

| Expendable Type | # deployed | # good | # transmitted |
|-----------------|------------|--------|---------------|
| ----- | ----- | ----- | ----- |
| Dropsondes | 21 | 20 | 20 |
| Test sondes | 0 | 0 | 0 |
| AXBTs | 5 | 3 | 3 |
| AXCPs | 0 | 0 | 0 |
| AXCTDs | 0 | 0 | 0 |
| UAS | 0 | 0 | 0 |

Flight Director: Zawislak / Parrish
Phone #: 305-707-4359

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: | 20230913H1 | FLT #: | FY23- | AC: | Doremus | Scientists: | Pressure | | Dropsondes | | |
| From: | KLAL | ETD: | 1600L / 2000Z | CP(s): | Rannenberg | Alaka (HRD) | A/C Takeoff | 1007.0 | Good | Bad | Sent |
| To: | KLAL | ETA: | 0000L / 0400Z | | Gaston | Sellwood (HRD) | | | 20 | 1 | 20 |
| Block Time | | Flight Time | | NAV: | Hough | Sapp (NESDIS) | ASOS Takeoff | 1006.0 | BTs | | |
| Out: | 20:02 | T/O: | 20:16 | FE(s): | Wysinger | Chang (NESDIS) | | | Good Bad Sent | | |
| In: | 4:17 | Land: | 4:05 | FD(s): | Parrish | Jelenak (NESDIS) | A/C Land | 1008.1 | 3 | 2 | 3 |
| Total: | 8.3 | Total: | 7.8 | | SSA: | McAlister | | | | | |
| Sponsoring Org: | HX - NHC/EMC | | | SEB: | Carroll | Ginger Zee (Media) | Storm Number ID: | | AL132023 | | |
| Program: | PRX | | | | | Todd Williams (Media) | (ie: AL072012) | | | | |
| Purpose: | TDR Mission | | | MX: | | | TCPOD/WSPOD Mission | | NOAA2 2713A LEE | | |
| | | | | | | | (ie: NOAA2 2418A SANDY) | | | | |
| AS REQUIRED BY ORM | | | | Y | N | REMARKS | Fix Number | Obs Number | Fix Time | SLP | |
| VOLCANIC ASH | | | | | x | | 1 | 0B07 27.41N, 67.60W | 22:54:21 | 951 mb Drop: 165/04 kt | |
| SCIENCE MISSION WITHIN BDRY LAYER | | | | | x | | | | | | |
| LACK OF PRECIPITATION | | | | | x | | | | | | |
| RELATIVE HUMIDITY ≥ 80% | | | | x | | | 2 | 0B16 27.60N, 67.71W | 0:09:24 | 953 mb Drop: 225 / 06 kt | |
| LARGE AIR-SEA TEMP GRADIENT | | | | | x | | | | | | |
| HIGH SURFACE WINDS | | | | x | | | 3 | 0B22 27.77N, 67.81W | 1:28:50 | 953 mb Drop: 105 / 02 kt | |
| LONG FETCH / DURATION OF SFC WND | | | | x | | | | | | | |
| SEA SALT ACCRETION FORECAST | | | | | x | | 4 | | | | |
| SEA SALT ACCRETION OBSERVED | | | | | x | | | | | | |
| | | | | | | | Pennies: | 3 x CAT 2 | | | |

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

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

| | |
|---------------------|--------------------|
| Flight ID: | 20230913H1 |
| Flight Director(s): | Zawislak / Parrish |
| Mission: | Tasked/Operational |
| UWZ.d mean: | 0.12 |

| Pressure Comparison | | |
|---------------------|--------|---------------------|
| | T/O | Land |
| Aircraft | 1007.0 | No good measurement |
| Tower | 1006.0 | 1006.1 |

| | 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 | ✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4 | ✓ PSM.1 ✓ PSM.2 ✓ PTM.1 | ✗ PDLAPHaref ✗ 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 ✗ PitchI.3 | ✓ PitchRateI.1 ✓ PitchRateI.2 ✗ PitchRateI.3 | ✓ RollI.1 ✓ RollI.2 ✗ RollI.3 | ✓ RollRateI.1 ✓ RollRateI.2 ✗ RollRateI.3 | ✓ PITCHref ✓ ROLLref | |
| ✓ Temp / Dewpt | ✓ TTM.1 ✓ TTM.2 ✗ TTM.3 | ✗ TDM.1 ✓ TDM.2 ✗ TDM.3 | ✓ TRadD.1 ✓ TRadS.1 ✗ 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) | <input checked="" type="checkbox"/> |

| NOTES: |
|---|
| <p>I.3 for Pitch and Roll is not operational</p> <p>TTM.3 is not operational</p> <p>TA.d, TD.c, TAS.d, UWZ.d, and thus WS.d and WD.d, drops out at 03:55:40 UTC until 03:59:20 UTC while on final descent</p> <p>TRadU.1 is not operational</p> <p>TDM.1 deviates from TDM.2 for much of the transits, running lower than TDM.2, but TDM.1 does behave better in storm; TDM.3 has erroneous data throughout the flight and should not be used</p> <p>TDM.2 is the better (consistently) behaving sensor and TDMref is set to TDM.2; TDM.1 can be used in storm, but not transits</p> <p>PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file</p> |

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AVAPS Drop Log

Project: LEE

Mission: _____

Flight ID: 20230913H1

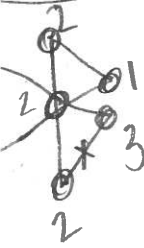
Take Off: 2016 Z.

Landing: _____

Flt Dir: JZ.

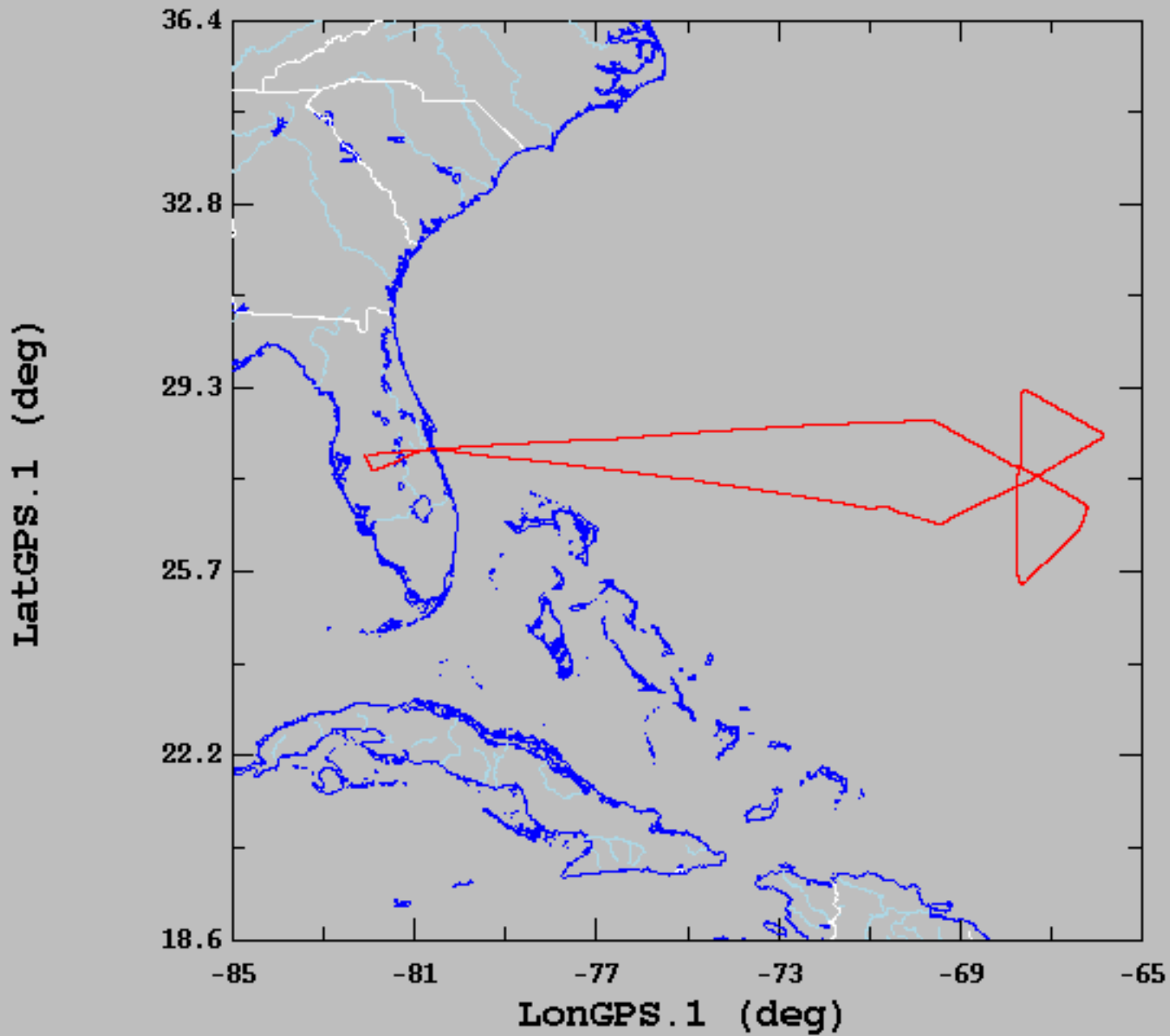
Launcher S/N: 4107WR

| Drop # | Sonde Serial # | Rcvr # | Press Offset | Launch Time | Operator | Charge \$\$ To | Comments | Good ? |
|--------|----------------|--------|--------------|-------------|----------|----------------|--------------|--------|
| 1 | 222230599 | 1 | -0.4 | 2227 | LW | NWS | IP 1 | ✓ |
| 2 | 222070571 | 2 | -0.1 | 2242 | LW | NWS | MP | ✓ |
| 3 | 222070103 | 3 | -0.2 | 2250 | LW | NWS | Rmw | ✓ |
| 4 | 222070722 | 4 | -0.5 | 2254 | LW | NWS | CTR | ✓ |
| 5 | 222020990 | 5 | -0.2 | 2300 | LW | NWS | Rmw | ✓ |
| 6 | 222010937 | 4 | -0.4 | ∅ | LW | NWS | MP ∅ launch. | |
| 7 | 222070581 | 7 | -0.4 | 2308 | LW | NWS | mp B/U | ✓ |
| 8 | 222230806 | 8 | -0.5 | 2320 | LW | NWS | EP1 COMBO | ✓ |
| 9 | 222120867 | 1 | -0.2 | 2343 | LW | NWS | IP2 COMBO | ✓ |
| 10 | 222230418 | 2 | -0.7 | 2350 | LW | NWS | MP | ✓ |
| 11 | 222220375 | 3 | -0.4 | 0004 | LW | NWS | Rmw | ✓ |
| 12 | 22231049 | 4 | -0.7 | 0009 | LW | NWS | CTR COMBO | ✓ |
| 13 | 222340859 | 5 | -0.2 | 0016 | LW | NWS | Rmw | ✓ |
| 14 | 222070104 | 6 | -0.4 | 0022 | LW | NWS | MP | ✓ |
| 15 | 222070607 | 7 | -0.6 | 0035 | LW | NWS | EP2 COMBO | ✓ |
| 16 | 222230251 | 8 | -0.5 | 0039 | LW | GOMO | SAN | ✓ |
| 17 | 222230425 | 1 | -0.7 | 0105 | LW | NWS | IP3 COMBO | ✓ |
| 18 | 222231506 | 2 | -0.5 | 0116 | LW | NWS | MP / Rmw | |
| 19 | 222230828 | 3 | -0.8 | 0128 | LW | NWS | CTR 3 | |
| 20 | 222231614 | 4 | -0.8 | 0142 | LW | NWS | Rmw | |
| 21 | 222231497 | 5 | -0.9 | 0157 | LW | NWS | EP3 | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |

~~EP1~~
 COMBO
~~IP2~~
 COMBO
~~EP2~~
 COMBO
~~IP3~~
 COMBO
 JWN 2-3
 IP3
 COMBO


time, location, ch., gd/bd.

09/13/2023, 18:30:05-28:04:34



| | mean | sigma | min | max |
|----------------------------|--------|-------|--------|--------|
| — LatGPS.1 (deg), 1 s/sec | 27.79 | 0.70 | 25.49 | 29.24 |
| — LongGPS.1 (deg), 1 s/sec | -73.92 | 5.96 | -82.07 | -65.83 |