



ACAT-4 Version = 7.4

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210925N1	FLT #:		AC:	Norman	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:		CP(s):	DeTriquet		A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:		NAV:					<b>29</b>	<b>3</b>	<b>29</b>
Block Time		Flight Time		FE(s):			ASOS Takeoff		BTs		
In:	<b>0153z</b>	Land:	<b>0150z</b>	FD(s):	Kalen		A/C Land		Good	Bad	Sent
Out:	<b>1816z</b>	T/O:	<b>1824z</b>	FD(s):	Flaherty		ASOS Land				
Total:	<b>7.6</b>	Total:	<b>7.4</b>	SSA:	Defeo	Visitors:					
Sponsoring Org:		HRD / ONR		AVAPS:	Patel		Storm Number ID:		<b>AL182012</b>		
Program:		PHX		SEB:			(ie: AL072012)				
Purpose:		Hurricane Research		MX:			TCPOD/WSPOD Mission		<b>WA18A SAM</b>		
							(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:

## G-IV QC Checklist

<b>Flight ID:</b>	<b>20210925N1</b>
<b>Flight Director(s)</b>	<b>Kalen / Flaherty</b>
<b>UWZ.d mean:</b>	<b>0.04</b>

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1014.5</b>	<b>1015.7</b>
<b>Tower</b>	<b>1012.1</b>	<b>1013.7</b>

	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"/> AltBCADDU.2	<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"/> 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"/> GsGPS.2	<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"/> LonGPS.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"/> LonGPS.2	<input checked="" type="checkbox"/> LonI.2		<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LonGPS.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 checked="" type="checkbox"/> TTM.4	<input checked="" type="checkbox"/> TDM.1			<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref
	<input type="checkbox"/> TTM.2		<input checked="" type="checkbox"/> TDM.2			<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d
	<input checked="" type="checkbox"/> TTM.3						
<input checked="" type="checkbox"/> Misc. (Must check)						<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
						<input checked="" type="checkbox"/> DPJ_WSZ	<input checked="" type="checkbox"/> WD.d
						<input checked="" type="checkbox"/> HUM	

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)	<input checked="" type="checkbox"/>

### NOTES:

.1 and .2 GPS parameters data "stair step"  
 TTM.3 oscillates  
 TDM.1 unrepresentative

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20210925 N1

ASPEN Operator/Flight Director(s): FLASHCITY / KALEW

Mission ID: WA18A SAM

Storm Name/Track: HURR SAM RESEARCH

PG     of    

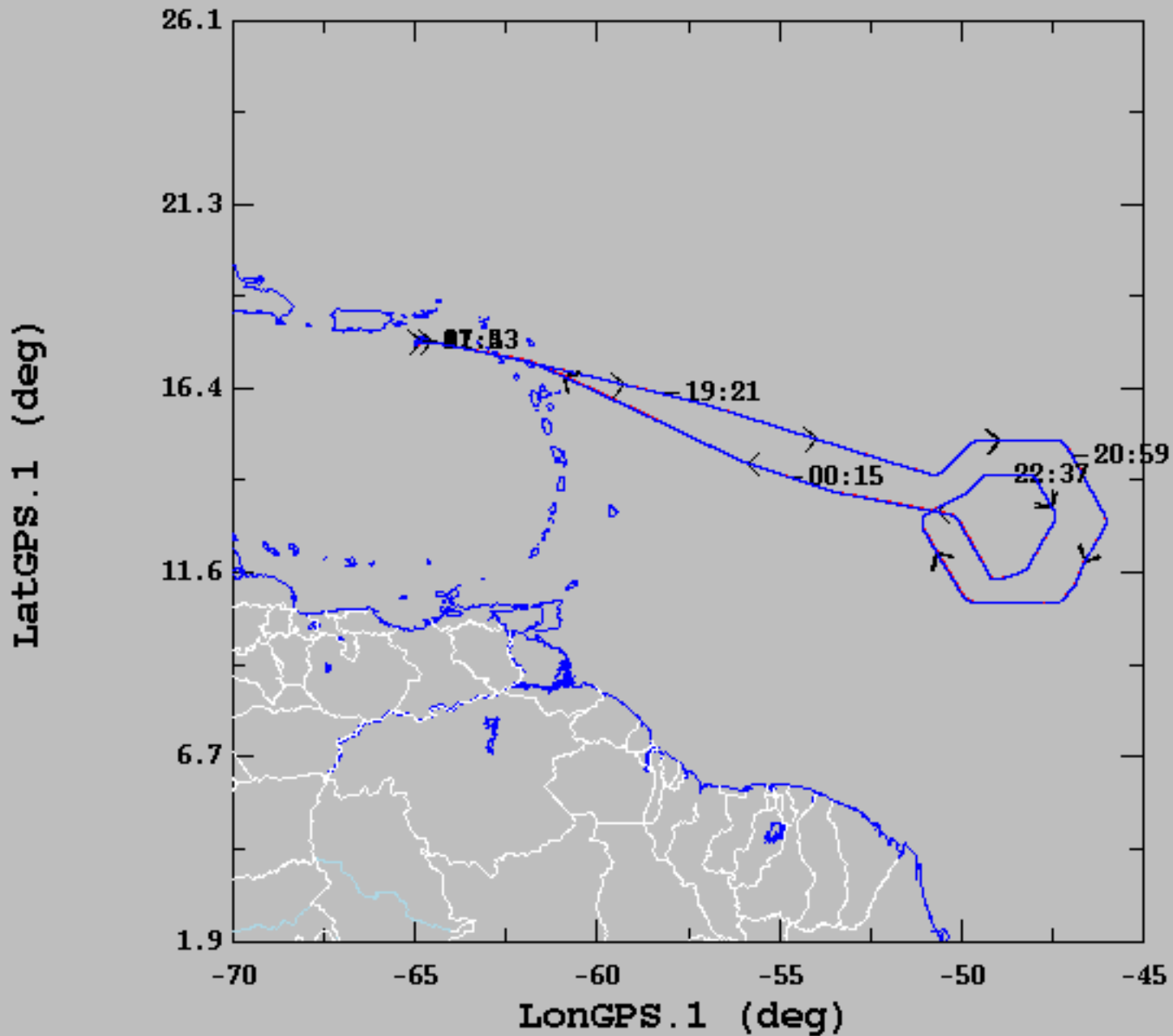
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	1931	30339	1	16	-57	SCT BLW	1013.7		1959	
2				2					NO PTH		Y
3	2	19054	20377	3	15.2	-54.3	SCT BLW	1014.2	BACK UP	2023	
4	3	2014	20372	4	14.5	-52	OVC BLW	1013.2		2035	
5	4	2025	30701	1	14.1	-50.6	"	1012.2		2049	
6	5	2036	20004	2	15.0	-49.	"	1011.8		2117	
7	6	2046	50540	3	15.0	-48.4	"	1012.5		2120	
8				4					GPS ISSUE		Y
9	7	2058	50544	1	14.8	-47.0	"	1012.8	BACK UP	2125	
10	8	2106	50536	2	14.0	-46.5	"	1012.3		2127	
11	9	2116	40263	3	12.9	-46.0	"	1012.3		2148	
12	10	2127	11547	4	11.8	-46.6	DARK	1013.0		2152	
13	11	2137	30348	1	10.8	-47.3	"	1011.5		2232	
14	12	2148	11412	2	10.7	-48.5	"	1002.3		2277	
15	13	2158	30334	3	10.8	-49.8	"	1011.8		2303	
16	14	2209		4					FAST FALL		Y
17	14	2211	30341	1	12.1	-50.7	"	1011.9	BACK UP	2317	
18	15	2219	20045	2	13.0	-51.0	"	1012.1		2324	
19	16	2230	20048	3	13.6	-49.8	"	1011.5		2326	
20	17	2236	30381	4	14.1	-49.3	"	1009.0		2332	
21	18	2241	50536	1	14.1	-48.6	"	1008.4		2333	
22	19	2246	11153	2	14.1	-48.0	"	1007.9		2339	
23	20	2252	50455	15	13.6	-47.6	"	1011.5		2347	
24	21	2258	50432	3	13.0	-47.4	"	1011.5		2350	
25	22	2303	30346	4	12.4	-47.7	"	1011.2		2353	
26	23	2309	20055	1	11.9	-48.0	"	1011.9		2355	
27	24	2316	20259	6	11.4	-48.7	"	1011.1		2356	
28	25	2324	50367	2	11.9	-49.4	"	1011.6		2359	
29	26	2330	11548	3	12.5	-49.8	"	1010.4		0007	
30	27	2336	11413	4	13.0	-50.1	"	1011.2		0010	
31	28	0004	20368	1	13.7	-53.5	"	1013.7		0028	
32	29	0026	50350	2	14.5	-56.0	"	1013.7	LAST RPT	0045	
33											
34											
35											
36											
37											
38											

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

COMMENTS:

Obs Xmitted <b>29</b>	Obs Missed <b>0</b>	# of sondes launched <b>32</b>	# of bad sondes <b>3</b>
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2021-09-25, 17:43:53-25:53:56



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	14.79	2.10	10.77	17.70
— LongGPS.1 (deg), 1 s/sec	-54.82	6.28	-65.01	-45.99
— LatI.1 (deg), 1 s/sec	14.79	2.10	10.78	17.70
— LonI.1 (deg), 1 s/sec	-54.81	6.28	-65.00	-46.00