | 50.46'N                   | 84 | 18.04'W | 50.0  | -0.7  | -103.3      | 269.2 | 11254.5 | 11223.2 | 89.7  | 88.8  | 32.2  |
| 258.0    | 0.36  | start AAMPS FL350 leg     |    |         |       |       |             | 225.9 |         |         |       |       |       |
| 17:05:18 | 25    | 50.29'N                   | 83 | 37.54'W | 50.0  | -0.7  | -103.2      | 270.4 | 11254.3 | 11223.0 | 90.7  | 90.1  | 32.4  |
| 259.0    | -0.75 | end AAMPS FL350 leg       |    |         |       |       |             | 226.7 |         |         |       |       |       |
| 17:09:24 | 25    | 32.49'N                   | 83 | 11.73'W | 50.0  | -0.7  | -103.2      | 266.8 | 11254.9 | 11223.4 | 85.4  | 86.6  | 32.3  |
| 259.0    | -0.11 | start AAMPS FL350 circles |    |         |       |       |             | 226.8 |         |         |       |       |       |
| 17:18:42 | 25    | 46.28'N                   | 82 | 55.19'W | 50.0  | -0.6  | -103.3      | 156.9 | 11249.4 | 11218.1 | 327.7 | 335.7 | 31.2  |
| 223.6    | 0.24  | end AAMPS FL350 circles   |    |         |       |       |             | 192.9 |         |         |       |       |       |
| 17:21:43 | 25    | 50.24'N                   | 83 | 15.77'W | 238.7 | -46.5 | -61.4       | 251.5 | 11254.6 | 11223.4 | 267.3 | 269.1 | 234.5 |
| -0.32    |       | switch to MADS            |    |         |       |       |             | 28.7  |         |         |       |       | 207.0 |
| 17:23:00 | 25    | 50.18'N                   | 83 | 25.26'W | 238.8 | -46.5 | -61.5       | 249.8 | 11253.9 | 11222.7 | 267.6 | 269.7 | 234.2 |
| 0.01     |       | start MADS FL350 leg      |    |         |       |       |             | 28.9  |         |         |       |       | 206.8 |
| 17:29:02 | 25    | 49.74'N                   | 84 | 10.10'W | 238.7 | -46.5 | -61.2       | 250.1 | 11255.6 | 11224.3 | 259.7 | 261.7 | 234.1 |
| 0.50     |       | end MADS FL350 leg        |    |         |       |       |             | 26.8  |         |         |       |       | 207.7 |
| 17:31:00 | 25    | 38.89'N                   | 84 | 16.39'W | 238.6 | -46.8 | -60.8       | 247.3 | 11255.6 | 11224.2 | 187.9 | 182.3 | 234.9 |
| 1.34     |       | start MADS FL350 circles  |    |         |       |       |             | 20.9  |         |         |       |       | 225.2 |
| 17:45:14 | 25    | 38.53'N                   | 84 | 04.88'W | 239.0 | -46.7 | -59.7       | 249.1 | 11251.3 | 11219.9 | 204.1 | 200.0 | 233.5 |
| -1.35    |       | end MADS FL350 circles    |    |         |       |       |             | 21.2  |         |         |       |       | 219.0 |
| 17:45:25 | 25    | 37.29'N                   | 84 | 05.32'W | 238.9 | -46.8 | -59.7       | 247.3 | 11256.5 | 11225.1 | 197.1 | 193.5 | 234.4 |
| 1.65     |       | switch back to AAMPS      |    |         |       |       |             | 21.3  |         |         |       |       | 221.1 |
| 18:31:37 | 27    | 50.51'N                   | 82 | 31.70'W | 50.0  | -0.6  | -103.2      | 220.9 | 9.4     | 9.4     | 42.7  | 40.2  | 29.2  |
| 64.9     | -0.33 | land                      |    |         |       |       |             | 35.7  |         |         |       |       |       |
| 18:37:07 | 27    | 50.97'N                   |    |         |       |       |             | 29.7  | 9.1     | 9.1     | 133.9 | 87.6  | 30.3  |
| 0.4      | 0.01  | blockin                   | 82 | 29.59'W | 50.0  | -0.6  | -103.2      | 131.2 |         |         |       |       |       |