



UAS 0 0 0

Flight Director: Carpenter / Holmes / Kalen  
Phone #: 863-500-3901

ACAT-4 Version = 7.4

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

| FLIGHT INFORMATION                |                 |             |       | CREW MANIFEST |                  |                | MISSION INFORMATION                            |                        |                                    |                        |      |
|-----------------------------------|-----------------|-------------|-------|---------------|------------------|----------------|--|------------------------|------------------------------------|------------------------|------|
| FLT ID:                           | 20220519H1      | FLT #:      | 22-   | AC:           | Rossi            | Scientists:    | Pressure                                       |                        | Dropsondes                         |                        |      |
| From:                             | KFOE            | ETD:        | 2000Z | CP(s):        | Copare           | Conrad Ziegler | A/C Takeoff                                    | 960.7                  | Good                               | Bad                    | Sent |
| To:                               | KFOE            | ETA:        | 0300Z |               | Wood             | Dan Stechman   |  |                        | ASOS Takeoff                       | KFOE 1953Z<br>962.6 mb | 0    |
| Block Time                        |                 | Flight Time |       | NAV:          | Hough            | Michael Hosek  | ASOS Land                                      | N/A                    |                                    |                        | BTs  |
| In:                               | 1:38            | Land:       | 1:30  | FE(s):        | Darby            |                |  |                        | A/C Land                           | N/A                    | Good |
| Out:                              | 19:41           | T/O:        | 19:52 | FD(s):        | Gee              |                | ASOS Land                                      | KFOE 0130Z<br>958.7 mb |                                    |                        | 0    |
| Total:                            | 6.0             | Total:      | 5.6   | SSA:          | McAlister        | Visitors:      |  |                        | Storm Number ID:<br>(ie: AL072012) | N/A                    |      |
| Sponsoring Org:                   | NSSL            |             |       | AVAPS:        | Dykeman          |                | TCPOD/WSPOD Mission<br>(ie: NOAA2 2418A SANDY) | NOAA2 WXWXA TORUS01    |                                    |                        |      |
| Program:                          | PBX             |             |       | SEB:          | Kalen (FD)       |                |  |                        |                                    |                        |      |
| Purpose:                          | TORUS Mission 1 |             |       | SEB:          | Richards/B (NAV) |                |  |                        |                                    |                        |      |
|                                   |                 |             |       | MX:           | Mascaro (SSA)    |                |  |                        |                                    |                        |      |
| AS REQUIRED BY ORM                |                 |             |       | Y             | N                | REMARKS        | Fix Number                                     | Obs Number             | Fix Time                           | SLP                    |      |
| VOLCANIC ASH                      |                 |             |       |               | X                |                | 1  |                        |                                    |                        |      |
| SCIENCE MISSION WITHIN BDRY LAYER |                 |             |       | X             |                  |                |  |                        |                                    |                        |      |
| LACK OF PRECIPITATION             |                 |             |       |               | X                |                | 2  |                        |                                    |                        |      |
| RELATIVE HUMIDITY ≥ 80%           |                 |             |       | X             |                  |                |  |                        |                                    |                        |      |
| LARGE AIR-SEA TEMP GRADIENT       |                 |             |       |               | X                |                | 3  |                        |                                    |                        |      |
| HIGH SURFACE WINDS                |                 |             |       |               | X                |                |  |                        |                                    |                        |      |
| LONG FETCH / DURATION OF SFC WND  |                 |             |       |               | X                |                | 4  |                        |                                    |                        |      |
| SEA SALT ACCRETION FORECAST       |                 |             |       |               | X                |                |  |                        |                                    |                        |      |
| SEA SALT ACCRETION OBSERVED       |                 |             |       |               | X                |                | Pennies:                                       | N/A                    |                                    |                        |      |

\*Highlighted items must be completed before departure.

Remarks:

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## P-3 QC Checklist

|                    |  |
|--------------------|--|
| Overall Assessment | Minor instrument issue(s) - no mission impact. |
|--------------------|--|

|                     |  |
|---------------------|--|
| Flight ID:          | 20220519H1                             |
| Flight Director(s): | Holmes / Carpenter / Kalen             |
| Mission:            | Non-tasked Science Collection/Research |
| UWZ.d mean:         | 0.18                                   |

| Pressure Comparison |                     |                     |
|---------------------|---------------------|---------------------|
|                     | T/O                 | Land                |
| Aircraft            | 960.7               | N/A                 |
| Tower               | KFOE 1953Z 962.6 mb | KFOE 0130Z 958.7 mb |

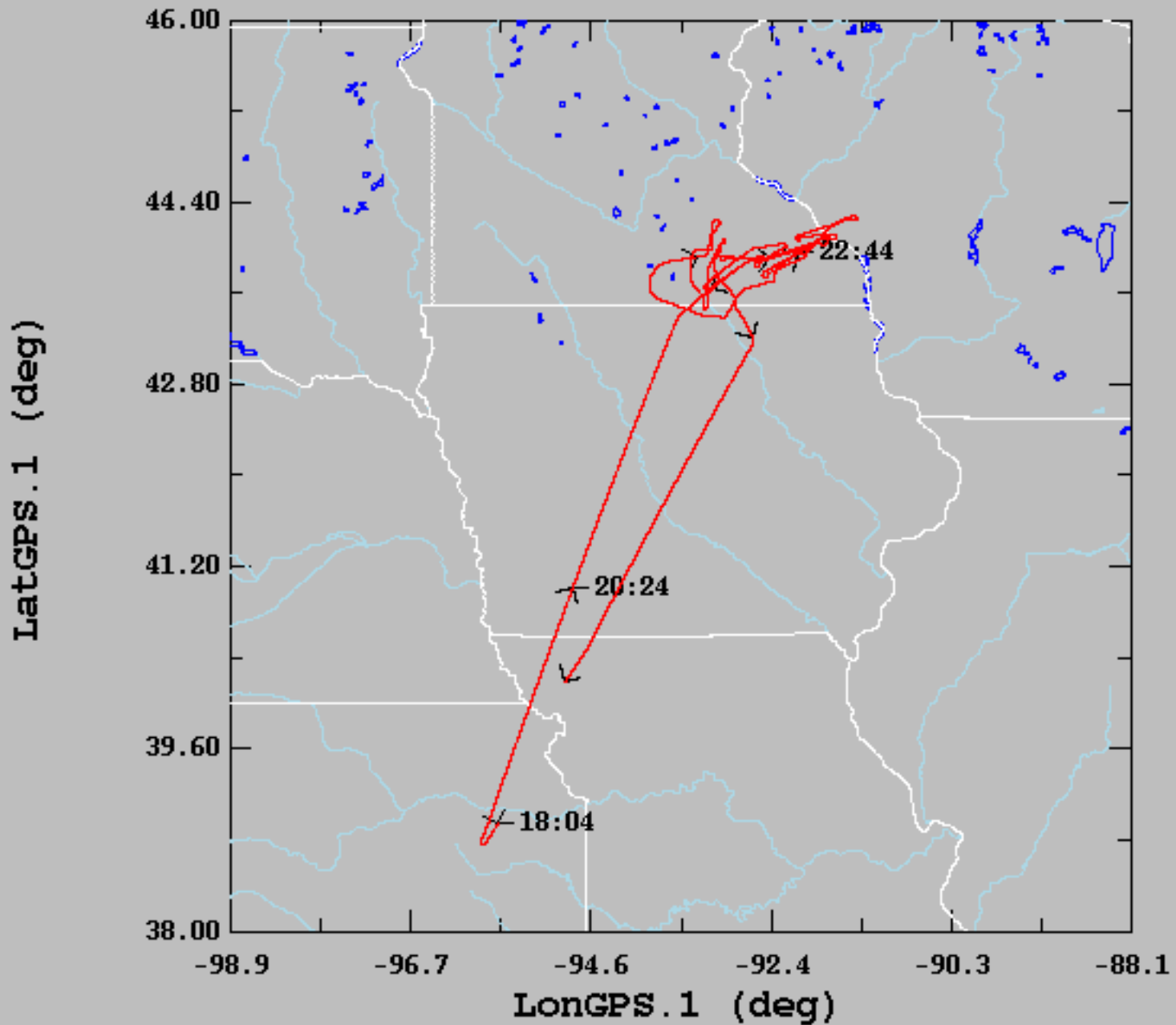
|                      | Raw 1Hz Mean File Parameters                                 |  |  |   | C File Parameters  |  |
|----------------------|--|--|--|---|--|--|
| ✓ Accelerometer      | ✓ AccAXI.1<br>✓ AccAXI.2<br>✓ AccAXI-GPS.1<br>✓ AccAXI-GPS.2 | ✓ AccAYI.1<br>✓ AccAYI.2<br>✓ AccAYI-GPS.1<br>✓ 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:  |
|---|
| <p>PitchI.3 and RollI.d unavailable.</p> <p>TTM.3 unavailable.</p> <p>TDM.1 exhibits significant noise after 2330Z. TDM.3 trends with other TDMs but is unrepresentative.</p> <p>TRadU.1 unavailable.</p> |

05/19/2022, 18:04:07-25:04:24



|                            | mean   | sigma | min    | max    |
|----------------------------|--------|-------|--------|--------|
| — LatGPS.1 (deg), 1 s/sec  | 41.95  | 2.16  | 38.75  | 44.28  |
| — LongGPS.1 (deg), 1 s/sec | -93.84 | 1.41  | -95.88 | -91.39 |