

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

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

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20201026H1	FLT #:	21-11	AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0400Z	CP(s):	Shaw	Chang, Paul	A/C Takeoff	1009.7	Good	Bad	Sent
To:	KLAL	ETA:	1230Z		Rannenberg		ASOS Takeoff		KLAL 0335Z 1009.5 mb	22	2
Block Time		Flight Time		NAV:	Richards/B, Utama	ASOS Land	1011.4	BTs			
In:	13:29	Land:	13:22	FE(s):	Darby			Good	Bad	Sent	
Out:	3:28	T/O:	3:38	FD(s):	Carpenter	ASOS Land	KLAL 1350Z 1011.9 mb	0	0	0	
Total:	10.0	Total:	9.7	SSA:	Mascaro			Visitors:	Storm Number ID:		
Sponsoring Org:	NWS / NHC			AVAPS:	Warnecke	(ie: AL072012)			AL282020		
Program:	PRX			SEB:		TCPOD/WSPOD Mission					
Purpose:	TS Zeta 0530, 1130Z fixes.			MX:		(ie: NOAA2 2418A SANDY)			NOAA2 0528A ZETA		
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:		4 TS Pennies		
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) - minimal mission impact.
--------------------	---

Flight ID:	20201026H1
Flight Director(s):	Carpenter / Holmes
Mission:	Tasked/Operational
UWZ.d mean:	0.13

Pressure Comparison		
	T/O	Land
Aircraft	1009.7	1011.4
Tower	KLAL 0335Z 1009.5 mb	KLAL 1350Z 1011.9 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 X PDALPHA.2 ✓ PDBETA.1 X 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 X PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	X TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X 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
X Miscellaneous FD Notes

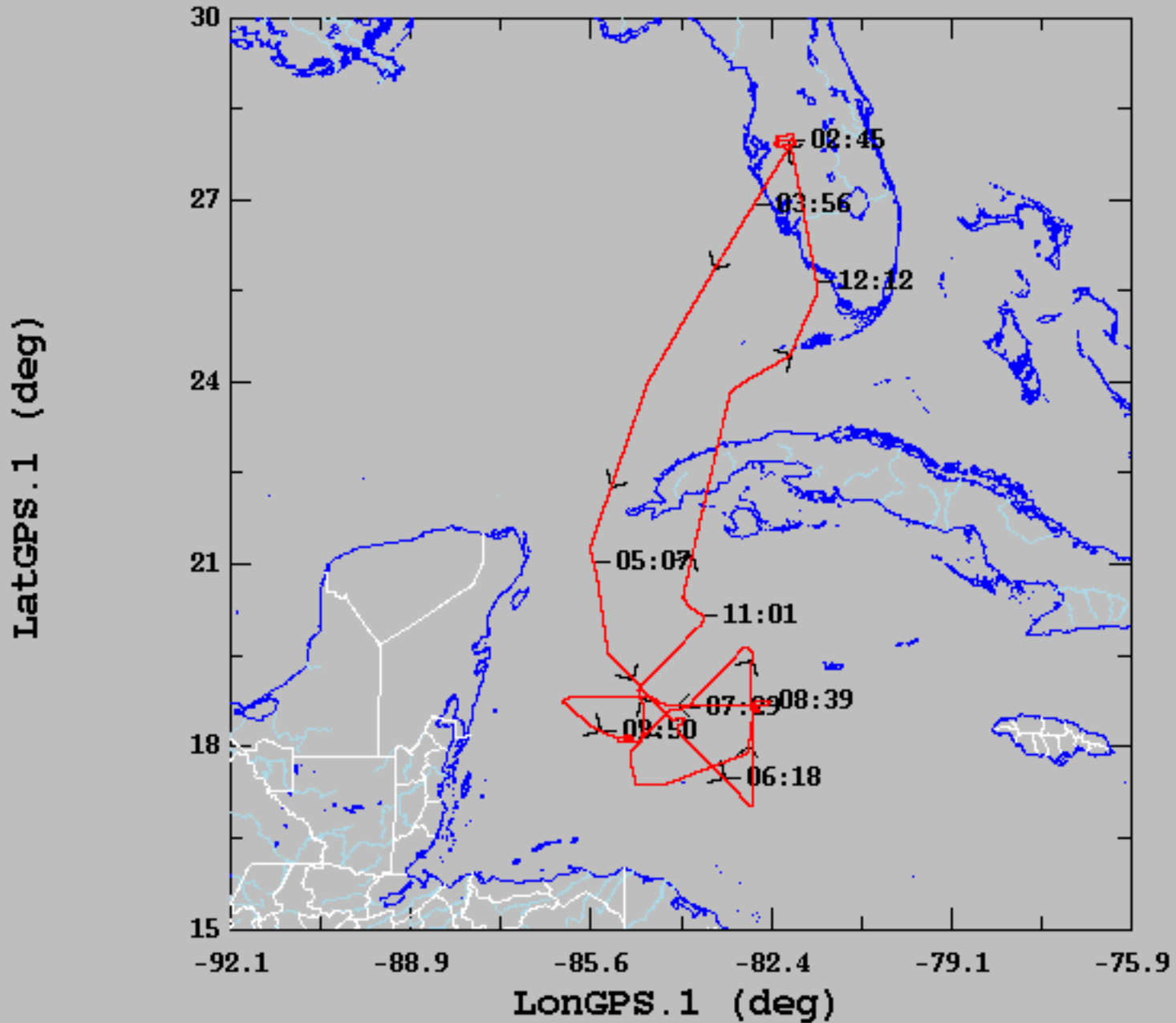
QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	X

NOTES:
<p>PDAlpha.2 and PDBeta.2 inoperative.</p> <p>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 unavailable.</p> <p>TDM.1 errant signal periodicity throughout flight, but trends well with TDM.2.</p> <p>TDM.3 inoperative.</p> <p>TRadU.1 unavailable.</p>

AOC GPS Dropwindsonde Log

Flight ID		ASPEN Operator/Flight Director(s)		ZAWISLAK / CARPENTER & HOLMES									
Mission ID		Storm Name/Track		AL28 / ZETA									
Sonde #	Ob#	Launch Time HMMSS(Z)	Sonde ID (last 5)	Ch #	Lat	Lon	lowest level wind ob	SFC Prs (mb)	Comments/Issues/QC/ASPEN Edits	KWBC #	Sonde Issues?		
1	2	052803	201620191	1	19.46	85.22	049 / 26	1004.5	IP NW		Good sonde		
2	3	053904	192950638	2	18.94	84.67	047 / 30	1003.3	MP NW		Good sonde		
3	4	055545	191930468	3	18.42	83.95	260 / 13	994	CTR #1		Good sonde		
4	7	060440	203240792	4	18.01	83.78	194 / 62	1000.5	RMW SE		Good sonde; ended at 128.25		
5	8	061355	203310497	5	17.64	83.39	197 / 33	1005.8	MP SE		Good sonde		
6	9	062750	203030516	6	17.05	82.76	220 / 24	1007.9	EP SE	LATE LAUNCH DETECT;	ended at 142.00; otherwise good sonde		
7	11	070539	202310758	7	19.59	82.89	148 / 36	1006.4	IP NE		Good sonde		
8	12	071618	202520376	8	19.14	83.36	150 / 40	1003.7	MP NE		Good sonde		
9	14	072449	202311548	1	18.79	83.72	165 / 67	999	RMW NE #1		Good sonde		
10	15	072711	202311646	2	18.70	83.82	155 / 73	996.6	RMW NE #2		Good sonde		
11	Won't send	073307	203310589	3	18.61	84.18	-	991	CTR #2	st-splash; Filter check RH fail, unable to dynamically adjust T, final smoothing failed tdry, RH-			
12	17	073425	203320221	4	18.55	84.25	290 / 18	992	CTR #2 Backup		Post-splash data; ended 132.25		
13	18	074344	203250050	5	18.13	84.68	294 / 25	998.4	MP SW		Removed FL T and RH		
14	Won't send	074433	202621386	6	18.10	84.72	-	-	MP SW Backup	Looks like there is post-splash data, but can't figure out where the sfc is			
15	19	075456	203030513	7	17.49	84.82	224 / 34	1001.8	EP SW		Post-splash data; ended 140.75		
16	21	084805	202311616	8	18.67	82.68	192 / 26	1005.6	IP E		Post-splash data; ended at 154.25		
17	22	085907	202311585	1	18.68	83.43	173 / 46	1005	MP E		Good sonde; ended at 152.25		
18	23	091608	202310757	2	18.82	84.54	300 / 21	992	CTR #3		Post-splash data; ended 137.25; remove launch wind		
19	26	092411	202311581	3	18.82	85.09	344 / 34	998.7	MP W	0 sats early on; no winds, had to remove lat/lon when no sats; ended at 154.75			
20	27	093817	202310739	4	18.79	86.05	350 / 15	1003.3	EP W		Good sonde		
21	29	102136	202520375	5	18.09	84.79	248 / 34	1000.5	IP S		Good sonde; removed launch winds		
22	31	103509	203030524	6	18.90	84.75	310 / 04	992	CTR #4		Removed launch T, RH, and winds		
23	32	104824	202311604	7	19.52	84.15	132 / 40	1003.4	MP NE	ended 136.75; kind of a discontinuity in lat/lon near sonde start, no sats but has lat/lon, so removed thos			
24	34	105912	202311584	8	20.02	83.61	141 / 32	1007.5	EP NE		Good sonde		

10/26/2020, 02:45:28-13:23:28



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.67	3.90	17.01	28.07
— LongGPS.1 (deg), 1 s/sec	-83.54	1.21	-86.11	-81.52