

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20200822N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0530z	CP(s):	Norman		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1330z		Varwig				30	1	30
Block Time		Flight Time		NAV:		ASOS Takeoff		BTs			
In:	1359	Land:	1351	FE(s):				Good	Bad	Sent	
Out:	0556	T/O:	0603	FD(s):	Henning	A/C Land					
					Kalen						
Total:	8.1	Total:	7.8	SSA:	Miller	Visitors:					
				AVAPS:	Hartberger	Storm Number ID:		AL142020			
Sponsoring Org:	NHC					(ie: AL072012)					
Program:	PHS			SEB:		TCPOD/WSPOD Mission		NOAA9 0414 MARCO			
Purpose:	TS MARCO					(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:

G-IV QC Checklist

Flight ID:	20200822N1
Flight Director(s)	Henning / Kalen
UWZ.d mean:	0.1

Pressure Comparison		
	T/O	Land
Aircraft	1009.6	1010.9
Tower	--	1010.6

	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"/> 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 checked="" 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:
PQBETA.1 large oscillations on descent and unrepresentative
TTM.3 constant oscillations of 1 to 2 deg C for duration of flight and unrepresentative
TDM.1 unrepresentative for duration of flight
TDM.2, TD.c, and Humidities have a significant increase then decrease in values between 06:30:00 and 06:33:30

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 2020 0822 N1

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

Mission ID: NOAA9 0414A

Storm Name/Track: Marco

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	063926	11571	1	25.93	-85.53		1011.6	06614	220701	N
2	2	065424	11576	2	26.01	-87.40		1010.5	16510	220713	N
3	3	070803	10185	3	27.83	-87.65		1010.7	21015	220728	N
4	4	072232	30150	4	27.81	-87.41		1011.2	18016	220746	N
5	5	074616	20131	1	25.78	-87.62		1010.3	06517	220802	N
6	6	075448	21121	2	26.00	-91.39		1010.3	14518 / Ignored Winds	220816	N
7	7	081042	20159	3	27.84	-91.66		1010.3	15007	220831	N
8	8	092419	10274	4	27.79	-93.39		1010.0	15008 / Ignored Winds	220838	N
9	9	083851	20158	1	25.99	-93.61		1009.3	12509 / Ignored Winds	220900	N
10	-	085307	40294	2	-	-		-	FAST FALL	-	Y
11	10	085444	41047	3	25.60	-95.49		1008.5	13011	220914	N
12	11	090759	30146	4	23.96	-95.35		1009.4	13011 / Ignored Winds	220927	N
13	12	092152	41050	1	23.89	-93.48		1008.5	12512 / Ignored Winds	220942	N
14	13	093634	21103	2	23.89	-91.47		1009.0	11506 / Ignored Winds	220956	N
15	14	095051	41096	3	23.89	-89.49		1006.4	14510	221010	N
16	15	100508	40880	4	23.82	-87.53		1009.0	12511	221027	N
17	16	102431	30234	1	21.88	-86.50		1007.7	11013	221046	N
18	17	104022	11626	2	20.09	-86.42		1007.5	01007	221103	N
19	18	104913	40871	3	19.25	-87.07		1006.2	22003 / Ignored Winds	221108	N
20	19	105657	30152	4	18.39	-86.84		1006.9	23005 / Ignored Winds	221116	N
21	20	110416	21376	1	17.58	-86.61		1007.2	24005	221125	N
22	21	111000	40229	2	16.94	-86.52	Brkn	1007.8	24502 / Ignored Winds	221134	N
23	22	112138	30149	3	16.31	-87.80	Brkn	1007.3	LST Wind 25m	221141	N
24	23	112909	50953	4	16.11	-86.96	Brkn	1007.7	29506	221150	N
25	24	114149	21105	1	16.21	-85.50	Brkn	1008.1	24501	221203	N
26	25	115105	30195	2	16.33	-84.42	Ovcst	1007.8	16014	221212	N
27	26	120021	40539	3	17.11	-83.70	Few	1009.7	16015	221220	N
28	27	121139	21068	4	18.41	-83.41	Skt	1009.6	14019 / Ignored Winds	221231	N
29	28	122237	30158	1	19.71	-83.72	Ovcst	1007.8	13520 / Ignored Winds	221244	N
30	29	123320	20808	2	20.77	-84.54	Ovcst	1008.2	10016 / Ignored Winds	221255	N
31	30	125751	20111	3	23.56	-85.73	Ovcst	1010.4	12520 / Ignored Winds / Last Rep	221317	N
32											
33											
34											
35											
36											
37											
38											

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

COMMENTS:

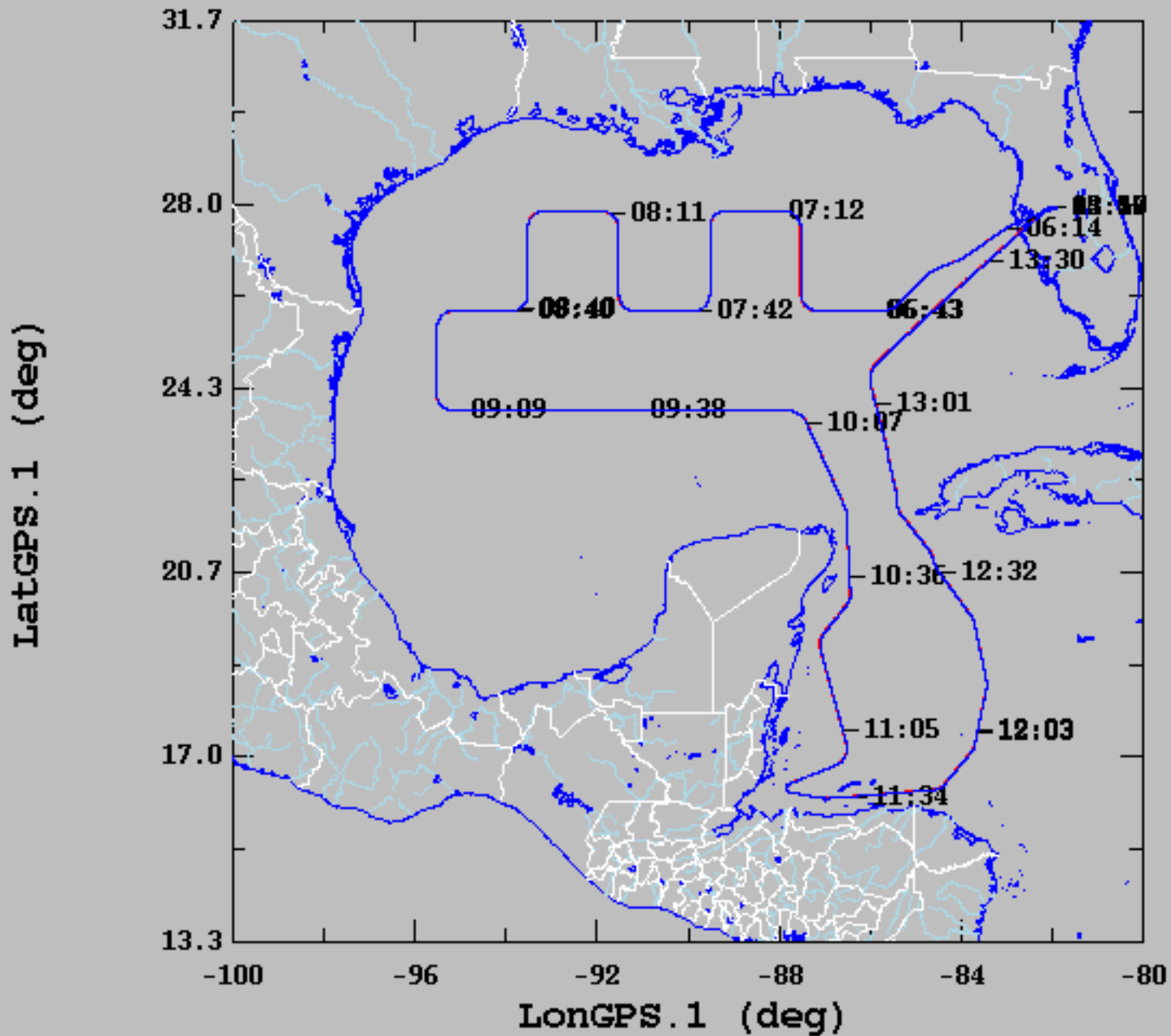
Obs Xmitted

Obs Missed

of sondes launched

of bad sondes

2020-08-22, 04:47:37-13:59:50



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.21	3.84	16.12	27.99
— LonGPS.1 (deg), 1 s/sec	-86.89	3.96	-95.50	-81.87
— LatI.1 (deg), 1 s/sec	24.21	3.83	16.12	28.00
— LonI.1 (deg), 1 s/sec	-86.90	3.97	-95.51	-81.87