

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:	20210818H1	FLT #:	21-	AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2000Z	CP(s):	Legidakes	Zawislak	A/C Takeoff	1014.1	Good	Bad	Sent
To:	KLAL	ETA:	0400Z		Rannenberg / Copare	Sellwood	ASOS Takeoff	KLAL 1950Z 1014.4 mb	25	1	25
Block Time		Flight Time		NAV:	Freeman / Hough	A/C Land					
In:	2:24	Land:	2:17	FE(s):	Darby		ASOS Land	KLAL 0150Z 1015.6 mb	Good	Bad	Sent
Out:	19:41	T/O:	19:54	FD(s):	Wysinger	3			2	3	
Total:	6.7	Total:	6.4	SSA:	Mascaro		Visitors:				Storm Number ID:
Sponsoring Org:	NWS / EMC			AVAPS:	Underwood	(ie: AL072012)		AL072021			
Program:	PRX			SEB:		TCPOD/WSPOD Mission		NOAA2 1407A GRACE			
Purpose:	TDR mission #2 GRACE			MX:		(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			2			
LACK OF PRECIPITATION					X		3				
RELATIVE HUMIDITY ≥ 80%				X				4			
LARGE AIR-SEA TEMP GRADIENT					X		Pennies:		3 (Hurricane)		
HIGH SURFACE WINDS				X							
LONG FETCH / DURATION OF SFC WND					X						
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X						

*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:	20210818H1
Flight Director(s):	Carpenter
Mission:	Tasked/Operational
UWZ.d mean:	0.09

Pressure Comparison		
	T/O	Land
Aircraft	1014.1	1015.7
Tower	KLAL 1950Z 1014.4 mb	KLAL 0150Z 1015.6 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	✓ 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.
<ul style="list-style-type: none"> ✓ 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"/>

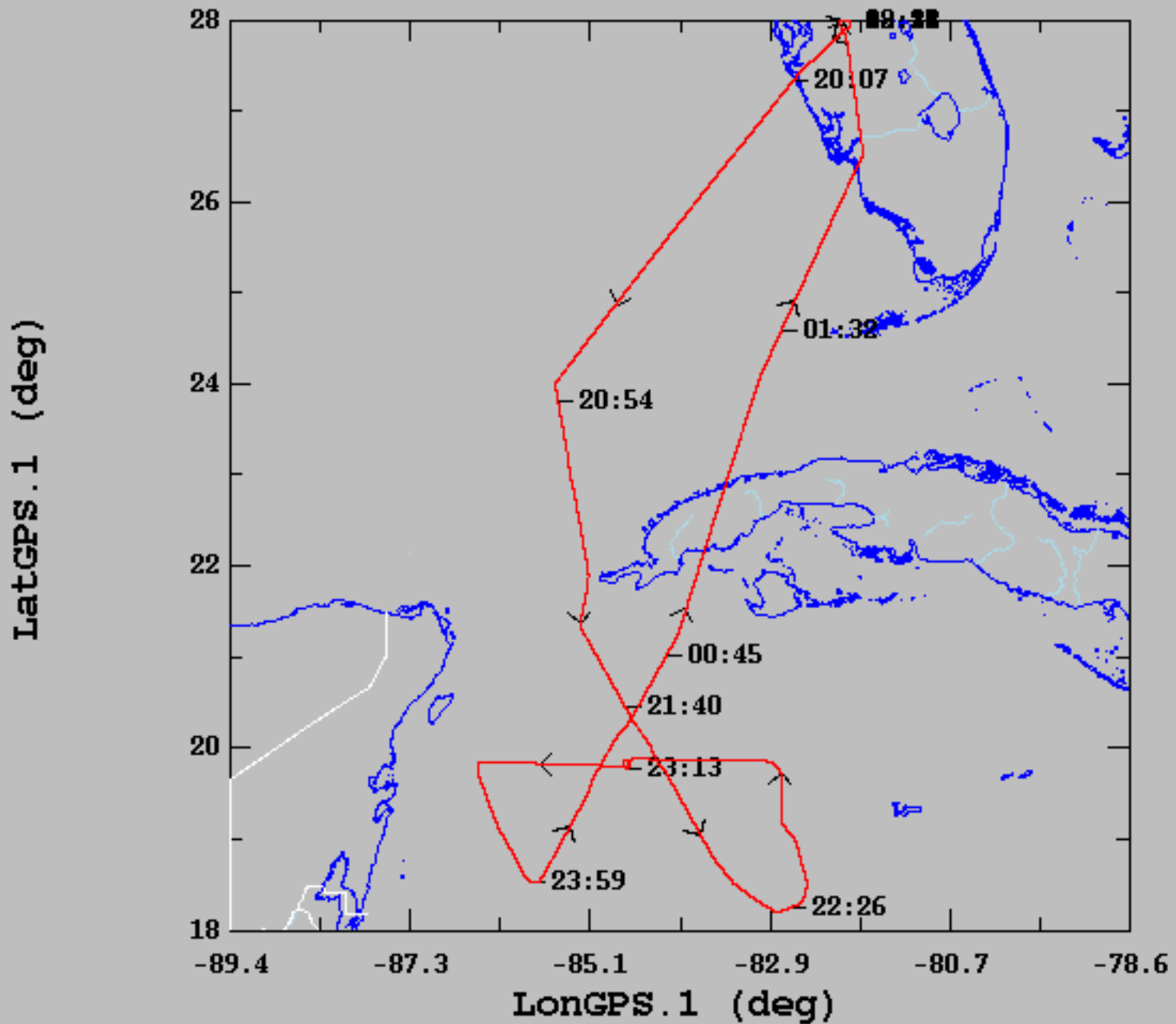
NOTES:
<p>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 unavailable.</p> <p>TDM.1 inoperative until 2025Z. TDM.3 inoperative.</p> <p>TRadU.1 unavailable.</p>

AVAPS Drop Log

Project: Hurricanes 2021 Mission: Hurricane Grace Flight ID: 20210818HI
 Take Off: _____ Landing: _____ Flt Dir: Carpenter Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	203520290	1	-0.8	2128Z	NGU	NWS	IP, IB, combo	✓
2	203431514	2	-1.0	2136Z		1	MP, IB	✓
3	203451374	3	-1.0	2145Z		ONR	QP, IB	✓
4	202630410	4	0.0	2152Z		NWS	Center #1	✓
5	202640068	5	0.0	2201Z		ONR	QP, OB	✓
6	203350226	6	-0.5	2208Z		NWS	MP, OB	✓
7	203350235	7	-1.0	2224Z		1	EP, OB	✓
8	203440003	8	-0.5	2248Z			EP, IB	✓
9	202610578	1	0.0	2257Z			MP, IB	✓
10	203431524	2	0.0	2304Z		ONR	QP, IB	✓
11	203350260	3	-0.8	2306Z		1	RMW	✓
12	203451386	4	-0.6	2314Z		NWS	Center #2, combo	✓
13	203420233	5	-0.8	2320Z		ONR	RMW, late ^{OK} winds	✓
14	203631771	6	0.0	2323Z		1	QP, OB	✓
15	203451383	7	-0.7	2327Z		NWS	MP, OB	✓
16	203451272	8	-0.7	2338Z		1	EP, OB, combo	✓
17	203431520	1	-0.6	0001Z		1	EP, IB, combo	✓
18	203451418	2	-0.8	0010Z		1	MP, IB	✓
19	203520505	3	-0.6	0018Z		ONR	QP, IB	✓
20	202620571	4	0.0	0021Z		1	RMW	✓
21	202610673	5	0.0	0022Z		NWS	Center #3 CPA	✓
22	203451381	6	-0.8	0026Z		ONR	RMW, no LD	✗
23	203820052	7	0.0	0026Z		1	" backup	✓
24	203631821	8	-0.5	0029Z		ONR	QP, OB	✓
25	204420101	1	0.0	0037Z		NWS	MP, OB	✓
26	197610976	2	-0.6	0049Z		1	EP, OB, combo	✓
27								
28								
29								
30								
31								

08/18/2021, 18:35:01-26:18:27



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	23.04	3.52	18.20	27.99
— LongGPS.1 (deg), 1 s/sec	-83.66	1.36	-86.43	-81.78