

AXCPs	0	0	0
AXCTDs	0	0	0
UAS	1	1	0

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

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2023102011	FLT #:	FY24-	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	0530L / 0930Z	CP(s):	Wood	Frank Marks (HRD)	A/C Takeoff	1000.2	Good	Bad	Sent
To:	TBPB	ETA:	1330L / 1730Z		Keith	Jun Zhang (HRD)			27	0	27
Block Time		Flight Time		NAV:	Miller	Joe Cione (HRD)	ASOS Takeoff	999.9	BTs		
Out:	9:19	T/O:	9:24	FE(s):	Tyson	Andrew Person (Altius)	A/C Land		Good	Bad	Sent
In:	15:37	Land:	15:32	FD(s):	Wysinger	Patrick Sosa (Altius)			0	2	0
Total:	6.3	Total:	6.1	SSA:	Richards	Visitors:	ASOS Land	1001.9			
Sponsoring Org:	HX - NHC/EMC			SEB:			Storm Number ID:		AL202023		
Program:	PRX						(ie: AL072012)				
Purpose:	TDR Mission + Altius + HRD Modules				MX:			TCPOD/WSPOD Mission		NOAA3 0520A TAMMY	
						(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x	Successful Altius release	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:	3 x CAT1; 2 x TS			
							*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:	2023102011
Flight Director(s):	Zawislak / Ludry
Mission:	Tasked/Operational
UWZ.d mean:	-0.01

Pressure Comparison		
	T/O	Land
Aircraft	1000.2	No good measurement
Tower	999.9	1001.9

	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	✗ 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:

I.3 for Pitch and Roll is not operational
 TTM.3 is not operational
 TRadU.1 has erroneous data throughout the flight and should not be used
 TDM.1 spikes between 1432 and 1434 UTC, but otherwise tracks well with TDM.2
 TDM.3 has erroneous data throughout the flight and should not be used
 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
 GPS.3 and GPS.4 drop out at 12:11:06 UTC for the remainder of the flight, impacts AltGPS, LatGPS, LonGPS for .3, 4; ALTref, LATref, LONref checked good, as set to GPS.1

AVAPS Drop Log

 Project: IS TAMMY

 Mission: 2

 Flight ID: 2023102012

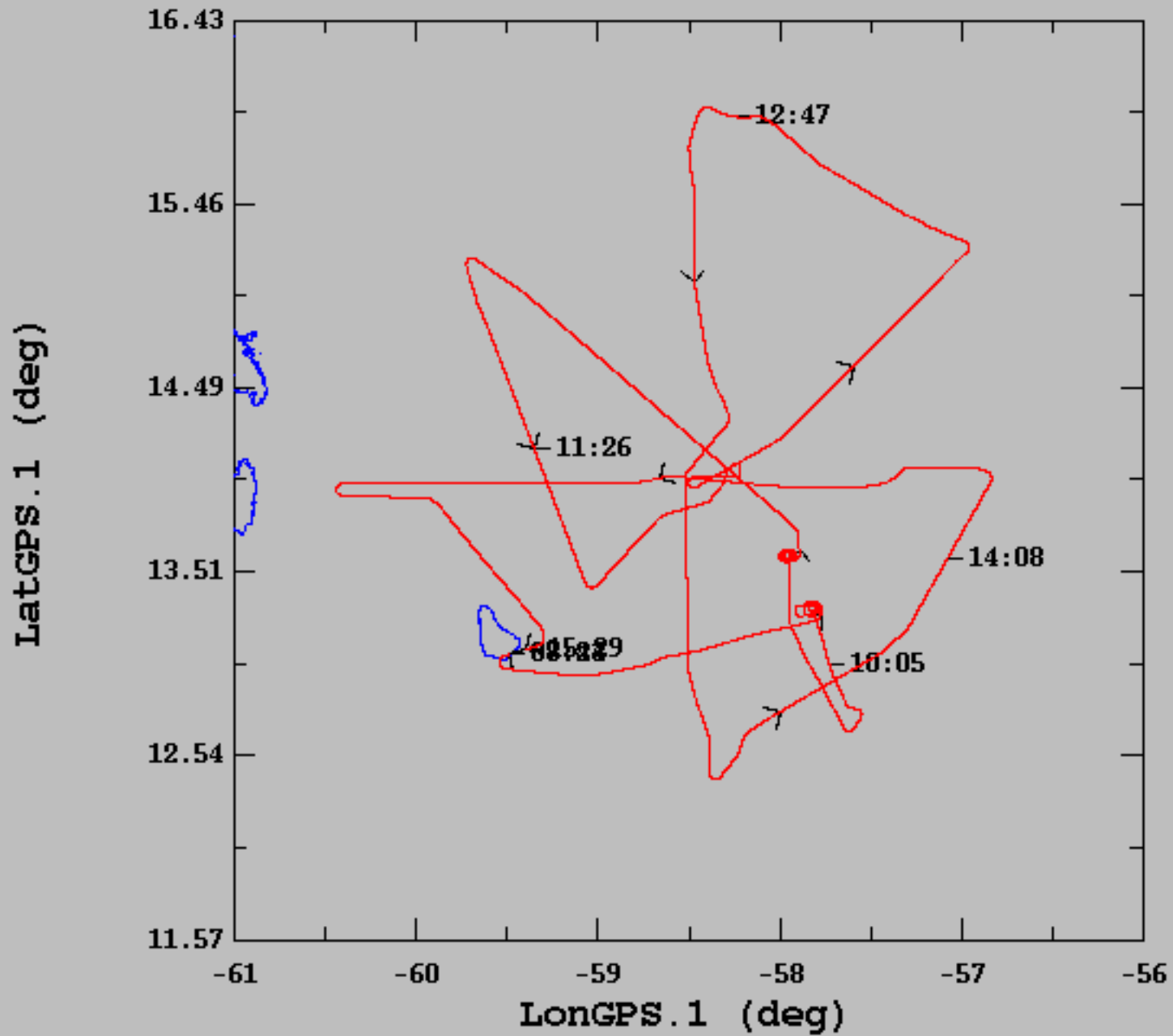
 Take Off: 0924 z , Landing: _____

 Flt Dir: JZ

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	210731141	1	-2.0	0954	AJP	IR/SST	Altius	✓
2	222220337	2	-1.6	1013	AJP	NWS	IP	✓
3	220570998	3	-1.5	1013	AJP	IR/SST	IP	✓
4	222230598	4	-1.3	1022	AJP	NWS	mid P.	✓
5	221750153	1	-0.5	1045		NWS	center	✓
8 7	222350044	2	-0.7	1058		NWS	MP	✓
7 6	220560519	3	-1.3	1045		IR/SST	center	✓
8	222070618	4	-1.5	1110	AJP	NWS	EP 1	✓
9 10	222230932	5	-1.2	1137	LW	NWS	IP2	✓
10 9	220460015	6	-1.2	1110	AJP	IR/SST	EP 1	✓
11	221840069	1	-1.5	1201	LW	NWS	CTR	✓
12	220610151	2	-1.4	1214	LW	NWS	MP BPS LOSS	✗ BAD
13	222220339	3	-1.4	1214	LW	NWS	MP B/A	✓
14	220620239	4	-1.2	1227	LW	NWS	EP2 LATE WINDS	✓
15	222070582	5	-1.4	1251	LW	NWS	IP3	✓
16	221950522	6	-0.9	1305	LW	NWS	MP	✓
17	222010118	7	-0.4	1310	LW	ONR	RMW	✓
18	221430154	8	-1.0	1313	LW	ONR	RMW	✓
19	222021241	1	-0.7	1320	LW	NWS	CTR	✓
20	222520399	2	-0.2	1335	LW	NWS	MP	✓
21	222050557	3	+0.4	1340	LW	NWS	EP3	✓
22	221950428	4	-1.0	1416	AJP	NWS	IP4	✓
23	221950427	5	-0.8	1427	AJP	NWS	MP1	✓
24	22235053	6	0	1439	AJP	ONR	RMW	✓
25	222340818	7	0	1440	AJP	NWS	center	✓
26	222120888	8	-1.1	1454	AJP	NWS	MP	✓
27	222230355	1	-1.1	1507	AJP	NWS	EP4	✓
28								
29								
30								
31								

10/20/2023, 07:23:12-15:29:39



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	13.75	0.80	12.42	15.97
— LonGPS.1 (deg), 1 s/sec	-58.67	0.84	-60.43	-56.83