### Flight ID: 20220829I1

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<th>Number or Name</th>
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<tr>
<td>Dynamic Pressure Probe</td>
<td>PQM.2</td>
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<td>Total Temperature Probe</td>
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<td>Dewpoint Temp. Probe</td>
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**Flight Directory**

`acdata/2022/MET/20220829I1`

**Local Met Data**

- **Takeoff TBPB (1906Z)**
- **Landing TBPB (0000Z)**

**Dynamic Corrections**

- **Yes**
- **AttackAngleIntercept:** 0.12675
- **AttackAngleSlope:** 5.36078
- **SlipAngleIntercept:** 0.2
- **SlipAngleSlope:** 6.67768

**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.

- Average of UWZ.d unusually higher than normal.

- PDAlpha.1 and PDAlpha.2 have ~40 mb offset compared to reference

- PQM1 has a ~10 mb offset compared to reference

- TTM.2 much noisier than TTM.1/reference

- UWZ flatlines briefly between UTC 01:24-01:34

- ALT.ref has a brief dropoff that other ALTs do not

- ALTRa.1/ALTRa.1.c are missing data

- LatGPS.3 and LonGPS.3 are briefly missing data between approx. 01:20-01:30 UTC

- LONref has a small drop off the datasets do not have
<table>
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<th># good</th>
<th># transmitted</th>
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Flight Director: Kalen/Holmes  
Phone #: 8635003962  
ACAT-4 Version = 7.4
Overall Assessment

Minor instrument issue(s) - minimal mission impact.

Flight ID: 20220829I1
Flight Director(s): FD: Kalen/Holmes QC: Timmers
Mission: Non-tasked Science Collection/Research

Pressure Comparison

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<th>Land</th>
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<tr>
<td>Tower</td>
<td>1005.5 mb</td>
<td>1007.5 mb</td>
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</table>

UWZ.d mean: 0.53

Raw 1Hz Mean File Parameters

C File Parameters

- Average of UWZ.d unusually higher than normal.
- PDAlpha.1 and PDAlpha.2 have ~40 mb offset compared to reference
- PQM1 has a ~10 mb offset compared to reference
- TTM.2 much noisier than TTM.1/reference
- UWZ flatlines briefly between UTC 01:24-01:34
- ALT.ref has a brief dropoff that other ALTs do not
- ALTRa.1/ALTRa1.c are missing data
- LatGPS.3 and LonGPS.3 are briefly missing data between approx. 01:20-01:30 UTC
- LONref has a small drop off the datasets do not have

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

#### FLIGHT INFORMATION
- **FLT ID:** 20220829I1
- **Academic Center:** Doremus
- **Flight Time:** 8.3
- **Flight Time:** 8.1
- **Flight Type:** Pressure Dropsondes
- **ETD:** 1900Z
- **To:** TBPB
- **ETA:** 0300Z
- **From:** TBPB
- **Pressure:** Good
- **Pressure:** Bad
- **Pressure:** Sent
- **Pressure:** 23
- **Pressure:** 2
- **Pressure:** 23
- **Pressure:** Good
- **Pressure:** Bad
- **Pressure:** Sent
- **Pressure:** 0
- **Pressure:** 0
- **Pressure:** 0
- **ASOS Takeoff:** BPs
- **ASOS Land:** 0
- **ASOS Land:** 0
- **ASOS Land:** 0
- **Sponsoring Org:** HRD
- **Program:** PRX
- **Purpose:** Hurricane Research
- **Fix Number:** 1
- **Obs Number:** 2
- **Fix Time:** 3
- **SLP:** 4
- **Pennies:** *Highlighted items must be completed before departure.*

#### CREW MANIFEST
- **AC:** Doremus
- **CP(s):** Copare
- **Wood:** Marks
- **Crew:** Reasor
- **FE(s):** Darby
- **Pittman:** Chang
- **FD(s):** Holmes
- **Kalen:** Pittman
- **SSA:** Richards
- **AVAPS:** Warnecke
- **Visitors:**

#### MISSION INFORMATION
- **A/C Takeoff:** Good
- **A/C Takeoff:** Bad
- **A/C Takeoff:** Sent
- **A/C Takeoff:** 23
- **A/C Takeoff:** 2
- **A/C Takeoff:** 23
- **A/C Land:** Good
- **A/C Land:** Bad
- **A/C Land:** Sent
- **A/C Land:** 0
- **A/C Land:** 0
- **A/C Land:** 0
- **IN:** 0312Z
- **Out:** 1857Z
- **Land:** 0509Z
- **T/O:** 1906Z
- **ETA:** 0300Z
- **Wood:** Reasor
- **Reasor:** Marks
- **Reasor:** Wood

#### OBSERVATIONS
- **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

**Remarks:**

*Highlighted items must be completed before departure.*
## AVAPS Drop Log

**Project:** HDEP 22  
**Mission:** AL-916  
**Flight ID:** 2022082951  
**Take Off:** 19:42  
**Landing:**  
**Fit Dir:** Haining  
**Launcher S/N:** 209

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**AVAPS Drop Log**  
rev: 2019-07-31

23/25