

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

| FLIGHT INFORMATION | | | | CREW MANIFEST | | | MISSION INFORMATION | | | | |
|-----------------------------------|--------------|----------------|--------------|---------------|-----------|-------------------------|---------------------|------------------------|------------|----------|-----------|
| FLT ID: | 20220925H1 | FLT #: | | AC: | Abitbol | Scientists: | Pressure | | Dropsondes | | |
| From: | TNCA | ETD: | 0800Z | CP(s): | Copare | Rogers | A/C Takeoff | | Good | Bad | Sent |
| To: | KLAL | ETA: | 1600Z | | Wood | Zhang | | | 20 | 1 | 20 |
| Block Time | | Flight Time | | NAV: | Miller | | ASOS Takeoff | | BTs | | |
| In: | 1607Z | Land: | 1559Z | FE(s): | Stokes | | | | A/C Land | | Good |
| Out: | 0816Z | T/O: | 0821Z | FD(s): | Gee | ASOS Land | | 3 | | | 0 |
| Total: | 7.9 | Total: | 7.6 | SSA: | McAlister | | | Visitors: | | | |
| Sponsoring Org: | | NWS/EMC | | AVAPS: | Dykeman | Storm Number ID: | | AL092022 | | | |
| Program: | | PRX | | SEB: | Lundry | (ie: AL072012) | | | | | |
| Purpose: | | Tac Repo / TDR | | MX: | Mazur | TCPOD/WSPOD Mission | | NOAA2 0809A IAN | | | |
| | | | | | | (ie: NOAA2 2418A SANDY) | | | | | |
| AS REQUIRED BY ORM | | | | Y | N | REMARKS | | Fix Number | Obs Number | Fix Time | SLP |
| VOLCANIC ASH | | | | | X | | 1 | 7 | 1048Z | 1003mb | |
| SCIENCE MISSION WITHIN BDRY LAYER | | | | | X | | | | | | |
| LACK OF PRECIPITATION | | | | | X | | | | | | |
| RELATIVE HUMIDITY ≥ 80% | | | | X | | | 2 | 15 | 1200Z | 1004mb | |
| LARGE AIR-SEA TEMP GRADIENT | | | | | X | | | | | | |
| HIGH SURFACE WINDS | | | | | X | | 3 | 23 | 1312Z | 1004mb | |
| LONG FETCH / DURATION OF SFC WND | | | | | X | | | | | | |
| SEA SALT ACCRETION FORECAST | | | | | X | | | | | | |
| SEA SALT ACCRETION OBSERVED | | | | | X | | 4 | | | | |
| | | | | | | | | | | | |
| | | | | | | | Pennies: | | | | |

*Highlighted items must be completed before departure.

Remarks:

| |
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| |
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P-3 QC Checklist

| | |
|--------------------|---|
| Overall Assessment | Minor instrument issue(s) - minimal mission impact. |
|--------------------|---|

| | |
|---------------------|--------------------|
| Flight ID: | 20220925H1 |
| Flight Director(s): | Kalen/Holmes |
| Mission: | Tasked/Operational |
| UWZ.d mean: | 0.07 |

| Pressure Comparison | | |
|---------------------|---------------|---------------|
| | T/O | Land |
| Aircraft | 1006.5 | N/A |
| Tower | 1004.2 (TNCA) | 1012.2 (KLAL) |

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

NOTES:

Period of missing data during climb out across multiple variables.
 PDALPHA.1 and PDALPHA.2 differ by about 10 mb.
 PDBETA.1 and PDBETA.2 differ by about 15 mb.
 PQM. 1 unrepresentative throughout flight. PQM.4 has large unrepresentative spike around 1500 Z.
 TDM.1 more sensitive than TDM.2. TDM.1 has a large spike at around 1020 Z followed by a period of noisy data.
 Relative humidity unrealistically high.

AVAPS Drop Log

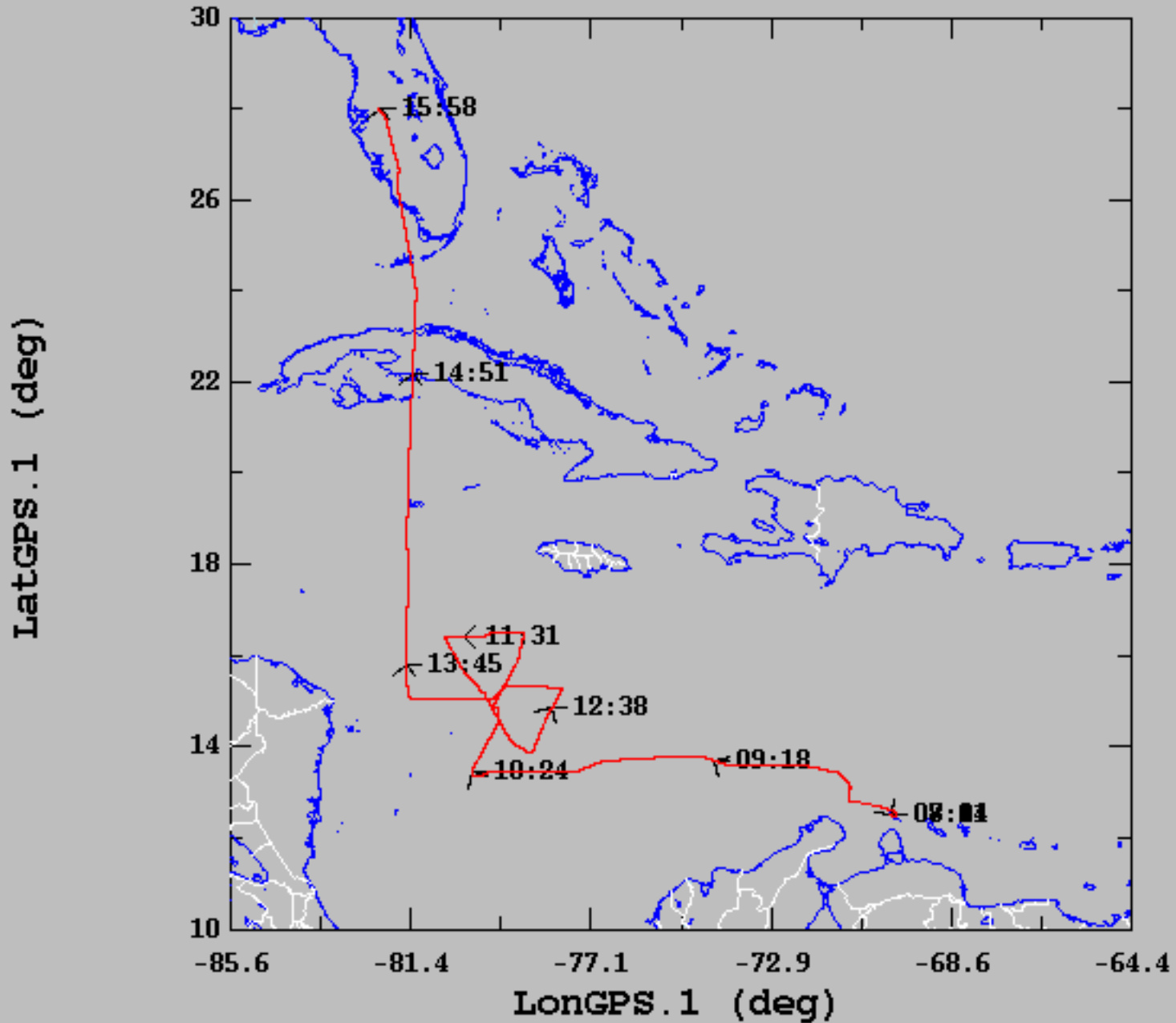
Project: Hurricane 2022 Mission: TS Jan Flight ID: 20220925H1
 Take Off: 0821 Landing: _____ Fit Dir: Q. Kalen Launcher S/N: _____

P1 IP
 P1 MPI
 P1 CP
 P1 RMW0
 P1 RMW0
 P1 RMW0
 P1 MPO
 P1 EP
 P2 IP
 P2 MPI
 P2 CP
 P2 MPO
 P2 EP
 P3 IP
 P3 RMW0
 P3 RMW0
 P3 MPI
 P3 CP
 P3 MPO
 P3 EP

| Drop # | Sonde Serial # | Rcvr # | Press Offset | Launch Time | Operator | Charge \$\$ To | Comments | Good ? |
|--------|----------------|--------|--------------|-------------|----------|----------------|---------------|--------|
| 1 | 213550945 | 1 | -.2 | 1025 | BRD | EMC | | Y |
| 2 | 213450236 | 2 | -.4 | 1037 | BRD | EMC | | Y |
| 3 | 214220654 | 3 | -.6 | 1048 | BRD | EMC | | Y |
| 4 | 213520378 | 4 | -.5 | 1054 | BRD | DNR | | Y |
| 5 | 214230836 | 5 | -.4 | 1059 | BRD | DNR | | Y |
| 6 | 213430251 | 6 | -.2 | 1059 | BRD | DNR | | Y |
| 7 | 213550747 | 7 | -.4 | 1105 | BRD | EMC | | Y |
| 8 | 213550724 | 8 | -.4 | 1113 | BRD | EMC | | Y |
| 9 | 214110673 | 1 | - | 1135 | BRD | EMC | COMBO | Y |
| 10 | 213530443 | 2 | -.1 | 1149 | BRD | EMC | | Y |
| 11 | 213430318 | 3 | -.4 | 1159 | BRD | EMC | COMBO | Y |
| 12 | 213430229 | 4 | -.2 | 1214 | BRD | EMC | | Y |
| 13 | 213620661 | 5 | -.2 | 1217 | BRD | EMC | COMBO | Y |
| 14 | 213520377 | 6 | -.5 | 1244 | BRD | EMC | | Y |
| 15 | 210731097 | 7 | -.9 | 1248 | BRD | DNR | | Y |
| 16 | 210731079 | 8 | -1.0 | 1249 | BRD | DNR | | Y |
| 17 | 210731188 | 1 | -.7 | 1249 | BRD | DNR | No Launch Det | N |
| 18 | 210731098 | 2 | -1.0 | 1257 | BRD | EMC | | Y |
| 19 | 210731084 | 3 | -1.0 | 1312 | BRD | EMC | | Y |
| 20 | 211450607 | 4 | -1.0 | 1324 | BRD | EMC | | Y |
| 21 | 210731111 | 5 | -1.0 | 1334 | BRD | EMC | | Y |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
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| 30 | | | | | | | | |
| 31 | | | | | | | | |

20/21

09/25/2022, 07:04:34-15:58:30



| | mean | sigma | min | max |
|----------------------------|--------|-------|--------|--------|
| — LatGPS.1 (deg), 1 s/sec | 16.14 | 4.07 | 12.48 | 28.00 |
| — LongGPS.1 (deg), 1 s/sec | -77.54 | 4.21 | -82.11 | -69.90 |