

N42RF ERROR SUMMARY
20181009H2

Flight ID: 20181009H2

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/2018/MET/20181009H2

Local Met Data	Takeoff KLAL (2010Z)	Landing KLAL (0556Z)
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.

PDAlpha.2 Inop. This failure did not affect the real-time or post processed collection as PDAlpha.1 was used as the source for both.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	28	28	28
Test sondes	0	0	0
AXBTs	23	19	19
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Holmes
Phone #: 863-500-3983

ACAT-4 Version = 7.2.2

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20181009H2	FLT #:	3	AC:	PRICE	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2000Z	CP(s):	ROSSI	Joe Cione (AOML) Kelly Ryan (HRD) Alex Feist (Raytheon)	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0430Z		MITCHKELL		Wx Station Takeoff		28	0	28
Block Time		Flight Time		Nav(s):	FREEMAN				BTs		
In:	0603	In:	0556	FE(s):	HEYTEK SANCHEZ	Evan Kalina Stan Goldenberg (HRD)	A/C Land		Good	Bad	Sent
Out:	2001	Out:	2010	FD(s):	HOLMES	Joe Sapp (NESDIS)	Wx Station Land		19	4	15
Total:	10.0	Total:	9.8	SEB:	GREENE	KEITH (AOC) Josh Wadler	Storm Number ID: (ie: AL072012)		AL142018		
Sponsoring Org:	EMC			SSA:	MASCARO	Visitors:	TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)		NOAA2 1314A MICHAEL		
Program:	PRX			AVAPS:	MCALISTER						
Purpose:	TDR/Coyote						OBSERVATIONS				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	1	2128	956	
SCIENCE MISSION WITHIN BDRY LAYER					X	7X Penny's CAT III	2	2	2307	955	
LACK OF PRECIPITATION					X		3	3	0015	951	
RELATIVE HUMIDITY ≥ 80%				X		3X Coyote	4	4	0210	948	
LARGE AIR-SEA TEMP GRADIENT					X	4X EMC					
HIGH SURFACE WINDS				X							
LONG FETCH / DURATION OF SFC WND				X							
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X						

Additional Remarks:

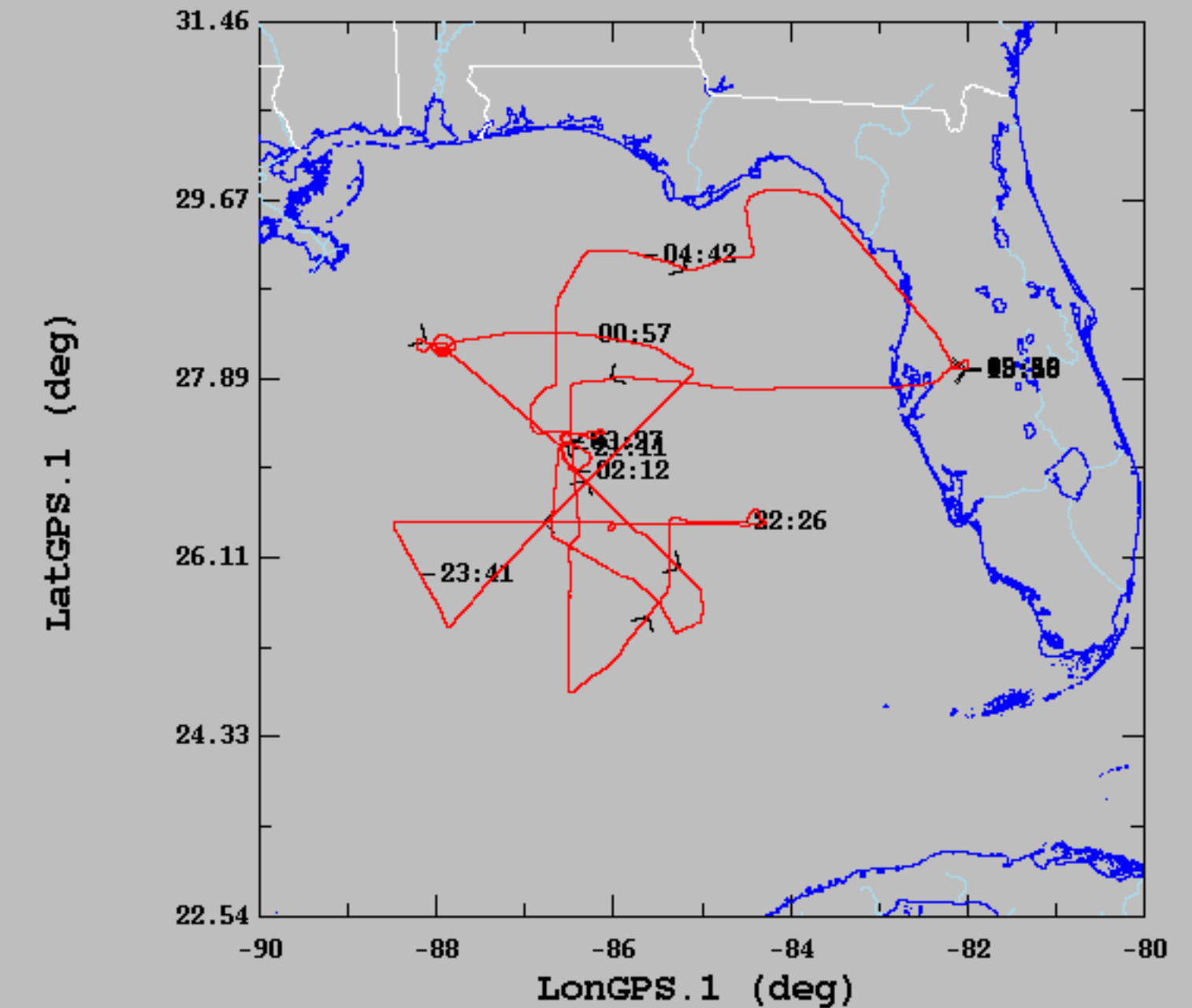
Cockpit Gmax:

Gmin:

*Highlighted items must be completed before departure.

20181009H2 Flight Track

10/09/2018, 18:40:57-29:58:05



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.35	1.11	24.77	29.77
LongGPS.1 (deg), 1 s/sec	-85.37	1.90	-88.48	-81.97

APPENDIX 1 – P3 QC Checklist

Flight ID:	20181009H2
Flight Director(s):	Holmes

Pressure Comparison		
	T/O	Land
Aircraft	100%	—
Tower	100%	—

UWZ.d mean: 0.07 m/s

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

FLID_Mission Documents.pdf:

✓ Error Summary
✓ Crew Manifest
✓ QC checklist
✓ Dropwindsonde Log(s) – AVAPS and FD if completed
✓ Flight Track
✓ Miscellaneous FD notes

NOTES:

PDAlpha.2 In P...

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Hurricane 2018

Mission: H. Michael

Flight ID: 20181009H2

Take Off: 1600L

Landing:

Flt Dir: Holmes

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	163255022	1	Ø	2161	MAC	PRX	Combo North 1 st pass	✓
2	162825072	2	Ø	2114			Combo 1 st pass 1 st mid	✓
3	132335138	1	-1.0	2128			Combo 1 st Center IR	✓
4	163025078	3	Ø	2142			Combo 1 st pass and mid out	✓
5	163255020	4	Ø	2149			Combo 1 st pass end point	✓
6	164015090	1	Ø	2238			Combo 2 nd pass start point	✓
7	162835003	2	-1.0	2252			Combo 2 nd pass mid in	✓
8	122225048	3	-1.6	2306			Combo 1 st IR / 2 nd Center	✓
9	163025081	4	Ø	2310			RMW / 2 nd pass / out wall	✓
10	163535039	1	-0.2	2321			Combo 2 nd pass / mid out	✓
11	162825010	2	+0.4	2333			Combo 2 nd pass / end point	✓
12	163455255	3	Ø	2351			Combo 3 rd pass / start	✓
13	164625010	4	-0.1	0003			Combo / mid In / 3 rd	✓
14	132335066	1	-1.3	0015			Combo 1 st IR / Center / 3 rd	✓
15	164625015	2	-0.2	0019			RMW / 3 rd pass / outland	✓
16	163835028	3	-0.8	0021			HRD request	✓
17	163025076	4	Ø	0030			Combo 3 rd mid / out	✓
18	163025082	1	-0.6	0041			Combo 3 rd end point	✓
19	163535040	2	-0.2	0144			Combo 4 th start IR	✓
20	112065215	3	-0.9	0156			Combo 4 th pass / mid point	✓
21	160625189	4	+1.0	0210			Combo / Center / 4 th pass	✓
22	164015099	2	-0.0	0213			RMW	✓
23	162815257	1	-1.5	0230			Combo 4 th pass / mid out	NO Launch Detect
24	16345524	2	+0.6	0239			4 th pass / End Point	
25	1122225080	1	-1.8	0331			Coyote sonde IR	
26	132235082	2	Ø	0339			1) IR / stopped short	
27	13205526	3	0	0342			1) IR	
28	132225060	4	-1.0	0354			1) MW / mae ops	
29	132345067	1	-0.8	355			1) MW	
30	132335090	2	-1.8	0412			Just for kicks / IR	
31	114955050	3	-1.0					
32								
33								
34								