

N42RF ERROR SUMMARY  
20200826H1

Flight ID: 20200826H1

| Sensor or System<br>-----            | Number or Name<br>----- |
|--------------------------------------|-------------------------|
| Static Pressure Probe                | PSM.2                   |
| Dynamic Pressure Probe               | PQM.2                   |
| Total Temperature Probe              | TTM.1                   |
| Dewpoint Temp. Probe                 | TDM.1                   |
| Vertical Accelerometer               | AccZfilterI-GPS.1       |
| Altimeter                            | AltGPS.3                |
| INE Selection                        | 1                       |
| Differential Attack Pressure Probe   | PDALPHA.1               |
| Differential Sideslip Pressure Probe | PDBETA.1                |
| Dynamic Attack Pressure Probe        | PQALPHA.1               |
| Dynamic Sideslip Pressure Probe      | PQBETA.1                |

Flight Directory acdata/2020/MET/20200826H1

| Local Met Data        | Takeoff KLAL (0904Z) | Landing KLAL (1559Z) |
|-----------------------|----------------------|----------------------|
| Dynamic Corrections   |                      | Yes                  |
| AttackAngleIntercept  |                      | 2.27641              |
| AttackAngleSlope      |                      | 6.01899              |
| SlipAngleIntercept    |                      | 0.232                |
| SlipAngleSlope        |                      | 7.17429              |
| AttackAngleIntercept2 |                      | 2.06387              |
| AttackAngleSlope2     | 6.01177              |                      |
| SlipAngleIntercept2   |                      | 0.195                |
| SlipAngleSlope2       |                      | 6.67434              |

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

PDAlpha.2 and PDBeta.2 inoperative. TTM.3 unavailable. TDM.3 inoperative. TRadU.1 unavailable.

Note: TDM.2 unrepresentative for first 1/3rd of mission. TDM.1 better choice for this mission.

| Expendable Type<br>----- | # deployed<br>----- | # good<br>----- | # transmitted<br>----- |
|--------------------------|---------------------|-----------------|------------------------|
| Dropsondes               | 31                  | 29              | 25                     |
| Test sondes              | 0                   | 0               | 0                      |
| AXBTS                    | 0                   | 0               | 0                      |
| AXCPs                    | 0                   | 0               | 0                      |
| AXCTDs                   | 0                   | 0               | 0                      |
| UAS                      | 0                   | 0               | 0                      |

## P-3 QC Checklist

|                           |                   |
|---------------------------|-------------------|
| <b>Flight ID:</b>         | <b>20200826H1</b> |
| <b>Flight Director(s)</b> | <b>Holmes</b>     |
| <b>UWZ.d mean:</b>        | <b>0.16</b>       |

| Pressure Comparison |               |       |
|---------------------|---------------|-------|
|                     | T/O           | Land  |
| <b>Aircraft</b>     | <b>1010.0</b> | ----- |
| <b>Tower</b>        | <b>1011.0</b> | ----- |

|                      | Raw 1Hz Mean File Parameters                                 |  |  |   | C File Parameters  |  |
|----------------------|--|--|--|---|--|--|
| ✓ Accelerometer      | ✓ AccAXI.1<br>✓ AccAXI.2<br>✓ AccAXI-GPS.1<br>✓ AccAXI-GPS.2 | ✓ AccAYI.1<br>✓ AccAYI.2<br>✓ AccAYI-GPS.1<br>✓ AccAYI-GPS.2 | ✓ AccAZI.1<br>✓ AccAZI.2<br>✓ AccAZI-GPS.1<br>✓ AccAZI-GPS.2 | ✓ AccZfilter-GPS.1<br>✓ AccZfilter-GPS.2        | ✓ AccZref  |  |
| ✓ Altitude           | ✓ AltGPS.1<br>✓ AltGPS.2<br>✓ AltGPS.3<br>✓ AltGPS.4         | ✓ AltI-GPS.1<br>✓ AltI-GPS.2                                 | ✓ AltPaADDU.1<br>✓ AltBCADDU.1                               | ✓ AltRA.1<br>✓ AltRA.2                          | ✓ ALTref<br>✓ ALTPA.d<br>✓ ALTGA.d                         | ✓ AltRA1.c<br>✓ AltRA2.c                 |
| ✓ Ground Speed       | ✓ GsXI-GPS.1<br>✓ GsXI-GPS.2                                 | ✓ GsYI-GPS.1<br>✓ GsYI-GPS.2                                 | ✓ GsZI-GPS.1<br>✓ GsZI-GPS.2                                 |   | ✓ GSXref<br>✓ GSYref<br>✓ GSZref                           |  |
| ✓ Lat / Lon          | ✓ LatGPS.1<br>✓ LatGPS.2<br>✓ LatGPS.3<br>✓ LatGPS.4         | ✓ LatI-GPS.1<br>✓ LatI-GPS.2                                 | ✓ LonGPS.1<br>✓ LonGPS.2<br>✓ LonGPS.3<br>✓ LonGPS.4         | ✓ LonI-GPS.1<br>✓ LonI-GPS.2                    | ✓ LATref<br>✓ LONref                                       |  |
| ✓ Pressure           | ✓ PDALPHA.1<br>✗ PDALPHA.2<br>✓ PDBETA.1<br>✗ PDBETA.2       | ✓ PQALPHA.1<br>✓ PQBETA.1                                    | ✓ PQM.1<br>✓ PQM.2<br>✓ PQM.3<br>✓ PQM.4                     | ✓ PSM.1<br>✓ PSM.2<br>✓ PTM.1                   | ✓ PDLAPHaref<br>✓ PDBETAref<br>✓ PQALPHaref<br>✓ PQBETAref | ✓ PQMref<br>✓ PQ.c<br>✓ PSMref<br>✓ PS.c |
| ✓ Air Speed          | ✓ CasADDU.1  | ✓ TasADDU.1  | ✓ IasADDU.1  |   | ✓ IAS.d  | ✓ TAS.d                                  |
| ✓ Pitch / Roll       | ✓ PitchI.1<br>✓ PitchI.2<br>✓ PitchI.3                       | ✓ PitchRateI.1<br>✓ PitchRateI.2<br>✓ PitchRateI.3           | ✓ RolLI.1<br>✓ RolLI.2<br>✓ RolLI.3                          | ✓ RollRateI.1<br>✓ RollRateI.2<br>✓ RollRateI.3 | ✓ PITCHref<br>✓ ROLLref                                    |  |
| ✓ Temp / Dewpt       | ✓ TTM.1<br>✓ TTM.2<br>✗ TTM.3                                | ✓ TDM.1<br>✓ TDM.2<br>✗ TDM.3                                | ✓ TRadD.1<br>✓ TRadS.1<br>✗ TRadU.1                          |   | ✓ TD.c<br>✓ TDMref   | ✓ TTMref<br>✓ TA.d                       |
| ✓ Misc. (Must check) |  |  |  |   | ✓ UWZ.d<br>✓ DPJ_WSZ<br>✓ HUM                              | ✓ WS.d<br>✓ WD.d                         |

| FLID_Mission_Documents.pdf: |  |
|-----------------------------|--|
| ✓                           | Error Summary                                    |
| ✓                           | Crew Manifest                                    |
| ✓                           | QC Checklist                                     |
| ✗                           | Dropwindsonde Log(s) - AVAPS and FD if completed |
| ✓                           | Flight Track                                     |
| ✗                           | Miscellaneous FD Notes                           |

| QC Key        |                                     |
|---------------|-------------------------------------|
| Not checked   | <input type="checkbox"/>            |
| Valid         | <input checked="" type="checkbox"/> |
| Errors (note) | <input checked="" type="checkbox"/> |

### NOTES:

PDAlpha.2 and PDBeta.2 inoperative. TTM.3 unavailable. TDM.3 inoperative. TRadU.1 unavailable.

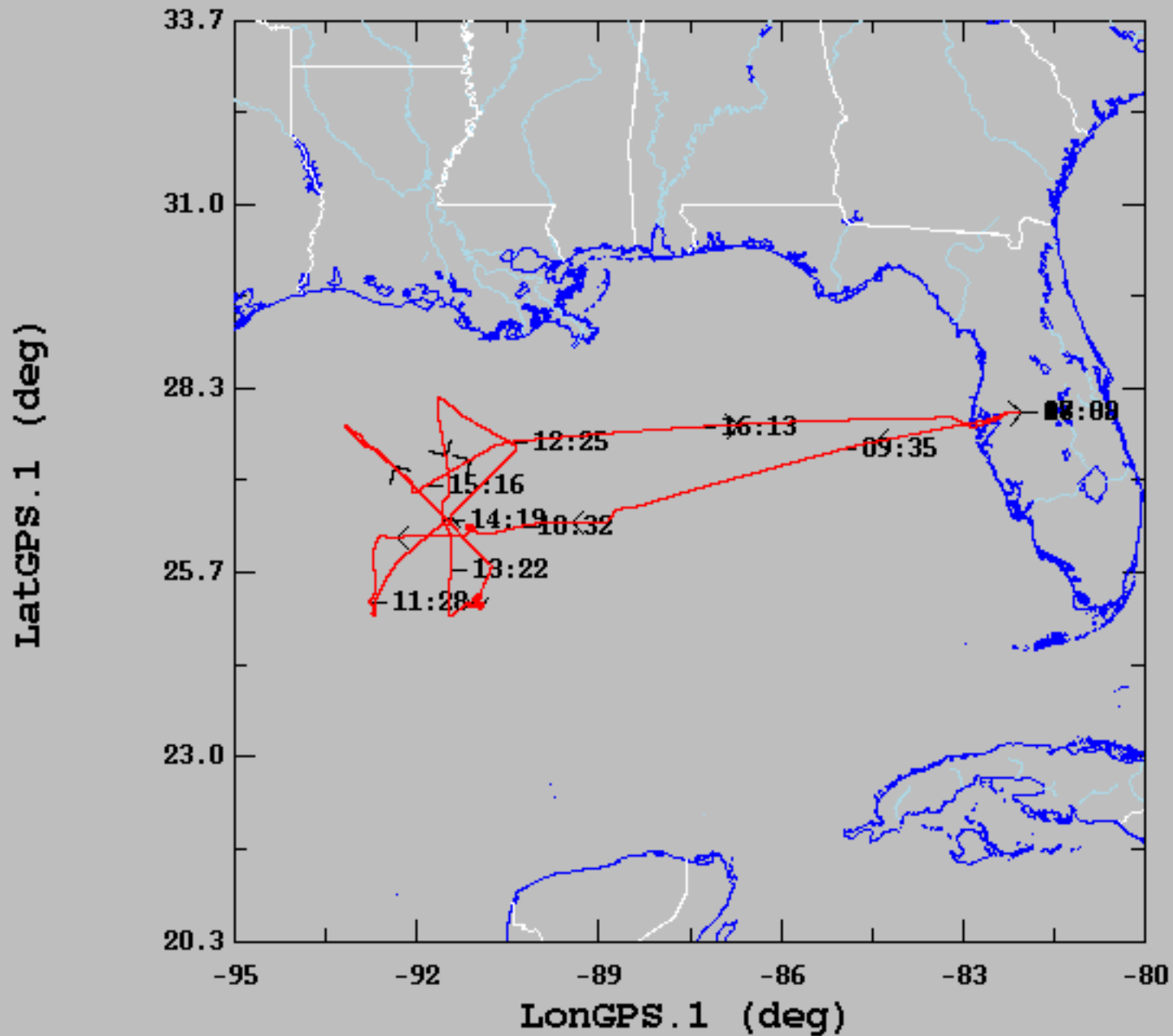
Note:

## U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

| FLIGHT INFORMATION                                     |                    |                    |                    | CREW MANIFEST |              |   | MISSION INFORMATION     |            |                 |     |      |
|--|--------------------|--------------------|--------------------|---------------|--------------|---|-------------------------|------------|-----------------|-----|------|
| FLT ID:  | 20200826H1         | FLT #:             |                    | AC:           | Abitbol      | Scientists:   | Pressure                |            | Dropsondes      |     |      |
| From:  | KLAL               | ETD:               | 0900Z              | CP(s):        | Mitchell     | Chang   | A/C Takeoff             |            | Good            | Bad | Sent |
| To:  | KLAL               | ETA:               | 1700Z              | NAV:          | Rannenberg   | Jelenak   | ASOS Takeoff            |            | 31              | 2   | 25   |
| <b>Block Time</b>                                      |                    | <b>Flight Time</b> |                    | FE(s):        | Richards (B) |   |                         |            | <b>BTs</b>      |     |      |
| In:  | 1714               | Land:              | 1709               | FD(s):        | Darby        |   | A/C Land                |            | Good            | Bad | Sent |
| Out:   | 0858               | T/O:               | 0904               | SSA:          | Lalonde      |   | ASOS Land               |            |                 |     |      |
| Total:   | <del>0.0</del> 8.3 | Total:             | <del>0.0</del> 8.1 | AVAPS:        | Holmes       |   |                         |            |                 |     |      |
| Sponsoring Org:  |                    | EMC/NHC (NWS)      |                    |               | SEB:         |   | Storm Number ID:        |            | <b>AL132020</b> |     |      |
| Program:   |                    | PRX                |                    |               | MX:          |   | (ie: AL072012)          |            |                 |     |      |
| Purpose:   |                    | Hurr LAURA OPS     |                    |               |              |   | TCPOD/WSPOD Mission     |            |                 |     |      |
|  |                    |                    |                    |               |              |   | (ie: NOAA2 2418A SANDY) |            |                 |     |      |
| AS REQUIRED BY ORM                                     |                    |                    |                    | Y             | N            | REMARKS   | Fix Number              | Obs Number | Fix Time        | SLP |      |
| VOLCANIC ASH   |                    |                    |                    |               | x            |   | <b>1</b>                | 11         |                 | 964 |      |
| SCIENCE MISSION WITHIN BDY LAYER                       |                    |                    |                    | x             |              |   |                         |            |                 |     |      |
| LACK OF PRECIPITATION                                  |                    |                    |                    |               | x            | <i>2x CAT II Pennies</i><br><i>+ 3x CAT III Pennies</i> | <b>2</b>                | 12         |                 | 959 |      |
| RELATIVE HUMIDITY ≥ 80%                                |                    |                    |                    | x             |              |   |                         |            |                 |     |      |
| LARGE AIR-SEA TEMP GRADIENT                            |                    |                    |                    |               | x            |   | <b>3</b>                | 13         |                 | 958 |      |
| HIGH SURFACE WINDS                                     |                    |                    |                    | x             |              | <i>5x Total Hurr Pennies</i>                            |                         |            |                 |     |      |
| LONG FETCH / DURATION OF SFC WND                       |                    |                    |                    | x             |              |   | <b>4</b>                | 23         |                 | 957 |      |
| SEA SALT ACCRETION FORECAST                            |                    |                    |                    |               | x            |   |                         |            |                 |     |      |
| SEA SALT ACCRETION OBSERVED                            |                    |                    |                    |               |              |   | <b>Pennies:</b>         |            |                 |     |      |
| *Highlighted items must be completed before departure. |                    |                    |                    |               |              |   |                         |            |                 |     |      |
| Remarks:   |                    |                    |                    |               |              |   |                         |            |                 |     |      |
|  |                    |                    |                    |               |              |   |                         |            |                 |     |      |
|  |                    |                    |                    |               |              |   |                         |            |                 |     |      |

# 20200816H1 Flight Track

2020-08-26, 08:38:30-17:09:50



|                           | mean   | sigma | min    | max    |
|---------------------------|--------|-------|--------|--------|
| — LatGPS.1 (deg), 1 s/sec | 26.91  | 0.89  | 25.03  | 28.20  |
| — LonGPS.1 (deg), 1 s/sec | -89.23 | 3.44  | -93.15 | -82.01 |