



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:	2023091511	FLT #:		AC:	COPARE	Scientists:	Pressure		Dropsondes		
From:	KILM	ETD:	0830Z	CP(s):	KEITH	J. ZHANG	A/C Takeoff		Good	Bad	Sent
To:	KILM	ETA:	1630Z		WOOD	DAHL			20	1	20
Block Time		Flight Time		NAV:	UTAMA	CIONE	ASOS Takeoff	BTs			
In:	<b>16:15</b>	Land:	<b>16:10</b>	FE(s):	TYSON	WADLER		A/C Land	Good	Bad	Sent
Out:	<b>8:39</b>	T/O:	<b>8:44</b>	FD(s):	TUFNELL	SOSA (ALTIUS)	ASOS Land		0	1 ALTIUS	0
Total:	<b>7.6</b>	Total:	<b>7.4</b>	SSA:	RICHARDS	OWENS (ALTIUS)		Visitors:			
Sponsoring Org:	EMC			SEB:			Storm Number ID:		AL132023		
Program:	PRX						(ie: AL072012)				
Purpose:	HX LEE TDR / UAS				MX:			TCPOD/WSPOD Mission		3513A LEE	
						(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	4	1047Z	963MB	
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 - CAT 1			

\*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:	2023091511
Flight Director(s):	KALEN / LUNDRY
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	-0.1

Pressure Comparison		
	T/O	Land
Aircraft	1014.9	-
Tower	1015.1	-

	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	✓ lasADDU.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 x HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:
<ul style="list-style-type: none"> <li>✓ Error Summary</li> <li>✓ Crew Manifest</li> <li>✓ QC Checklist</li> <li>✓ Dropwindsonde Log(s) - AVAPS and FD if completed</li> <li>✓ Flight Track</li> <li>✓ Miscellaneous FD Notes</li> </ul>

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<b>X</b>

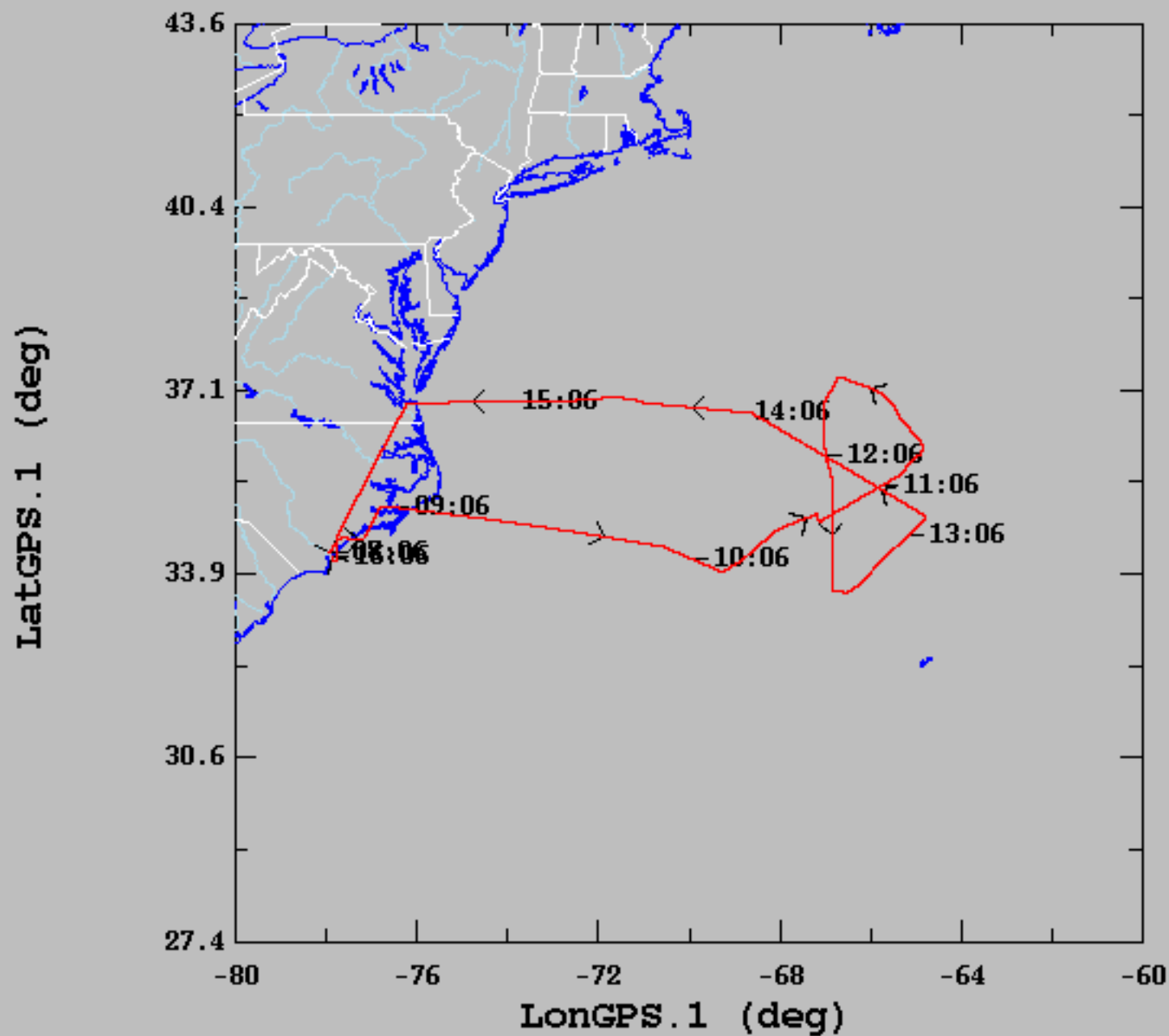
NOTES:
<p>I.3 for Pitch and Roll is not operational.</p> <p>TRadU.1 has erroneous data throughout the flight and should not be used.</p> <p>PDLAPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file.</p> <p>TTM.3 and TDM.3 inop</p> <p>PQM.1 trending ~5 mb high</p> <p>TDM.1 has an isolated spike at 11:55</p> <p>Humidity parameters suspect</p>

# AVAPS Drop Log

Project: Hurricane LEE Mission: \_\_\_\_\_ Flight ID: 9 T  
 Take Off: \_\_\_\_\_ Landing: \_\_\_\_\_ Flt Dir: QK Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	204620990	2	-1.3	1015	HK	NWS	IP1	✓
2	204420103	2	-1.2	1026	HK	NWS	MP	✓
3	211030688	3	-0.6	1033	HK	NWS	RMW	✓
4	222030228	4	-0.8	1044	HK	NWS	ALT IUS	✓
5	222010111	5	-0.9	1047	HK	NWS	CNTR	✓
6	222010076	6	-0.9	1057	HK	NWS	MP/RMW	✓
7	204420122	7	-1.6	1112	HK	NWS	EP1	✓
8	221750407	8	-0.6	1152	JW	NWS	IP#2 FF	✗
9	222010105	1	-0.8	1154	JW	NWS	Backup to 8	✓
10	222010830	2	-0.2	1207	JW	NWS	MP#3	✓
11	222010092	3	0.0	1211	JW	NWS	RM	✓
12	222010833	4	-0.3	1216	JW	NWS	CTR#	✓
13	221810469	5	-2.9	1219	JW	NWS	Rmw	✓
14	222010815	6	0	1230	JW	NWS	MP#4	✓
15	222021253	7	0	1243	JW	NWS	EP#2	✓
16	204031032	8	-1.4	1312	JW	NWS	IP#3	✓
17	222010843	1	-1.6	1325	JW	NWS	MP/RMW	✓
18	222050549	2	-1.7	1335	JW	NWS	CTR#3	✓
19	204310475	3	-1.5	1343	JW	NWS	Rmw	✓
20	221750226	4	-1.9	1347	JW	NWS	MP#6	✓
21	221750152	5	-1.5	1400	JW	NWS	EP#3	✓
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

09/15/2023, 07:06:22-16:06:46



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	35.29	1.08	33.55	37.36
— LonGPS.1 (deg), 1 s/sec	-71.51	4.82	-77.91	-64.78