

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2022060311	FLT #:	1	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1700 Z	CP(s):	Shaw		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	2100 Z						<b>1</b>	<b>0</b>	<b>1</b>
Block Time		Flight Time		NAV:	Miller, R		ASOS Takeoff		BTs		
In:	<b>20:09</b>	Land:	<b>20:05</b>	FE(s):	Stokes					Good	Bad
Out:	<b>16:57</b>	T/O:	<b>17:11</b>	FD(s):	Lundry	Visitors:	A/C Land		<b>1</b>	<b>0</b>	<b>0</b>
Total:	<b>3.2</b>	Total:	<b>2.9</b>	SSA:	Richards, T		ASOS Land				
Sponsoring Org:	NWS			AVAPS:	Patel		Storm Number ID:		<b>N/A</b>		
Program:	PRX			SEB:	Andrew		(ie: AL072012)				
Purpose:	TDR Shakedown			MX:			TCPOD/WSPOD Mission		<b>NOAA3 WXWXA TRAIN</b>		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	OBSERVATIONS					
VOLCANIC ASH					X	Fix Number	Obs Number	Fix Time	SLP		
SCIENCE MISSION WITHIN BDRY LAYER				X		<b>1</b>					
LACK OF PRECIPITATION					X	<b>2</b>					
RELATIVE HUMIDITY ≥ 80%				X		<b>3</b>					
LARGE AIR-SEA TEMP GRADIENT					X	<b>4</b>					
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:


## P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	2022060311
Flight Director(s):	FD: Lundry QC: Hathaway
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	0.29

Pressure Comparison		
	T/O	Land
Aircraft	1006.9 mb	N/A
Tower	1007.2 mb	1006.2 mb

	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			
✓ 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 ✓ PDALPHA.2 ✗ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✗ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDALPHAref ✓ 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 <input type="checkbox"/> PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 <input type="checkbox"/> PitchRatel.3	✗ RollI.1 ✗ RollI.2 <input type="checkbox"/> RollI.3	✓ RollRatel.1 ✓ RollRatel.2 <input type="checkbox"/> RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✗ TTM.2 ✗ TTM.3	✗ TDM.1 ✓ TDM.2 <input type="checkbox"/> TDM.3	✓ TRadD.1 ✓ TRadS.1 <input type="checkbox"/> 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
✓	Miscellaneous FD Notes

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

### NOTES:

- Slight oscillation apparent at finer scales in variables: PitchI.1, PitchI.2, RollI.1, RollI.2, PSM.1, PDBeta.1, PQM.1
- TTM.2, TDM.1, TD.c at take off noticed slight oscillation at finer scales.
- Difference of roughly 40 mb between PDAAlpha.1 and PDAAlpha.2
- PQM.1 approximately 15-20 mb higher than rest of PQMs.
- TDM.2 spontaneous spikes during second half of flight.

N43RF ERROR SUMMARY  
20220603I1

Flight ID: 20220603I1

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/2022/MET/20220603I1

Local Met Data	Takeoff KLAL (1711Z)	Landing KLAL (1955Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.131251
AttackAngleSlope		6.02327
SlipAngleIntercept		0.23
SlipAngleSlope		7.02537

Notes:

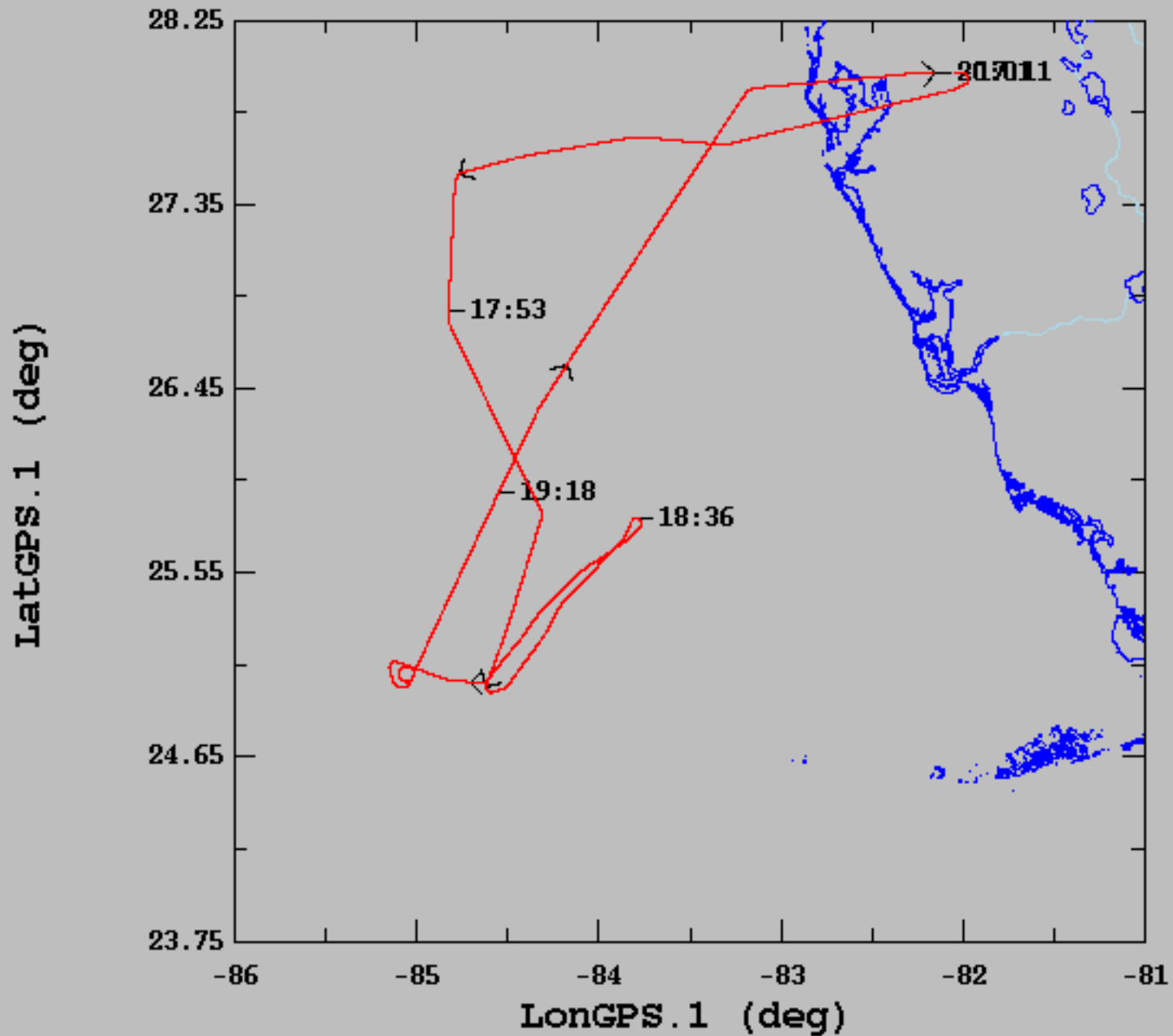
There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

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	1	1	1
Test sondes	0	0	0
AXBTS	1	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry / QC - Hathaway  
Phone #: 863-500-3911

2022-06-03, 17:11:00-20:01:06



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	26.48	1.09	24.97	27.99
— LonGPS.1 (deg), 1 s/sec	-84.00	0.83	-85.15	-81.96