

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest

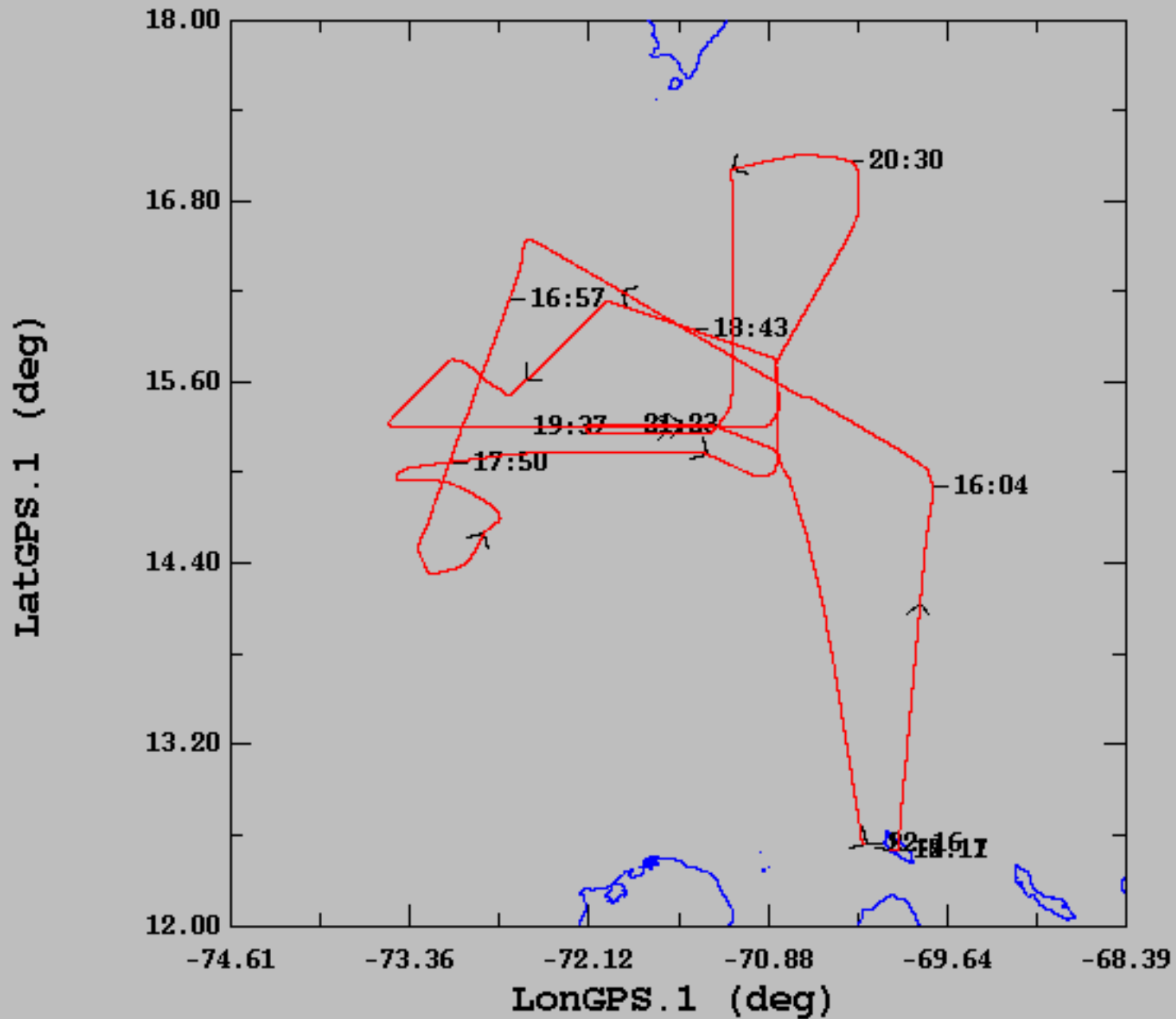
| FLIGHT INFORMATION | | | | CREW MANIFEST | | | MISSION INFORMATION | | | | |
|-----------------------------------|--------------------------------|-------------|--------------|---------------|-------------------|------------------------------------|---------------------|------------|------------|---------------|-----------|
| FLT ID: | 20230822I1 | FLT #: | | AC: | COPARE | Scientists: | Pressure | | Dropsondes | | |
| From: | TNCA | ETD: | 1530Z | CP(s): | WOOD | | A/C Takeoff | | Good | Bad | Sent |
| To: | TNCA | ETA: | 2330Z | | PALMER | | | | 11 | 1 | 11 |
| Block Time | | Flight Time | | NAV: | MILLER / SCHAEFER | | ASOS Takeoff | | BTs | | |
| In: | 22:26 | Land: | 22:21 | FE(s): | DARBY | | | | A/C Land | | Good |
| Out: | 15:23 | T/O: | 15:31 | FD(s): | KALEN | ASOS Land | | 0 | | | 1 |
| Total: | 7.1 | Total: | 6.8 | SSA: | RICHARDS | | | Visitors: | | | |
| | | | | AVAPS: | WAGGONER / KOTZ | Storm Number ID: (ie: AL072012) | | | | | |
| Sponsoring Org: | NHC | | | SEB: | | AL082023 | | | | | |
| Program: | PRX | | | | | TCPOD/WSPOD Mission | | | | | |
| Purpose: | HX OPS TS FRANKLIN / TDR & FIX | | | | | (ie: NOAA2 2418A SANDY) | | | | | |
| | | | | MX: | | OBSERVATIONS | | | | | |
| AS REQUIRED BY ORM | | | Y | N | REMARKS | | Fix Number | Obs Number | Fix Time | SLP | |
| VOLCANIC ASH | | | | X | | | 1 | 7 | 1741Z | 1006mb EXTRAP | |
| SCIENCE MISSION WITHIN BDRY LAYER | | | | X | | | 2 | 9 | 1914Z | 1004mb EXTRAP | |
| LACK OF PRECIPITATION | | | | X | | | 3 | | | | |
| RELATIVE HUMIDITY ≥ 80% | | | X | | | | 4 | | | | |
| LARGE AIR-SEA TEMP GRADIENT | | | | X | | | | | | | |
| HIGH SURFACE WINDS | | | | X | | | | | | | |
| LONG FETCH / DURATION OF SFC WND | | | | X | | | | | | | |
| SEA SALT ACCRETION FORECAST | | | | X | | | | | | | |
| SEA SALT ACCRETION OBSERVED | | | | X | | | | | | | |
| | | | | | | | Pennies: | | | | |

*Highlighted items must be completed before departure.

Remarks:

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08/22/2023, 14:17:52-22:16:52



| | mean | sigma | min | max |
|--------------------------|--------|-------|--------|--------|
| LatGPS.1 (deg), 1 s/sec | 14.85 | 1.30 | 12.50 | 17.10 |
| LongGPS.1 (deg), 1 s/sec | -71.29 | 1.13 | -73.50 | -69.72 |

N43RF ERROR SUMMARY
20230822I1

Flight ID: 20230822I1

| Sensor or System | Number or Name |
|--------------------------------------|-------------------|
| 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/2023/MET/20230822I1

| Local Met Data | Takeoff TNCA (1531Z) | Landing TNCA (0000Z) |
|----------------------|----------------------|----------------------|
| Dynamic Corrections | | Yes |
| AttackAngleIntercept | | 0.050058 |
| AttackAngleSlope | | 5.32015 |
| SlipAngleIntercept | 0.165 | |
| SlipAngleSlope | | 6.66754 |

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.

I.3 for Pitch and Roll is not operational.

TRadU.1 has erroneous data throughout the flight and should not be used.

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.

TTM.3 and TDM.3 inop

TDM.2 has erroneous data throughout the flight and should not be used.

| Expendable Type | # deployed | # good | # transmitted |
|-----------------|------------|--------|---------------|
| Dropsondes | 12 | 11 | 11 |
| Test sondes | 0 | 0 | 0 |
| AXBTS | 0 | 0 | 0 |
| AXCPs | 0 | 0 | 0 |
| AXCTDs | 0 | 0 | 0 |
| UAS | 0 | 0 | 0 |

Flight Director: Kalen
Phone #: 8635003962

ACAT-4 Version = 7.4

P-3 QC Checklist

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

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|---------------------|---------------------------|
| Flight ID: | 2023092211 |
| Flight Director(s): | KALEN / PARRISH / TIMMERS |
| Mission: | Tasked/Operational |
| UWZ.d mean: | -0.19 |

| Pressure Comparison | | |
|---------------------|------------|---------|
| | T/O | Land |
| Aircraft | 1013.41 mb | N/A |
| Tower | 1010 mb | 1010 mb |

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

| FLID_Mission_Documents.pdf: |
|--|
| <input checked="" type="checkbox"/> Error Summary |
| <input checked="" type="checkbox"/> Crew Manifest |
| <input checked="" type="checkbox"/> QC Checklist |
| <input checked="" type="checkbox"/> Dropwindsonde Log(s) - AVAPS and FD if completed |
| <input checked="" type="checkbox"/> Flight Track |
| <input type="checkbox"/> Miscellaneous FD Notes |

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

| NOTES: |
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| |

AOC GPS Dropwindsonde Log (updated June 2023)

Flight ID: 2023082211

ASPEN Operator/Flight Director(s): TIMMERS/PARRISH/KALEN

Mission ID: 0408A FRANKLIN

Storm Name/Track: TS FRANKLIN

PG 1 of 1

| Sonde # | Ob # | Launch Time HHMMSS (Z) | Sonde ID (min last 5) | Ch # used | Lat (°N) | Lon (°E) | Prominent Wx Cond. | SFC Prs (mb) | Comments / Issues / QC / ASPEN Edits | KWBC # | Sonde Issues? |
|---------|--------------|------------------------|-----------------------|-----------|----------|----------|--------------------|--------------|--------------------------------------|--------|---------------|
| 1 | 1 | 1600 02 | 50416 | 1 | 15.0 | -71.8 | OVCST | 1006.8 | IP1 160/17 | 1612 | ✓✓ |
| 2 | 1 | 1619 | | 2 | | | NO | | LAUNCH DETECT | | |
| 3 | 2 | 1619 55 | 50004 | 3 | 15.5 | -70.6 | OVCST | 1006.7 | MP1 125/18 TAG | 1633 | ✓✓ |
| 4 | 3 | 1632 22 | 10622 | 4 | 15.9 | -71.3 | OVCST | 1005.3 | CTRL 155/19 | 1702 | ✓✓ |
| 5 | 4 | 1645 59 | 50549 | 1 | 16.4 | -72.2 | OVCST | 1004.8 | MP2 115/16 | 1704 | ✓✓ |
| 6 | 5 | 1651 26 | 31926 | 2 | 16.5 | -72.5 | OVCST | 1005.6 | EP1 095/22 (BT sure) | 1705 | ✓✓ |
| 7 | 6 | 1722 06 | 40011 | 3 | 14.3 | -73.2 | OVCST | 1005.0 | IP2 230/15 | 1745 | ✓✓ |
| 8 | 7 | | | | | | VDM | | | | |
| 9 | 8 | 1852 34 | 40121 | 4 | 16.1 | -72.0 | OVCST | 1003.6 | IP3 055/03 TAG | 1903 | ✓✓ |
| 10 | 9 | | | | | | VDM | | | | |
| 11 | 10 | 2004 12 | 30785 | 1 | 15.4 | -70.8 | OVCST | 1002.7 | CTR3 175/30 TAG | 2013 | ✓✓ |
| 12 | 11 | 2028 49 | 31236 | 2 | 17.0 | -70.7 | OVCST | 1005.4 | EP3 170/15 TAG | 2040 | ✓✓ |
| 13 | 12 | 2040 22 | 40731 | 3 | 17.0 | -71.1 | OVCST | 1005.3 | IPA 140/11 | 2053 | ✓✓ |
| 14 | 13 | 2106 16 | 31231 | 4 | 15.3 | -71.2 | OVCST | 1004.6 | CTRA 130/05 | 2115 | ✓✓ |
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COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

13 Obs Xmitted 0 Obs Missed 12 # of sondes launched 1 # of bad sondes

11 SONDES, 2 VDMs