



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

ACAT-4 Version = 7.4

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2021081711	FLT #:	21-	AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	TNCA	ETD:	2000Z	CP(s):	Rannenberg	Zawislak	A/C Takeoff	1010	Good	Bad	Sent
To:	KLAL	ETA:	0000Z		Legidakes / Copare	Sellwood	ASOS Takeoff		TNCA 2000Z 1011 mb	26	4
Block Time		Flight Time		NAV:	Freeman / Urato			BTs			
In:	4:00	Land:	3:37	FE(s):	Darby		A/C Land	1012.7	Good	Bad	Sent
Out:	19:41	T/O:	19:53	FD(s):	Wysinger		ASOS Land		KLAL 0150Z 1012.9 mb	3	0
Total:	8.3	Total:	7.7	SSA:	Mascaro	Visitors:					
Sponsoring Org:		NWS / EMC		AVAPS:	Underwood		Storm Number ID:		AL072021		
Program:		PRX		SEB:			(ie: AL072012)				
Purpose:		Tac. Repo to KLAL / 00Z TDR Mission		MX:	Carrion / Sans Souci		TCPOD/WSPOD Mission		NOAA3 1007A GRACE		
							(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:	4 (Tropical Storm)			

\*Highlighted items must be completed before departure.

Remarks:

Customs block-in: 0342Z. Customs block-out: 0352Z.

## P-3 QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	2021081711
Flight Director(s):	Carpenter
Mission:	Tasked/Operational
UWZ.d mean:	0.01

Pressure Comparison		
	T/O	Land
Aircraft	1010.0	1012.7
Tower	TNCA 2000Z 1011 mb	KLAL 0150Z 1012.9 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			
✓ 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	✓ PitchRateI.1 ✓ PitchRateI.2 ✗ PitchRateI.3	✓ RollI.1 ✓ RollI.2 ✗ RollI.3	✓ RollRateI.1 ✓ RollRateI.2 ✗ RollRateI.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>Intermittent outages GPS.3 between 2200-2300Z.</p> <p>GPS.4 unavailable. Radar altitude temporary outage ~2140Z.</p> <p>10-20 mb difference between PSM.1 and PSM.2 at higher altitudes. PSM.2 appears more stable.</p> <p>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 inoperative.</p> <p>TDM.1 errant data spike 2141Z. TDM.2 low bias. TDM.3 trends with other TDMs but is unrepresentative.</p> <p>TRadU.1 inoperative.</p>

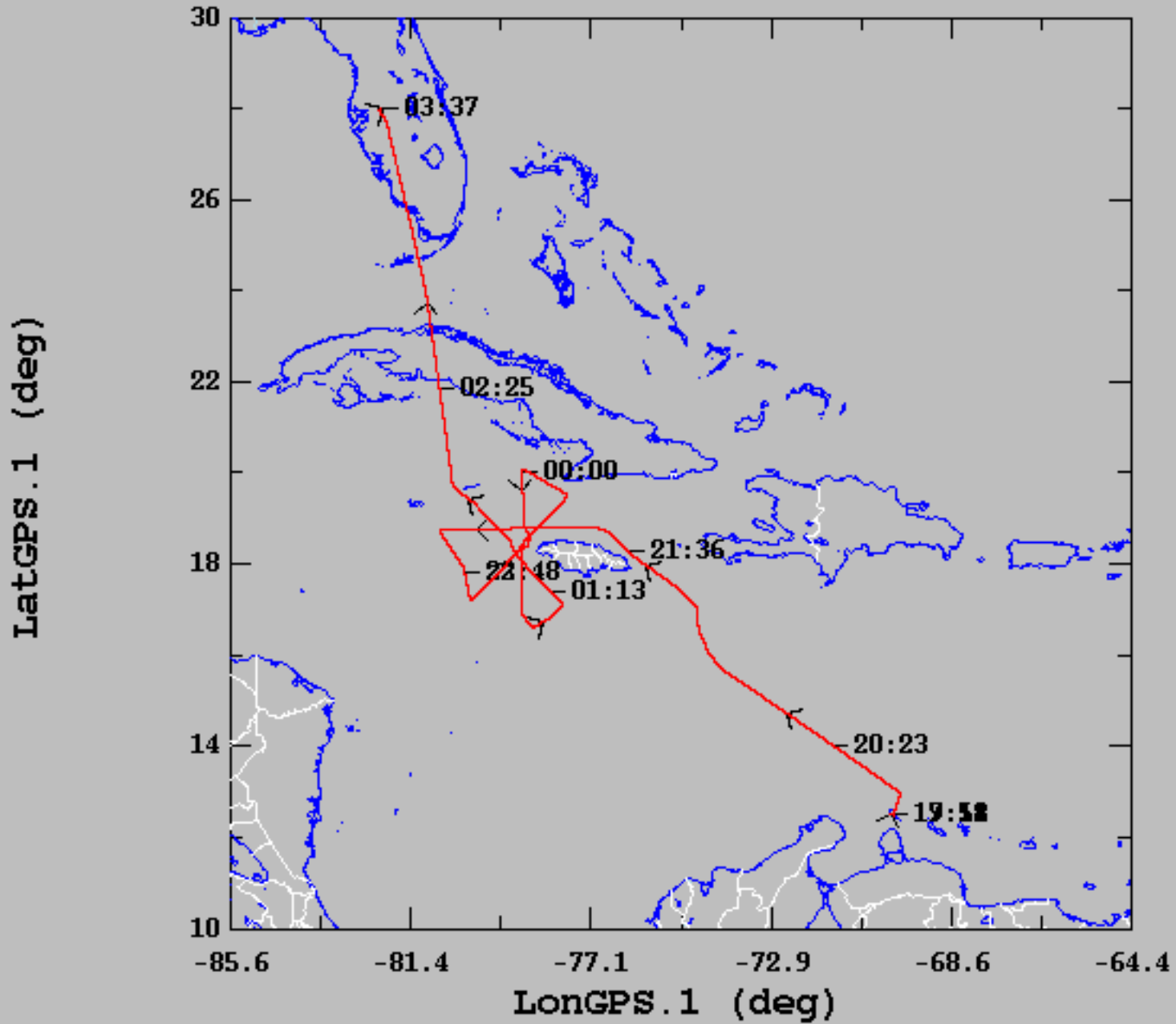
# AVAPS Drop Log

Project: Hurricanes 2021 Mission: TS Grace Flight ID: 20210817I1

Take Off: \_\_\_\_\_ Landing: \_\_\_\_\_ Flt Dir: Coastal Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	202520290	1	-0.7	2149Z	NGC	NWS	IP, IB	✓
2	202610506	2	-0.6	2201Z			MP, IB	✓
3	202730071	3	-0.8	2212Z			Center #1, noisy winds	?
4	203520180	4	-1.0	2213Z			Center #1 backup <sup>NLD</sup>	X
5	202610457	5	-0.6	2224Z			MP, OB	✓
6	202610502	6	-0.7	2232Z			EP, OB, combs	✓
7	202610500	7	0.0	2256Z			EP, IB, combs	✓
8	203431775	8	-0.5	2310Z			MP, IB	✓
9	203431813	1	-1.0	2317Z		ONR	Quarter point, IR	✓
10	203431773	2	-0.8	2323Z		NWS	Center #2 CPA	✓
11	203240575	3	-0.8	2326Z		ONR	QP, OB	✓
12	203240586	4	-1.1	2337Z		NWS	MP, OB	✓
13	202721630	5	-0.5	2345Z			EP, OB	✓
14	202620553	6	-0.7	0000Z			EP, IB	✓
15	203150499	7	-1.2	0013Z			MP, IB	✓
16	203431783	8	-1.0	0019Z		ONR	QP, IR	✓
17	203150670	1	-1.0	0028Z		NWS	Center #3, no PTH	X
18	203520213	2	-0.7	0029Z			Center #3 backup	✓
19	203440042	3	0.0	0037Z		ONR	QP, OB	✓
20	203520381	4	-0.6	0044Z		NWS	MP, OB, NLD	X
21	203150291	5	0.0	0045Z			MP, OB, backup	✓
22	191930403	6	0.0	0055Z			EP, OB	✓
23	192950641	7	0.0	0106Z			EP, IB	✓
24	203240580	8	-1.0	0118Z			MP, IB	✓
25	203240571	1	-0.5	0123Z		ONR	QP, IB	✓
26	202520160	2	-0.5	0133Z		NWS	Center #4 CPA	✓
27	203210051	3	-0.9	0138Z		ONR	QP, OB no winds	X
28	203240095	4	0.0	0139Z			QP, OB backup	✓
29	202730062	5	-0.8	0145Z		NWS	MP, OB	✓
30	203520094	6	0.0	0158Z			EP, OB	✓
31								

08/17/2021, 17:58:51-27:37:57



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	17.67	3.91	12.49	27.99
— LongGPS.1 (deg), 1 s/sec	-76.44	4.21	-82.11	-69.80