

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220917H1	FLT #:		AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	TNCA	ETD:	0800Z	CP(s):	Copare	Rogers	A/C Takeoff		Good	Bad	Sent
To:	TNCA	ETA:	1500Z		Wood	Sellwood			28	0	28
Block Time		Flight Time		NAV:	Miller	Alvey	ASOS Takeoff		BTs		
In:	1450Z	Land:	1448Z	FE(s):	Stokes				Good	Bad	Sent
Out:	0738Z	T/O:	0744Z	FD(s):	Holmes		A/C Land		1	0	1
Total:	7.2	Total:	7.1	SSA:	McAlister	Visitors:					
Sponsoring Org:	NWS/EMC			AVAPS:	Dykeman	Stahl	Storm Number ID:		AL072022		
Program:	PRX			SEB:			(ie: AL072012)				
Purpose:	TDR			MX:			TCPOD/WSPOD Mission		NOAA2 0607A FIONA		
							(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						
LACK OF PRECIPITATION					X		2				
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X		3				
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X		4				
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.
--------------------	---

Flight ID:	20220917H1
Flight Director(s):	Kalen/Holmes
Mission:	Tasked/Operational
UWZ.d mean:	0.1

Pressure Comparison		
	T/O	Land
Aircraft	1007.7	N/A
Tower	1002.4	1005.2

	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 <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 <input type="checkbox"/> 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)	✗

NOTES:

The following was noted on the 1 Hz File:

PDALPHA.1 and PDALPHA.2 differ by about 10 mb throughout.

PDBETA.1 and PDBETA.2 differ by about 15 mb through about the first half of the flight.

PDALPHA.2 and PDBETA.2 unrepresentative deviation from ~1337-1352 Z.

PQM.1 differs increasingly throughout flight, up to about 20 mb.

TDM.1 noisier than TDM.2, with a large unrepresentative deviation at 849 Z followed by a period of noisy oscillations.

Gaps in relative humidity when supersaturated.

AVAPS Drop Log

Project: Hurricane 2022

Mission: TS Fiona

Flight ID: 2022091711

Take Off: 0744Z

Landing: 1448

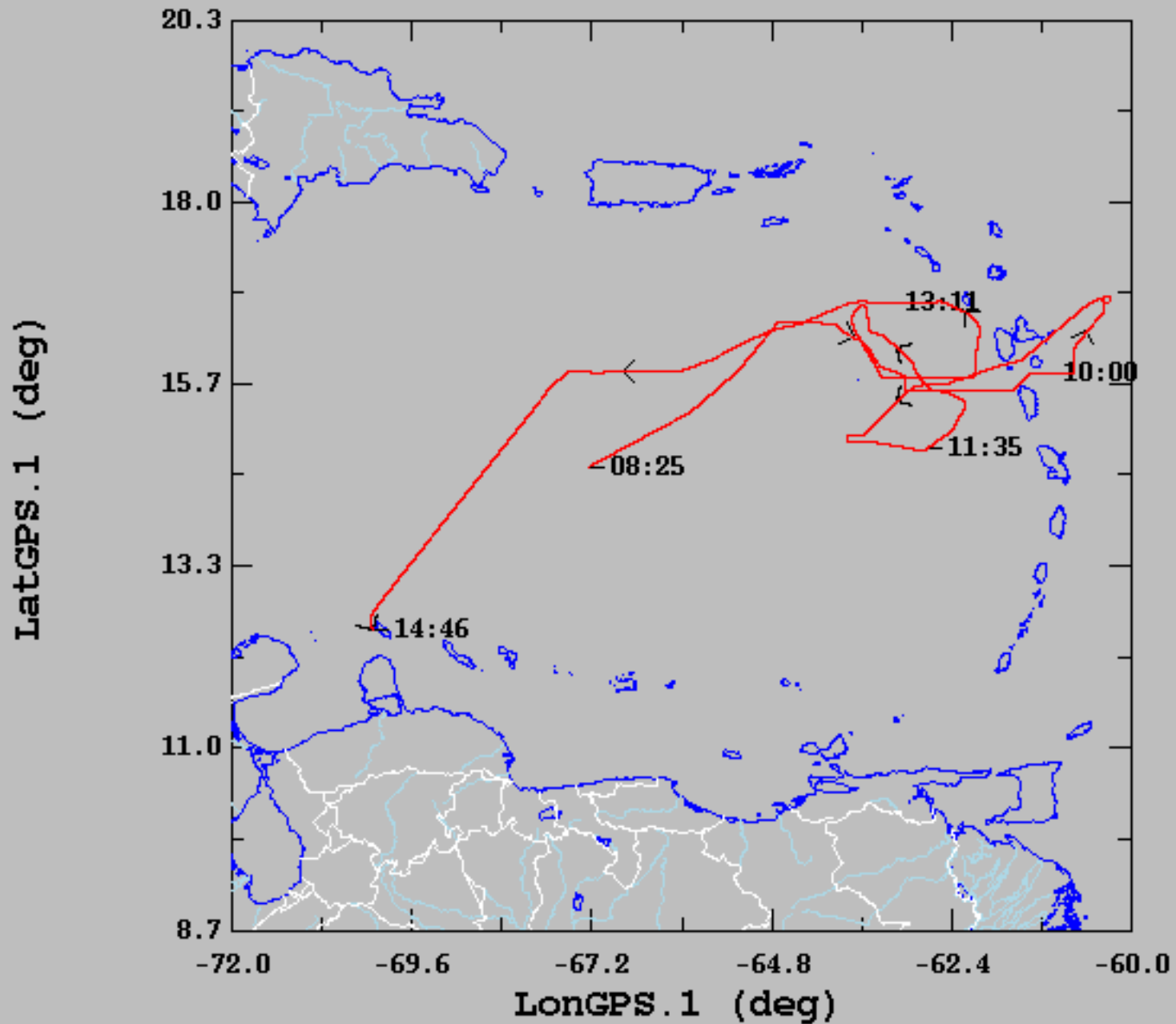
Flt Dir: Q Kalen

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
P1 IP	1	213550843	1	-1.4	0904	BRD	EMC	Y
P1 MP1	2	213746492	2	+1.1	0915	BRD	EMC	Y
P1 BTSONE	3	213440805	3	-	0924	BRD	EMC	COMBO
P1 RMW1	4	213740257	4	-1.4	0930	BRD	ONR	Y
P1 CPI	5	213740542	5	-1.5	0934	BRD	EMC	Late Winds
P1 CA2	6	213740561	6	-1.6	0935	BRD	EMC	Y
P1 RMW1	7	213440815	7	-	0946	BRD	ONR	Y
P1 MPD	8	213520544	8	-1.5	0949	BRD	EMC	Y
P1 RMW1	9	210630217	1	-1.8	0950	BRD	ONR	Y
P1 EP	10	213440811	2	-1.4	1004	BRD	EMC	Y
P2 IP	11	213440810	3	-	1031	BRD	EMC	Y
P2 MP	12	213810939	4	-1.4	1046	BRD	EMC	Y
P2 RMW1	13	213521079	5	-1.2	1049	BRD	ONR	Y
P2 RMW1	14	213740474	6	-	1050	BRD	ONR	Y
P2 RMW1	15	213740543	7	-1.3	1101	BRD	ONR	Y
P2 MPD	16	213740554	8	-1.3	1110	BRD	EMC	Y
P2 RMW1	17	213440812	1	-1.1	1113	BRD	ONR	Y
P2 EP	18	213530477	2	-1.3	1116	BRD	EMC	Y
MP BTCPZ	19	213740473	3	+1.1	1139	BRD	EMC	Y
P3 IP	20	213650043	4	-1.3	1146	BRD	EMC	Y
P3 RMW1	21	213740235	5	-1.2	1149	BRD	ONR	Y
F3 RMW1	22	213440806	6	-	1202	BRD	ONR	Y
P3 CP	23	213440807	7	-	1205	BRD	EMC	Y
P4 RMW1	24	210650506	8	-1.6	1240	BRD	ONR	Y
P4 RMW1	25	213740490	1	-	1241	BRD	ONR	Y
P4 RMW1	26	210741061	2	-1.0	1241	BRD	ONR	Y
P4 RMW1	27	213650035	3	-1.2	1304	BRD	ONR	Y
P4 RMW1	28	213440804	4	-1.3	1310	BRD	ONR	Y
	29		5	-1.4				
	30		6	-1.1				
	31							

EMR (14)
ONR (14)
28

2022-09-17, 08:25:39-14:46:10



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	15.67	0.85	12.52	16.78
— LongGPS.1 (deg), 1 s/sec	-63.99	2.47	-70.13	-60.27