

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

|                       |                 |                        |
|-----------------------|-----------------|------------------------|
| FLT ID: 160820I       | From: KMCF      | To: KMCF               |
| FLT #:                | Blk In: 1238 Z  | Lnd Time(on): 1232 Z   |
| ETD: 1200 Z           | Blk Out: 1207 Z | T/O Time (off): 1217 Z |
| ETE: 3                | Total Blk: 0.5  | Total Flt: 0.3         |
| Sponsoring Org: IMASS | Program: IWRAP  | Purpose: Test          |

AOC Flight Crew

|                                 |                          |
|---------------------------------|--------------------------|
| Aircraft Commander: Girimonte   | Data System: Naeher      |
| Co-Pilot: Kibbey                | Avaps: San Souci         |
| Navigator: Bishop, Brakob       | System-Engineer: Mascaro |
| Flight Eng: Klippel             | AA:                      |
| Flt Director: Parrish, Williams | AA:                      |
| Avionics:                       | Crew Chief:              |

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

# of people listed on back: 4

|          | A/C - Takeoff    | Wx Station - Takeoff | A/C - Land       | Wx Station - Land |
|----------|------------------|----------------------|------------------|-------------------|
| Pressure | 2=160.9 1=1014.8 | 1014.4               | #2 1014.7 1015.0 | 1015.4            |

|                |                                |
|----------------|--------------------------------|
| ATIS - Takeoff | 1155 0000 10 SLR 27/27 2997 AC |
| ATIS - Land    |                                |

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

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: _____                                        | 8 absent           |                     |
|                                                          | 3 vortexes (2 fcd) |                     |
| Mission ID: WXWXA TRAIN                                  | 5 recco's (5 fcd)  |                     |

FLT # 160820

IN: 1605 ON: 1556

Out: 1328 Off: 1337

Total Blk 2+37 2.6 Total Flt: 2.3

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|                    |                      |             |
|--------------------|----------------------|-------------|
| FLT ID: 100820I    | T/O Time: Z          | Lnd Time: Z |
| Name (Last, First) | Activity on Aircraft | Affiliation |
| Sapp, Joe          | IWRAP                | UMASS       |
| Hartley, Tom       | IWRAP                | UMASS       |
| Latham, Terry      | CCN                  | GaTech      |
| Lovely, Holiday    | Programs             | Intern      |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |

Remarks:

Dewpoint #2 is off  
TT # 3 is off

TT 1+2 are too high on taxi vs 27

Dewpoint (1) ~~is~~ too low??

3 = 27.2 on taxi

PSI /m 1014.4 #10 #2

-st

-SPMR NOT working properly too high  
11111 on 1+0 OBS  
entire time

1255Z 20003 10 SKC 30/27 2997

1455 19003 10 SKC 31/27 3000

1555 17006 10 SKC 31/27 3000

- ALL obs but 06 (2nd vortex) got sent



**NOAA P-3 N43RF  
IWRAP Test Flight  
20 Aug 2010**



**Flight ID: 100820I**

| <u>Sensor or system</u>      | <u>Variable Name</u> |
|------------------------------|----------------------|
| Inertial                     | INE1                 |
| Accelerometer                | ACCI1                |
| Temperature Probe            | TT1                  |
| Dew Point Probe              | TDM1                 |
| Altitude (for vertical wind) | ALTI1                |
| Static Pressure              | PSF                  |
| Dynamic Pressure             | PQF1                 |
| Constants File               | n43_hur10v1.adc      |
| Project Directory            | /acdata/2010/MET     |

|                          |                        |                        |
|--------------------------|------------------------|------------------------|
| Local Met Data:          | <u>Takeoff (1217Z)</u> | <u>Landing (1556Z)</u> |
| Aircraft Static Pressure | 1014.8 mb              | 1014.9 mb              |
| Tower Pressure           | 1014.4 mb              | 1015.4 mb              |

Notes

Following t/o at 1217Z, we landed back at /KMCF at 1232Z and took off again at 1337Z, but kept the data system running.

Altnv1 exhibited a handful of spikes during the flight. Alti2, Ra9550 was very noisy. Alti1, RINNU GPS is default.

TT2 is ~ 0.5 C greater than TT1. Based on station Temps, TT1 is more representative.

TDM2 is out to lunch. TDM3 contains several spikes, increasing in frequency towards the end of the flight. TDM1 trends well and looks good, but compared to station dewpoint on t/o and landing seems ~ 2C too cool.

ProSensing and AOC SFMR values are ~ 10m/s too high. In the HDOBS, SFMR values are '///'.

All other instruments appeared to work optimally.

No instruments were released. There were 8 observations (3 vortex, 5 recco's) sent off the plane. 7 of the 8 were received on the ground. All HDOBS were received on the ground.

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*Flight Director: Jack Parrish / Jess Williams*  
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