



AXBTS	2	2	2
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen/Holmes  
Phone #: 8635003962

ACAT-4 Version = 7.4

## P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	2022090511
Flight Director(s):	Kalen/Holmes
Mission:	Tasked/Operational
UWZ.d mean:	

Pressure Comparison		
	T/O	Land
Aircraft		
Tower	1011.4 (KLAL)	1010.3 (TISX)

	Raw 1Hz Mean File Parameters				C File Parameters	
<input type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1 <input checked="" type="checkbox"/> AccAXI.2 <input checked="" type="checkbox"/> AccAXI-GPS.1 <input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI.1 <input checked="" type="checkbox"/> AccAYI.2 <input checked="" type="checkbox"/> AccAYI-GPS.1 <input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI.1 <input checked="" type="checkbox"/> AccAZI.2 <input checked="" type="checkbox"/> AccAZI-GPS.1 <input checked="" type="checkbox"/> AccAZI-GPS.2	<input checked="" type="checkbox"/> AccZfilter-GPS.1 <input checked="" type="checkbox"/> AccZfilter-GPS.2	<input checked="" type="checkbox"/> AccZref	
<input type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1 <input checked="" type="checkbox"/> AltGPS.2 <input checked="" type="checkbox"/> AltGPS.3 <input type="checkbox"/> AltGPS.4	<input checked="" type="checkbox"/> AltI-GPS.1 <input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltPaADDU.1 <input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.1 <input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTref <input checked="" type="checkbox"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d	<input checked="" type="checkbox"/> AltRA1.c <input checked="" type="checkbox"/> AltRA2.c
<input type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1 <input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.1 <input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.1 <input checked="" type="checkbox"/> GsZI-GPS.2			
<input type="checkbox"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1 <input checked="" type="checkbox"/> LatGPS.2 <input checked="" type="checkbox"/> LatGPS.3 <input type="checkbox"/> LatGPS.4	<input checked="" type="checkbox"/> LatI-GPS.1 <input checked="" type="checkbox"/> LatI-GPS.2	<input checked="" type="checkbox"/> LonGPS.1 <input checked="" type="checkbox"/> LonGPS.2 <input checked="" type="checkbox"/> LonGPS.3 <input type="checkbox"/> LonGPS.4	<input checked="" type="checkbox"/> LonI-GPS.1 <input checked="" type="checkbox"/> LonI-GPS.2	<input checked="" type="checkbox"/> LATref <input checked="" type="checkbox"/> LONref	
<input type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1 <input checked="" type="checkbox"/> PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input checked="" type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQALPHA.1 <input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.1 <input checked="" type="checkbox"/> PQM.2 <input checked="" type="checkbox"/> PQM.3 <input checked="" type="checkbox"/> PQM.4	<input checked="" type="checkbox"/> PSM.1 <input checked="" type="checkbox"/> PSM.2 <input checked="" type="checkbox"/> PTM.1	<input type="checkbox"/> PDALPHAref <input type="checkbox"/> PDBETAref <input type="checkbox"/> PQALPHAref <input type="checkbox"/> PQBETAref	<input checked="" type="checkbox"/> PQMref <input checked="" type="checkbox"/> PQ.c <input checked="" type="checkbox"/> PSMref <input checked="" type="checkbox"/> PS.c
<input type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> IasADDU.1	<input checked="" type="checkbox"/> IAS.d <input checked="" type="checkbox"/> TAS.d		
<input type="checkbox"/> Pitch / Roll	<input checked="" type="checkbox"/> PitchI.1 <input checked="" type="checkbox"/> PitchI.2 <input type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRatel.1 <input checked="" type="checkbox"/> PitchRatel.2 <input type="checkbox"/> PitchRatel.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <input type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRatel.1 <input checked="" type="checkbox"/> RollRatel.2 <input type="checkbox"/> RollRatel.3	<input checked="" type="checkbox"/> PITCHref <input checked="" type="checkbox"/> ROLLref	
<input type="checkbox"/> Temp / Dewpt	<input checked="" type="checkbox"/> TTM.1 <input checked="" type="checkbox"/> TTM.2 <input type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 <input type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <input type="checkbox"/> TRadU.1	<input checked="" type="checkbox"/> TD.c <input checked="" type="checkbox"/> TDMref <input checked="" type="checkbox"/> TTMref <input checked="" type="checkbox"/> TA.d		
<input type="checkbox"/> Misc. (Must check)					<input checked="" type="checkbox"/> UWZ.d <input type="checkbox"/> DPJ_WSZ <input type="checkbox"/> HUM	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> WD.d

FLID_Mission_Documents.pdf.	
<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC Checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) - AVAPS and FD if completed
<input checked="" type="checkbox"/>	Flight Track
<input checked="" type="checkbox"/>	Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<span style="color: red;">X</span>

NOTES:
<p>ALTref + ALTGA.d drop out twice briefly @ 1936 UTC and between 2238-2300 UTC</p> <p>Dropout in LatGPS.3, LonGPS.3, and UWZ from approx. 22:38 UTC - 23:00 UTC</p> <p>40 mb offset between PDAIpha.1 and PDAIpha.2</p> <p>PSM.2 difference between PSM.1</p> <p>TTM.2 is more sensitive than TTM.1 or TTMref</p> <p>UWZ median is abnormally high.</p>

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2022090511	FLT #:		AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2100Z	CP(s):	Copare	Aberson	A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:	0300Z		Wood	Chang			<b>26</b>	<b>1</b>	<b>26</b>
Block Time		Flight Time		NAV:	Utama	Jelenak	ASOS Takeoff		BTs		
In:	<b>0331Z</b>	Land:	<b>0326Z</b>	FE(s):	Darby	Sapp			Good	Bad	Sent
Out:	<b>1855Z</b>	T/O:	<b>1905Z</b>	FD(s):	Holmes		A/C Land		<b>2</b>	<b>0</b>	<b>2</b>
Total:	<b>8.6</b>	Total:	<b>8.4</b>	SSA:	Richards	Visitors:					
Sponsoring Org:	EMC			AVAPS:	Warnecke		Storm Number ID:		<b>AL062022</b>		
Program:	PRX			SEB:	Kregelka		(ie: AL072012)				
Purpose:	Tac Repo TISX / TDR			SEB:	Sans Souci		TCPOD/WSPOD Mission		<b>NOAA3 1106A EARL</b>		
				MX:	LaLonde		(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		<b>1</b>				
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X		<b>2</b>				
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X		<b>3</b>				
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X		<b>4</b>				
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X		<b>Pennies:</b>				

\*Highlighted items must be completed before departure.

Remarks:

### AVAPS Drop Log

Project: Hurr 22

Mission: TS Earl

Flight ID: 20220905I1

Take Off: 1905 Z

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

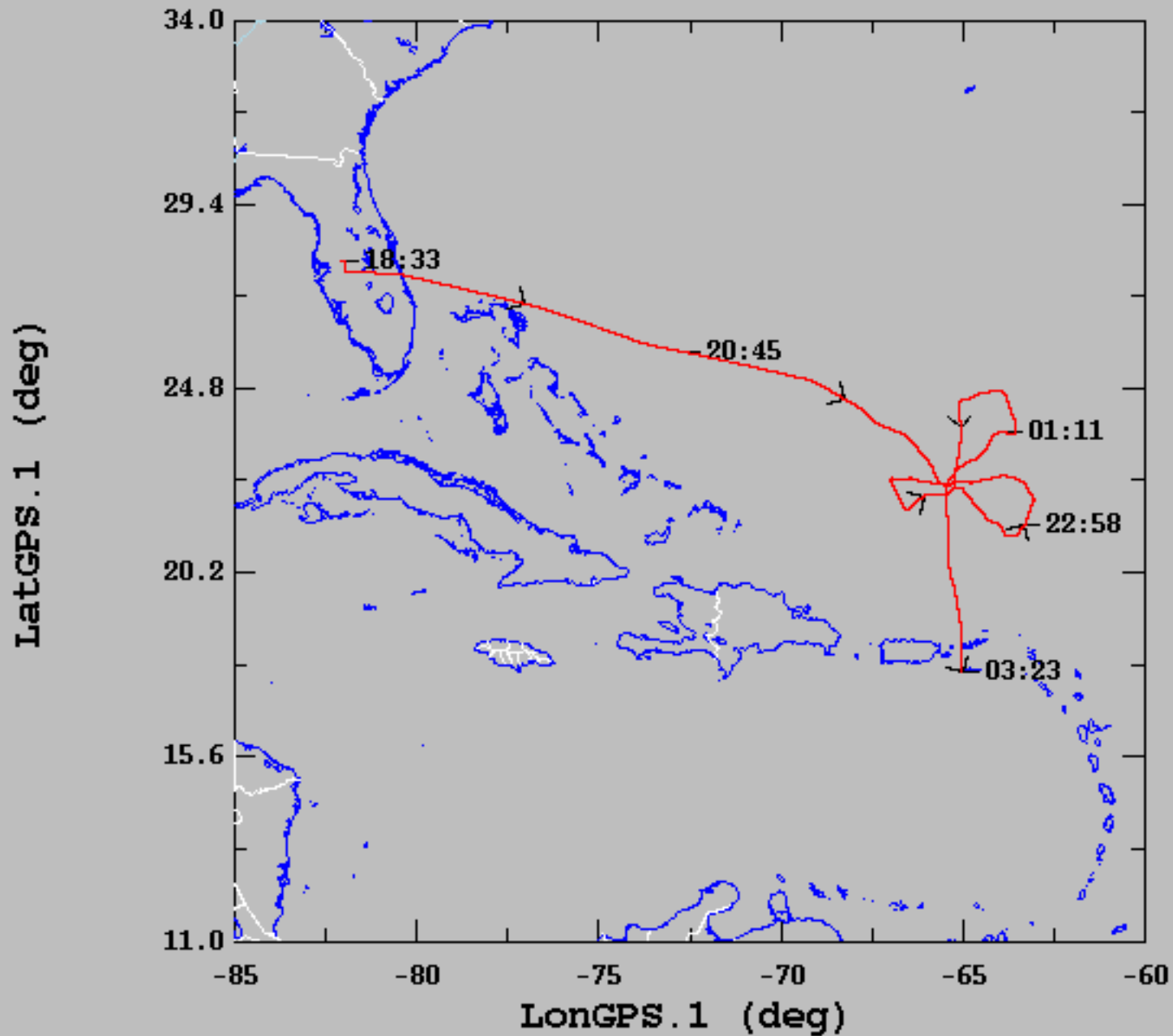
Flt Dir: Holmes/Kabon

Launcher S/N: 209

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	211240156	1	Ø	2155	IW	NWS	Combo 1	✓
2	213830564	2	Ø	2208				✓
3	204840410	3	Ø	2226			CTR 1	✓
4	204840663	4	Ø	2240				✓
5	204840569	5	-0.8	2248				✓
6	204950420	6	Ø	2311				✓
7	211111688	7	Ø	2324				✓
8	204940489	8	Ø	2353				✓
9	204820088	1	Ø	0004				✓
10	213830592	2	Ø	0019				✓
11	211930149	3	Ø	0029				✓
12	204820112	4	-0.9	0044			CTR 3	✓
13	211930790	5	Ø	0057				✓
14	204820117	6	-1.0	0113			GPS Issues	✗
15	212011211	7	Ø	0113			Backup / <sup>no winds</sup> <sub>low</sub>	✓
16	204850204	8	Ø	0146			END	✓
17	213830505	1	Ø	0157		NWS	mid #4	✓
18	211111698	2	Ø	0210		ONR	RMW	✓
19	204840559	3	Ø	0211		ONR	RMW	✓
20	211921027	4	Ø	0212		ONR	RMW	✓
21	204770431	5	Ø	0214		NWS	CTR 4	✓
22	204820158	6	Ø	0215		ONR	RMW	✓
23	211910391	7	Ø	0216		ONR	RMW	✓
24	213820075	8	Ø	0216		ONR	RMW	✓
25	213830052	1	Ø	0224		NWS	mid	✓
26	211850534	2	Ø	0240		NWS	END	✗
27	213830053	3	Ø	0241		NWS	Backup	✓
28								
29								
30								
31								

25/27

2022-09-05, 18:33:15-27:23:54



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	23.80	2.49	17.68	27.99
— LonGPS.1 (deg), 1 s/sec	-68.95	6.06	-82.03	-63.03