



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:	20210926N1	FLT #:		AC:	Norman	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:		CP(s):	DeTriquet		A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:								<b>29</b>	<b>1</b>
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	<b>0150z</b>	Land:	<b>0147z</b>	FE(s):			A/C Land		Good	Bad	Sent
Out:	<b>1726z</b>	T/O:	<b>1734z</b>	FD(s):	Kalen	Visitors:	ASOS Land				
					Flaherty						
Total:	<b>8.4</b>	Total:	<b>8.2</b>	SSA:	Defeo						
				AVAPS:	Patel		Storm Number ID:		<b>AL182021</b>		
Sponsoring Org:	HRD / ONR						(ie: AL072012)				
Program:	PHX			SEB:			TCPOD/WSPOD Mission		<b>0118A SAM</b>		
Purpose:	Hurricane Research						(ie: NOAA2 2418A SANDY)				
				MX:			<b>OBSERVATIONS</b>				
<b>AS REQUIRED BY ORM</b>				Y	N	<b>REMARKS</b>	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:

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## G-IV QC Checklist

<b>Flight ID:</b>	<b>20210926N1</b>
<b>Flight Director(s)</b>	<b>Kalen/Flaherty</b>

<b>UWZ.d mean:</b>	<b>0.08</b>
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Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1014.9</b>	<b>1015.5</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"/> 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"/> 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: 20210426 N1

ASPEN Operator/Flight Director(s):

FLAHERTY / KALEN

Mission ID: 0118A SAM

Storm Name/Track:

HURR SAM SURV

PG \_\_\_ of \_\_\_

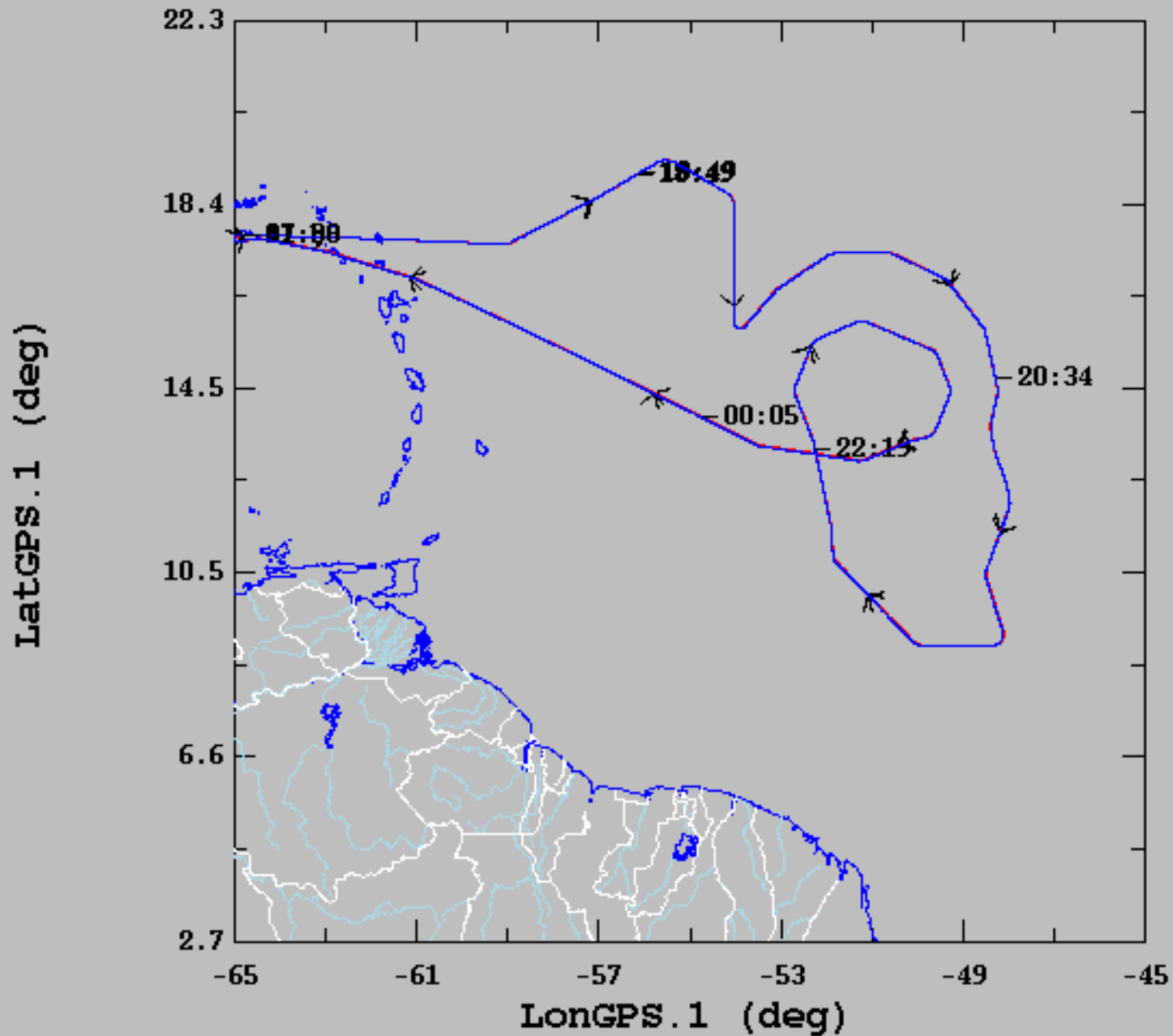
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	1823	11015	1	17.5	-59	FEW BLW	1014.2		1849	
2	2	1841	10299	2	18.5	-57	SCT BLW	1013.3		1908	
3	3	1854	10436	3	19.3	-55.4	SCT BLW	1015.0		1926	
4	X			4					FAST FALL		(Y)
5	4	1909	40783	1	18.3	-54.0	SCT BLW	1014.4	BACK UP	1929	
6	5	1920	10437	2	16.9	-54.0	SCT BLW	1012.8		1944	
7	6	1931	30703	3	15.7	-53.9	BEW BLW	1011.7		1959	
8	7	1941	30528	4	16.5	-53.0	BEW BLW	1013.1		2020	
9	8	1952	30491	1	17.3	-51.8	OVC BLW	1013.4		2023	
10	9	2003	10551	2	17.3	-50.5	"	1014.3		2025	
11	10	2014	10868	3	16.7	-49.3	"	1013.9		2047	
12	11	2025	40288	4	15.7	-48.5	"	1014.1	NO SFC WINDS	2052	
13	12	2036	10425	1	14.3	-48.2	"	1012.2		2103	
14	13	2048	40668	2	13.0	-48.2	"	1012.8		2109	
15	14	2057	30891	3	12.0	-48.0	"	1012.4		2124	
16	15	2111	30325	4	10.4	-48.4	"	1012.4		2140	
17	16	2123	50328	1	9.0	-48.1	"	1012.3		2143	
18	17	2138	40823	2	9.0	-50.0	OVC	1012.58		2207	
19	18	2150	10495	3	10.0	-51.0	"	1012.1		2213	
20	19	2205	20058	4	11.5	-51.8	"	1011.2		2229	
21	20	2221	40270	1	13.3	-52.2	"	1011.2		2304	
22	21	2230	10547	2	14.4	-52.7	"	1013.0		2312	
23	22	2240	40895	3	15.4	-52.2	"	1011.6		2320	
24	23	2249	10440	4	15.8	-51.2	"	1011.3		2329	
25	24	2301	40831	1	15.3	-50.0	"	1011.3		2348	
26	25	2311	40826	2	14.4	-49.2	"		TERM @ 806 mb	2353	(Y)
27	26	2322	10119	3	13.4	-49.9	"	1010.1		2357	
28	27	2334	10085	4	12.9	-51.2	"	1011.3		2002	
29	28	2354	50327	1	13.2	-53.5	"	1013.4	LAST REPORT	2017	
30											
31											
32											
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 <u>28</u>	Obs Missed <u>0</u>	# of sondes launched <u>29</u>	# of bad sondes <u>1</u>
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2021-09-26, 17:03:53-25:50:28



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	15.27	2.69	9.00	19.29
— LongGPS.1 (deg), 1 s/sec	-55.09	5.54	-65.00	-47.94
— LatI.1 (deg), 1 s/sec	15.28	2.68	9.01	19.29
— LonI.1 (deg), 1 s/sec	-55.08	5.54	-64.97	-47.95