

N42RF ERROR SUMMARY
20170908H1

Flight ID: 20170908H1

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/20170908H1

Local Met Data	Takeoff KLAL (0723Z)	Landing KLAL (1531Z)
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	15	3	15
Test sondes	0	0	0
AXBts	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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

APPENDIX 1 – P3 QC Checklist

Flight ID:	20170908H1
Flight Director(s):	Holmes

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

*data
sys
turned
off.*

UWZ.d mean: 0.21

	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	
✓ 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 end?	✓ 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 end?		✓ PQBETAref	✓ PS.c
✓ Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		✓ JAS.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	✓ TDM.1	✓ TDM.1	✓ TRadD.1		✓ TD.c	✓ TTMref
	✓ TDM.2	✓ TDM.2	✓ TRadS.1		✓ TDMref	✓ TA.d
	✓ TDM.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, used PDAlpha.1 as source.
 TDM.1 → unrepresentative in "eye". spikes to high TDM.2 used
 as the source.*

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20170908H1	FLT #:		AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0700Z	CP(s):	Kahn	Jon Zawislak (PI)	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1500Z		Rossi	Jason Dunion			IR 18	0	18
Block Time		Flight Time		Nav(s):	Freeman	Heather Holbach	Wx Station Takeoff		Reg 3	0	3
In:	1539	In:	1532						BTs		
Out:	0715	Out:	0724	FE(s):	Heystek		A/C Land		Good	Bad	Sent
Total:	8.4	Total:	8.1		Sanchez				15	3	15
				FD(s):	Holmes	Visitors:	Wx Station Land				
Sponsoring Org:	EMC/NHC			SEB:	T. Lynch	Holger Voemel (NCAR)	Storm Number ID:	AL112017			
Program:	PRX					Dennis A. Ross	(ie: AL072012)				
Purpose:	Hurricane TDR			SSA:	Richards	US Congressman (FL)	TCPOD/WSPOD Mission	NOAA2 2011A IRMA			
						15th Congressional District	(ie: NOAA2 2418A SANDY)				
				AVAPS:	Underwood	Todd Kimberlain (NHC)	OBSERVATIONS				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	1	0937	927	
SCIENCE MISSION WITHIN BDRY LAYER					X		2	2	1106	927 EXTRAP	
LACK OF PRECIPITATION					X	4 x 5 CAT II Pennies	3	3	1225	928 EXTRAP	
RELATIVE HUMIDITY ≥ 80%				X			4	4	1320	928	
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						

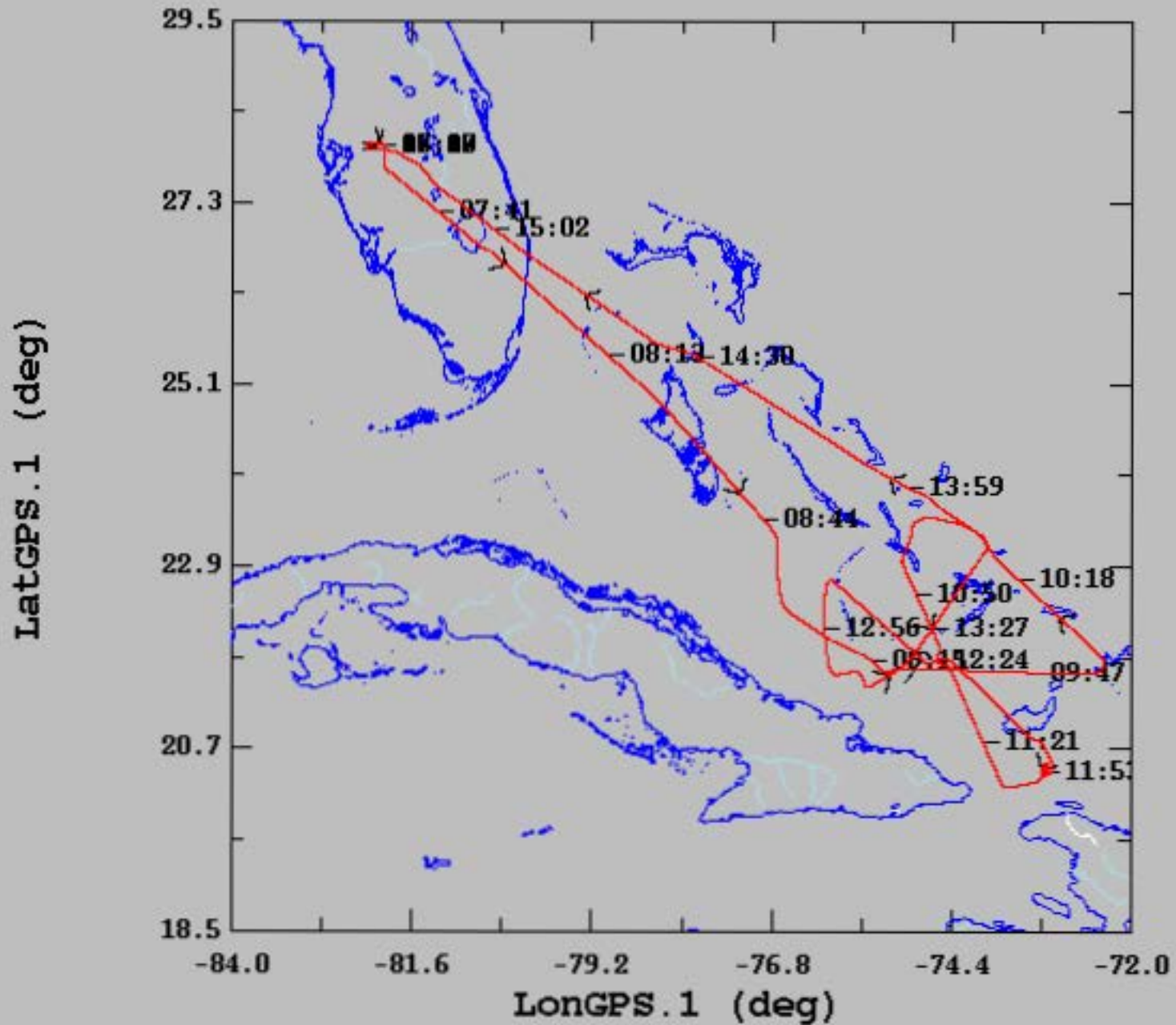
Additional Remarks:

Cockpit Gmax: 3.1 Gmin: -0.4

*Highlighted items must be completed before departure.

20170908H1 Flight Track

09/08/2017, 05:35:32-15:33:55



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.22	2.66	20.25	27.99
— LonGPS.1 (deg), 1 s/sec	-77.24	3.33	-82.21	-72.36