

AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter / Parrish
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:	20190828H1	FLT #:	19-93	AC:	Kahn	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	20:00Z	CP(s):	Abitbol	Zawislak, Jon	A/C Takeoff	1006.4	Good	Bad	Sent
To:	KLAL	ETA:	04:00Z		Rossi	Zhang, Jun			ASOS Takeoff	TBPB 2000Z 1005.8	22
Block Time		Flight Time		Nav(s):	Urato	Hazelton, Andy	A/C Land	1008.4			BTs
In:	3:52	Land:	3:29	FE(s):	Darby	Chang, Paul			ASOS Land	KLAL 0350Z 1008.9 mb	Good
Out:	19:58	T/O:	20:05	FD(s):	Sanchez	Jelenak, Zorana	Visitors:	Storm Number ID: (ie: AL072012)			0
Total:	7.90	Total:	7.40	SEB:	Parrish	Sapp, Joe			AL052019	TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA2 1105A Dorian
Sponsoring Org:	EMC			SSA:	Richards/T.	Carrion					
Program:	PRX			AVAPS:	Mascaro	Sans Souci					
Purpose:	TDR Mission Hurricane Dorian				McAlister	McFadden					
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X						
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X						
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X						
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

Flight ID:	20190828H1
Flight Director(s):	Parrish / Carpenter
UWZ.d mean:	0.00

Pressure Comparison		
	T/O	Land
Aircraft	1006.4	1008.4
Tower	TBPB 2000Z Q1012	KLAL 0350Z 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 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	✓ lasADDU.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	✓ TDM.1 ✓ TDM.2 ✓ 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)	<input checked="" type="checkbox"/>

NOTES:
<p>PDApha.2 and PDBeta.2 unavailable.</p> <p>Pitch.3 and Roll.3 unavailable.</p> <p>TTM.3 unavailable.</p> <p>TDM.3 tracks well with TDM.2 and TDM.1, but values are generally less reasonable.</p> <p>TRadU.1 unavailable.</p>

Project: Hurricane 2019

Mission: Hurricane Dorian

Flight ID: 20190828H1

Take Off: _____

Landing: _____

Flt Dir: Parrish Carpenter

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	182630063	1	-0.6	213026	TMR	NWS	IP	✓
2	182530393	2	-0.6	213544		NWS	Mid Pt. INRD	✓
3	151325176	5	-1.2	213959		AOC	Mid Pt. Mini	✓
4	182630100	3	-0.5	215210		NWS	Center	✓
5	182740107	4	-0.6	215220		AOC	mini center	✓
6	161545187	6	-1.0	2154		NESDIS	No Launch Adv. RMW	-
7	182230857	1	-0.5	220207		NWS	Mid Pt. OTRD	✓
8	161545679	6	-1.02	220222		AOC	Mid Pt. OTRD mini	✓
9	783010072	2	-0.5	221318		NWS	Turn Pt 1	✓
10	182640557	3	-0.2	223326		NWS	Turn Pt 2	✓
11	160745016	5	-1.03	224528		AOC	Mid Pt. INRD mini	✓
12	182230833	1	-0.5	224544		NWS	Mid Pt.	✓
13	182230849	2	-0.2	225504		NESDIS	RMW INRD eye well	✓
14	182840443	3	-0.5	225708		NESDIS	RMW OTRD eye well	✓
15	182840452	4	-0.5	230903		NWS	Mid Pt. OTRD	✓
16	161635047	5	-1.1	230922		AOC	Mid Pt. OTRD mini	✓
17	182230202	1	-0.5	231907		NWS	Turn Pt. 3	✓
18	182840455	1	-0.5	234228			Turn Pt. 4	✓
19	182230198	2	0.0	235410			Mid Pt. INRD	✓
20	161545009	5	-1.1	235424		AOC	mid Pt. INRD mini	✓
21	182601050	3	-0.5	000156		NESDIS	RMW INRD	✓
22	182230847	4	-0.5			NWS	Mid Pt. OTRD	✓
23	182230823	4	-0.3			B	NO DROP	
24	160745051	5	-1.07			AOC	Mid Pt. OTRD mini	✓
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								

12 NWS 7 AOC 4 NESDIS

Dropwindsondes

~~Doppler Wind Speed Scientist~~

Flight ID 20190828H1

Storm Dorian (ALOS)

Sonde
~~DWL Scientist~~

Hazleton

1105A

Start Time		Stop Time	Pattern or Az/EI		Notes				ob	comment
Drop #	Sonde ID	Time	Lat	Lon	Sfc Pres	Wind Dir/Spd	Hght	Location		
	D20190828_213026	213030	17.27	65.38	1008.8	205/17	10		02	Water
	D20190828_213944	213948	17.95	65.39	1008.6	200/19	10		03	
Mini	D20190828_213944	213959	18.84	65.39	995	115/22	10		04	
	D20190828_215210	215210	18.86	65.40	995	115/22	10	Eye	04	
Mini	D20190828_215226	215226	18.86	65.40	994	125/25	10	Eye	05	
	D20190828_220207	220207	19.57	65.44	1009	120/42	10	Eye	05	
Mini	D20190828_220222	220205	19.56	65.43	1009	121/42	10			
	D20190828_221318	221317	20.3	65.49	—	—	—		06	Bad SFC
	D20190828_223326	223329	19.66	66.88	1009	055/19	10		08	Water
	D20190828_224544	224530	19.27	66.18	1008	050/16	10		09	
Mini	D20190828_224528	224545	19.28	66.19	1010	30/17	10			
	D20190828_225504	2254	18.97	65.58	—	—	—	Eye wall	10	No SFC
	D20190828_225708	2257	18.92	65.41	1001	180/62	10	Eye wall	11	
	D20190828_230903	230904	18.55	67.72	1011.5	165/27	10		12	
Mini	D20190828_230922	230923	18.52	67.70	1012	155/23	10			

Dropwindsonde

Doppler Wind Lidar Scientist

Flight ID 20190828H1

Storm Dorian OSL

DWL Scientist

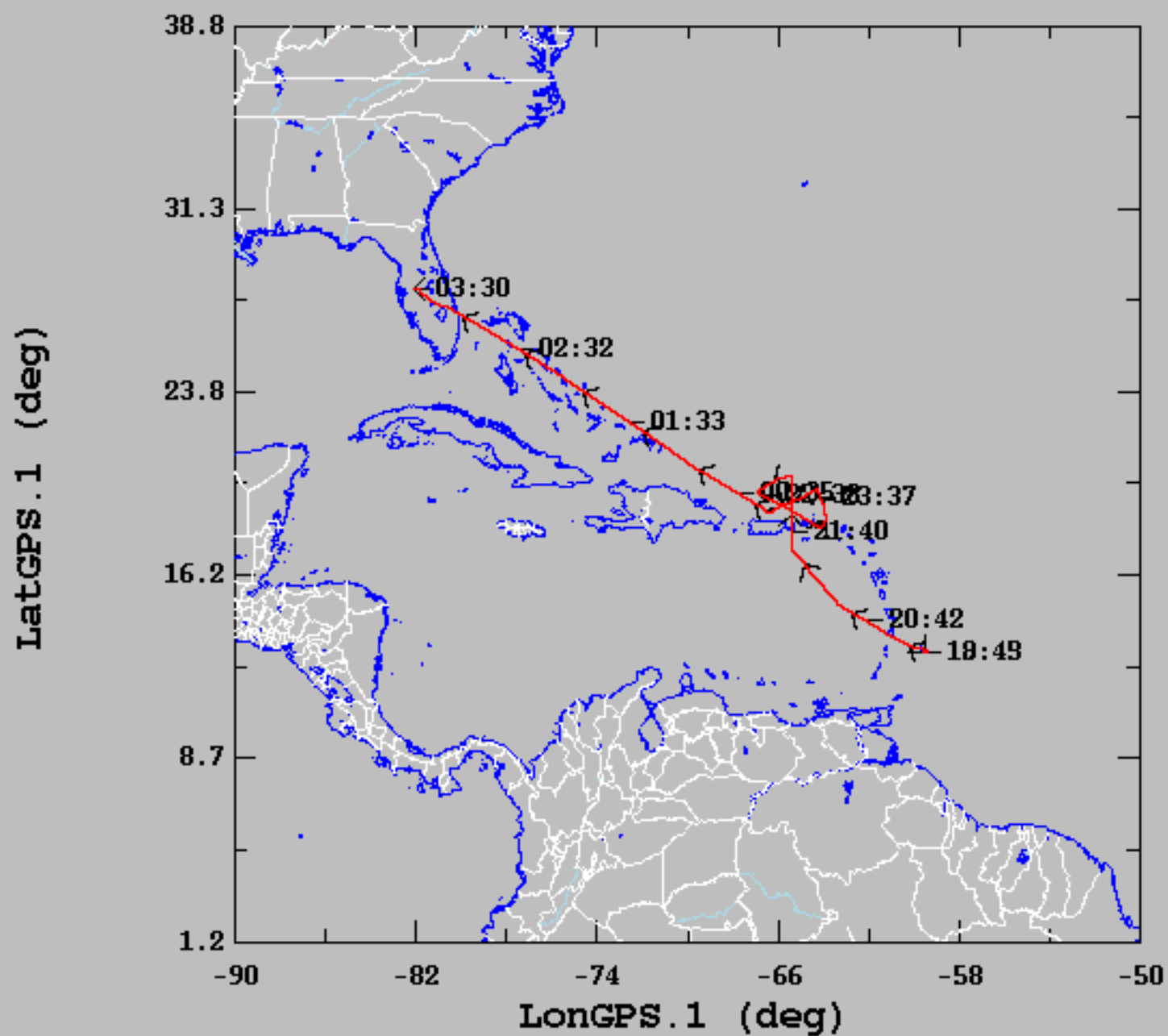
Start Time		Stop Time		Pattern or Az/El		Notes			
Drop#	Sonde ID	Time	Lat	Lon	66Pres	Wind Dir/Spd	Height	Location	
16	D20190828_2309	231930	19.23	69.13	1012	100/22	10		
17	D20190828_23129	231231	19.79	69.28	1011	140	10		
18	D20190828_235410	235409	19.71	65.03	1012	120/30	10		
19	D20190828_235429	235427	19.71	65.05	1012	107/32	10		
20	D20190829_000156	240200	19.26	65.55	998	120/79	10	Eye wall	
21	D20190829_001513	241530	18.79	66.33	1010	300/07	10		
22	D20190829_001532	241539	18.70	66.35	1010	312/8	10		

Mini

Mini

db Comments
13
15
16
17 wet
18

2019-08-28, 18:45:37-27:30:37



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	19.13	4.36	13.07	27.99
— LongGPS.1 (deg), 1 s/sec	-67.27	6.42	-82.03	-59.39