

N42RF ERROR SUMMARY
20190830H2 H. Dorian TDR

Flight ID: 20190830H2

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.2
Vertical Accelerometer	AccZfilterI-GPS.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2019/MET/20190830H2

Local Met Data	Takeoff KLAL (2042Z)	Landing KLAL (1914Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.31252
AttackAngleSlope		6.06758
SlipAngleIntercept		0.4295
SlipAngleSlope		7.17033

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

No PDAlpha.2. No PDABeta.2
Used TD.M.2
IAS failure 021722Z-021741Z.
3 Hurricane penetrations.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	33	33	33
Test sondes	0	0	0
AXBTS	2	1	1
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Parrish
Phone #: 863-500-3985

ACAT-4 Version = 7.2.2

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest												
FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20190830H2	FLT #:	19-97	AC:	Kibbey ✓	Scientists:		Pressure		Dropsondes		
From:	KLAL	ETD:	20:30Z	CP(s):	Abitbol ✓	Rogers, Rob ✓		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	04:30Z		Rossi ✓	Hazelton, Andy ✓				33	0	33
Block Time		Flight Time		Nav(s)	Urato ✓	Sellwood, Kathryn ✓		ASOS Takeoff		BTs		
In:	0353	Land:	0347		Sanchez ✓	Jelenak, Zorana ✓		A/C Land		Good	Bad	Sent
Out:	2034	T/O:	2043	FE(s)	Tuffnel ✓	Sapp, Joe ✓				2	1	
Total:	0.00	Total:	0.00	FD(s):	Parrish ✓	Visitors:		ASOS Land				
	7.3		7.1		Sears ✓	McFadden ✓		Storm Number ID:		AL052019		
Sponsoring Org:	EMC			SEB:	McAlister ✓	Todd Reid ✓		(ie: AL142018)				
Program:	PRX			SSA:	Mascaro ✓	Shasta Shaffer ✓		TCPOD/WSPD Mission		NOAA2 2105A Dori		
Purpose:	TDR Mission Hurricane Dorian			AVAPS:	Richards/T ✓			(ie: NOAA2 0614A MICHAEL)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X			1		2259	E951	
SCIENCE MISSION WITHIN BDRY LAYER					X			2		0003	750	
LACK OF PRECIPITATION					X			3		0106	948	
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							
Remarks: <i>6 mins stopped</i>								*Highlighted items must be completed before departure.				

H.D.
3 hurricane pennies

Cat 3

N42RF_Crew_1 ▾ N42RF_Crew_2 ▾ N43RF_Crew_1 ▾ N43RF_Crew_2 ▾ N49RF_Crew_1 ▾ N49RF_Crew_2 ▾

APPENDIX 1 – P3 QC Checklist

Flight ID:	2019083012
Flight Director(s):	Parrish

Pressure Comparison		
	T/O	Land
Aircraft	1007.5	1007.5
Tower		

UWZ.d mean: 0.03 m/s

Date start 2014301
Date end 034701

UWZ 201328

	Raw 1Hz Mean File Parameters				C File Parameters	
Accelerometer	<input checked="" type="checkbox"/> AccAXI.1	<input checked="" type="checkbox"/> AccAYI.1	<input checked="" type="checkbox"/> AccAZI.1	<input checked="" type="checkbox"/> AccZfilter-GPS.1	<input checked="" type="checkbox"/> AccZref	
	<input checked="" type="checkbox"/> AccAXI.2	<input checked="" type="checkbox"/> AccAYI.2	<input checked="" type="checkbox"/> AccAZI.2	<input checked="" type="checkbox"/> Acc-Zfilter-GPS.2		
	<input checked="" type="checkbox"/> AccAXI-GPS.1	<input checked="" type="checkbox"/> AccAYI-GPS.1	<input checked="" type="checkbox"/> AccAZI-GPS.1			
	<input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI-GPS.2			
Altitude	<input checked="" type="checkbox"/> AltGPS.1	<input checked="" type="checkbox"/> AltI-GPS.1	<input checked="" type="checkbox"/> AltPaADDU.1	<input checked="" type="checkbox"/> AltRA.1	<input checked="" type="checkbox"/> ALTref	<input checked="" type="checkbox"/> AltRA1.c
	<input checked="" type="checkbox"/> AltGPS.2	<input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTPA.d	<input checked="" type="checkbox"/> AltRA2.c
	<input checked="" type="checkbox"/> AltGPS.3				<input checked="" type="checkbox"/> ALTGA.d	
	<input checked="" type="checkbox"/> AltGPS.4					
Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1	<input checked="" type="checkbox"/> GsYI-GPS.1	<input checked="" type="checkbox"/> GsZI-GPS.1		<input checked="" type="checkbox"/> GSXref	
	<input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.2		<input checked="" type="checkbox"/> GSYref	
Lat/Lon	<input checked="" type="checkbox"/> LatGPS.1	<input checked="" type="checkbox"/> Lati-GPS.1	<input checked="" type="checkbox"/> LonGPS.1	<input checked="" type="checkbox"/> Loni-GPS.1	<input checked="" type="checkbox"/> LATref	
	<input checked="" type="checkbox"/> LatGPS.2	<input checked="" type="checkbox"/> Lati-GPS.2	<input checked="" type="checkbox"/> LonGPS.2	<input checked="" type="checkbox"/> Loni-GPS.2	<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LonGPS.3			
	<input checked="" type="checkbox"/> LatGPS.4		<input checked="" type="checkbox"/> LatGPS.4			
Pressure	<input checked="" type="checkbox"/> PDALPHA.1	<input checked="" type="checkbox"/> PQALPHA.1	<input checked="" type="checkbox"/> PQM.1	<input checked="" type="checkbox"/> PSM.1	<input checked="" type="checkbox"/> PDALPHAref	<input checked="" type="checkbox"/> PQMref
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.2	<input checked="" type="checkbox"/> PSM.2	<input checked="" type="checkbox"/> PDBETAref	<input checked="" type="checkbox"/> PQ.c
	<input checked="" type="checkbox"/> PDBETA.1		<input checked="" type="checkbox"/> PQM.3	<input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PQALPHAref	<input checked="" type="checkbox"/> PSMref
	<input checked="" type="checkbox"/> PDBETA.2		<input checked="" type="checkbox"/> PQM.4		<input checked="" type="checkbox"/> PQBETAref	<input checked="" type="checkbox"/> PS.c
Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> IasADDU.1		<input checked="" type="checkbox"/> IAS.d	<input checked="" type="checkbox"/> TAS.d
Pitch/Roll	<input checked="" type="checkbox"/> PitchI.1	<input checked="" type="checkbox"/> PitchRateI.1	<input checked="" type="checkbox"/> RollI.1	<input checked="" type="checkbox"/> RollRateI.1	<input checked="" type="checkbox"/> PITCHref	
	<input checked="" type="checkbox"/> PitchI.2	<input checked="" type="checkbox"/> PitchRateI.2	<input checked="" type="checkbox"/> RollI.2	<input checked="" type="checkbox"/> RollRateI.2	<input checked="" type="checkbox"/> ROLLref	
	<input checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.3		
Temp/Dewpt	<input checked="" type="checkbox"/> TTM.1	<input checked="" type="checkbox"/> TDM.1	<input checked="" type="checkbox"/> TRadD.1		<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref
	<input checked="" type="checkbox"/> TTM.2	<input checked="" type="checkbox"/> TDM.2	<input checked="" type="checkbox"/> TRadS.1		<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d
	<input checked="" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadU.1			
Miscellaneous (must check)					<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
					<input checked="" type="checkbox"/> DPJ_WSZ	<input checked="" type="checkbox"/> WD.d
					<input checked="" type="checkbox"/> HUM	

FLID_Mission_Documents.pdf:

<input type="checkbox"/>	Error Summary
<input type="checkbox"/>	Crew Manifest
<input type="checkbox"/>	QC checklist
<input type="checkbox"/>	Dropwindsonde Log(s) – AVAPS and FD if completed
<input type="checkbox"/>	Flight Track
<input type="checkbox"/>	Miscellaneous FD notes

NOTES:

No PDAlpha.2 TDM.2 went collect
 No PDBeta.2 IAS data failure 021722Z-021741Z
 PQM.1 reports
 3 hurricane penetrations.

Project: Hurricane 2019

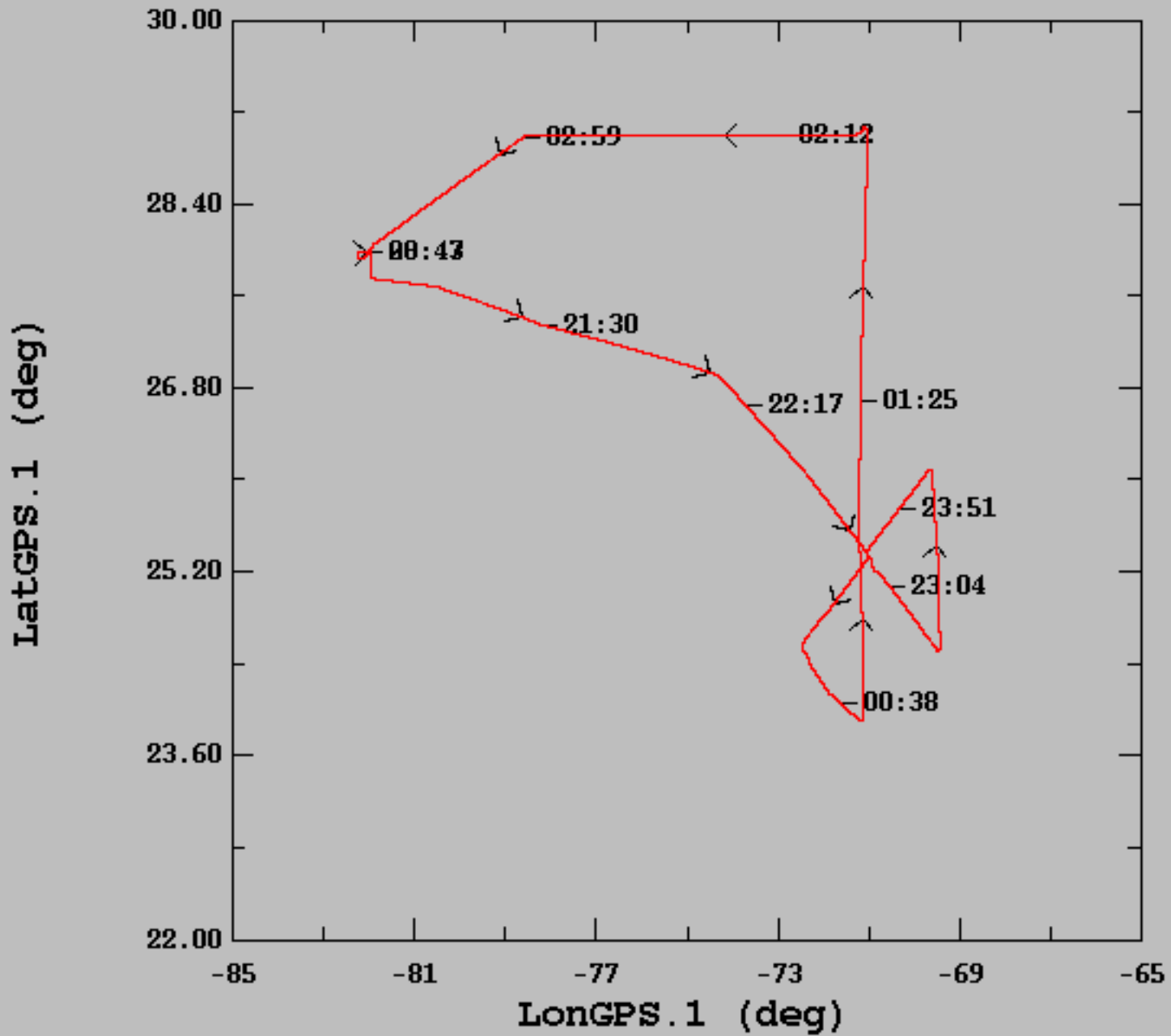
Mission: Hurricane DorianFlight ID: 20190830H2Take Off: 2043 Z

Landing:

Flt Dir: Parrish/Sears

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	184750499	1	-0.6	223523	TMJR	NWS	IR	✓
2	184750572	2	-0.3	2246			Mid Pt 1	✓
3	184050022	3	-0.5	2257			Rmw inside inner eye	✓
4	184750436	4	-0.3	2259			center	✓
5	184040036	1	-0.4	2300			Rmw eye wall out	✓
6	184750571	2	-0.5	2302		NESDIS		✓
7	184030823	5	-0.5	2309		NWS	Mid Pt. OTSD	✓
8	184750426	1	-0.4	2316			Turn Pt. 1	✓
9	184750465	2	-0.6	2340			Turn Pt. 2	✓
10	16154504	6	-1.6	234802		AOC	Rainband 1 mini sonde	✓
11	160745015	7	-2.4	234847		AOC	Rainband 2 mini sonde	✓
12	161635124	8	-1.2	234944		AOC	Rainband 3 mini sonde	✓
13	184750579	1	-0.4	2352		NWS	mid Pt. 3	✓
14	184050024	2	-0.4	235909		HRD	Rmw outer eye wall	✓
15	182940543	3	-0.5	0000		NWS	Rmw middle eye wall	✓
16	18252162	4	-0.4	0001		HRD	Rmw inner eye wall	✓
17	182730869	1	-0.4	0003		HRD	Rmw inner eye wall	✓
18	182740649	5	-0.5	0004		NWS	Rmw mid eye wall	✓
19	182730862	6	-0.4	0006		HRD	Rmw outer eye wall	✓
20	161545150	6	-1.6	0015		AOC	Rainband 4 mini sonde	✓
21	161635119	7	-0.8	0015			Rainband 5 mini sonde	✓
22	161635118	8	-0.9	0017			Rainband 6 mini sonde	✓
23	182610109	1	-0.5	0018		NWS	mid Pt. 4	✓
24	182531165	2	-0.4	0025			Turn Pt. 3	✓
25	182740663	3	-0.4	0044			Turn Pt. 4	✓
26	182640461	1	-0.4	0055			mid Pt. 5	✓
27	182531183	2	-0.4	0103		NESDIS	Rmw	✓
28	182610098	4	-0.4	0104		NWS	eye wall	✓
29	182230736	3	-0.2	0106			center Combo	✓
30	182230748	5	-0.2	0107			Rmw	✓
31	182620858	6	-0.4	0109		NESDIS		✓
32	182230744	1	-0.4	0119		NWS	Mid Pt. 6	✓
33	182730864	2	-0.3	0129			End Pt. Combo AXIST	✓
34	182230728	3	-0.2	0155		NWS	Drop 1 NHC	✓

2019-08-30, 20:43:01-27:47:00



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	26.83	1.56	23.90	29.06
— LongGPS.1 (deg), 1 s/sec	-74.31	4.00	-82.22	-69.41