

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest

| FLIGHT INFORMATION | | | | CREW MANIFEST | | | MISSION INFORMATION | | | | |
|-----------------------------------|--------------|-------------|--------------|---------------|---------|-------------|-------------------------|------------|--------------------------|-----------|----------|
| FLT ID: | 20210905N1 | FLT #: | | AC: | Mansour | Scientists: | Pressure | | Dropsondes | | |
| From: | TISX | ETD: | | CP(s): | Varwig | | A/C Takeoff | | Good | Bad | Sent |
| To: | TISX | ETA: | | | | | | | | 36 | 2 |
| Block Time | | Flight Time | | NAV: | | | ASOS Takeoff | | BTs | | |
| In: | 1606Z | Land: | 1604Z | FE(s): | | | A/C Land | | Good | Bad | Sent |
| Out: | 0842Z | T/O: | 0851Z | FD(s): | Kalen | Visitors: | ASOS Land | | - | - | - |
| Total: | 7.4 | Total: | 7.2 | SSA: | Defeo | | | | | | |
| Sponsoring Org: | | HRD/SATS | | AVAPS: | Greene | | Storm Number ID: | | AL122021 | | |
| Program: | | PHX | | SEB: | | | (ie: AL072012) | | | | |
| Purpose: | | Research | | MX: | | | TCPOD/WSPOD Mission | | NOAA9 WA12A LARRY | | |
| | | | | | | | (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: | | | | |

*Highlighted items must be completed before departure.

Remarks:

| |
|--|
| |
| |
| |

G-IV QC Checklist

| | |
|---------------------------|------------------------|
| Flight ID: | 20210905N1 |
| Flight Director(s) | Parrish / Kalen |
| UWZ.d mean: | 0.05 |

| Pressure Comparison | | |
|---------------------|---------------|---------------|
| | T/O | Land |
| Aircraft | 1012.6 | 1013.8 |
| Tower | 1012.9 | 1012.3 |

| | Raw 1Hz Mean File Parameters | | | | | C File Parameters | |
|----------------------|--|--|---|--|--|--|--|
| ✓ Accelerometer | ✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3 | ✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3 | ✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3 | | | ✓ AccZref | |
| ✓ Altitude | ✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 | ✓ AltI.1 ✓ AltI.2 ✓ AltI.3 | ✓ AltPaADDU.1 ✓ AltPaADDU.2 ✓ Altra.1 | ✓ AltBCADDU.1 ✓ AltBCADDU.2 | | ✓ ALTref ✓ ALTPA.d ✓ ALTGA.d | |
| ✓ Ground Speed | ✓ GsXI.1 ✓ GsXI.2 ✓ GsXI.3 ✓ GsXGPS.1 ✓ GsXGPS.2 <input type="checkbox"/> GsXGPS.3 | ✓ GsYI.1 ✓ GsYI.2 ✓ GsYI.3 ✓ GsYGPS.1 ✓ GsYGPS.2 <input type="checkbox"/> GsYGPS.3 | ✓ GsZI.1 ✓ GsZI.2 ✓ GsZI.3 ✓ GsZGPS.1 ✓ GsZGPS.2 <input type="checkbox"/> GsZGPS.3 | ✓ GsGPS.1 ✓ GsGPS.2 <input type="checkbox"/> GsGPS.3 | | ✓ GSXref ✓ GSYref ✓ GSZref | |
| ✓ Lat / Lon | ✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3 | ✓ LatI.1 ✓ LatI.2 | ✓ LongGPS.1 ✓ LongGPS.2 ✓ LongGPS.3 | ✓ LonI.1 ✓ LonI.2 | | ✓ LATref ✓ LONref | |
| ✓ Pressure | ✓ PDALPHA.1 ✓ PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input checked="" type="checkbox"/> PDBETA.2 | ✓ PQALPHA.1 ✓ PQALPHA.2 <input checked="" type="checkbox"/> PQBETA.1 <input checked="" type="checkbox"/> PQBETA.2 | ✓ PQM.1 ✓ PQM.2 | ✓ PSM.1 ✓ PSM.2 | | ✓ PDLAPHaref <input checked="" type="checkbox"/> PDBETAref ✓ PQALPHaref <input checked="" type="checkbox"/> PQBETAref | ✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c |
| ✓ Air Speed | ✓ CasADDU.1 | ✓ TasADDU.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 <input type="checkbox"/> TTM.2 ✓ TTM.3 | ✓ TTM.4 | <input checked="" type="checkbox"/> TDM.1 ✓ TDM.2 | | | ✓ TD.c ✓ TDMref | ✓ TTMref ✓ TA.d |
| ✓ Misc. (Must check) | | | | | | ✓ UWZ.d ✓ DPJ_WSZ ✓ HUM | <input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> 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:

.1 and .2 GPS parameters data "stair steps"
PDBETA.1 & PDBETA.2 unrepresentative
PQBETA.1 & PQBETA.2 unrepresentative
TTM.3 has small oscillations
TDM.1 unrepresentative
All flight level wind speed and direction suspect

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38

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20210905N1

ASPEN Operator/Flight Director(s): Kalen / Parrish

Mission ID: WA12A

Storm Name/Track: Cat 3 Larry

PG ___ of ___

| 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 | 091616 | 20092 | 1 | 18.30 | -61.99 | Sct | 1012.2 | 05019 | 50937 | N |
| 2 | 2 | 092722 | 60886 | 2 | 18.40 | -60.49 | Sct | 1013.9 | 04016 | 50945 | N |
| 3 | 3 | 093728 | 30602 | 3 | 18.45 | -59.14 | Sct | 1012.8 | 08023 | 50955 | N |
| 4 | 4 | 094748 | 20338 | 4 | 18.52 | -57.77 | Brkn | 1013.1 | 03015 | 51010 | N |
| 5 | 5 | 095750 | 10003 | 1 | 18.56 | -56.42 | Sct | 1012.5 | 06516 | 51017 | N |
| 6 | 6 | 100811 | 20135 | 2 | 18.63 | -55.06 | Sct | 1011.0 | 03018 | 51027 | N |
| 7 | 7 | 101833 | 10001 | 3 | 18.64 | -53.71 | Ovcast | 1011.1 | 00326 | 51039 | N |
| 8 | - | 102923 | 41131 | 4 | - | - | Brkn | - | PTH Fail -> STAN Charge | - | Y |
| 9 | 8 | 103057 | 20120 | 1 | 18.76 | -52.13 | Brkn | 1008.2 | Backup -> HRD Charge 36073 | 51056 | N |
| 10 | 9 | 103856 | 60889 | 2 | 18.85 | -51.15 | CDO | 1004.0 | 33526 | 51059 | N |
| 11 | 10 | 104827 | 30661 | 3 | 19.34 | -50.96 | CDO | 1003.1 | 34530 | 51104 | N |
| 12 | 11 | 104755 | 20111 | 5 | 19.84 | -50.84 | CDO | 1003.7 | 10130 | 51115 | N |
| 13 | 12 | 105658 | 20137 | 6 | 20.69 | -51.65 | CDO | 1002.7 | 02531 | 51120 | N |
| 14 | 13 | 110438 | 10018 | 7 | 21.31 | -52.44 | Ovcast | 1011.4 | 03025 | 51127 | N |
| 15 | 14 | 111223 | 30395 | 8 | 21.93 | -53.23 | Sct | 1013.0 | 03526 | 51130 | N |
| 16 | 15 | 111910 | 30460 | 1 | 22.52 | -53.71 | Sct | 1013.9 | 04520 | 51139 | N |
| 17 | 16 | 112637 | 30492 | 2 | 22.51 | -52.71 | Brkn | 1013.9 | 03526 / Fast Winds | 51149 | Y |
| 18 | - | 113243 | 40697 | 3 | - | - | Ovcast | - | No GPS | - | Y |
| 19 | 17 | 113349 | 10013 | 4 | 23.01 | -51.87 | Ovcast | 1014.4 | Backup up -> Charge HRD 06023 | 51156 | N |
| 20 | 18 | 114147 | 20136 | 1 | 23.41 | -50.86 | Ovcast | 1014.6 | 04522 | 51209 | N |
| 21 | 19 | 115034 | 20036 | 5 | 23.56 | -48.67 | Ovcast | 1014.5 | 07526 | 51212 | N |
| 22 | 20 | 115946 | 40802 | 6 | 23.43 | -48.46 | Sct | 1014.6 | 09529 | 51220 | N |
| 23 | 21 | 120858 | 41114 | 2 | 23.01 | -47.33 | Sct | 1014.9 | 08020 | 51231 | N |
| 24 | 22 | 121449 | 50397 | 3 | 22.60 | -46.70 | Ovcast | 1015.2 | 10520 | 51235 | N |
| 25 | 23 | 122042 | 30601 | 4 | 22.06 | -46.26 | Sct | 1014.9 | 08519 | 51239 | N |
| 26 | 24 | 122807 | 30040 | 1 | 21.46 | -46.98 | Sct | 1013.0 | 08031 | 51247 | N |
| 27 | 25 | 123623 | 30471 | 2 | 20.87 | -47.66 | CDO | 1010.5 | 10041 | 51257 | N |
| 28 | 26 | 124144 | 10017 | 3 | 20.46 | -48.16 | CDO | 1007.4 | 09536 | 51306 | N |
| 29 | 27 | 125054 | 20134 | 4 | 19.44 | -48.33 | CDO | 999.6 | 10545 | 51314 | N |
| 30 | 28 | 125730 | 20123 | 1 | 18.70 | -48.45 | CDO | 1000.8 | 17563 | 51316 | N |
| 31 | 29 | 130249 | 30408 | 5 | 18.12 | -48.67 | CDO | 1004.8 | 19558 | 51321 | N |
| 32 | 30 | 130902 | 20034 | 6 | 17.44 | -48.39 | CDO | 1008.4 | 26029 | 51332 | N |
| 33 | 31 | 131600 | 30489 | 2 | 16.81 | -47.87 | Brkn | 1010.3 | 18028 | 51336 | N |
| 34 | 32 | 132258 | 40799 | 3 | 16.12 | -47.48 | Sct | 1012.1 | 18527 | 51343 | N |
| 35 | 33 | 133710 | 30394 | 4 | 16.87 | -48.89 | CDO | 1008.9 | 21528 | 51357 | N |
| 36 | 34 | 134930 | 30387 | 1 | 17.80 | -50.11 | CDO | 1004.0 | 24039 | 51414 | N |
| 37 | 35 | 135604 | 50380 | 2 | 18.03 | -50.91 | CDO | 1005.7 | 26527 | 51422 | N |
| 38 | 36 | 140137 | 20125 | 3 | 18.45 | -51.47 | CDO | 1005.7 | Last REP / 29528 | 51429 | N |

COMMENTS:

ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

Obs Xmitted
36

Obs Missed
0

of sondes launched
38

of bad sondes
2

B/D: 0842 Z
T/D: 0851 Z
Lnd: 1604Z
RH: 1606Z

