



AXCTDs	0	0	0
UAS	0	0	0

Flight Director: KALEN / LUNDRY  
Phone #: 863-500-3962

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:	2023080711	FLT #:		AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	1100Z	CP(s):	Keith	Alaka	A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1830Z		Palmer	Aberson			25	0	25
Block Time		Flight Time		NAV:	Miller / Schaefer	ASOS Takeoff	BTs				
In:	18:46	Land:	18:42	FE(s):	Tyson		A/C Land	Good	Bad	Sent	
Out:	10:52	T/O:	10:59	FD(s):	Wysinger	ASOS Land		4	2	4	
Total:	7.9	Total:	7.7	SSA:	Richards		Visitors:				
Sponsoring Org:	HRD			SEB:		Storm Number ID:	N/A				
Program:	PHX									(ie: AL072012)	
Purpose:	MAGPIE			MX:		TCPOD/WSPOD Mission	WBWXA MAGPIE2				
						(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) - no mission impact.
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Flight ID:	2023080711
Flight Director(s):	Kalen / Lundry
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	-0.29

Pressure Comparison		
	T/O	Land
Aircraft	1009.3	-
Tower	1008.7	-

	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	x PDLAPHaref x PDBETAref x PQALPHaref x 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 x PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 x PitchRateI.3	✓ RollI.1 ✓ RollI.2 x RollI.3	✓ RollRateI.1 ✓ RollRateI.2 x RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 x TTM.3	✓ TDM.1 ✓ TDM.2 x TDM.3	✓ TRadD.1 ✓ TRadS.1 x TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d x 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)	X

NOTES:
<p>I.3 for Pitch and Roll is not operational.            TRadU.1 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.            TTM.3 and TDM.3 inop            PSM.2 inop for duration of flight            PSMref switched to PSM.1 at 16:11            PQM.1 trending ~15mb high            TDM.1 noted as reference, TDM.2 is the actual reference and is more representative.</p>

AVAPS Drop Log

Project: MAGPIE

Mission: 1

Flight ID: 20230807I1

Take Off: 1059Z

Landing: \_\_\_\_\_

Flt Dir: D. KALEN

Launcher S/N: 209

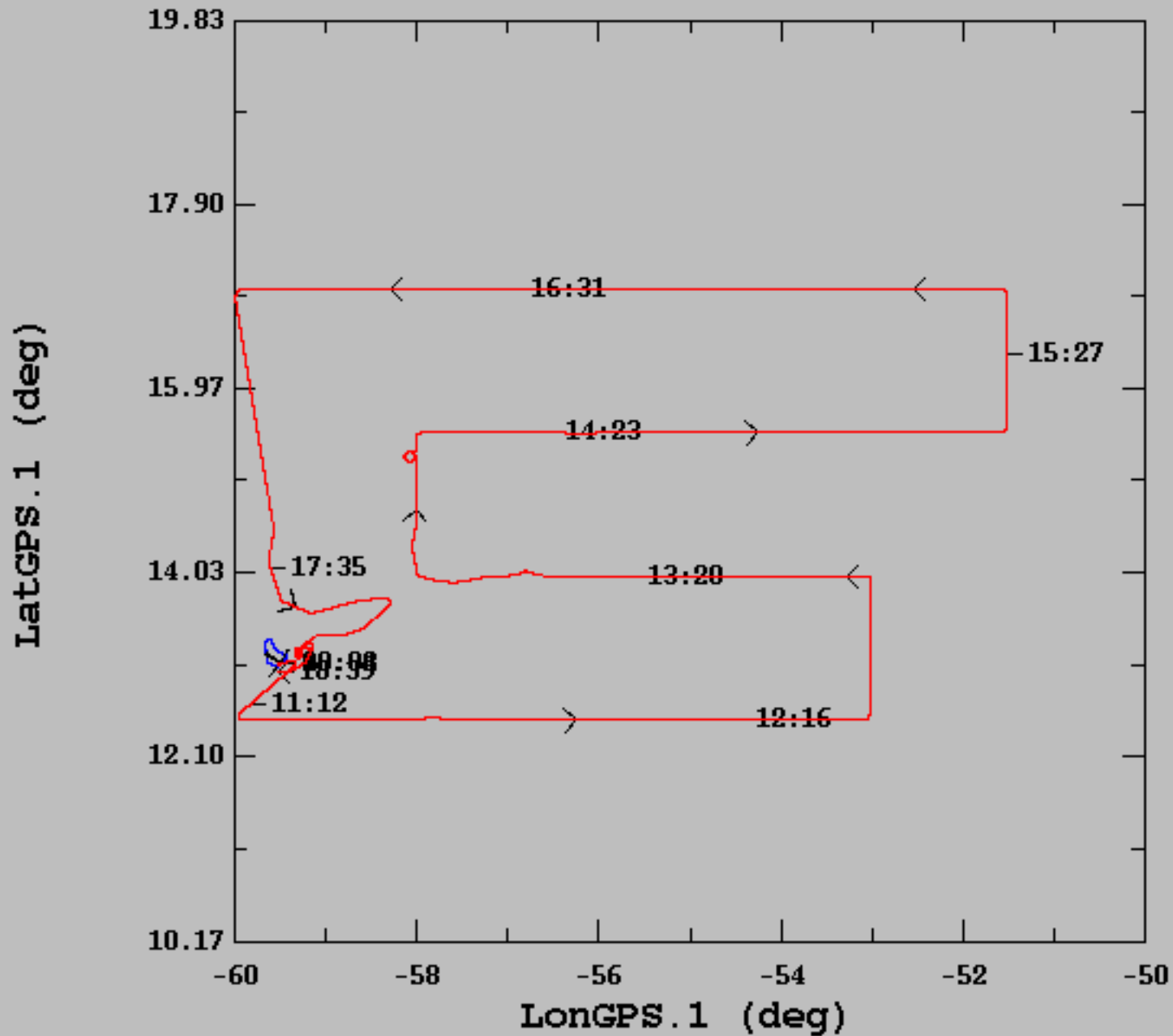
Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch TimeZ	Operator	Charge \$\$ To	Comments	Good ?
✓ 1	222231493	1	-0.5	1115	LW	HRD	<del>fast fall</del>	✓
✓ 2	222231489	2	-0.2	1114	LW	HRD		✓
✓ 3	222350057	3	-0.2	1134	LW	HRD	<del>HRD</del>	✓
✓ 4	222010611	4	-0.7	1154	LW	HRD		✓
✓ 5	221530530	1	-0.4	1213	LW	HRD		✓
BT ✓ 6	222070701	2	-0.5	1232	LW	HRD		✓
✓ 7	222070732	3	-0.2	1251	JL	HRD		✓
✓ 8	221540609	4	-0.2	1309	JL	HRD		✓
9	221350538	1	-0.7	1326	JL	HRD		✓
BT 10	221630786	2	-0.4	1344	JL	HRD		✓
11	223630784	3	-0.3	1408	JL	HRD		✓
12	221530783	4	-0.5	1426	JL	HRD		✓
13	223633329	1	-0.5	1444	JL	HRD		✓
14	223410001	2	-0.5	1501	JL	HRD		✓
BT 15	221531075	3	-0.2	1518	JL	HRD		✓
16	221631214	4	-0.4	1536	JL	HRD		✓
17	221530762	1	0	1553	JL	HRD		✓
18	223220372	2	-0.4	1611	JL	HRD		✓
19	223220395	3	-0.3	1628	JL	HRD		✓
BT 20	221350735	4	-0.3	1644	LW	HRD		✓
BT 21	221470110	1	0	1701	LW	HRD		✓
22	221340035	2	-0.5	1714	LW	HRD		✓
23	221530409	3	-0.5	1730	LW	HRD		✓
24	221430390	4	-0.1	1808	LW	<del>HRD</del>	ONR	✓
25	221220222	1	-0.4	1811	LW	<del>HRD</del>	ONR	✓
26								
27								
28								
29								
30								
31								

Combo

Combo

Ø pt. 25

08/07/2023, 09:04:29-18:39:35



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	14.33	1.57	12.49	17.00
— LonGPS.1 (deg), 1 s/sec	-57.02	2.65	-59.98	-51.50