

N49RF ERROR SUMMARY
20200731N1

Flight ID: 20200731N1

| Sensor or System ----- | Number or Name ----- |
|--------------------------------------|-------------------------|
| Static Pressure Probe | PSM.2 |
| Dynamic Pressure Probe | PQM.2 |
| Total Temperature Probe | TTM.4 |
| Dewpoint Temp. Probe | TDM.2 |
| Vertical Accelerometer | AccZI.1 |
| Altimeter | AltGPS.3 |
| INE Selection | 1 |
| Differential Attack Pressure Probe | PDALPHA.2 |
| Differential Sideslip Pressure Probe | PDBETA.2 |
| Dynamic Attack Pressure Probe | PQALPHA.2 |
| Dynamic Sideslip Pressure Probe | PQBETA.2 |

Flight Directory acdata/2020/MET/20200731N1

| Local Met Data | Takeoff KLAL (1729Z) | Landing KLAL (0134Z) |
|-----------------------|----------------------|----------------------|
| Dynamic Corrections | | Yes |
| AttackAngleIntercept | | 3.97801 |
| AttackAngleSlope | | 3.86172 |
| SlipAngleIntercept | | 1.258 |
| SlipAngleSlope | | 6.69941 |
| AttackAngleIntercept2 | | 5.05753 |
| AttackAngleSlope2 | | 5.52397 |
| SlipAngleIntercept2 | | 0.931 |
| SlipAngleSlope2 | | 6.56381 |

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.

| Expendable Type ----- | # deployed ----- | # good ----- | # transmitted ----- |
|--------------------------|---------------------|-----------------|------------------------|
| Dropsondes | 36 | 35 | 35 |
| Test sondes | 0 | 0 | 0 |
| AXBTS | 0 | 0 | 0 |
| AXCPs | 0 | 0 | 0 |
| AXCTDs | 0 | 0 | 0 |
| UAS | 0 | 0 | 0 |

Flight Director: Hathaway / Henning
Phone #: 863-500-3911

ACAT-4 Version = 7.3

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

| FLIGHT INFORMATION | | | | CREW MANIFEST | | | | MISSION INFORMATION | | | | |
|-----------------------------------|------------------|-------------|-------------|---------------|----------------|-------------|--|---------------------|------------|-------------------|-----|------|
| FLT ID: | 20200731N1 | FLT #: | | AC: | Jason Mansour | Scientists: | | Pressure | | Dropsondes | | |
| From: | KLAL | ETD: | 1330L/1730Z | CP(s): | Matt Nardi | | | A/C Takeoff | | Good | Bad | Sent |
| To: | KLAL | ETA: | 2130L/130Z | | | | | | | 35 | 1 | 35 |
| Block Time | | Flight Time | | Nav(s): | | | | ASOS Takeoff | | BTs | | |
| In: | 0142Z | Land: | 0133Z | FE(s): | | | | A/C Land | | Good | Bad | Sent |
| Out: | 1723Z | T/O: | 1729Z | FD(s): | Nikki Hathaway | | | ASOS Land | | 0 | 0 | 0 |
| Total: | 8.3 | Total: | 8.1 | | Rich Henning | Visitors: | | | | | | |
| Sponsoring Org: | NHC | | | SEB: | | | | Storm Number ID: | | AL 092020 | | |
| Program: | PHS | | | | | | | (ie: AL072012) | | | | |
| Purpose: | Hurricane Isaias | | | SSA: | Gabe Defeo | | | TCPOD/WSPOD Mission | | NOAA-0809A Isaias | | |
| | | | | AVAPS: | Charles Lynch | | | OBSERVATIONS | | | | |
| AS REQUIRED BY ORM | | | | Y | N | REMARKS | | Fix Number | Obs Number | Fix Time | SLP | |
| VOLCANIC ASH | | | | | | | | | | | | |
| SCIENCE MISSION WITHIN BDRY LAYER | | | | | | | | | | | | |
| LACK OF PRECIPITATION | | | | | | | | | | | | |
| RELATIVE HUMIDITY ≥ 80% | | | | | | | | | | | | |
| LARGE AIR-SEA TEMP GRADIENT | | | | | | | | | | | | |
| HIGH SURFACE WINDS | | | | | | | | | | | | |
| LONG FETCH / DURATION OF SFC WND | | | | | | | | | | | | |
| SEA SALT ACCRETION FORECAST | | | | | | | | | | | | |
| SEA SALT ACCRETION OBSERVED | | | | | | | | | | | | |

Gmax: _____ Gmin: _____ *Highlighted items must be completed before departure.

Remarks: Alternates - KLAL, KTPA, KMCF, KMIA, MYNN, KSAV

G-IV QC Checklist

| | |
|---------------------|------------------|
| Flight ID: | 20200731N1 |
| Flight Director(s): | Hathaway/Henning |

| Pressure Comparison | | |
|---------------------|--------|--------|
| | T/O | Land |
| Aircraft | 1012.9 | 1011.3 |
| Tower | 1012.0 | 1011.4 |

| | |
|-------------|------|
| UWZ.d mean: | 0.13 |
|-------------|------|

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

| 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 checked="" type="checkbox"/> | Miscellaneous FD Notes |

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

NOTES:

AltRA.1 has multiple significant dropouts and should not be used as absolute altitude.
 When examined at high resolution, data from the three inertials shows "stairstepping" for all parameters for brief intervals (generally less than 15 seconds).
 TDM.1 and TDM.2 were unrepresentative for the entire mission.
 Consider all relative humidity values to be considered suspect.
 TTM.3 has a small amplitude (magnitude 0.2 - 0.3 deg C) unnatural oscillation with a period of roughly 30 seconds.
 TTM.4 was used for calculation of Ambient Temperature (TA) and other derived parameters.
 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.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20200731N1

ASPEN Operator/Flight Director(s): HENNING/NATHAWAY

Bad FLW =

Mission ID: 0809A

Storm Name/Track: ISAIAH

PG of Flight level winds

| Sonde # | Ob # | Launch Time HHMMSS (Z) | Sonde ID (min last 5) | Ch # used | Lat (°N) | Lon (°E) | Prominent Wx Cond. | SFC Prs (mb) | HEIGHTS | | SFC WIND | KWBC # | Sonde Issues? |
|-----------|------|------------------------|-----------------------|-----------|----------|----------|--------------------|--------------|-------------------|-------------------|----------|--------|---------------|
| | | | | | | | | | Comments / Issues | LOC / ASPEN Edits | | | |
| 1 | 1 | 1808 | 0792 | 1 | 30.4 | 80.9 | SCT | 1015.1 | 11021 | 5930 | 195/08 | 1834 | ✓ |
| 2 | 2 | 1822 | 0230 | 2 | 30.9 | 79.4 | SCT | 1014.7 | 11022 | 5926 | 235/14 | 1842 | FLW ✓ |
| 3 | 3 | 1833 | 0028 | 3 | 31.0 | 78.0 | SCT | 1014.6 | 11018 | 5921 | 235/14 | 1854 | ✓ |
| 4 | 4 | 1844 | 0242 | 4 | 31.0 | 76.5 | SCT | 1016.3 | 11030 | 5931 | 235/15 | 1921 | ✓ |
| 5 | 5 | 1856 | 0243 | 1 | 31.0 | 75.0 | SCT | 1015.9 | 11021 | 5918 | 250/19 | 1925 | ✓ |
| 6 | 6 | 1907 | 0241 | 2 | 31.0 | 73.5 | SCT | 1017.6 | 11037 | 5933 | 245/11 | 1936 | ✓ E |
| 7 | 7 | 1917 | 0508 | 3 | 30.9 | 72.1 | SCT | 1016.8 | 11027 | 5927 | 220/15 | 1959 | ✓ |
| 8 | 8 | 1931 | 0935 | 4 | 29.3 | 72.1 | SCT | 1018.3 | 11044 | 5934 | 150/8 | 2007 | ✓ |
| G 9 | 9 | 1942 | 0217 | 1 | 29.2 | 73.5 | SCT | 1017.8 | 11038 | 5931 | 245/4 | 2011 | ✓ |
| 10 | 10 | 1953 | 0233 | 2 | 29.2 | 75.0 | SCT | 1016.8 | 11024 | 5919 | 160/10 | 2023 | ✓ |
| G 11 | 11 | 2004 | 0607 | 3 | 29.2 | 76.5 | SCT | 1016.1 | 11021 | 5918 | 195/3 | 2032 | ✓ |
| 12 | 12 | 2015 | 0287 | 4 | 29.2 | 78.0 | SCT | 1015.2 | 11006 | 5916 | 320/3 | 2036 | ✓ |
| G 13 | 13 | 2025 | 1051 | 1 | 29.1 | 79.3 | SCT | 1015.4 | 11009 | 5922 | 325/2 | 2103 | ✓ |
| 14 | 14 | 2039 | 0210 | 2 | 27.5 | 78.8 | SCT | 1015.4 | 11000 | 5915 | 090/9 | 2107 | ✓ |
| 16 15 | 15 | 2052 | 1075 | 3 | 26.1 | 78.3 | SCT | 1014.1 | 11019 | | 065/23 | 2147 | ✓ |
| 17 16 | 16 | 2102 | 0181 | 4 | 27.2 | 77.2 | UCST | 1015.7 | 11024 | | 065/18 | 2152 | ✓ |
| 17 17 | 17 | 2112 | 0246 | 1 | 27.6 | 75.8 | | 1015.6 | 11035 | | 085/13 | 2156 | ✓ |
| 19 18 | 18 | 2126 | 0180 | 2 | 27.0 | 74.0 | ↓ | 1015.4 | 11049 | | 075/17 | 2159 | ✓ |
| 20 19 | 19 | 2139 | | 3 | LD | | | | 37 K | | | | |
| Backup 20 | 20 | 2140 | 0637 | 4 | 26.8 | 72.0 | CDO | 1016.6 | 11040 | | 075/15 | 2203 | ✓ |
| 21 | 21 | 2150 | 0295 | 1 | 26.0 | 73.0 | CDO | 1015.0 | | | 115/17 | | ✓ |
| 22 22 | 22 | 2202 | 0170 | 2 | 25.8 | 73.0 | CDO | 1014.6 | | | 090/17 | 2236 | ✓ |
| G 23 23 | 23 | 2216 | 0285 | 3 | 24.5 | 73.8 | CDO | 1012.9 | | | 100/25 | 2246 | FLW ✓ |
| 24 | 24 | 2225 | 0292 | 4 | 25.3 | 74.7 | CDO | 1013.9 | | | 090/20 | 2259 | ✓ |
| 25 25 | 25 | 2236 | 0614 | 1 | 25.5 | 76.0 | CDO | 1013.4 | | | 075/20 | 2300 | ✓ |
| 26 26 | 26 | 2247 | 1110 | 2 | 24.5 | 76.8 | CDO | 1011.7 | | | 065/29 | 2318 | ✓ |
| 27 27 | 27 | 2300 | 0288 | 3 | 24.0 | 75.4 | CDO | 1011.1 | LATE LD | | 100/43 | 2343 | ✓ |
| 28 28 | 28 | 2307 | 0012 | 4 | 23.6 | 74.6 | CDO | | DIED at 980 mb | | | 2356 | ✓ |
| 29 29 | 29 | 2317 | 0291 | 1 | 23.0 | 73.5 | CDO | 1012.1 | | | 090/26 | 0003 | ✓ |
| 30 30 | 30 | 2334 | 0007 | 2 | 21.5 | 73.7 | CDO | | DIED at 920 mb | | | | ✓ |
| G 31 31 | 31 | 2348 | 0152 | 3 | 21.9 | 75.5 | CDO | 1007.1 | | | 210/20 | 0021 | ✓ |
| 32 32 | 32 | 0000 | 20411 | 4 | 22.3 | 77.0 | B&N | 1007.9 | | | 020/19 | 0025 | ✓ |
| 33 33 | 33 | 0009 | 1123 | 1 | 23.0 | 78.0 | SCT | 1010.6 | | | 065/31 | 0030 | ✓ |
| 34 34 | 34 | 0021 | 0009 | 2 | 23.5 | 79.5 | SCT | 1011.0 | | | 080/23 | 0041 | ✓ |
| 35 35 | 35 | 0034 | 0059 | 3 | 24.4 | 81.0 | SCT | 1013.4 | | | 085/17 | 0055 | ✓ |
| LAST 36 | 36 | 0047 | 0020 | 4 | 25.1 | 82.4 | SCT | 1014.2 | LAST | | | | ✓ |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |

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

COMMENTS:

Obs Xmitted

Obs Missed

of sondes launched

of bad sondes

W

AVAPS Drop Log

 Project: HURR 20

 Mission: ISAIAS

 Flight ID: 20200731M1

Take Off: _____

Landing: _____

 Fit Dir: NIKEI

Launcher S/N: _____

| Drop # | Sonde Serial # | Rcvr # | Press Offset | Launch Time | Operator | Charge \$\$ To | Comments | Good ? |
|--------|----------------|-------------|--------------|-------------|----------|----------------|-----------------------------------|--------|
| 1 | 195 120 792 | 1 | 0 | 1808 | CFL | NWS | | ✓ |
| 2 | 195 030 230 | 2 | 0 | 1822 | | | | ✓ |
| 3 | 195 020 028 | 3 | 0 | 1833 | | | | ✓ |
| 4 | 195 030 242 | 4 | 0 | 1844 | | | | ✓ |
| 5 | 195 030 243 | 1 | 0 | 1855 | | | | ✓ |
| 6 | 195 030 241 | 2 | 0 | 1907 | GD | | | ✓ |
| 7 | 195 050 058 | 3 | -0.5 | 1917 | 1 | | | ✓ |
| 8 | 193 430 935 | 4 | 0 | 1931 | | | | ✓ |
| 9 | 195 030 217 | 1 | -0.4 | 1942 | | | | ✓ |
| 10 | 195 030 233 | 2 | -0.2 | 1953 | | | | ✓ |
| 11 | 195 110 607 | 3 | -0.5 | 2004 | | | | ✓ |
| 12 | 195 040 287 | 4 | -0.4 | 2015 | | | | ✓ |
| 13 | 195 021 051 | 1 | 0 | 2004 | | | | ✓ |
| 14 | 194 930 210 | 2 | 0 | 2040 | CFL | | | ✓ |
| 15 | 192 411 075 | 3 | 0 | 2052 | 1 | | | ✓ |
| 16 | 194 930 181 | 4 | 0 | 2102 | | | | ✓ |
| 17 | 195 030 246 | 1 | 0 | 2112 | | | | ✓ |
| 18 | 194 930 180 | 2 | 0 | 2126 | | | | ✓ |
| 19 | 194 830 153 | 3 | 0 | 2139 | | | NO CD VERY LATE 223 MB | |
| 19B | 20 | 192 350 637 | 4 | 0 | 2140 | | | ✓ |
| 20 | 21 | 192 040 295 | 1 | 0.2 | 2151 | | | ✓ |
| 21 | 22 | 194 930 170 | 2 | -0.3 | 2202 | | | ✓ |
| 22 | 23 | 192 040 285 | 3 | 0.3 | 2216 | | | ✓ |
| | 24 | 192 040 292 | 4 | | 2225 | | | ✓ |
| | 25 | 192 350 614 | 1 | | 2236 | GD | | ✓ |
| | 26 | 192 521 110 | 2 | 0 | 2247 | | | ✓ |
| | 27 | 192 040 288 | 3 | 0 | 2300 | | | ✓ |
| | 28 | 190 220 012 | 4 | .2 | 2307 | | LATE CANUCH | |
| | 29 | 192 040 291 | 1 | .3 | 2317 | | | ✓ |
| | 30 | 190 220 007 | 2 | .2 | 2334 | | | ✓ |
| 30 | 31 | 194 830 152 | 3 | .2 | 2348 | | | ✓ |

| Drop # | Sonde Serial # | Rcvr # | Press Offset | Launch Time | Operator | Charge \$\$ To | Comments | Good ? |
|--------|----------------|-------------|--------------|-------------|----------|----------------|----------|--------|
| 31 | 32 | 192 040 411 | 4 .2 | 0000 | L | NWS | | ✓ |
| 32 | 33 | 192 521 123 | 1 | 0009 | CPL | I | | ✓ |
| | 34 | 190 220 009 | 2 | 0021 | I | I | | ✓ |
| | 35 | 192 410 059 | 3 | 0035 | I | I | | ✓ |
| 35 | 36 | 194 830 020 | 4 .2 | | | | | ✓ |
| | 37 | | | | | | | |
| | 38 | | | | | | | |
| | 39 | | | | | | | |
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| | 50 | | | | | | | |

Drop Station Operator Notes

Charge \$\$ To Options **(DO NOT USE FUNDING CODES):**

AOC, NWS, HRD, NESDIS, IR/SST, AR, STAN (Stanford), SAT (JPSS/NESDIS/HRD)

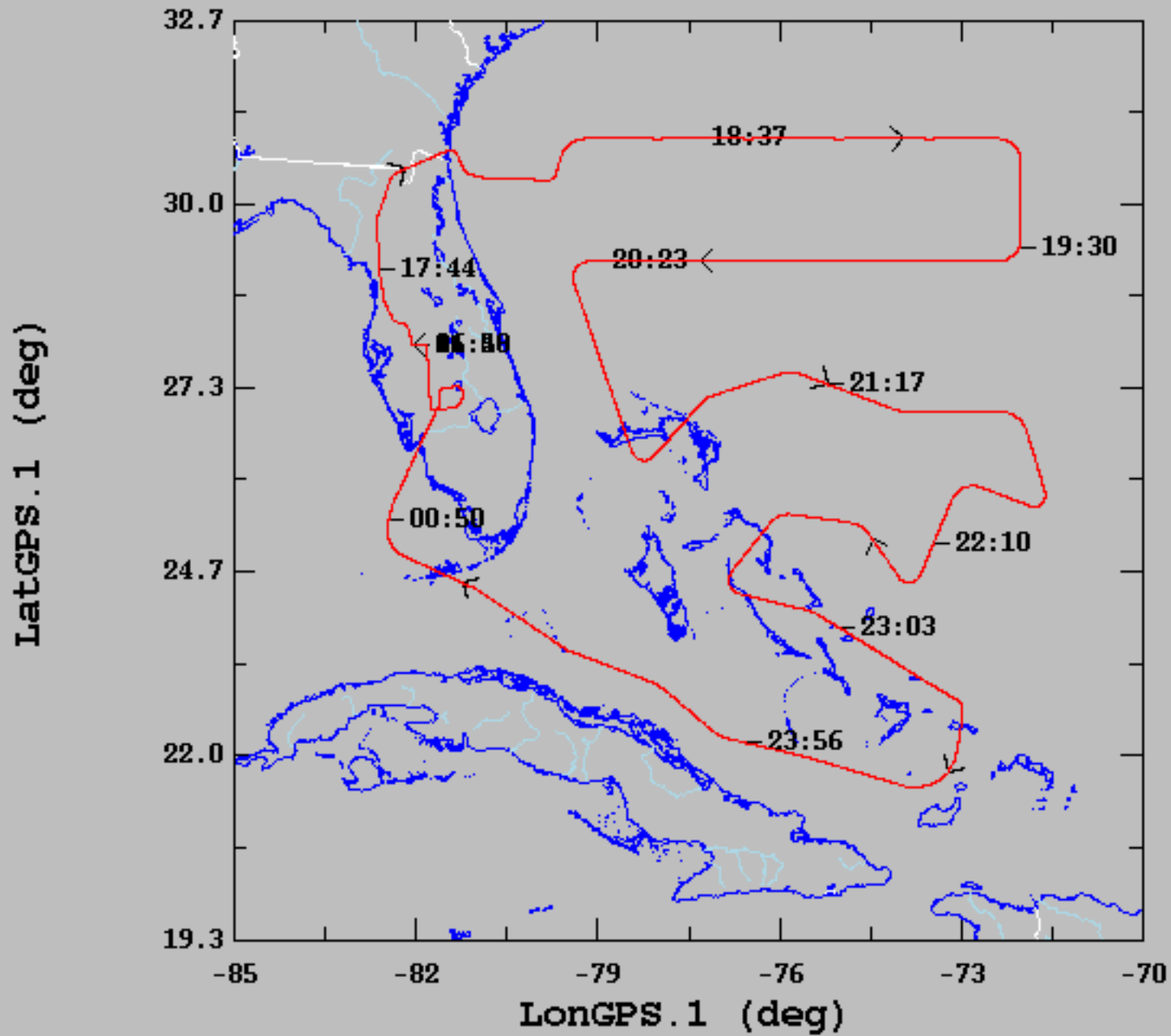
AVAPS Pre-Flight Check:

- If time-permits, verify cabin pressure sensor w/ lab standard
- Start AVAPS., then start Soundings and set the Project Name and Full Flight ID (example: 20120823N2).
- Verify the Frequency band allocation as required:
Band A: 53rd WRS - Band B: N42RF - Band C: N43RF - Band D: N49RF - Band E: Unallocated
- Select the **GPS Reference** tab from the **Soundings Displays** page and verify good GPS data
- Perform a prelaunch check on each channel, look for reasonable data and no CRC error status lights.
- Verify data is available on Remote AVAPS, then terminate the sonde.
- Verify the AVAPS Data mission folder has been created
- **Verify AVAPS PC Time is correct – if time is off by >4sec, no data will display**
- **Early launch detects are caused usually by remanufactured sondes with the chute riser line not properly coiled below the PCB ear. This may also cause fast falls. If this is suspected, repack the riser line as time permits**
- **Perform RH Regeneration on all sondes – Multiple RD41 sondes may be processed at once**

AVAPS Launch:

- Select a sonde frequency in the Green band and away from other sondes
- Enter sonde pressure error offset if 0.4mB or greater using cabin pressure sensor – warning, this can not be used during a climb
- **If the Cal lab pressure standard and the cabin pressure standard match, apply pressure offset +/- 0.1 mB**
- **Wait until GPS available (green) on the pre-launch screen before continuing.**
- Select “begin data collection” and verify good data with winds prior to putting sonde in launch tube
- On N42 & N43, remove about ½ of the ribbon. Do not shorten the ribbon on N49. Loosen ribbon and extend end of ribbon to near, but not over, the sensor end of the sonde. Place excess orange tape on end of ribbon to form a pocket.
- Place the sonde in the launch tube, sensor arm up, with the power pin socket facing right
- Verify the sonde is actively tracking GPS data prior to launch and **no early launch detect**

2020-07-31, 16:50:49-25:43:27



| | mean | sigma | min | max |
|---------------------------|--------|-------|--------|--------|
| — LatGPS.1 (deg), 1 s/sec | 27.05 | 2.73 | 21.49 | 31.00 |
| — LonGPS.1 (deg), 1 s/sec | -77.40 | 3.51 | -82.64 | -71.60 |