

AXBTS	0	0	0
AXCPs	0	0	0
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:	20190829H2	FLT #:	19-95	AC:	Kibbey	Scientists:	Pressure		Dropsondes																																																																																		
From:	KLAL	ETD:	20:30Z	CP(s):	Kahn	Rogers, Rob	A/C Takeoff	1007.2	Good	Bad	Sent																																																																																
To:	KLAL	ETA:	04:30Z		Rossi	Sellwood, Kathryn	ASOS Takeoff		KLAL 2050Z 1007.3 mb	17	0	17																																																																															
Block Time		Flight Time		Nav(s):	Richards/B.	Hazleton, Andy		A/C Land		1009.9	BTs																																																																																
In:	5:03	Land:	4:56	FE(s):	Darby	Sapp, Joe	ASOS Land		KLAL 0450Z 1010.6 mb		Good	Bad	Sent																																																																														
Out:	20:46	T/O:	20:57	FD(s):	Tuffnel	Visitors:	ASOS Land	0		0	0																																																																																
Total:	8.28	Total:	7.98	SEB:	Parrish				Kovalovich, Aria			Storm Number ID:		AL052019																																																																													
Sponsoring Org:	EMC			SSA:	Peek	Linsmayer, Lauren	(ie: AL072012)		NOAA2 1605A DORIAN																																																																																		
Program:	PRX			AVAPS:	McAlister	Youpel, Mary	TCPOD/WSPOD Mission					OBSERVATIONS																																																																															
Purpose:	TDR Mission Hurricane Dorian				Lynch/T.		(ie: NOAA2 2418A SANDY)		<table border="1"> <thead> <tr> <th>AS REQUIRED BY ORM</th> <th>Y</th> <th>N</th> <th>REMARKS</th> <th>Fix Number</th> <th>Obs Number</th> <th>Fix Time</th> <th>SLP</th> </tr> </thead> <tbody> <tr> <td>VOLCANIC ASH</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SCIENCE MISSION WITHIN BDRY LAYER</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LACK OF PRECIPITATION</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RELATIVE HUMIDITY ≥ 80%</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LARGE AIR-SEA TEMP GRADIENT</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>HIGH SURFACE WINDS</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LONG FETCH / DURATION OF SFC WND</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SEA SALT ACCRETION FORECAST</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SEA SALT ACCRETION OBSERVED</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						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		
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*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Flight ID:	20190829H2
Flight Director(s):	Parrish / Carpenter
UWZ.d mean:	-0.01

Pressure Comparison		
	T/O	Land
Aircraft	1007.2	1009.9
Tower	KLAL 2050Z 1007.3 mb	KLAL 0450Z 1010.6 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	X LatGPS.1 X LatGPS.2 ✓ LatGPS.3 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	X LonGPS.1 X 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	X PQM.1 ✓ PQM.2 ✓ PQM.3 X 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)	<input checked="" type="checkbox"/>

NOTES:
<p>Temporary fault in GPS.1 and GPS.2 early in flight.</p> <p>PDApha.2 and PDBeta.2 unavailable.</p> <p>Intermittent failures with PQM.1 and PQM.4.</p> <p>Pitch.3 and Roll.3 unavailable.</p> <p>TTM.3 unavailable.</p> <p>Trend of TDM.1 and TDM.3 are reasonable but data values are generally unrepresentative. Unrealistic spike in TDM.2 noted at ~2350z.</p> <p>TRadU.1 unavailable.</p>

Project: Hurricane 2019

Mission: H Dorian

Flight ID: 20190829 HZ

Take Off: 20:57

Landing: 04:55 Z

Flt Dir: Parrish / Computer

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	182940542	1	0	23:23	TL	NWS		✓
2	182940418	2	0	23:35				✓
3	182940420	3	-.3	23:50			Center Drop	✓
4	182940387	4	-.2	02:39			Mid Point	✓
5	182940402	1	-.4	00:13			End Point	✓
6	182520047	2	-.2	00:30			End Point	✓
7	182940419	3	-.4	00:47			Mid Point	✓
8	182740413	4	-.4	00:56		MISDS	RMLW	✓
9	182740413	1	-.4	01:10		NWS	Mid Point	✓
10	182930364	2	-.8	01:20			End Point	✓
11	182940557	3	-.5	01:38			End Point	✓
12	182520028	4	-.4	01:50			Mid Point	✓
13	182940556	1	-.5	02:01			Center - Lost 400	NO
14	182940555	2	-.5	02:02		MISDS	RMLW - Lost 400	NO
15	182530200	3	-.4	02:09		MISDS		
16	182531180	4	-.7	02:13		NWS		
17	182740661	1	-.5	02:24				
18	182940398	2	-.6	→	BACKUP only = NO DROP			
19								
20								
21								
22								
23								
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32								
33								
34								

Telen

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm *Dorian*
Mission ID *1505A*

Flight ID *20190829H2*
(exp. 0213A)

Dropsonde Scientist *Schlosser*
Dropsonde Scientist
Deg/minutes

AVAPS Operator *Terry Lyndon*
AVAPS Operator
Page# *1*

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc.	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
1	182940542	2323	2347	6930	1013	060/16	10		IP	2
Comments <i>ended at 242.75</i>										
2	182940418	2335	2323	6848	1010	030/34	10		mid	3
Comments <i>good</i>										
3	182940420	2350	2250	6757	979	130/16	10		Center	4
Comments <i>end at 17500</i>										
4	182940387	0002	2227	6714	1009	180/37	10		mid	5
Comments										
5	18294042	0013	2207	6635	1013	160/29	10		End leg	6
Comments <i>end at 247.75</i>										
6	182920047	0036	2343	6638	1012	120/30	10		Leg 2 End	8
Comments <i>end at 239.75</i>										
7	182940419	0047	2339	6737	1016	106/41	10		mid	9
Comments <i>good</i>										
8	182740413	0056	235	6757	991	80/80	12		Rmw	10
Comments <i>rmw no center end 253.75</i>										
9	182940400	109	2255	6847	1010	315/23	10		mid	11
Comments <i>end at 253.25</i>										
10	182930364	120	2215	6928	1013	316/15	10		END	12
Comments										



NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm
Mission ID

Flight ID
(exp. 0213A)

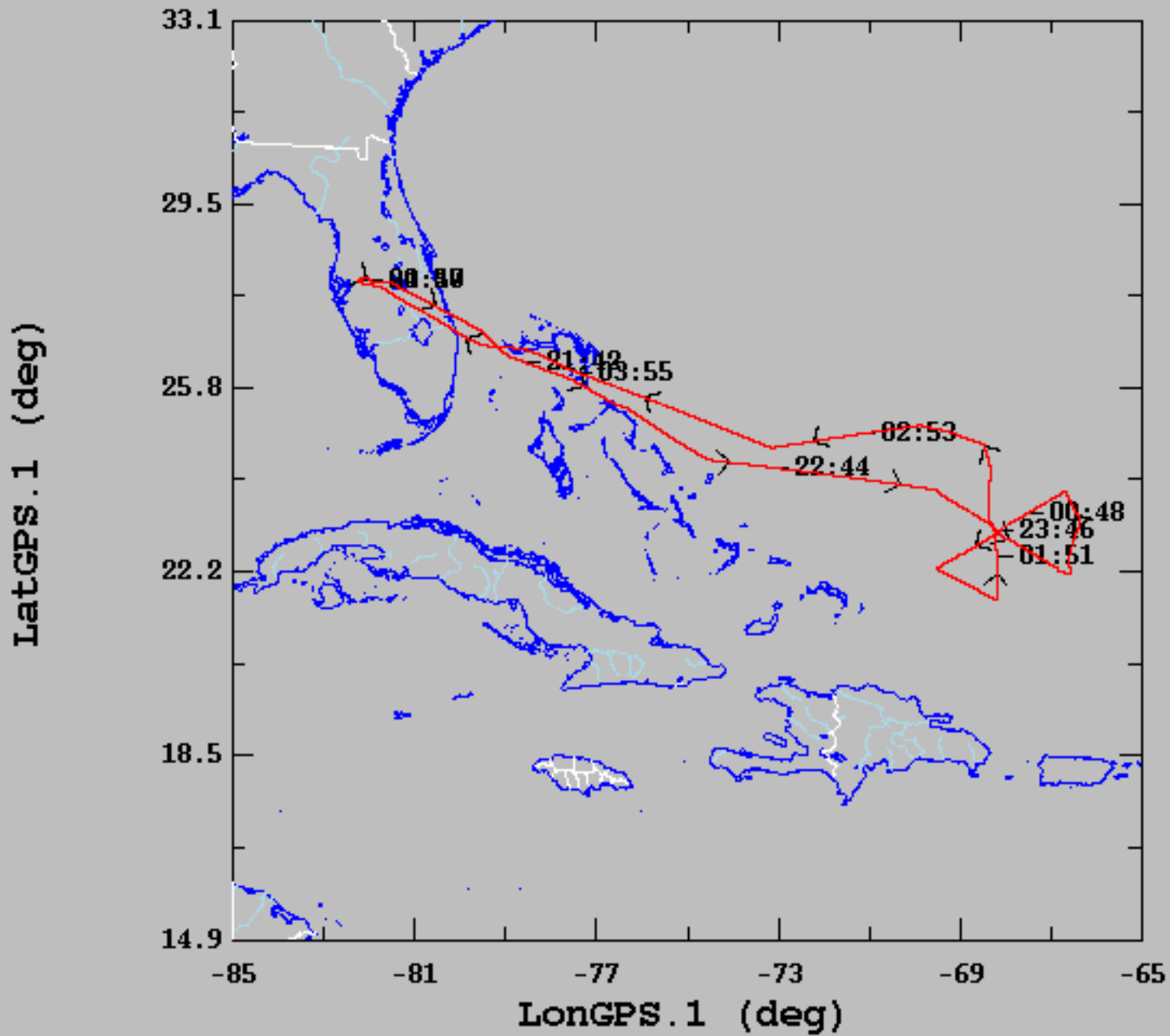
Dropsonde Scientist
Dropsonde Scientist

AVAPS Operator
AVAPS Operator

Page#

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (C)	Eye/Eyewall, Rainband, etc,	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
11	182940557	138	2137	6811	1012	253/19	10		END	14
Comments										
12	182520028	149	2223	6810	1010	266/28	10		MID	15
Comments										
13	182940556	201	2329	6818	N/A	81/14	200		center	16
Comments cut out at 200 meters										
14	182940555	202	2314	6819	---	---	---		Rmw	17
Comments cut out near ac										
15	182530200	209	2340	6819	1009	55/51	10		Chang	18
Comments										
16	182531180	212	2354	6819	1011	74/32	10		MID	19
Comments LLD... override lat/lon junk at bottom										
17	182740661	223	2459	6827	1013	80/21	10		END	20
Comments end 253.75										
Comments										
Comments										
Comments										

08/29/2019, 20:40:04-28:57:40



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.79	1.82	21.63	27.99
— LongGPS.1 (deg), 1 s/sec	-73.26	5.19	-82.21	-66.34