

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220901H1	FLT #:	22-	AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	0800Z	CP(s):	Rannenberg	Rob Rogers	A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1600Z		Keith	Jun Zhang			16	0	16
Block Time		Flight Time		NAV:	Hough	Kerri Englert	ASOS Takeoff		BTs		
In:	14:57	Land:	14:54	FE(s):	Stokes		A/C Land		Good	Bad	Sent
Out:	7:25	T/O:	7:32	FD(s):	Gee				5	3	0
Total:	7.5	Total:	7.4	SSA:	McAlister	Visitors:	ASOS Land				
Sponsoring Org:	HRD			AVAPS:	Dykeman		Storm Number ID:		N/A		
Program:	PHX			SEB:			(ie: AL072012)				
Purpose:	AM Research mission #3 AL91			MX:			TCPOD/WSPOD Mission		NOAA2 WGWXA AL91		
							(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		2				
LACK OF PRECIPITATION					X		3				
RELATIVE HUMIDITY ≥ 80%				X			4				
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		Pennies:	N/A			
						*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:	20220901H1
Flight Director(s):	Carpenter
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	0.02

Pressure Comparison		
	T/O	Land
Aircraft	1002.9	
Tower	1003.7 (TBPB)	1004.5 (TPBP)

	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 ✓ 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 □ PitchI.3	✓ PitchRatel.1 □ PitchRatel.2 □ PitchRatel.3	✓ RollI.1 ✓ RollI.2 □ RollI.3	✓ RollRatel.1 □ RollRatel.2 □ RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 □ TTM.3	✓ TDM.1 ✓ TDM.2 □ TDM.3	✓ TRadD.1 ✓ TRadS.1 □ 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	□
Valid	✓
Errors (note)	X

NOTES:

The following was noted on the 1 Hz File:

PDALPHA.1 and PDALPHA.2 have about a 10 mb difference throughout flights.

PDBETA.1 and PDBETA.2 have about a 15 mb difference throughout flights.

Several gaps in the relative humidity data.

TDM.1 more sensitive than TDM.2.

Several gaps in the relative humidity data when supersaturated.

AVAPS Drop Log

Project: 2022 Hurricanes

Mission: AL-91

Flight ID: 20220901H1

Take Off: 0732

Landing: _____

Flt Dir: Carpenter

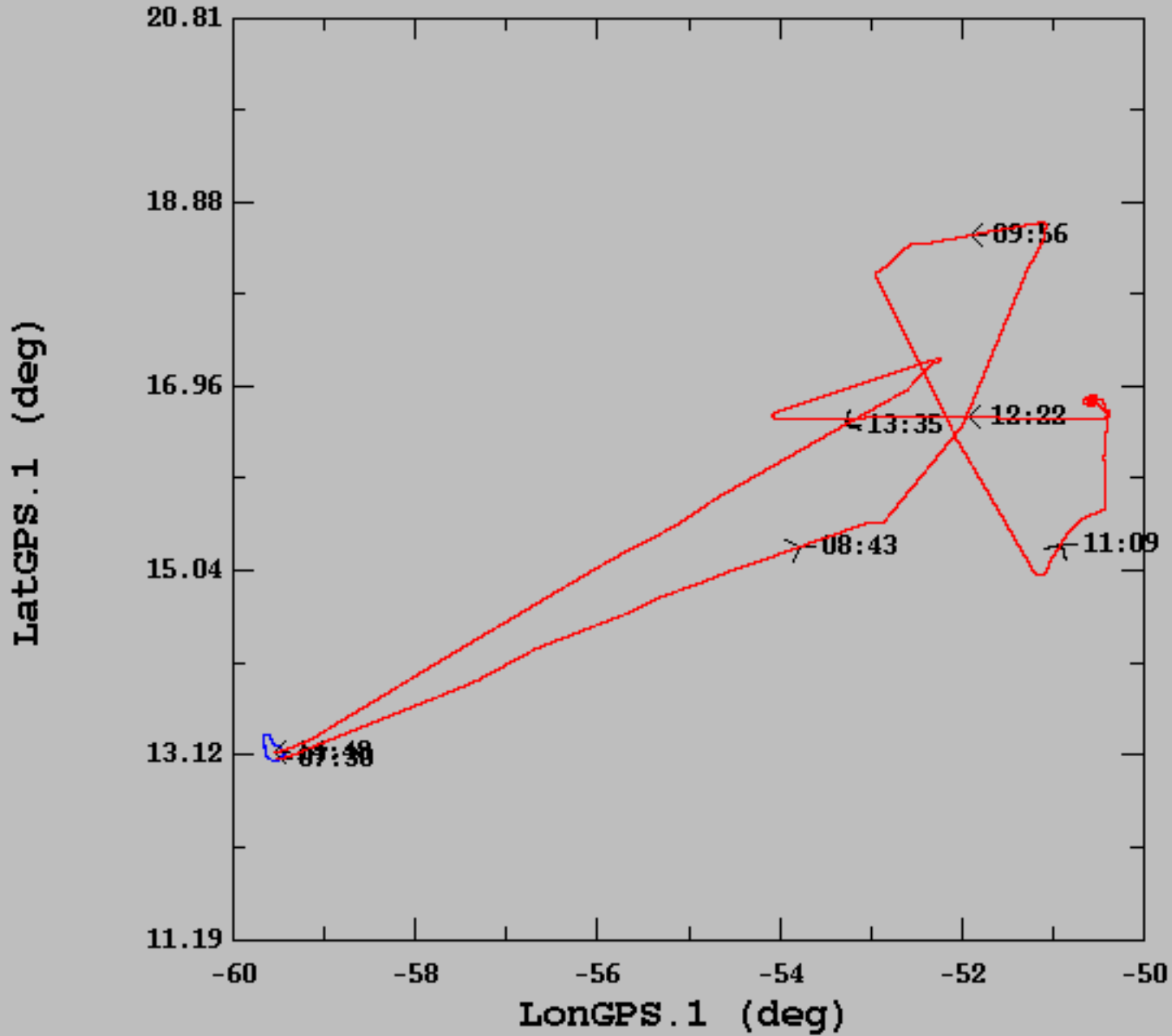
Launcher S/N: _____

P1 IP
 P1 MPI
 P1 CP
 P1 MPD
 P1 EP
 P2 IP
 P2 MPI
 P2 CP
 P2 MPD
 P2 EP
 P3 IP
 STRAITA SPIRAL
 P3 MPI
 P3 CP
 P3 MPD
 P3 EP

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221210018	1	-	0957	BRD	EMC	COMBO BAD BT	Y
2	221150517	2	-	905	BRD	EMC		Y
3	220840710	3	-	913	BRD	EMC	COMBO GOOD BT	Y
4	221240719	4	-	0927	BRD	EMC		Y
5	221240724	5	-	0945	FRD	EMC	COMBO BAD BT	Y
6	221220213	5	-	1010	FRD	EMC	COMBO GOOD BT	Y
7	221240284	6	-1	1023	FRD	EMC		Y
8	221240277	1	-0.4	1037	FRD	EMC		Y
9	221210177	2	-	1051	BRD	EMC		Y
10	221240713	3	-	1102	BRD	EMC		Y
11	221240715	4	-	1130	BRD	EMC	COMBO GOOD BT	Y
12	221250035	5	-	1147	BRD	ONR		Y
13	210620005	6	-1.7	1215	BRD	EMC		Y
14	220840711	7	-	1227	JED	EMC	COMBO BAD BT	Y
15	221240695	8	-	1238	BRD	EMC		Y
16	221030245	1	-1.6	1252	BRD	EMC	COMBO GOOD BT	Y
17		2	-					
18		3	-1.2					
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

16/16

2022-09-01, 07:30:49-14:48:20



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	16.01	1.41	13.07	18.67
— LonGPS.1 (deg), 1 s/sec	-53.50	2.56	-59.53	-50.36