

N42RF ERROR SUMMARY
20171007H1

Flight ID: 20171007H1

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/2017/MET/20171007H1

Local Met Data	Takeoff KLAL (0644Z)	Landing KLAL (1422Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.35256
AttackAngleSlope		6.11627
SlipAngleIntercept		0.23
SlipAngleSlope		6.9614

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.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	22	22	22
Test sondes	0	0	0
AXBTs	21	11	11
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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

ACAT-4 Version = 7.1

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	201701007H1	FLT #:		AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0800Z	CP(s):	Kahn	Jon Zawislak (LPS)	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1600Z		Rossi	Heather Holbach			22	0	22
Block Time		Flight Time		Nav(s):	Freeman	Kathryn Sellwood	Wx Station Takeoff		BTs		
In:	1529	In:	1522			Brad Klotz			Good	Bad	Sent
Out:	0733	Out:	0744	FE(s):	Darby	Josh Wadler (Univ MI)	A/C Land				
					Tufnell, Todd						
Total:	7.9	Total:	7.6	FD(s):	Holmes		Wx Station Land		11	10	11
Sponsoring Org:		HRD		SEB:	Peek		Storm Number ID:		AL162017		
Program:		PHX					(ie: AL072012)				
Purpose:		Research (HRD AIPEX)		SSA:	T. Lynch		TCPOD/WSPOD Mission		NOAA2 WD16A NATE		
							(ie: NOAA2 2418A SANDY)				
AVAPS: Underwood								OBSERVATIONS			
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				X			1	1	0930	986	
SCIENCE MISSION WITHIN BDRY LAYER				X			2	2	1028	986	
LACK OF PRECIPITATION				X			4	3	1208	986	
RELATIVE HUMIDITY ≥ 80%			X		5x (CAT I) Annies						
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							

Additional Remarks:

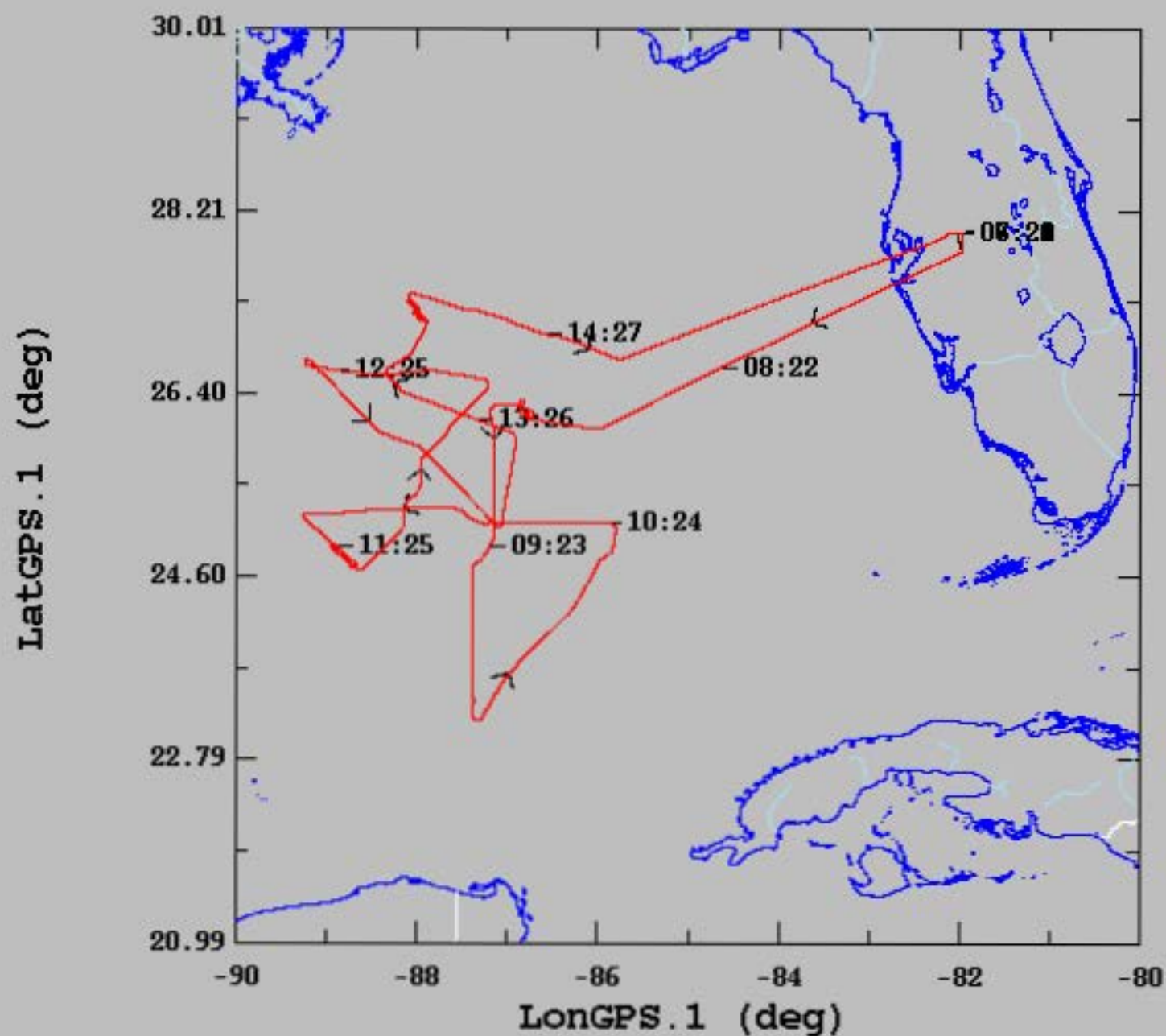
*Highlighted items must be completed before departure.

Cockpit Gmax:

Gmin:

20171007H1 Flight Track

10/07/2017, 06:20:45-15:28:28



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	26.31	1.27	23.18	27.99
— LongGPS.1 (deg), 1 s/sec	-85.98	2.41	-89.26	-81.95

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Hurricane 2017

Mission: Hurricane Nate

Flight ID: 2017100741

Take Off: 0745Z

Landing:

Flt Dir:

Holmes

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	163845084	1	-1.2	0901	NGU	HRD	IP	✓
2	163845168	2	-1.2	1913			Mid, IB	✓
3	162825023	3	-1.5	0926			Center	✓
4	162735027	4	-0.9	0936			Mid OB	✓
5	172620187	1	-0.7	0927			RD41 Test Center	✓
6	163815036	2	-1.5	0951			Turn, OB	✓
7	172620193	3	-1.0	0936			RD41 Test, Mid OB	✓
8	164015082	4	-1.5	1023			Turn, IB	✓
9	164015178	1	-1.6	1034			Mid, IB	✓
10	172640359	2	-0.8	1034			RD41 Test, Mid IB	✓
11	163815034	3	-1.5	1047			Center	✓
12	172610297	4	-0.9	1047			RD41 Test, Center	✓
13	163845095	1	-1.5	1058			Mid, OB	✓
14	163815084	2	-1.2	1108			Turn, OB	✓
15	164015153	3	-1.1	1134			Turn, IB	✓
16	164015086	4	-1.7	1142			Mid, IB	✓
17	163815030	1	-1.6	1158			Mid, OB	✓
18	163835092	2	-1.1	1205			Turn, OB	✓
19	163845088	3	-1.2	1229			Turn, IB	✓
20	163845008	4	-1.9	1241			Mid, IB	✓
21	163845036	1	-1.3	1251			Center	✓
22	172610294	2	-0.9	1251			RD41 Test, Center	✓
23	163845153	3	-1.0	1257			Mid, OB	✓
24	172610291	4	-0.9	1257			RD41 Test	✓
25	164015122	1	-1.2	1310			Turn, OB, Sonde only	✓
26	163815026	2	-1.2	1329			Conv Burst, IB	✓
27	163815031	3	-0.9	1332			Eye, Conv Burst	✓
28	163845083	4	-1.0	1351	↓	↓	Circles	✓
29								
30								
31								
32								
33								
34								

APPENDIX 1 – P3 QC Checklist

Flight ID:	20171007H1
Flight Director(s):	Holmes

Pressure Comparison		
	T/O	Land
Aircraft	1008.5	1008.5
Tower	1009	1009

UWZ.d mean: 0.17

	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	✓ Acc-Zfilter-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	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PDALPHAref	✓ PQMref
	✓ PDALPHA.2	✓ PQBETA.1	✓ PQM.2	✓ PSM.2	✓ PDBETAref	✓ PQ.c
	✓ PDBETA.1		✓ PQM.3	✓ PTM.1	✓ PQALPHAref	✓ PSMref
	✓ PDBETA.2		✓ PQM.4		✓ PQBETAref	✓ 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 → largely unresponsive. PDAlpha.1 used as source.