

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

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210820H1	FLT #:	21-	AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2000Z	CP(s):	Doremus		A/C Takeoff	1006.6	Good	Bad	Sent
To:	KLAL	ETA:	0400Z		Legidakes / Copare					20	2
Block Time		Flight Time		NAV:	Freeman / Hough		ASOS Takeoff	KLAL 1955Z 1009.0 mb	BTs		
In:	2:38	Land:	2:32	FE(s):	Darby		A/C Land	1007.5	Good	Bad	Sent
Out:	19:52	T/O:	20:03	FD(s):	Wysinger		ASOS Land	KLAL 0148Z 1008.9 mb	6	1	6
Total:	6.8	Total:	6.5	SSA:	Mascaro	Visitors:					
Sponsoring Org:		NWS / EMC		AVAPS:	Underwood		Storm Number ID:		AL082021		
Program:		PRX		SEB:			(ie: AL072012)				
Purpose:		TDR mission #1 HENRI		MX:			TCPOD/WSPOD Mission		NOAA2 0608A HENRI		
							(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:	3 (Tropical Storm)			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20210820H1
Flight Director(s):	Carpenter
Mission:	Tasked/Operational
UWZ.d mean:	0.05

Pressure Comparison		
	T/O	Land
Aircraft	1006.6	1007.5
Tower	KLAL 1955Z 1009.0 mb	KLAL 0148Z 1008.9 mb

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 ✓ AltGPS.4	✓ AltI-GPS.1 ✓ AltI-GPS.2	✓ AltPaADDU.1 ✓ AltBCADDU.1	✓ AltRA.1 ✓ AltRA.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	✓ AltRA1.c ✓ AltRA2.c
✓ Ground Speed	✓ GsXI-GPS.1 ✓ GsXI-GPS.2	✓ GsYI-GPS.1 ✓ GsYI-GPS.2	✓ GsZI-GPS.1 ✓ GsZI-GPS.2		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 ✓ LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHAref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✗ PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 ✗ PitchRatel.3	✓ RollI.1 ✓ RollI.2 ✗ RollI.3	✓ RollRatel.1 ✓ RollRatel.2 ✗ RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 ✗ TTM.3	✓ TDM.1 ✓ TDM.2 ✗ TDM.3	✓ TRadD.1 ✓ TRadS.1 ✗ TRadU.1		✓ 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>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 unavailable.</p> <p>TDM.3 inoperative.</p> <p>TRadU.1 unavailable.</p>

AVAPS Drop Log

Project: Hurricanes 2021 Mission: TS Henri Flight ID: 20210820H1

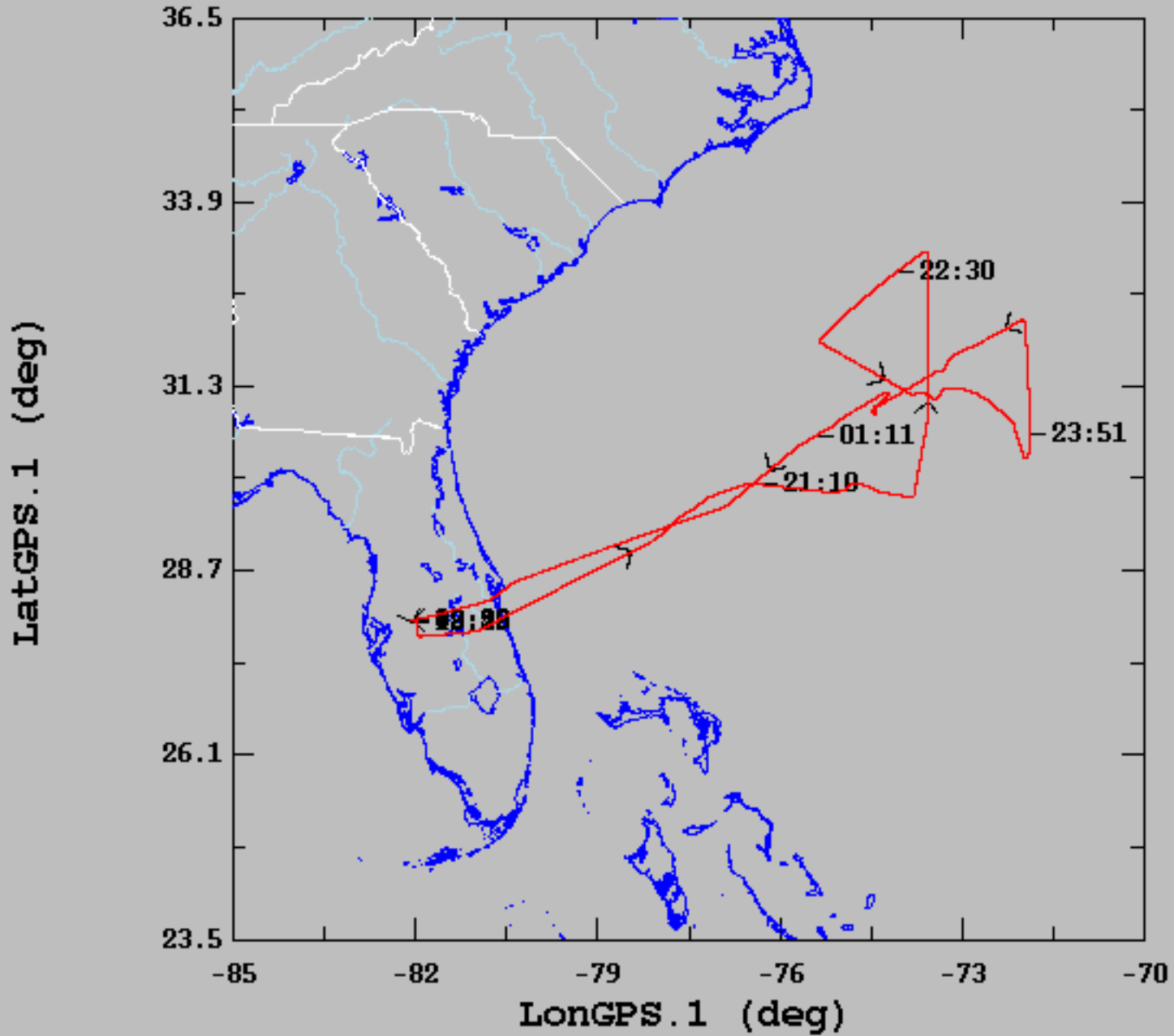
Take Off: _____ Landing: _____ Flt Dir: Carpenter Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	204260870	1	-0.7	2137Z	NGU	NWS	IP, IB, combo	✓
2	204270040	2	-0.6	2147Z			MP, IB	✓
3	204521425	3	-0.5	2153Z			Center CPA	✓
4	204350537	4	-0.8	2206Z		ONR	QP, OB	✓
5	204420093	5	-0.6	2212Z		NWS	MP, OB	✓
6	204521285	6	-0.5	2223Z			EP, OB, combo	✓
7	204521392	7	-0.5	2249Z			EP, IB, combo	✓
8	204260853	8	-0.6	2302Z			MP, IB	✓
9	204420095	1	-0.7	2312Z			Center #2 CPA	✓
10	204420091	2	-0.6	2326Z		ONR	QP, OB, late wind	X
11	204260884	3	-0.5	2327Z			" " backup	✓
12	204350382	4	-0.5	2333Z		NWS	MP, OB	✓
13	204260885	5	-0.5	2346Z			EP, OB	✓
14	204350381	6	0.0	0009Z			EP, IB	✓
15	204260868	7	-0.6	0029Z			MP, IB, no winds	X
16	204420096	8	-0.6	0025Z			" " backup	✓
17	204260903	1	0.0	0031Z		ONR	QP, IB	✓
18	204270031	2	-0.5	0032Z		NWS	Center CPA	✓
19	204330665	3	-0.5	0045Z		ONR	QP, OB	✓
20	205050402	4	0.0	0054Z		ONR	Saildrone, combo	✓
21	204270041	5	-0.5	0103Z		NWS	MP, OB	✓
22	204270044	6	-0.5	0115Z			EP, OB	✓
23								
24								
25								
26								
27								
28								
29								
30								
31								

Serial (C)

		MISSION: 20210820H1			FLIGHT: 0608A		DROPSONDE SCIENTIST: SELLWOOD				
		STORM: HENRI					AVAPS OPERATOR: UNDERWOOD				
		TAKE OFF: 2003Z LAKELAND									
DROP #	CHANNEL	SONDE ID	TIME (UTC)	LATITUDE	LONGITUDE	SFC PRESS	SFC WIND DIR/SPD	HEIGHT	SST	OB #	
1	1	204260870	2137	29.8	-73.77	1009	210/35	10	Bad AXBT	1	
IP S	Looks like and ELD removed first 3 seconds of data including lat/lon										
2	2	204270040	2147	30.53	-73.61	1002	245/6	10		6	
Midpoint inbound S/N leg	Removed lat/lon and RH at top ELD?										
3	3	204521425	2153	30.9	-73.54	998	250/26	10		2	
Center CPA	Late winds very warm and dry flight-level to 800mb										
4	4	204350537	2206	31.86	-73.53	1003	130/34	10		3	
Quarterpoint outbound	No manual QC										
5	5	204420093	2212	32.33	-73.53	1007	120/25	10		4	
Midpoint outbound	End 301.75 removed lat/lon at top late GPS										
6	6	204521285	2223	33.15	-75.54	1009	115/17	12	29	5	
Endpoint N	Set end 297.0 removed first 10 seconds of lat/lon lat GPS										
7	7	204521392	2249	31.99	-75.3	1007	020/28	10	28.9	7	
Endpoint NW/IP	End 309.25 removed first 3 seconds of lat/lon and RH										
8	8	204260853	2302	31.51	-74.49	1004	355/29	10		11	
Midpoint NW/SE inbound											
9	1	204420095	2312	31.21	-73.72	999	320/29	10		8	
Center CPA											
10	2		2326	x	x	x	x	x	x	x	
Quarterpoint outbound	late winds - do not transmit										
11	3		2327	31,19	-72,74	1004	165/44	10		9	
Backup for drop 10	removed lat/lon and first 10 seconds RH first 3 seconds ended 1 frame before last										
12	4	204350382	2333	30.98	-72.4	1007	175/51	10		10	
Midpoint outbound	ended 2 frames before last										
13	5	204260885	2346	30.32	-71.98	1011	180/33	10		12	
Endpoint SE	removed lat/lon at top GPS ended 1 frame before last										
14	6	204350381	9	32.18	-71.96	1010	165/26	10	28	13	
Endpoint NE/SW inbound	end 314.25										

2021-08-20, 18:29:04-26:32:26



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	29.91	1.61	27.77	33.20
— LonGPS.1 (deg), 1 s/sec	-76.95	3.67	-82.06	-71.88