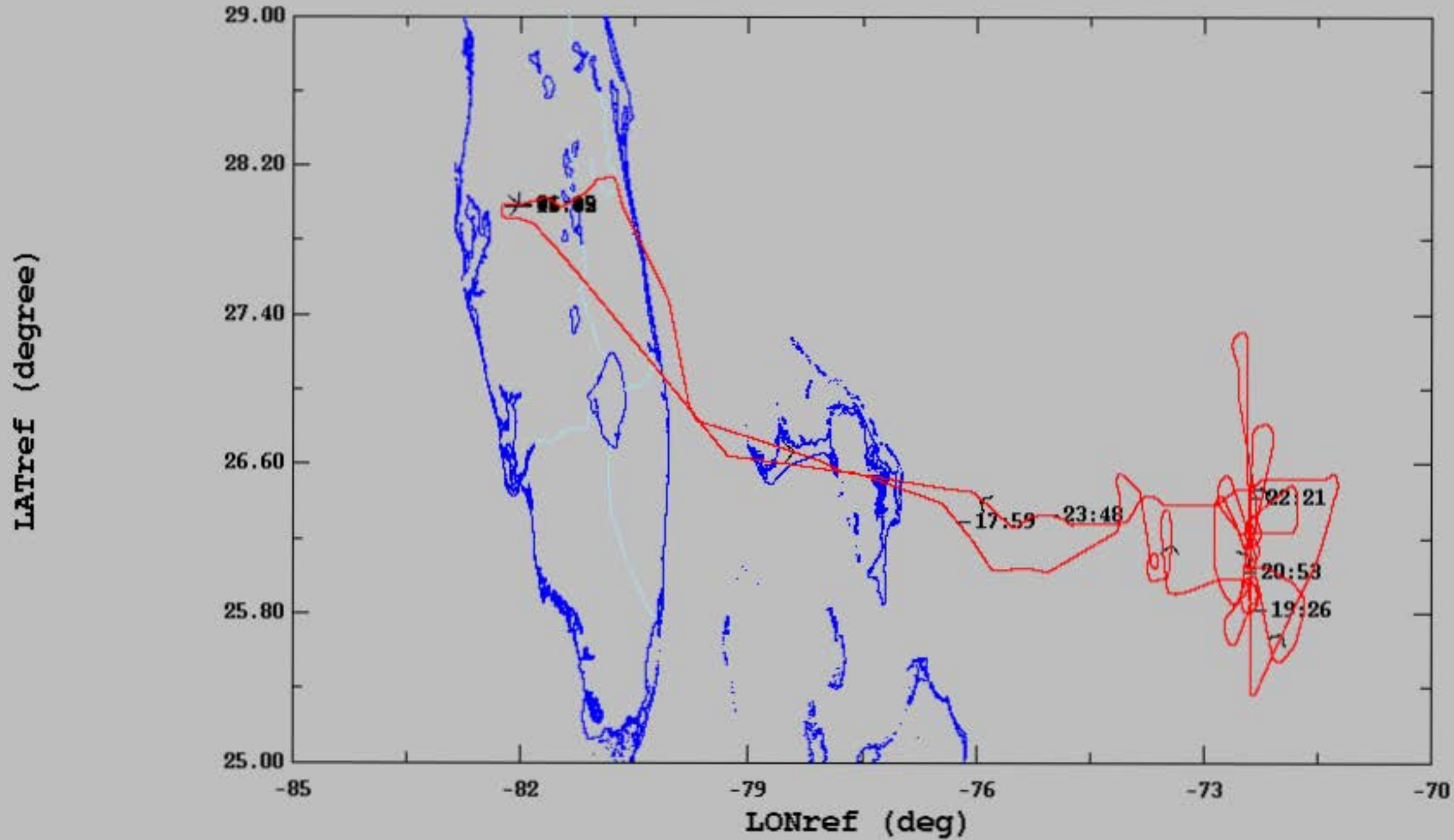




# Hurricane Maria HRD Coyote

09/23/2017, 15:05:20-25:15:21



|                            | mean   | sigma | min    | max    |
|----------------------------|--------|-------|--------|--------|
| — LATref (degree), 1 s/sec | 26.74  | 0.78  | 25.36  | 28.14  |
| — LONref (deg), 1 s/sec    | -76.01 | 4.00  | -82.25 | -71.22 |

## NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

| FLIGHT INFORMATION                |                |             |       | CREW MANIFEST |           |                               | MISSION INFORMATION                                    |            |                   |      |      |
|-----------------------------------|----------------|-------------|-------|---------------|-----------|-------------------------------|--|------------|-------------------|------|------|
| FLT ID:                           | 20170923H1     | FLT #:      |       | AC:           | Price     | Scientists:                   | Pressure   |            | Dropsondes        |      |      |
| From:                             | KLAL           | ETD:        | 1700Z | CP(s):        | Kahn      | Cione, Joe                    | A/C Takeoff  |            | Good              | Bad  | Sent |
| To:                               | KLAL           | ETA:        | 0200Z |               | Didier    |                               |  |            |                   |      |      |
| Block Time                        |                | Flight Time |       | Nav(s):       | Freeman   | Jun Zhang                     | Wx Station Takeoff                                     |            | BTs               |      |      |
| In:                               | 0121           | In:         | 0115  | FE(s):        | Heystek   | Kelly Ryan                    | A/C Land   |            | Good              | Bad  | Sent |
| Out:                              | 1638           | Out:        | 1647  | FD(s):        | Sanchez   | Brad Kent                     | Wx Station Land  |            | 14                | 1    |      |
| Total:                            | 8.7            | Total:      | 8.5   |               | Williams  | Visitors:                     |  |            |                   |      |      |
| Sponsoring Org:                   | AOC HRD        |             |       | SEB:          | Paul      | Representative Abraham (R-LA) | Storm Number ID:                                       |            |                   |      |      |
| Program:                          | Coyote         |             |       |               |           | Eric Blake, NHC               | (ie: AL072012)   |            | AL152017          |      |      |
| Purpose:                          | Research Maria |             |       | SSA:          | Mascaro   |                               | TCPOD/WSPOD Mission                                    |            |                   |      |      |
|                                   |                |             |       | AVAPS:        | McAlister |                               | (ie: NOAA2 2418A SANDY)                                |            | NOAA2 WB15A MARIA |      |      |
| AS REQUIRED BY ORM                |                |             |       | Y             | N         | REMARKS                       | Fix Number   | Obs Number | Fix Time          | SLP  |      |
| VOLCANIC ASH                      |                |             |       |               | X         | 15 BT'S                       | 1  | 2          | 1917              | 950  |      |
| SCIENCE MISSION WITHIN BDRY LAYER |                |             |       |               | x         |                               |  | 2          | 3                 | 2221 | 947  |
| LACK OF PRECIPITATION             |                |             |       |               | x         | 3 Coyotes                     |  |            |                   |      |      |
| RELATIVE HUMIDITY ≥ 80%           |                |             |       | x             |           |                               |  |            |                   |      |      |
| LARGE AIR-SEA TEMP GRADIENT       |                |             |       |               | X         | 15 IR Sondes                  |  |            |                   |      |      |
| HIGH SURFACE WINDS                |                |             |       | x             |           |                               |  |            |                   |      |      |
| LONG FETCH / DURATION OF SFC WND  |                |             |       | x             |           | 2 Regular Sondes              |  |            |                   |      |      |
| SEA SALT ACCRETION FORECAST       |                |             |       |               | X         |                               | 2 RD41 Sondes  |            |                   |      |      |
| SEA SALT ACCRETION OBSERVED       |                |             |       |               |           |                               |  |            |                   |      |      |
| Additional Remarks:               |                |             |       |               |           |                               | *Highlighted items must be completed before departure. |            |                   |      |      |
| Cockpit Gmax:                     |                |             |       | Gmin:         |           |                               |  |            |                   |      |      |

# APPENDIX 1 – P3 QC Checklist

|                            |            |
|----------------------------|------------|
| <b>Flight ID:</b>          | 20170923H1 |
| <b>Flight Director(s):</b> | Williams   |

| Pressure Comparison |                   |               |
|---------------------|-------------------|---------------|
|                     | T/O 1647          | Land 0115     |
| <b>Aircraft</b>     | <b>1007.6 (2)</b> | <b>1007.4</b> |
| <b>Tower</b>        | <b>1008.0</b>     | <b>1007.2</b> |

UWZ.d mean: \_\_0.16\_\_

|  | Raw 1Hz Mean File Parameters |              |              |                   | C File Parameters |          |
|--|------------------------------|--------------|--------------|-------------------|-------------------|----------|
| <input checked="" type="checkbox"/> Accelerometer              | AccAXI.1                     | AccAYI.1     | AccAZI.1     | AccZfilter-GPS.1  | AccZref           |          |
|  | AccAXI.2                     | AccAYI.2     | AccAZI.2     | Acc-Zfilter-GPS.2 |                   |          |
|  | AccAXI-GPS.1                 | AccAYI-GPS.1 | AccAZI-GPS.1 |                   |                   |          |
|  | AccAXI-GPS.2                 | AccAYI-GPS.2 | AccAZI-GPS.2 |                   |                   |          |
| <input checked="" type="checkbox"/> Altitude                   | AltGPS.1                     | AltI-GPS.1   | AltPaADDU.1  | AltRA.1           | ALTref            | AltRA1.c |
|  | AltGPS.2                     | AltI-GPS.2   | AltBCADDU.1  | AltRA.2           | ALTPA.d           | AltRA2.c |
|  | AltGPS.3                     |              |              |                   | ALTGA.d           |          |
|  | AltGPS.4                     |              |              |                   |                   |          |
| <input checked="" type="checkbox"/> Ground Speed               | GsXI-GPS.1                   | GsYI-GPS.1   | GsZI-GPS.1   |                   | GSXref            |          |
|  | GsXI-GPS.2                   | GsYI-GPS.2   | GsZI-GPS.2   |                   | GSYref            |          |
|  |                              |              |              |                   | GSZref            |          |
| <input checked="" type="checkbox"/> Lat/Lon                    | LatGPS.1                     | Lati-GPS.1   | LonGPS.1     | Loni-GPS.1        | LATref            |          |
|  | LatGPS.2                     | Lati-GPS.2   | LonGPS.2     | Loni-GPS.2        | LONref            |          |
|  | LatGPS.3                     |              | LonGPS.3     |                   |                   |          |
|  | LatGPS.4                     |              | LatGPS.4     |                   |                   |          |
| <input checked="" type="checkbox"/> Pressure                   | PDALPHA.1                    | PQALPHA.1    | PQM.1        | PSM.1             | PDALPHAref        | PQMref   |
|  | PDALPHA.2                    | PQBETA.1     | PQM.2        | PSM.2             | PDBETAref         | PQ.c     |
|  | PDBETA.1                     |              | PQM.3        | PTM.1             | PQALPHAref        | PSMref   |
|  | PDBETA.2                     |              | PQM.4        |                   | PQBETAref         | PS.c     |
| <input checked="" type="checkbox"/> Air Speed                  | CasADDU.1                    | TasADDU.1    | IasADDU.1    |                   | IAS.d             | TAS.d    |
| <input checked="" type="checkbox"/> Pitch/Roll                 | PitchI.1                     | PitchRateI.1 | RollI.1      | RollRateI.1       | PITCHref          |          |
|  | PitchI.2                     | PitchRateI.2 | RollI.2      | RollRateI.2       | ROLLref           |          |
|  | PitchI.3                     | PitchRateI.3 | RollI.3      | RollRateI.3       |                   |          |
| <input checked="" type="checkbox"/> Temp/Dewpt                 | TTM.1                        | TDM.1        | TRadD.1      |                   | TD.c              | TTMref   |
|  | TTM.2                        | TDM.2        | TRadS.1      |                   | TDMref            | TA.d     |
|  | TTM.3                        | TDM.3        | TRadU.1      |                   |                   |          |
| <input checked="" type="checkbox"/> Miscellaneous (must check) |                              |              |              |                   | UWZ.d             | WS.d     |
|  |                              |              |              |                   | DPJ_WSZ           | WD.d     |
|  |                              |              |              |                   | HUM               |          |

**Mission Documents:**

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Error Summary                                    |
| <input checked="" type="checkbox"/> | Crew Manifest                                    |
| <input checked="" type="checkbox"/> | QC checklist                                     |
| <input checked="" type="checkbox"/> | Dropwindsonde Log(s) – AVAPS and FD if completed |
|                                     | Miscellaneous FD notes                           |

**NOTES:** pqm.1 drops out for a few seconds @ 2154Z, but pqm.2 is reference.

