

Phone #: 863-500-3898

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2020080111	FLT #:		AC:	Rossi	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0430L	CP(s):	Legidakes		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1230L		Doremus				19	4	15
Block Time		Flight Time		NAV:	Freeman		ASOS Takeoff		BTs		
In:	15:44	Land:	15:38	FE(s):	Sanchez				Good	Bad	Sent
Out:	8:21	T/O:	8:30	FD(s):	Heystek		A/C Land		0	0	0
Total:	7.40	Total:	7.10	SSA:	McAlister				Visitors:	ASOS Land	
Sponsoring Org:	AOC			AVAPS:	Richards		Storm Number ID:		AL092020		
Program:	PRX			SEB:			(ie: AL072012)				
Purpose:	FIX			MX:			TCPOD/WSPOD Mission		NOAA3 1209A ISAIAS		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X	4 HURR PENNIES	1				
SCIENCE MISSION WITHIN BDRY LAYER					x		2				
LACK OF PRECIPITATION					x		3				
RELATIVE HUMIDITY ≥ 80%				X			4				
LARGE AIR-SEA TEMP GRADIENT					X						
HIGH SURFACE WINDS				x							
LONG FETCH / DURATION OF SFC WND					X						
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X		Pennies:				

*Highlighted items must be completed before departure.

Remarks:	

P-3 QC Checklist

Flight ID:	2020080111
Flight Director(s):	Lundry
UWZ.d mean:	0.06

Pressure Comparison		
	T/O	Land
Aircraft	1011.3	1013.1
Tower	n/a	1011.7

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> GSXref <input checked="" type="checkbox"/> GSYref <input checked="" type="checkbox"/> GSZref	
<input checked="" 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 checked="" 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 checked="" type="checkbox"/> PDLAPHaref <input checked="" type="checkbox"/> PDBETAref <input checked="" type="checkbox"/> PQALPHAref <input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Misc. (Must check)					<input checked="" type="checkbox"/> UWZ.d <input checked="" type="checkbox"/> DPJ_WSZ <input checked="" 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"/>	n/a Miscellaneous FD Notes

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

NOTES:

TDM.2 is set as reference since more representative of environment than TDM.1 and TDM.3 however lots of erroneous spikes, also causing HUM to have values not representative of environment

AOC GPS Dropwindsonde Log

Flight ID	2020080111	ASPEN Operator/Flight Director(s)	Zawislak (ASPEN) / Lundry (FD) / McAlister (AVAPS)									
Mission ID	1209A	Storm Name/Track	ISAIAS									
Sonde #	Ob#	Launch Time HHMMSS(Z)	Sonde ID (last 5)	Ch #	Lat	Lon	Prominent Wx Cond	SFC Wind (dir/spd)	SFC Prs (mb)	Comments/Issues/QC/ASPE N Edits	KWBC #	Sonde Issues?
1	2	095032	30936	1	22.88	-78.0724		301 / 23	1008.2	IP SW	011006	
2	3	100102	20265	2	23.448	-77.5249		308 / 23	1005.4	MP SW	011027	
3	4	101056	20281	3	24.0836	-77.2175		254 / 1	986.7	CENTER #1	011035	ASPEN: Late launch detect
4	6	102552	41095	4	24.904	-76.5235		84 / 46	1008.9	MP NE; removed post-splash	011101	ASPEN: Late launch detect, post-splash detect
5	5	103841	20546	1	25.5398	-75.8323		98 / 26	1012.4	EP NE; removed post-splash	011108	ASPEN: Post-splash detect
6	7	111505	10466	2	25.4634	-78.769		63 / 30	1011.7	IP NW; removed post-splash	011137	ASPEN: Post-splash detect
7	8	113707	40926	3	24.4926	-77.6804		39 / 28	999.1	MP NW; removed post-splash	011200	ASPEN: Post-splash detect
8	10	115638	21131	4	23.6312	-76.7414		189 / 34	1007.8	MP SE	011216	
9	9	121026	21116	1	23.0085	-76.0724		187 / 20	1010.3	EP SE; removed post-splash	011222	Post-splash (ASPEN did not detect)
10	11	123254	50956	2	24.4503	-75.7577		118 / 30	1011.3	IP E; removed post-splash	011247	ASPEN: Post-splash detect
11	12	124555	41040	3	24.4145	-76.7508		123 / 30	1008.5	MP E; removed post-splash	011304	ASPEN: Post-splash detect
12	13	131305	50959	4	24.2799	-78.6502		3 / 26	1008.3	MP W; removed post-splash	011330	ASPEN: Post-splash detect
13	not sent	NO DFILE (scheduled drop EP W)	-	1	-	-		-	-	EP W	not sent	NO LAUNCH DETECT
14	not sent	132701 (Backup drop EP W)	21296	2	24.2223	-79.6456		-	1010.8	s bad, PTH good -- could actually	not sent	ASPEN: unable to dynamically adjust winds, but should have been detected as Fast Fail?
15	15	135813	20544	3	22.836	-77.8838		232 / 16	1009.4	IP S	011412	
16	16	141126	50141	4	23.8002	-77.8837		250 / 31	1005.6	MP S	011422	
17	not sent	143525 (Scheduled MP N)	30532	1	25.4591	-77.9217		69 / 44	1009.7	MP N	not sent	GPS weak, few sats for much of sonde profile, but could actually be useable
18	not sent	NO DFILE (Backup to MP N)	-	2	-	-		-	-	MP N (Backup)	not sent	NO LAUNCH DETECT
19	17	144810	50952	3	26.3618	-77.9692		84 / 13	1011.5	EP N	011500	

AVAPS Drop Log

Project: 2020 Season

Mission: Hurricane Isai's

Flight ID: 20200801I1

Take Off: 0830Z

Landing: _____

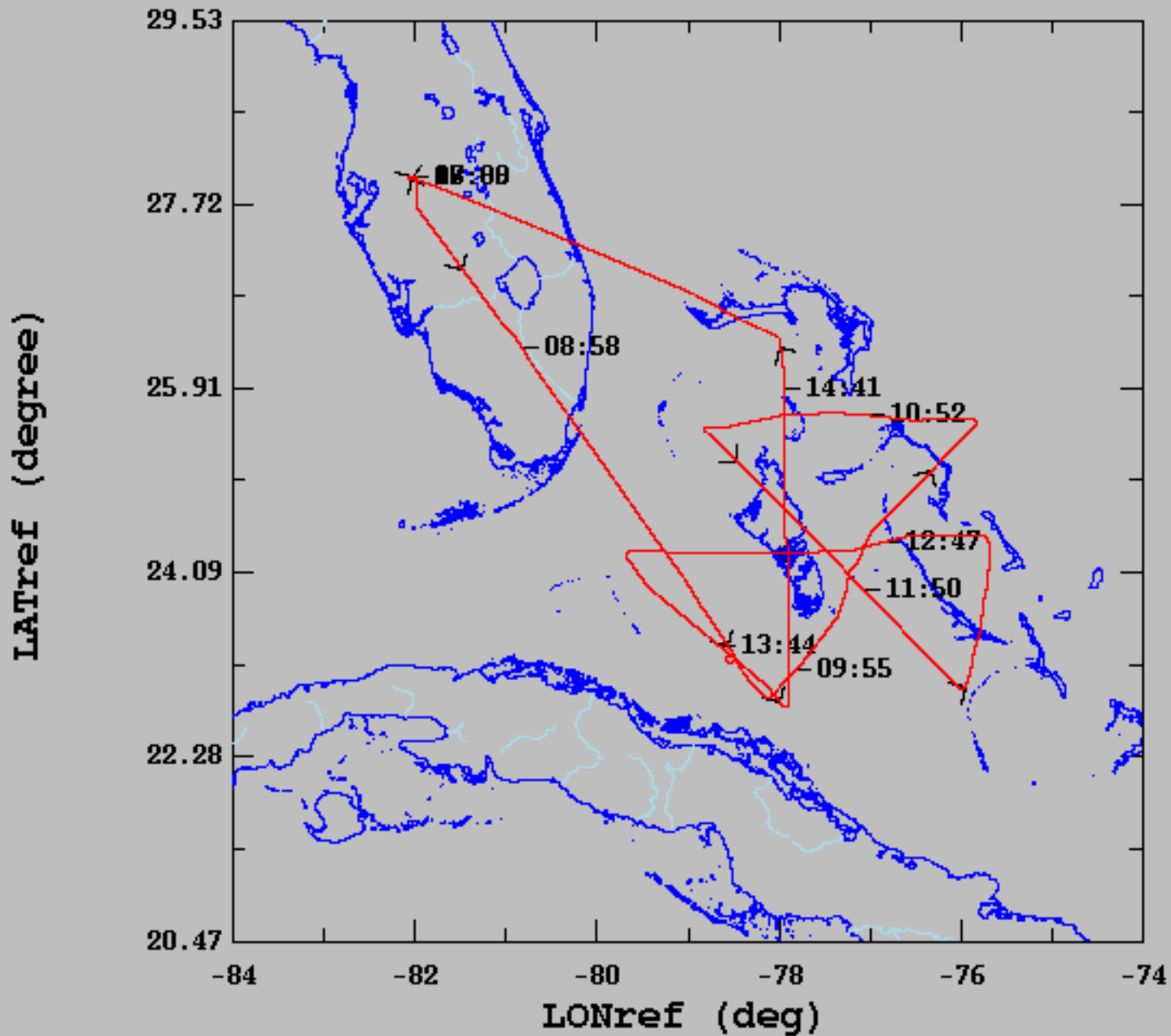
Flt Dir: A Laundry

Launcher S/N: 2

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	193430936	1	-0.8	0950	MAC	NHC	IP1	✓
2	193420265	2	-0.4	1001			1 st Mid in	✓
3	193420281	3	-0.4	1010			1 st Center	✓
4	194941095	4	-0.8	1025			1 st Mid out	✓
5	192520546	1	0	1038			1 st End PT	✓
6	195010446	2	-0.3	1115			2 nd IP	✓
7	194940926	3	-0.6	1137			2 nd Mid in	✓
8	192521131	4	-0.4	1156			2 nd Mid out	✓
9	192521116	1	0	1210			2 nd End point	✓
10	192450956	2	-0.1	1232			3 rd IP	✓
11	194941040	3	-0.7	1245			3 rd Mid in	✓
12	192450959	4	-0.2	1313			3 rd mid out	✓
13	1925020023	1	-0.4	_____			No launch detect	✗
14	192521296	2	-0.4	1327			3 rd end point	✓
15	192520544	3	0	1358			4 th IP	✓
16	192450141	4	-0.2	1411			4 th Mid in	✓
17	192530532	1	-0.3	1435			4 th mid out/Bad GPS	✗
18	192521111	2	-0.3	_____			4 th mid out/NO launch	✗
19	192450952	3	-0.4	1448			4 th end point	✓
20		4						
21		1						
22		2						
23		3						
24		4						
25								
26								
27								
28								
29								
30								
31								

20-59
14-19

08/01/2020, 07:03:33-15:39:12



	mean	sigma	min	max
— LATref (degree), 1 s/sec	25.41	1.71	22.77	27.99
— LONref (deg), 1 s/sec	-78.91	2.03	-82.07	-75.68