

N42RF ERROR SUMMARY
20170905H1

Flight ID: 20170905H1

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/20170905H1

Local Met Data	Takeoff TBPB (0654Z)	Landing TBPB (1256Z)
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.

PDAlpha.2 ----> Unresponsive ----> Bad Note: PDAlpha.1 is good and was used as the source.

PQM.1 data deviates from PQM.2, PQM.3, and PQM.4 and is therefore suspect.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	9	9	9
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:	20170905H1
Flight Director(s):	Holmes

Pressure Comparison		
	T/O	Land
Aircraft	1002	1005
Tower	1003	1006

UWZ.d mean: 0.18

	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	✓ 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:

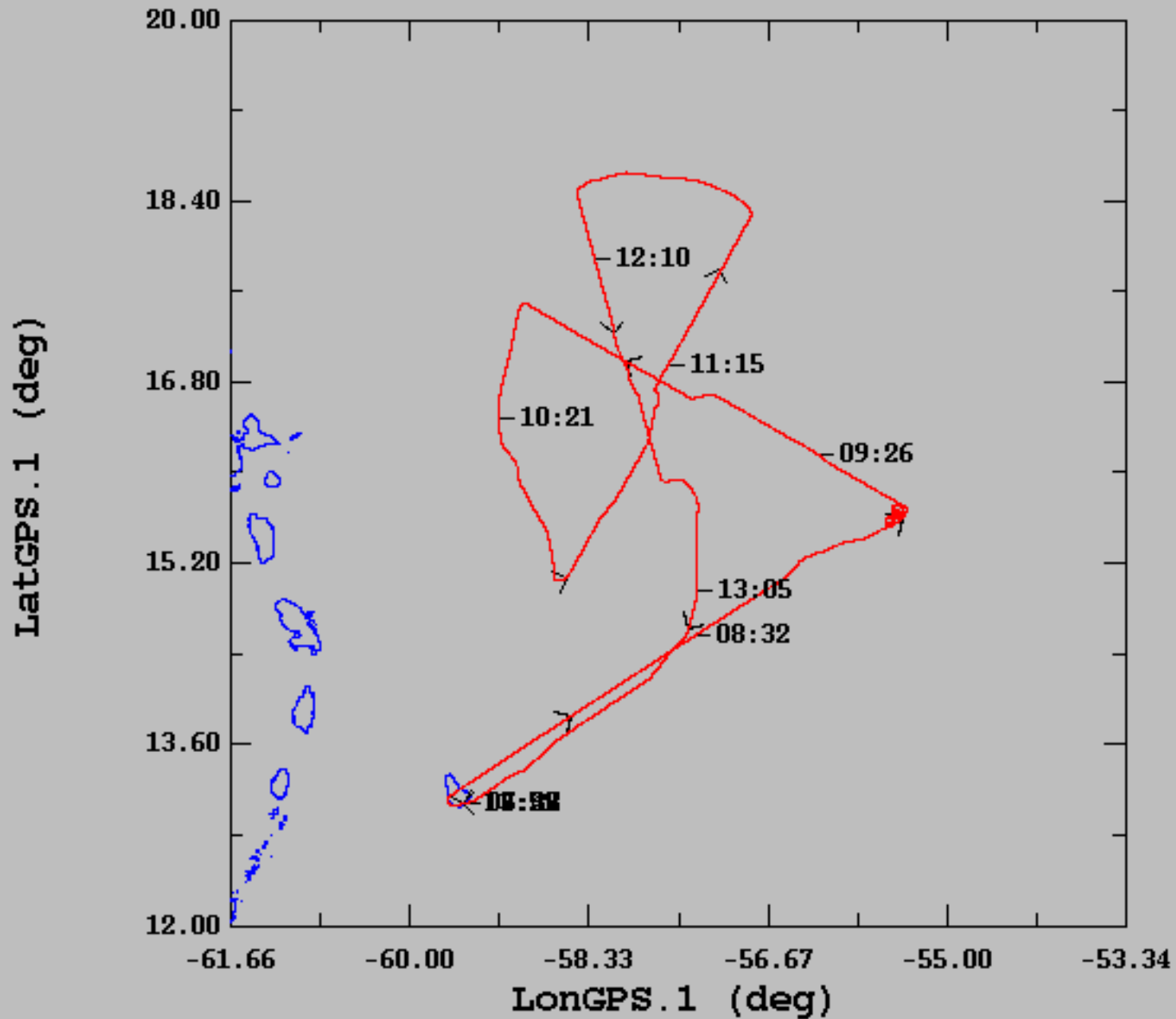
PDAlpha.2 → unresponsive ... Bad.
 → PQM.1 → ~~not~~ suspect. 4 deviates from PQM.2, .3 and .4.

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20170905H1	FLT #:		AC:	Kibbey	Scientists:		Pressure		Dropsondes		
From:	TBPB	ETD:	0800Z	CP(s):	Kahn	Rob Rogers (PI)		A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1600Z		Ruckman	Sellwood, Kathryn				9	0	9
Block Time		Flight Time		Nav(s):	Freeman	Sim Aberson		Wx Station Takeoff		BTs		
In:	1404	In:	1356			Trey Alvey (Univ of Utah)				Good	Bad	Sent
Out:	0748	Out:	0754	FE(s):	Heystek			A/C Land				
					Sanchez							
Total:	6.3	Total:	6.0	FD(s):	Holmes			Wx Station Land				
						Visitors:						
Sponsoring Org:	EMC/NHC			SEB:	Underwood			Storm Number ID:	AL112017			
Program:	PRX							(ie: AL072012)				
Purpose:	Hurricane TDR			SSA:	Naeher			TCPOD/WSPOD Mission	NOAA2 0711A IRMA			
						Geoffrey Carrion (AOC)		(ie: NOAA2 2418A SANDY)				
				AVAPS:	Richards			OBSERVATIONS				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X			1	113	0930	932	
SCIENCE MISSION WITHIN BDRY LAYER					X			2	117	1050	930	
LACK OF PRECIPITATION					X	3 x 9 pennies CAT IV		3	113	1159	931	
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							
Additional Remarks:				*Highlighted items must be completed before departure.								
Cockpit Gmax: 2.1				Gmin: 0.3								

20170905H1 Flight Track

09/05/2017, 05:48:19-13:59:43



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	15.13	1.78	13.05	18.65
— LonGPS.1 (deg), 1 s/sec	-58.20	1.17	-59.64	-55.36

