

Flight Director: Henning / Kalen
Phone #: 863-500-3982

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20201108N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0530z	CP(s):	Norman		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1330z							31	4
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	1339	Land:	1333	FE(s):			A/C Land		Good	Bad	Sent
Out:	0522	T/O:	0531	FD(s):	Henning	Visitors:	ASOS Land				
					Kalen						
Total:	8.3	Total:	8.0	SSA:	Defeo						
				AVAPS:	Underwood		Storm Number ID:		AL292020		
Sponsoring Org:	NHC						(ie: AL072012)				
Program:	PHS			SEB:			TCPOD/WSPOD Mission		NOAA9 1229A ETA		
Purpose:	TS ETA						(ie: NOAA2 2418A SANDY)				
				MX:			OBSERVATIONS				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x		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:

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G-IV QC Checklist

Flight ID:	20201108N1
Flight Director(s)	Henning / Kalen
UWZ.d mean:	0.14

Pressure Comparison		
	T/O	Land
Aircraft	1010.2	1012.0
Tower	1009.2	1009.8

	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:
<p>AltGPS.3, LatGPS.3, and LonGPS.3 inop for duration of flight</p> <p>TTM.3 has oscillations throughout the flight</p> <p>TDM.1 is unrepresentative for duration of flight</p> <p>Significant spike in Wind Speed at 13:05</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20201108M1

ASPEN Operator/Flight Director(s): Kalen / Henning

Mission ID: NOAA7 1229A

Storm Name/Track: Tropical Storm Eta

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	055952	10572	1	29.52	-79.44		1015.9	09029	80620	N
2	2	061220	70653	2	28.19	-78.36		1014.0	08023	80648	N
3	-	---	40041	3	---	---	---	---	BAD WINDS	---	Y
4	3	062653	50205	4	27.06	-77.81		1011.6	09028	80652	N
5	4	063643	10563	1	26.66	-78.79		1010.7	07519	80658	N
6	5	065134	40035	2	25.18	-79.51		1007.8	09028	80709	N
7	6	070313	10573	3	24.05	-80.02		1005.3	09028	80723	N
8	7	071218	10616	4	23.69	-78.87		1004.9	09025	80736	N
9	8	072122	11595	1	22.78	-78.35		1003.6	09023	80745	N
10	9	073211	10575	2	22.67	-76.87		1005.0	10027	80756	N
11	10	074213	10559	3	22.05	-75.72		1005.3	12529	80804	N
12	11	075329	30576	4	21.16	-74.52		1006.5	10016	80813	N
13	12	080432	20199	1	20.00	-74.03		1007.2	09516	80827	N
14	13	081620	10575	2	19.22	-75.15		1006.3	13017	80837	N
15	-	083737	10574	3	---	---	---	---	BAD WINDS	---	Y
16	14	083956	40789	4	19.40	-77.82		---	//// DIED @ 970mb	80901	Y
17	15	085148	70597	1	19.80	-79.24		1600.0	22024	80915	N
18	16	090941	40795	2	19.91	-80.42		1002.1	31019	80929	N
19	17	091120	10574	3	19.94	-81.54		1002.8	32001	80938	N
20	18	092350	70139	4	19.63	-82.90		1003.7	31007	80950	N
21	19	094332	10571	1	20.81	-84.99		1004.3	31014	81003	N
22	20	100013	40796	2	22.01	-86.50		1004.6	01018	81024	N
23	21	102101	10562	3	23.96	-87.75		1007.6	03017	81056	N
24	-	---	20275	4	---	---	---	---	NLD	---	Y
25	22	103454	70141	1	24.00	-85.89		1005.5	07519	81057	N
26	23	104908	60256	2	24.00	-83.96		1005.1	08519	81112	N
27	24	110257	21855	3	24.10	-82.09		1005.3	12010	81127	N
28	25	111753	20457	4	25.91	-82.11		1008.2	08525	81137	N
29	-	---	31692	1	---	---	---	---	NLD	---	Y
30	26	113310	40070	2	26.00	-84.10	Undr Cst	1009.4	06027	81154	N
31	27	114825	20510	3	26.00	-86.01	Undr Cst	1009.5	07027	81208	N
32	28	120322	40684	4	26.10	-87.90	Undr Cst	1011.0	06015	81225	N
33	29	121950	31513	1	27.92	-87.86	Undr Cst	1013.2	07029	81239	N
34	30	123347	10510	2	28.00	-85.94	Undr Cst	1013.7	07521	81264	N
35	31	124844	40021	3	28.00	-83.81	Brkn	1013.0	06029 / Last Report	81307	N
36											
37											
38											

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

COMMENTS:

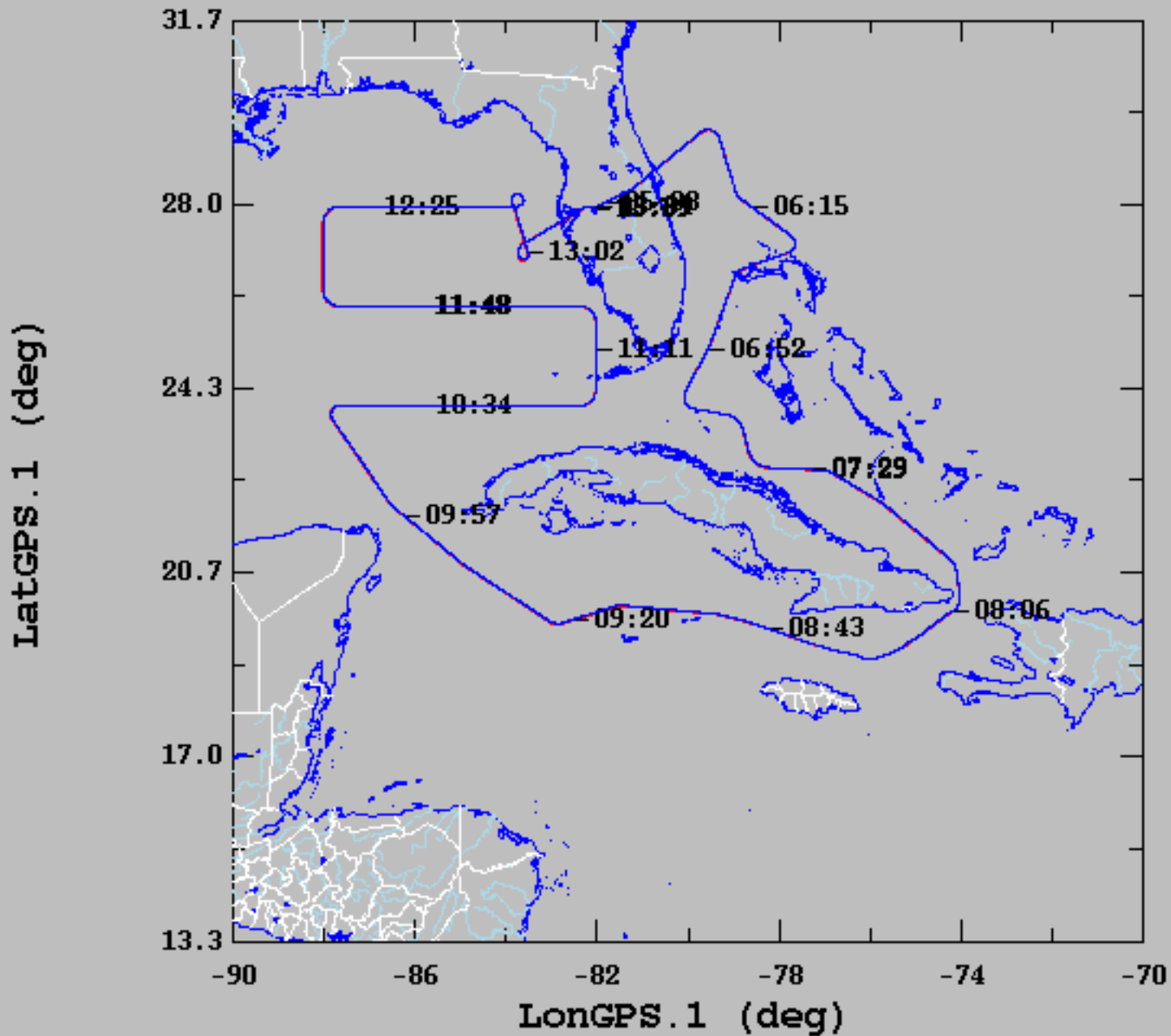
Obs Xmitted

Obs Missed

of sondes launched

of bad sondes

2020-11-08, 05:01:04-13:39:34



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.49	3.19	18.90	29.54
— LonGPS.1 (deg), 1 s/sec	-81.80	3.77	-88.00	-74.00
— LatI.1 (deg), 1 s/sec	24.48	3.20	18.90	29.53
— LonI.1 (deg), 1 s/sec	-81.80	3.77	-88.01	-74.00