

Flight Director: Carpenter / Parrish
Phone #: 863-500-3901

ACAT-4 Version = 7.3

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

| FLIGHT INFORMATION | | | | CREW MANIFEST | | | MISSION INFORMATION | | | | |
|-----------------------------------|-----------------------|-------------|--------|---------------|-------------|----------------|-------------------------|----------------|--------------------|-------------------------|----------------------|
| FLT ID: | 20190827H1 | FLT #: | 19-92 | AC: | Kahn | Scientists: | Pressure | | Dropsondes | | |
| From: | TISX | ETD: | 21:00Z | CP(s): | Abitbol | Zawislak, Jon | A/C Takeoff | 1011.8 | Good | Bad | Sent |
| To: | TBPB | ETA: | 05:00Z | | Rossi | Zhang, Jun | | | ASOS Takeoff | TISX 2130Z 1011.3 mb | 25 |
| Block Time | | Flight Time | | Nav(s): | Urato | Hazelton, Andy | A/C Land | 1009.5 | | | BTs |
| In: | 2:33 | Land: | 2:28 | | FE(s) | Darby | | | Jelenak, Zorana | ASOS Land | TBPB 0200Z 1007.8 |
| Out: | 21:23 | T/O: | 21:31 | FD(s): | Sanchez | Sapp, Joe | ASOS Land | 1007.8 | 0 | 0 | 0 |
| Total: | 5.17 | Total: | 4.95 | SEB: | Parrish | Visitors: | | | Storm Number ID: | | AL052019 |
| Sponsoring Org: | EMC | | | | Richards/T, | | Carrion | (ie: AL072012) | | | |
| Program: | PRX | | | SSA: | Mascaro | McFadden | TCPOD/WSPOD Mission | | NOAA2 0705A Dorian | | |
| Purpose: | TDR Mission TS Dorian | | | AVAPS: | McAlister | | (ie: NOAA2 2418A SANDY) | | | | |
| AS REQUIRED BY ORM | | | | Y | N | REMARKS | Fix Number | Obs Number | Fix Time | SLP | |
| VOLCANIC ASH | | | | | X | | | | | | |
| SCIENCE MISSION WITHIN BDRY LAYER | | | | | X | | | | | | |
| LACK OF PRECIPITATION | | | | | X | | | | | | |
| RELATIVE HUMIDITY ≥ 80% | | | | X | | | | | | | |
| 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 | | | | | | |

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

| | |
|---------------------|---------------------|
| Flight ID: | 20190827H1 |
| Flight Director(s): | Parrish / Carpenter |
| UWZ.d mean: | 0.01 |

| Pressure Comparison | | |
|---------------------|----------------------|------------------|
| | T/O | Land |
| Aircraft | 1011.8 | 1009.5 |
| Tower | TISX 2130Z 1011.3 mb | TBPB 0200Z Q1014 |

| | 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 X PDALPHA.2 ✓ PDBETA.1 X 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 X PitchI.3 | ✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3 | ✓ RollI.1 ✓ RollI.2 X RollI.3 | ✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3 | ✓ PITCHref ✓ ROLLref | |
| ✓ Temp / Dewpt | ✓ TTM.1 ✓ TTM.2 X TTM.3 | ✓ TDM.1 ✓ TDM.2 X TDM.3 | ✓ TRadD.1 ✓ TRadS.1 X 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 |
| X | Miscellaneous FD Notes |

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

NOTES:

PDAlpha.2 and PDBeta.2 unavailable.
 Pitch.3 and Roll.3 unavailable.
 TTM.3 unavailable.
 TDM.3 inoperative.

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm Mission ID **0705A**

Flight ID **20190827H1**
(exp. 0213A)

Dropsonde Scientist **Hazelton**
Dropsonde Scientist

AVAPS Operator **Richards**
AVAPS Operator

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| Drop # | Sonde ID | Time UTC | Lat (°N/S) | Long (°E/W) | Sfc Pressure (mb) | Wind closest to | | SST (°C) | Eye/Eyewall, Rainband, etc. | Ob # |
|--|-----------------|----------|------------|-------------|-------------------|------------------|---------|----------|-----------------------------|------|
| | | | | | | Dir/Spd (deg/kt) | Hgt (m) | | | |
| 1 | D20190827-22103 | 22103 | 16.5N | 64.8W | 1012 | 55/17 | 10 | — | | 02 |
| Comments | | | | | | | | | | |
| 2 | D20190827-22321 | 22320 | 16.0N | 64.1W | 1011.6 | 40/20 | 10 | — | | 03 |
| Comments | | | | | | | | | | |
| 3 | D20190827-22338 | 22320 | 16.0N | 64.1W | 1011.5 | 35/20 | 10 | — | | — |
| Comments Mini | | | | | | | | | | |
| 4 | D20190827-22343 | 2234 | 15.5N | 63.5W | 1010.5 | 35/17 | 10 | — | | 04 |
| Comments | | | | | | | | | | |
| 5 | D20190827-22350 | 2234 | 15.5N | 63.5W | 1011.5 | 62/20 | 10 | — | | — |
| Comments Mini | | | | | | | | | | |
| 6 | D20190827-22431 | 22438 | | | | | | — | | — |
| Comments DID NOT SEND BAD FAST FALL | | | | | | | | | | |
| 7 | D20190827-22448 | 22440 | 15.1 | 62.83 | 1010.4 | 335/14 | 10 | — | | — |
| Comments Mini | | | | | | | | | | |
| 8 | D20190827-2254 | 225438 | 14.75 | 62.33 | 1011.8 | 145/06 | 10 | — | | 06 |
| Comments | | | | | | | | | | |
| 9 | D20190827-2309 | 230918 | 15.77 | 61.91W | — | 140/29 | 10 | — | | 07 |
| Comments | | | | | | | | | | |
| 10 | D20190827-23239 | 232235 | 15.8 | 62.82W | 1009.3 | 10/16 | 10 | — | | 08 |
| Comments | | | | | | | | | | |

Sub for this 09

SONDE

Hazelton

Flight Number 20190827H Storm Donian (ALOS) Storm Direction/Speed _____

Take-Off Time _____ Landing Time _____

| Drop # | Channel Number | Drop Time (HHMMSS) | Latitude (Decimal) | Longitude (Decimal) | Splash Time (HHMMSS) | Sfc Temp. AXBT | MHD (m) (secs x 1.5) | Comments |
|---------------|--------------------|--------------------|--------------------|---------------------|----------------------|-------------------|----------------------|----------|
| DROP | SONDE ID | TIME | LAT | LOU | PRES | WS/DTK | | |
| 10 | 2333-06 | 2330 | 15.75 | 63.6 | 1011 | 045/18 | | |
| 11 | D233253 | 2330-06 | 15.75 | 63.6 | 1011.1 | 045/18 | | |
| 12 | D20190827-23310 | 2333-10 | 15.75 | 63.6 | 1011.7 | 040/15 | | |
| 13 | 2343-30 | 2343 | 15.78 | 64.71 | 1012 | 050/17 | | |
| 13 | D20190827-2343 | 2343-30 | 15.78 | 64.71 | 1012 | 050/17 | | |
| 14 | D20190828-00004 | 2400-10 | 16.73 | 63.91 | 1011 | 330/08 | | |
| 15 | D20190828-001139 | 2400-45 | 15.28 | 63.35 | 1011 | 10/08 | | |
| 16 | D20190828-001156 | 2411-57 | 15.29 | 63.33 | 1010 | 370/08 | | |
| 17 | D20190828-003544 | 2435-50 | 16.42 | 62.2 | 1011 | 085/28 | | |
| 18 | D20190828-003601 | 2435-00 | 16.43 | 62.19 | 1011 | 085/32 | | |
| 19 | D20190828-004412 | 2441-55 | 16.87 | 61.74 | 1012 | — | missing z 19 | |
| * 20 | D20190828-005709 | 2459-09 | 17.21 | 62.83 | 1012 | 070/20 | | |
| 21 | D20190828-010852 | 2509-00 | 16.54 | 62.19 | 1010 | 070/23 | | |
| 22 | D20190828-10916 | 2509-11 | 16.52 | 62.84 | 1012 | 070/22 | | |

OB #

11

12

14

15

16

20

21

NO ACT

MINI

MINI

MINI

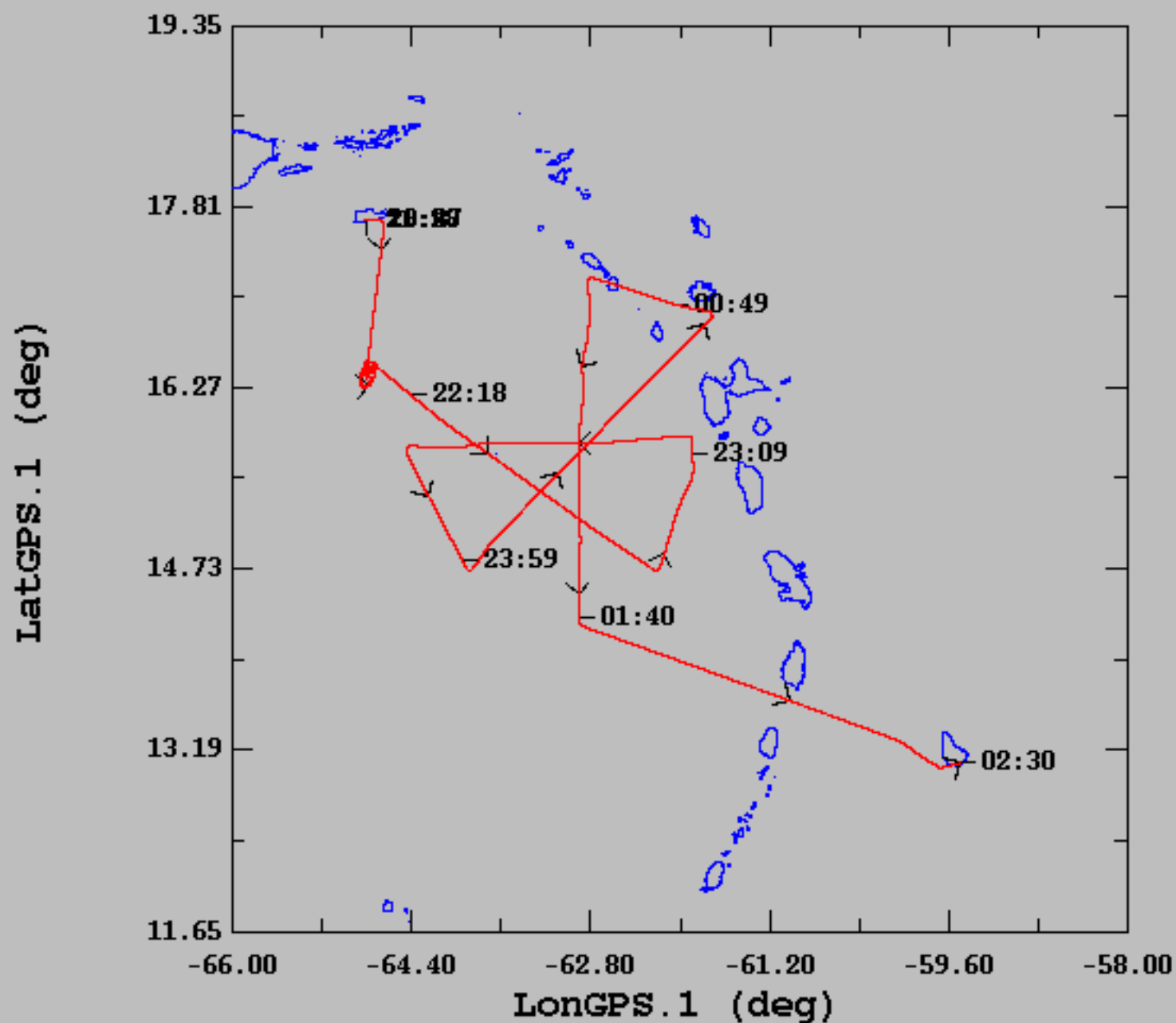
MINI

* 20

21

MINI

08/27/2019, 18:57:15-26:30:27



| | mean | sigma | min | max |
|---------------------------|--------|-------|--------|--------|
| — LatGPS.1 (deg), 1 s/sec | 16.26 | 1.37 | 13.03 | 17.70 |
| — LonGPS.1 (deg), 1 s/sec | -63.55 | 1.38 | -64.85 | -59.48 |