

AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter / Flaherty
Phone #: 863-500-3901

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:	20200821N1	FLT #:	20-66	AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1730Z	CP(s):	Nardi		A/C Takeoff	1009.6	Good	Bad	Sent
To:	KLAL	ETA:	0130Z							27	2
Block Time		Flight Time		NAV:			ASOS Takeoff	KLAL 1745Z 1009.3 mb	BTs		
In:	1:23	Land:	1:15	FE(s):			A/C Land	1011.4	Good	Bad	Sent
Out:	17:22	T/O:	17:31	FD(s):	Carpenter	Visitors:	ASOS Land	KLAL 0050Z 1010.9 mb	0	0	0
Total:	8.0	Total:	7.7	SSA:	Defeo						
Sponsoring Org:		NWS / NHC		AVAPS:	Patel		Storm Number ID:		AL132020		
Program:		PHS		SEB:			(ie: AL072012)				
Purpose:		TS Laura Surveillance		MX:			TCPOD/WSPOD Mission		NOAA9 0313A LAURA		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1				
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X		2				
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X		3				
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND				X			4				
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X		Pennies:				

*Highlighted items must be completed before departure.

Remarks:

G-IV QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	20200821N1
Flight Director(s):	Carpenter / Flaherty
Mission:	Tasked/Operational
UWZ.d mean:	0.14

Pressure Comparison		
	T/O	Land
Aircraft	1009.6	1011.4
Tower	KLAL 1745Z 1009.3 mb	KLAL 0050Z 1010.9 mb

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3			✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3	✓ Altl.1 ✓ Altl.2 ✓ Altl.3	✓ AltPaADDU.1 ✓ AltPaADDU.2 ✓ AltRA.1	✓ AltBCADDU.1 ✓ AltBCADDU.2		✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	
✓ Ground Speed	✓ GsXI.1 ✓ GsXI.2 ✓ GsXI.3 ✓ GsXGPS.1 ✓ GsXGPS.2 ✗ GsXGPS.3	✓ GsYI.1 ✓ GsYI.2 ✓ GsYI.3 ✓ GsYGPS.1 ✓ GsYGPS.2 ✗ GsYGPS.3	✓ GsZI.1 ✓ GsZI.2 ✓ GsZI.3 ✓ GsZGPS.1 ✓ GsZGPS.2 ✗ GsZGPS.3	✓ GsGPS.1 ✓ GsGPS.2 ✗ GsGPS.3		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3	✓ Latl.1 ✓ Latl.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3	✓ Lonl.1 ✓ Lonl.2		✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQALPHA.2 ✓ PQBETA.1 ✓ PQBETA.2	✓ PQM.1 ✓ PQM.2	✓ PSM.1 ✓ PSM.2		✓ PDLAPHAref ✓ PDBETAref ✓ PQALPHAref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1				✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ Pitchl.1 ✓ Pitchl.2 ✓ Pitchl.3	✓ PitchRate1.1 ✓ PitchRate1.2 ✓ PitchRate1.3	✓ Rolll.1 ✓ Rolll.2 ✓ Rolll.3	✓ RollRate1.1 ✓ RollRate1.2 ✓ RollRate1.3		✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✗ TTM.2 ✓ TTM.3	✓ TTM.4	✗ TDM.1 ✗ TDM.2			✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)						✓ UWZ.d ✓ DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
✓ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✗ Miscellaneous FD Notes

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

NOTES:
<p>"Stairstep" behavior noted intermittently in inertial data.</p> <p>Brief dropouts early in flight/during climb in radar altimeter data (AltRa.1).</p> <p>GsGPS.3 unavailable.</p> <p>TTM.2 unavailable.</p> <p>Both TDM sensors require calibration. Lack of sensitivity on TDM.1. Persistent and unrealistic warm bias exhibited on TDM.2. All moisture quantities suspect.</p> <p>Brief data gaps noted, especially between 1940-2040Z.</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

27/29

Flight ID: 20200821N1

ASPEN Operator/Flight Director(s): FLAHERTY / CARPENTER

Mission ID: NOAA9 0313A

Storm Name/Track: TS LAURA SURV.

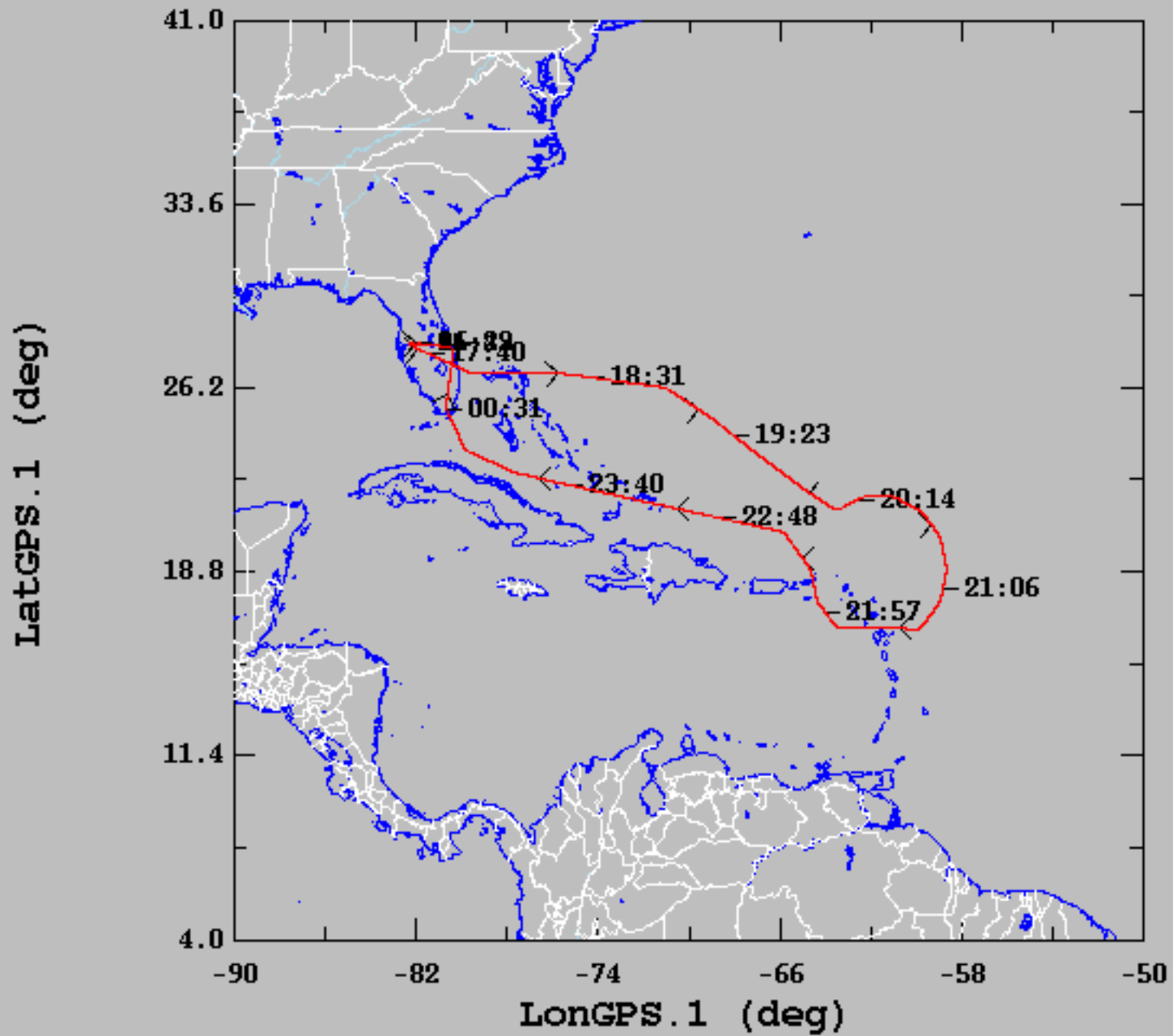
PG 1 of 1

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	175550	30077	1			FEWBLW	1014.6		1828	
2	2	180833	30186	2			"	1014.7		1850	
3	3	182354	21041	3			"	1016.3		1854	
4	4	184025	20110	4			"	1016.1		1903	
5	5	185618	30224	1			"	1015.7		1950	
6	6	191334	30154	2			"	1015.3		1933	
7	7	193242	30174	3			"	1014.9		1956	
8	8	195234	20782	4			"	1013.5		2041	
9	9	200704	30019	1			"	1011.5		2045	
10	10	201652	21126	2			"	1013.7		2048	
11	11	202644	30179	3			"	1013.7		2055	
12	12	203702	30167	4			SCTBLW	1013.8		2059	
13	13	204755	21096	1			FEWBLW	1013.3		2118	
14	14	205805	30160	2			NC BLW	1013.1		2120	
15	15	211020	10625	3			"	1010.4		2157	
16	16	212142	21046	4			"	1010.4		2201	
17	17	215704	10795	1			SCTBLW	1002.7		2217	
18	18	220125	30148	2					FAST FALL		✓
19	18	220311	21053	3			SCTBLW	1008.1	BACK UP	2231	
20	19			4					FAST FALL		✓
21	19	221334	21132	1			FEWBLW	1010.8	BACK UP	2241	
22	20	222645	10592	2			"	1011.8	NO SFC WINDS	2252	
23	21	224222	30144	3			"	1011.8		2318	
24	22	225754	21042	4			"	1013.4		2347	
25	23	231317	11060	1			"	1013.1		2352	
26	24	232828	30157	2			"	1013.1		2358	
27	25	234108	21100	3			"	1013.6		0004	
28	26	235810	10369	4			DARK	1013.0		0020	
29	27	001708	20735	1			"	1012.9	LAST REPORT	0037	
30											
31											
32											
33											
34											
35											
36											
37											
38											

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

Obs Xmitted 27
 Obs Missed
 # of sondes launched 29
 # of bad sondes 2

08/21/2020, 16:49:13-25:22:58



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	23.24	3.59	16.44	27.99
— LongGPS.1 (deg), 1 s/sec	-71.43	7.93	-82.28	-58.61