

Flight Director: Parrish / Kalen
Phone #: 863-500-3962

ACAT-4 Version = 7.3

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20200801N1	FLT #:		AC:	Waddington	Scientists:		Pressure		Dropsondes		
From:	KLAL	ETD:	0530Z	CP(s):	Norman			A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	8	NAV:				ASOS Takeoff		35	3	35
Block Time		Flight Time		FE(s):				ASOS Land		BTs		
In:	1251	Land:	1245	FD(s):	Parrish			A/C Land		Good	Bad	Sent
Out:	0513	T/O:	0520	FD(s):	Kalen			ASOS Land		-	-	-
Total:	0.0 7.6	Total:	0.0 7.4	SSA:	Miller	Visitors:		Storm Number ID:				
Sponsoring Org:	NHC			AVAPS:	Patel			(ie: AL072012)				
Program:	Surveillance			SEB:				TCPOD/WSPOD Mission				
Purpose:	H. Isaias			MX:				(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					✓			1				
SCIENCE MISSION WITHIN BDRY LAYER					✓			2				
LACK OF PRECIPITATION				✓				3				
RELATIVE HUMIDITY ≥ 80%					✓			4				
LARGE AIR-SEA TEMP GRADIENT					✓							
HIGH SURFACE WINDS				✓								
LONG FETCH / DURATION OF SFC WND				✓								
SEA SALT ACCRETION FORECAST					✓							
SEA SALT ACCRETION OBSERVED					✓			Pennies:				
*Highlighted items must be completed before departure.												
Remarks:												

G-IV QC Checklist

Flight ID:	20200801N1
Flight Director(s)	Parrish / Kalen
UWZ.d mean:	0.1

Pressure Comparison		
	T/O	Land
Aircraft	1011.1	1011.6
Tower	1011.9	1011.6

	Raw 1Hz Mean File Parameters					C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1	<input checked="" type="checkbox"/> AccAYI.1	<input checked="" type="checkbox"/> AccAZI.1			<input checked="" type="checkbox"/> AccZref	
	<input checked="" type="checkbox"/> AccAXI.2	<input checked="" type="checkbox"/> AccAYI.2	<input checked="" type="checkbox"/> AccAZI.2				
	<input checked="" type="checkbox"/> AccAXI.3	<input checked="" type="checkbox"/> AccAYI.3	<input checked="" type="checkbox"/> AccAZI.3				
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1	<input checked="" type="checkbox"/> AltI.1	<input checked="" type="checkbox"/> AltPaADDU.1	<input checked="" type="checkbox"/> AltBCADDU.1		<input checked="" type="checkbox"/> ALTref	
	<input checked="" type="checkbox"/> AltGPS.2	<input checked="" type="checkbox"/> AltI.2	<input checked="" type="checkbox"/> AltPaADDU.2	<input checked="" type="checkbox"/> AltBCADDU.2		<input checked="" type="checkbox"/> ALTPA.d	
	<input checked="" type="checkbox"/> AltGPS.3	<input checked="" type="checkbox"/> AltI.3	<input checked="" type="checkbox"/> AltRA.1			<input checked="" type="checkbox"/> ALTGA.d	
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI.1	<input checked="" type="checkbox"/> GsYI.1	<input checked="" type="checkbox"/> GsZI.1	<input checked="" type="checkbox"/> GsGPS.1		<input checked="" type="checkbox"/> GSXref	
	<input checked="" type="checkbox"/> GsXI.2	<input checked="" type="checkbox"/> GsYI.2	<input checked="" type="checkbox"/> GsZI.2	<input checked="" type="checkbox"/> GsGPS.2		<input checked="" type="checkbox"/> GSYref	
	<input checked="" type="checkbox"/> GsXI.3	<input checked="" type="checkbox"/> GsYI.3	<input checked="" type="checkbox"/> GsZI.3	<input type="checkbox"/> GsGPS.3		<input checked="" type="checkbox"/> GSZref	
	<input checked="" type="checkbox"/> GsXGPS.1	<input checked="" type="checkbox"/> GsYGPS.1	<input checked="" type="checkbox"/> GsZGPS.1				
	<input checked="" type="checkbox"/> GsXGPS.2	<input checked="" type="checkbox"/> GsYGPS.2	<input checked="" type="checkbox"/> GsZGPS.2				
	<input type="checkbox"/> GsXGPS.3	<input type="checkbox"/> GsYGPS.3	<input type="checkbox"/> GsZGPS.3				
<input checked="" type="checkbox"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1	<input checked="" type="checkbox"/> LatI.1	<input checked="" type="checkbox"/> LongGPS.1	<input checked="" type="checkbox"/> LonI.1		<input checked="" type="checkbox"/> LATref	
	<input checked="" type="checkbox"/> LatGPS.2	<input checked="" type="checkbox"/> LatI.2	<input checked="" type="checkbox"/> LongGPS.2	<input checked="" type="checkbox"/> LonI.2		<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LongGPS.3				
<input checked="" type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1	<input checked="" type="checkbox"/> PQALPHA.1	<input checked="" type="checkbox"/> PQM.1	<input checked="" type="checkbox"/> PSM.1		<input checked="" type="checkbox"/> PDLAPHaref	<input checked="" type="checkbox"/> PQMref
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQALPHA.2	<input checked="" type="checkbox"/> PQM.2	<input checked="" type="checkbox"/> PSM.2		<input checked="" type="checkbox"/> PDBETAref	<input checked="" type="checkbox"/> PQ.c
	<input checked="" type="checkbox"/> PDBETA.1	<input checked="" type="checkbox"/> PQBETA.1				<input checked="" type="checkbox"/> PQALPHaref	<input checked="" type="checkbox"/> PSMref
	<input checked="" type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQBETA.2				<input checked="" type="checkbox"/> PQBETAref	<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"/> IAS.d	<input checked="" type="checkbox"/> TAS.d
<input checked="" type="checkbox"/> Pitch / Roll	<input checked="" type="checkbox"/> PitchI.1	<input checked="" type="checkbox"/> PitchRateI.1	<input checked="" type="checkbox"/> Rolli.1	<input checked="" type="checkbox"/> RollRateI.1		<input checked="" type="checkbox"/> PITCHref	
	<input checked="" type="checkbox"/> PitchI.2	<input checked="" type="checkbox"/> PitchRateI.2	<input checked="" type="checkbox"/> Rolli.2	<input checked="" type="checkbox"/> RollRateI.2		<input checked="" type="checkbox"/> ROLLref	
	<input checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> Rolli.3	<input checked="" type="checkbox"/> RollRateI.3			

<input checked="" type="checkbox"/> Temp / Dewpt	<input checked="" type="checkbox"/> TTM.1 <input type="checkbox"/> TTM.2 <input checked="" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TTM.4	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2	<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"/>	Miscellaneous FD Notes

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

NOTES:
<p>ALTRa.1 intermittent between 05:50 - 06:22</p> <p>TTM.3 trending ~ 2 deg C warmer for duration of flight</p> <p>TTM.4 has mynute oscillations for duration of flight</p> <p>TDM.1 Unrepresentative for duration of flight</p> <p>Moisture quantities remain suspect</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20200801

ASPEN Operator/Flight Director(s): Kalou / Parrish

Mission ID: NOAA9 1109A

Storm Name/Track: ISA IAS

PG of

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	054747	20029	1	30.1	-77.69		1015.1		010607	N
2	2	060249	30182	2	31.5	-78.18		1015.9		010621	N
3	3	061545	30022	3	30.09	-78.19		1016.0		010634	N
4	4	062722	30717	4	29.79	-78.20		1016.0		010655	N
5	5	064158	50960	1	27.15	-78.50		1015.5		010705	N
6	6	065404	50153	2	25.84	-78.53		1011.5		010715	N
7	7	070209	30162	3	25.78	-77.42		1010.7		010721	N
8	8	071605	40867	4	27.50	-77.09		1013.6		010733	N
9	9	072619	21056	1	28.80	-76.70		1015.7		010747	N
10	10	073613	21106	2	30.10	-76.70		1015.7		010755	N
11	11	074646	30223	3	31.47	-76.61		1014.3		010809	N
12	12	075550	21112	4	31.50	-75.32		1015.8		010821	N
13	-	081142	50951	1	-	-		-	PTH All Bad	-	Y
14	13	091237	30161	2	29.64	-75.00		1016.0		010833	N
15	14	082405	30183	3	29.48	-73.34		1016.2		010848	N
16	15	083552	10626	4	28.18	-73.74		1014.9		010857	N
17	16	094712	30154	1	28.01	-75.13		1015.3	No Sfc Wind	010910	N
18	17	085949	41046	2	26.71	-75.50		1014.0	No Sfc Wind / Post Splash Data	010921	Y
19	18	091344	30176	3	25.20	-76.24		1010.3	RH was Super Saturated	010935	N
20	19	092337	30024	4	24.46	-75.50		1008.5		010943	N
21	20	093058	30155	1	24.02	-76.29		1005.6	Lost Winds @ 968 mb	010950	Y
22	21	093934	21130	2	23.26	-75.64		1009.2		010959	N
23	22	094657	40296	3	22.55	-76.16		1009.3		011011	N
24	23	095514	40299	4	23.05	-77.07		1007.5		011017	N
25	24	10 01 43	30139	1	22.67	-77.77		1008.4		011024	N
26	25	10 11 56	20519	2	23.09	-79.03		1008.8		011032	N
27	26	10 21 50	50615	3	24.26	-79.28		1010.3		11043	N
28	27	103044	40287	4	24.00	-81.11		1012.1		011059	N
29	28	104737	41033	1	24.09	-82.48		1010.9		011111	N
30	29	105838	10624	2	25.40	-82.71		1012.3		011121	N
31	-	111130	20112	3	-	-		-	Late Launch Detect	-	Y
32	30	111028	20008	4	25.32	-84.06		1013.8		011132	N
33	-	112136	30147	1	-	-		-	PTH All Bad	-	Y
34	31	112259	50950	2	24.02	-84.34		1012.1		011144	N
35	32	113233	21045	3	24.09	-85.49		1012.2		011153	N
36	33	114343	30023	4	25.48	-85.60		1012.5		011205	N
37	34	115448	30177	1	26.87	-85.51		1013.0		011213	N
38	35	120400	20425	2	27.00	-84.22		1014.0	Last Sonde	011224	N

ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

COMMENTS:

Obs
Xmitted

Obs
Missed

of sondes
launched

of bad
sondes

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: ISAIAS

National Hurricane Center: July 30, 2020 3:12:46 PM

Aircraft: N49RF

Proposed takeoff: 01/0530Z

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DROP LOCATIONS

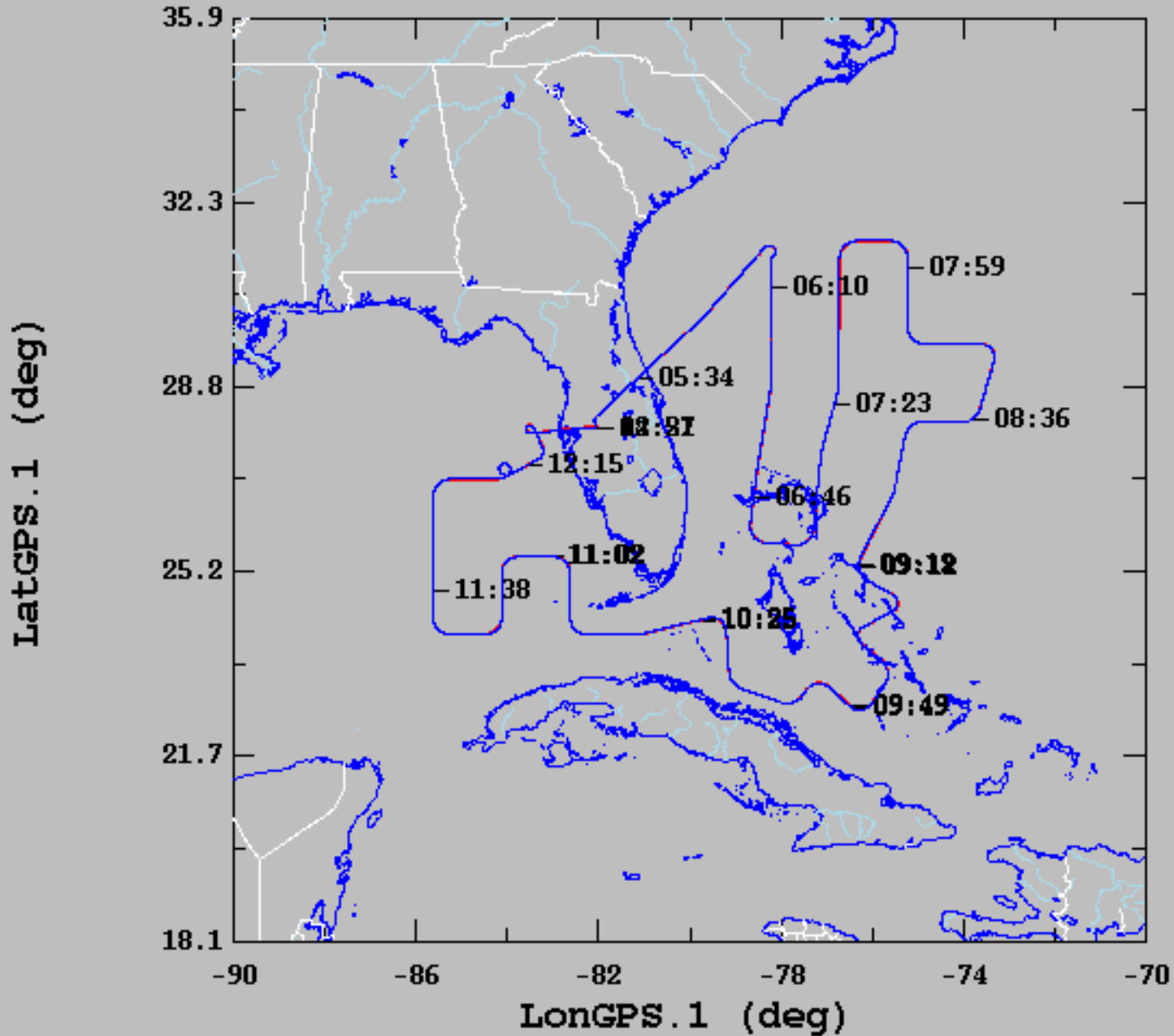
#	LAT (d m)	LON (d m)	TIME (h:mm)	
1	30 06	-79 42	054747	0:30
2	31 36	-78 12	060248	0:46
3	30 06	-78 12	061545	0:59
4	28 48	-78 12	062722	1:09
5	27 12	-78 30	064158	1:22
6	25 48	-78 42	065404	1:34
7	25 42	-77 18	070209	1:45
8	27 30	-77 06	071605	1:60
9	28 48	-76 42	072619	2:11
10	30 06	-76 42	073613	2:21
11	31 36	-76 42	074646	2:34
12	31 36	-75 12	075550	2:45
13	29 36	-75 12	081143 ch 237	3:01
14	29 36	-73 12	082405	3:17
15	28 06	-73 42	083552	3:30
16	28 06	-75 12	084712	3:41
17	26 45	-75 30	085849	3:52
18	25 12	-76 24	091344	4:07
19	24 36	-75 12	092337	4:17
20	24 00	-76 30	093058	4:29
21	23 18	-75 30	093934 ch 2	4:38
22	22 24	-76 12	094657	4:48
23	23 12	-77 12	095514 ch 4	4:58
24	22 25 36	-77 45	100143	5:05
25	23 02	-79 06	101156	5:17
26	24 24	-79 12	102150	5:28
27	24 00	-81 06	103644 ch 4	5:43
28	24 00	-82 36	104737	5:55
29	25 30	-82 36	105838	6:07
30	25 30	-84 06	105 <i>Bad</i>	6:19
31	24 00	-84 06	112136 <i>NO DATA</i>	6:31
32	24 00	-85 36	113233	6:43
33	25 30	-85 36	114343 ch 4	6:55
34	27 00	-85 36	115448 ch 1	7:08
35	27 00	-84 06	120400 ch 2	7:19

CPDCC

-CIT1 No ATU *Bad*
CIT2 Backup

Bad Fuel Tank Backup 110228 *Bad*
No launch direct
→ 112259

2020-08-01, 04:21:07-12:51:28



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	27.11	2.40	22.54	31.60
— LongGPS.1 (deg), 1 s/sec	-79.50	3.40	-85.60	-73.30
— LatI.1 (deg), 1 s/sec	27.11	2.39	22.56	31.60
— LonI.1 (deg), 1 s/sec	-79.50	3.41	-85.61	-73.30