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Dropsondes	31	29	29
Test sondes	0	0	0
AXBTs	4	4	4
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Zawislak / Parrish
 Phone #: 305-707-4359

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230909H1	FLT #:	FY23-	AC:	Doremus	Scientists:	Pressure		Drosondes		
From:	TISX	ETD:	1630L / 2030Z	CP(s):	Rannenberg	Hazelton (HRD)	A/C Takeoff	1010.0	Good	Bad	Sent
To:	TISX	ETA:	0030L / 0430Z		Palmer	Sellwood (HRD)			29	2	29
Block Time		Flight Time		NAV:	Hough / Schaefer	Sapp (NESDIS)	ASOS Takeoff	1009.3	BTs		
Out:	20:18	T/O:	20:24	FE(s):	Stokes	Chang (NESDIS)			A/C Land		Good
In:	3:00	Land:	2:54	FD(s):	Parrish	Jelenak (NESDIS)	ASOS Land	1011.3			4
Total:	6.7	Total:	6.5	SSA:	McAlister	Visitors:			Storm Number ID:		AL132023
Sponsoring Org:		HX - NHC/EMC			AVAPS:	Waggoner	(ie: AL072012)				
Program:		PRX			SEB:	Santoni (IFT)	TCPOD/WSPOD Mission		NOAA2 0913A LEE		
Purpose:		TDR Mission + HRD/NESDIS Modules				MX:		(ie: NOAA2 2418A SANDY)			
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x		1	OB10 20.80N, 59.30W	21:51:59	962 mb	
SCIENCE MISSION WITHIN BDRY LAYER					x					Drop: 110 / 11 kt	
LACK OF PRECIPITATION					x		2	OB19 20.81N, 59.44W	23:09:30	961 mb	
RELATIVE HUMIDITY ≥ 80%				x						Drop: 160 / 07 kt	
LARGE AIR-SEA TEMP GRADIENT					x		3	OB29 20.87N, 59.58W	0:18:26	962 mb	
HIGH SURFACE WINDS				x						Drop: 130 / 02 kt	
LONG FETCH / DURATION OF SFC WND				x			4				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED					x		Pennies:	5 x CAT 2			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20230909H1
Flight Director(s):	Zawislak / Parrish
Mission:	Tasked/Operational
UWZ.d mean:	0.13

Pressure Comparison		
	T/O	Land
Aircraft	1010.0	No good measurement
Tower	1009.3	1011.3

	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	✗ PDLAPHaref ✗ 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	✓ PitchRateI.1 ✓ PitchRateI.2 ✗ PitchRateI.3	✓ RollI.1 ✓ RollI.2 ✗ RollI.3	✓ RollRateI.1 ✓ RollRateI.2 ✗ RollRateI.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	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>I.3 for Pitch and Roll is not operational</p> <p>TTM.3 is not operational</p> <p>TRadU.1 is not operational</p> <p>TDM.1 has several deviations and spikes compared to TDM.2; TDM.2 is the better behaving sensor and TDMref is set to TDM.2</p> <p>TDM.3 has erroneous data throughout the flight and should not be used</p> <p>PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file</p> <p>Spike in PQM.4 between ~0200 and 0206 UTC where it deviates from PQM.1, .2., and .3; no mission impact; all other times are consistent with the other PQMs</p>

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AVAPS Drop Log

Project: VEE

Mission: _____

Flight ID: 20230909H1

Take Off: 2024 Z.

Landing: _____

Flt Dir: JZ

Launcher S/N: 467WR

CTR
COMBO

EP3
COMBO

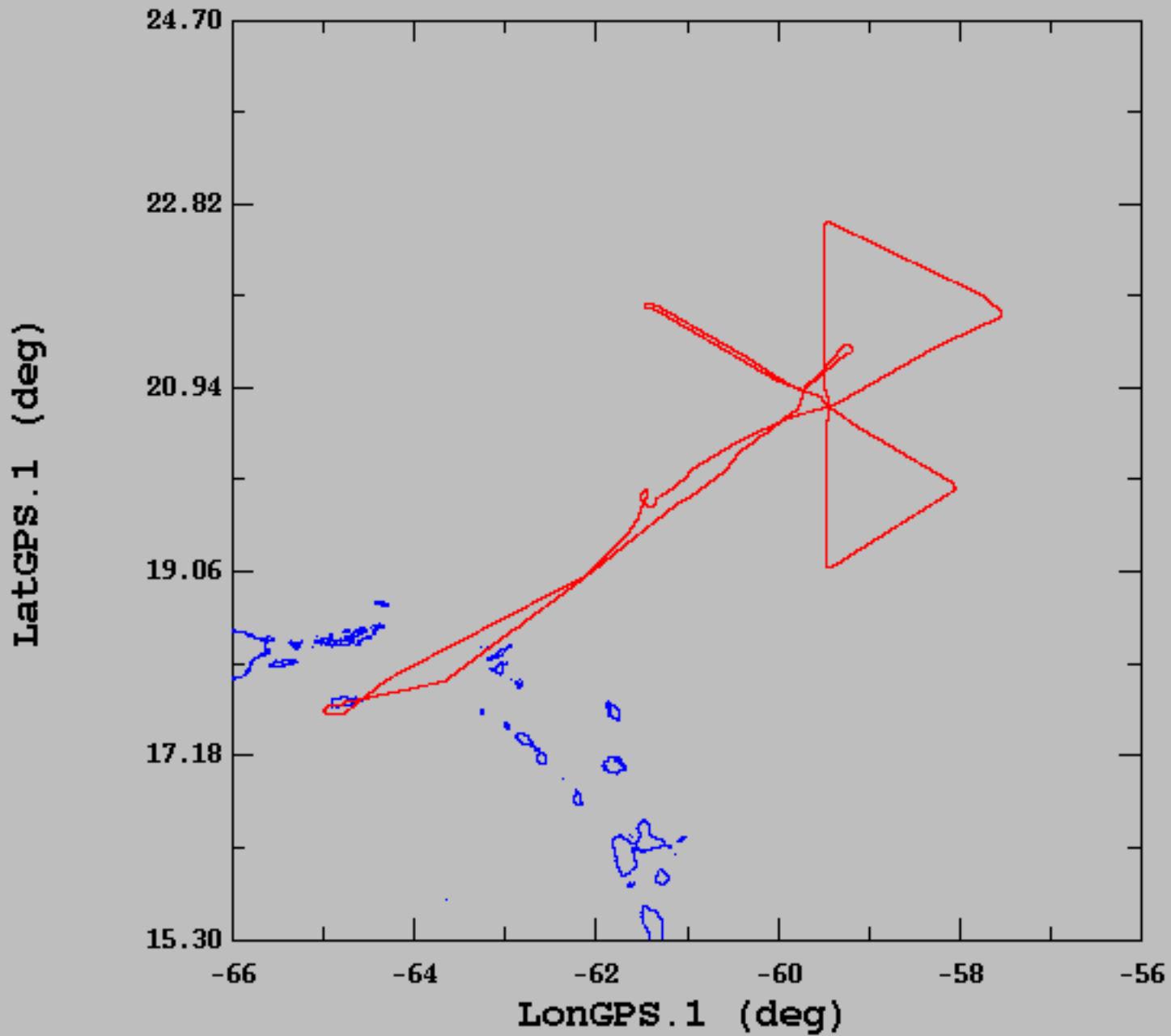
CTR3
COMBO

EP3
COMBO

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221750691	1	-1.2	2124	LW	NWS	IP1	✓
2	222020521	2	-1.0	2139	LW	NWS	MP	✓
3	221920013	3	-0.9	Ø	LW	NWS	RMW NO LAUNCH DET.	
4	221750573	4	-1.2	2150	LW	ONR	RMW	✓
5	221830581	5	-1.0	2152	LW	NWS	CTR 1 COMBO	✓
6	221830574	6	-1.1	2154	LW	NWS	RMW	✓
7	221830746	7	-1.1	2155	LW	ONR	RMW	✓
8	221721177	8	-0.8	2155	LW	ONR	RMW	✓
9	221830585	1	-0.8	2203	LW	NWS	MP	✓
10	221740818	2	-1.5	2218	LW	NWS	EP1	✓
11	221910293	3	-1.0	2245	LW	NWS	IP2	✓
12	221740804	4	-1.0	2256	LW	NWS	MP	✓
13	221721267	5	-0.8	2303	LW	NWS	RMW	✓
14	221730006	6	-0.8	2304	LW	ONR	RMW	✓
15	221030254	7	-0.8	2305	LW	ONR	RMW	✓
16	221841039	8	-1.1	2307	LW	ONR	RMW	✓
17	221740806	1	-0.9	2309	LW	NWS	CTR 2	✓
18	221740654	2	-1.1	2312	LW	NWS	RMW	✓
19	221740796	3	-1.1	2321	LW	NWS	MP 2	✓
20	221830148	4	-0.6	2332	LW	NWS	EP2	✓
21	221840095	5	-0.8	2354	LW	NWS	IP3 COMBO WINDS ONLY	✓
22	221740714	6	-1.1	0006	LW	NWS	MP 3	✓
23	221830747	7	-1.0	0016	LW	NWS	RMW	✓
24	221840107	8	-0.6	0018	LW	NWS	CTR3 COMBO	✓
25	221830749	1	-1.0	0020	LW	NWS	RMW	✓
26	221810100	2	-1.0	0021	LW	ONR	RMW	✓
27	221830577	3	-1.0	0021	LW	ONR	RMW	✓
28	222120086	4	-1.0	0022	LW	ONR	RMW	✓
29	221530953	5	-0.5	0030	LW	NWS	MP 3	✓
30	221750666	6	-0.6	Ø	LW	NWS	EP3 COMBO NO LAUNCH DETECT	
31	221810076	7	-0.7	0052	LW	NWS	EP3 repeat	✓

9 ONR

09/09/2023, 18:29:07-26:53:22



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	19.77	1.54	17.61	22.63
— LonGPS.1 (deg), 1 s/sec	-61.33	2.36	-64.98	-57.53