



|        |   |   |   |
|--------|---|---|---|
| AXCPs  | 0 | 0 | 0 |
| AXCTDs | 0 | 0 | 0 |
| UAS    | 0 | 0 | 0 |

Flight Director: KALEN  
Phone #: 863-500-3962

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:                           | 20231021H1   | FLT #:      |       | AC:           | COPARE | Scientists: | Pressure                |                     | Dropsondes |                   |      |
| From:                             | TBPB         | ETD:        | 2130Z | CP(s):        | GASTON | HAZELTON    | A/C Takeoff             |                     | Good       | Bad               | Sent |
| To:                               | TBPB         | ETA:        | 0530Z |               | PALMER | SELLWOOD    |                         |                     | 24         | 2                 | 24   |
| Block Time                        |              | Flight Time |       | NAV:          | UTAMA  | CHANG       | ASOS Takeoff            |                     | BTs        |                   |      |
| In:                               | 4:15         | Land:       | 4:11  | FE(s):        | STOKES | JELENAK     |                         |                     | Good       | Bad               | Sent |
| Out:                              | 20:55        | T/O:        | 21:04 | FD(s):        | KIDDO  | SAPP        | A/C Land                |                     | 0          | 2                 | 0    |
| Total:                            | 7.3          | Total:      | 7.1   |               | SSA:   | MCALISTER   |                         |                     |            |                   |      |
| Sponsoring Org:                   | EMC          |             |       | SEB:          |        |             | Storm Number ID:        |                     | AL202023   |                   |      |
| Program:                          | PRX          |             |       |               |        |             | (ie: AL072012)          |                     |            |                   |      |
| Purpose:                          | TDR HX TAMMY |             |       |               | MX:    |             |                         | TCPOD/WSPOD Mission |            | NOAA2 1120A TAMMY |      |
|                                   |              |             |       |               |        |             | (ie: NOAA2 2418A SANDY) |                     |            |                   |      |
| 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:                | 6 - CAT 1           |            |                   |      |

\*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:          | 20231021H1         |
| Flight Director(s): | KALEN / ENGLERT    |
| Mission:            | Tasked/Operational |
| UWZ.d mean:         | 0.14               |

| Pressure Comparison |        |      |
|---------------------|--------|------|
|                     | T/O    | Land |
| Aircraft            | 1004.9 | -    |
| Tower               | 1004.3 | -    |

|                      | 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>x 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                   | x PDLAPHaref<br>x PDBETAref<br>x PQALPHaref<br>x PQBETAref | ✓ PQMref<br>✓ PQ.c<br>✓ PSMref<br>✓ PS.c |
| ✓ Air Speed          | ✓ CasADDU.1  | ✓ TasADDU.1  | ✓ lasADDU.1  |   | ✓ IAS.d<br>✓ TAS.d   |  |
| ✓ Pitch / Roll       | ✓ PitchI.1<br>✓ PitchI.2<br>x PitchI.3                       | ✓ PitchRateI.1<br>✓ PitchRateI.2<br>x PitchRateI.3           | ✓ RollI.1<br>✓ RollI.2<br>x RollI.3                          | ✓ RollRateI.1<br>✓ RollRateI.2<br>x RollRateI.3 | ✓ PITCHref<br>✓ ROLLref                                    |  |
| ✓ Temp / Dewpt       | ✓ TTM.1<br>✓ TTM.2<br>x TTM.3                                | ✓ TDM.1<br>✓ TDM.2<br>x TDM.3                                | ✓ TRadD.1<br>✓ TRadS.1<br>x TRadU.1                          |   | ✓ TD.c<br>✓ TDMref   | ✓ TTMref<br>✓ TA.d                       |
| ✓ Misc. (Must check) |  |  |  |   | ✓ UWZ.d<br>x 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   | □ |
| Valid         | ✓ |
| Errors (note) | x |

| NOTES:  |
|---|
| <p>I.3 for Pitch and Roll is not operational.</p> <p>TRadU.1 has erroneous data throughout the flight and should not be used.</p> <p>PDLAPHaref, 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> <p>TDM.1 has three large spikes at 00:44 &amp; 01:15, &amp; 03:53</p> <p>TDM.3 inop</p> <p>AltGPS.4 contains several suspicious data points</p> |

# AVAPS Drop Log

Project: HX 24

Mission: Tammy

Flight ID: 20231021H1

Take Off: \_\_\_\_\_

Landing: \_\_\_\_\_

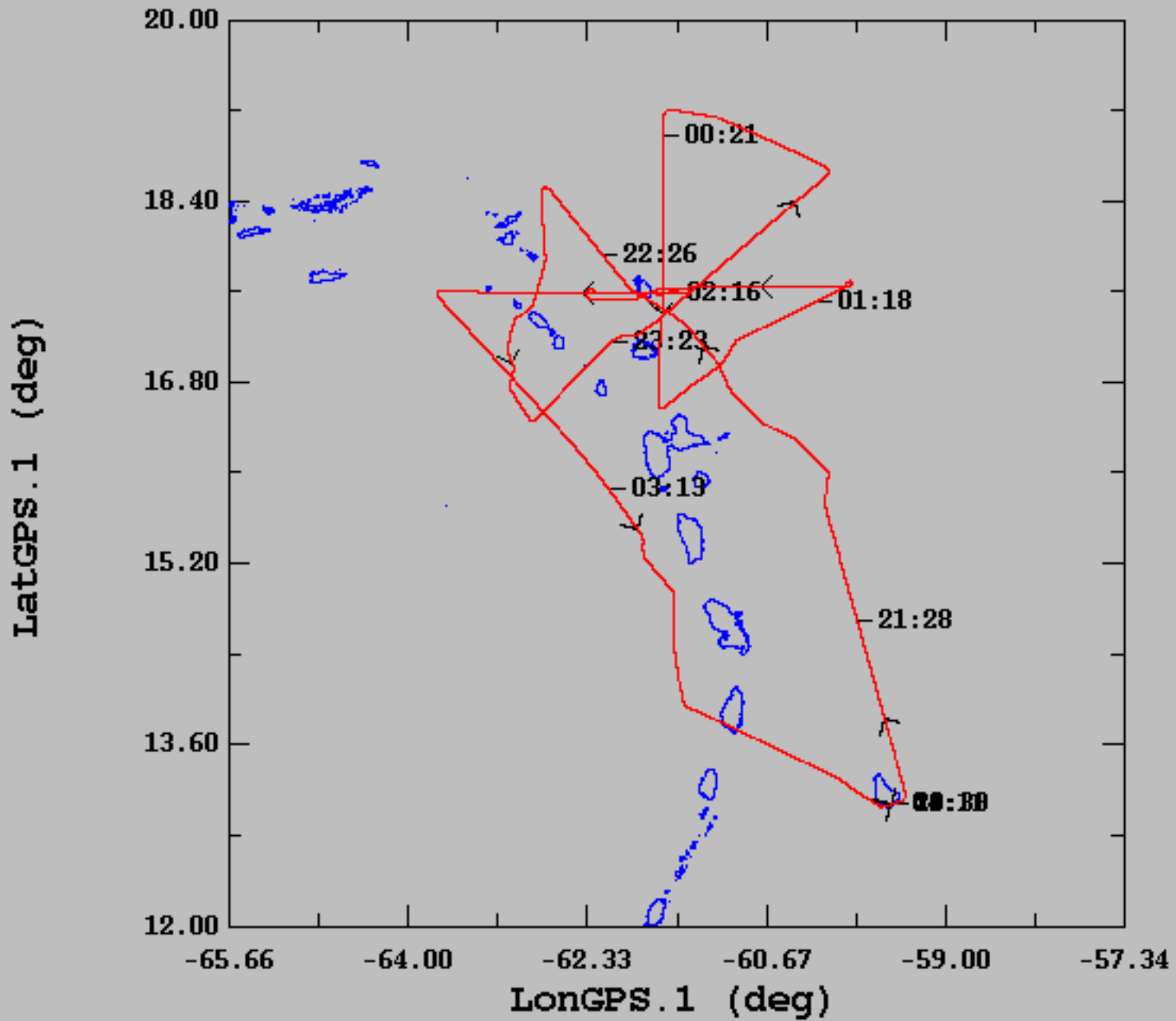
Flt Dir: Kate

Launcher S/N: \_\_\_\_\_

R-ONR

| Drop # | Sonde Serial # | Rcvr # | Press Offset | Launch Time | Operator | Charge \$\$ To | Comments     | Good ? |
|--------|----------------|--------|--------------|-------------|----------|----------------|--------------|--------|
| 1      | 222330577      | 1      | -1.0         | 2146        | RK       | NWS            |              | ✓      |
| 2      | 222330574      | 2      | -1.0         | 2157        | RK       | NWS            | ate lawn det | X      |
| 3      | 222330402      | 3      | 0.1          | 2154        | RK       | NWS            | N            | ✓      |
| 4      | 22252393       | 4      | -1.4         | 2208        | RK       | ON             | N            | ✓      |
| 5      | 222350043      | 5      | 0            | 2213        | RK       | 0              | RM           | ✓      |
| 6      | 222330569      | 6      | -1.0         | 2226        | RK       | N              | MP           | ✓      |
| 7      | 222330578      | 7      | -1.1         | 2235        | RK       | N              | /c           | ✓      |
| 8      | 221740794      | 8      | -1.0         | 2310        | RK       | N              |              | ✓      |
| 9      | 222350115      | 1      | -0.2         | 2322        | RK       | N              |              | ✓      |
| 10     | 222340822      | 2      | -0.2         | 2332        | RK       | NW             | C            | ✓      |
| 11     | 222520376      | 3      | -0.8         | 2353        | RK       | 0              | RM           | ✓      |
| 12     | 221740719      | 4      | -0.8         | 2347        | RK       | N              | M            | ✓      |
| 13     | 222520383      | 5      | -1.7         | 2356        | RK       | N              | P            | ✓      |
| 14     | 222520398      | 6      | -0.9         | 0019        | RK       | N              | IP           | ✓      |
| 15     | 222330554      | 7      | -1.7         | 0028        | RK       | N              | N            | ✓      |
| 16     | 222350047      | 8      | -0.4         | 0038        | RK       | ONR            | M            | ✓      |
| 17     | 222520402      | 1      | -0.9         | 0043        | RK       | NWS            |              | ✓      |
| 18     | 210430737      | 2      | -1.5         | 0045        | RK       | ONR            | RM           | ✓      |
| 19     | 222330583      | 3      | -1.7         | 0054        | R        | N              | FP           | ✓      |
| 20     | 222070616      | 4      | -0.5         | 0055        | RK       | NWS            | E 3 P        | ✓      |
| 21     | 221740819      | 5      | -2.0         | 0125        | JW       | NWS            |              | ✓      |
| 22     | 222020994      | 6      | -0.5         | 0138        | JW       | NWS            | MP           | ✓      |
| 23     | 222520368      | 7      | -0.8         | 0148        | JW       | ONR            | RMW          | ✓      |
| 24     | 222350087      | 8      | 0            | 0154        | JW       | ONR            |              | ✓      |
| 25     | 222330576      | 1      | -1.0         | 0232        | JW       | NWS            | MP           | ✓      |
| 26     | 222520590      | 2      | 0            | 0245        | JW       | NWS            | EPA          | ✓      |
| 27     |                |        |              |             |          |                |              |        |
| 28     |                |        |              |             |          |                |              |        |
| 29     |                |        |              |             |          |                |              |        |
| 30     |                |        |              |             |          |                |              |        |
| 31     |                |        |              |             |          |                |              |        |

10/21/2023, 19:33:18-28:11:34



|                            | mean   | sigma | min    | max    |
|----------------------------|--------|-------|--------|--------|
| — LatGPS.1 (deg), 1 s/sec  | 16.16  | 1.98  | 13.05  | 19.20  |
| — LongGPS.1 (deg), 1 s/sec | -61.11 | 1.21  | -63.72 | -59.37 |