

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

### 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.

## 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					11	10	11
Total:	7.9	Total:	7.6	FD(s):	Holmes	Visitors:		Wx Station Land				
Sponsoring Org:	HRD			SEB:	Peek			Storm Number ID:	AL162017			
Program:	PHX			SSA:	T. Lynch			(ie: AL072012)				
Purpose:	Research (HRD AIPEX)			AVAPS:	Underwood			TCPOD/WSPOD Mission	NOAA2 WD16A NATE			
								(ie: NOAA2 2418A SANDY)				
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.

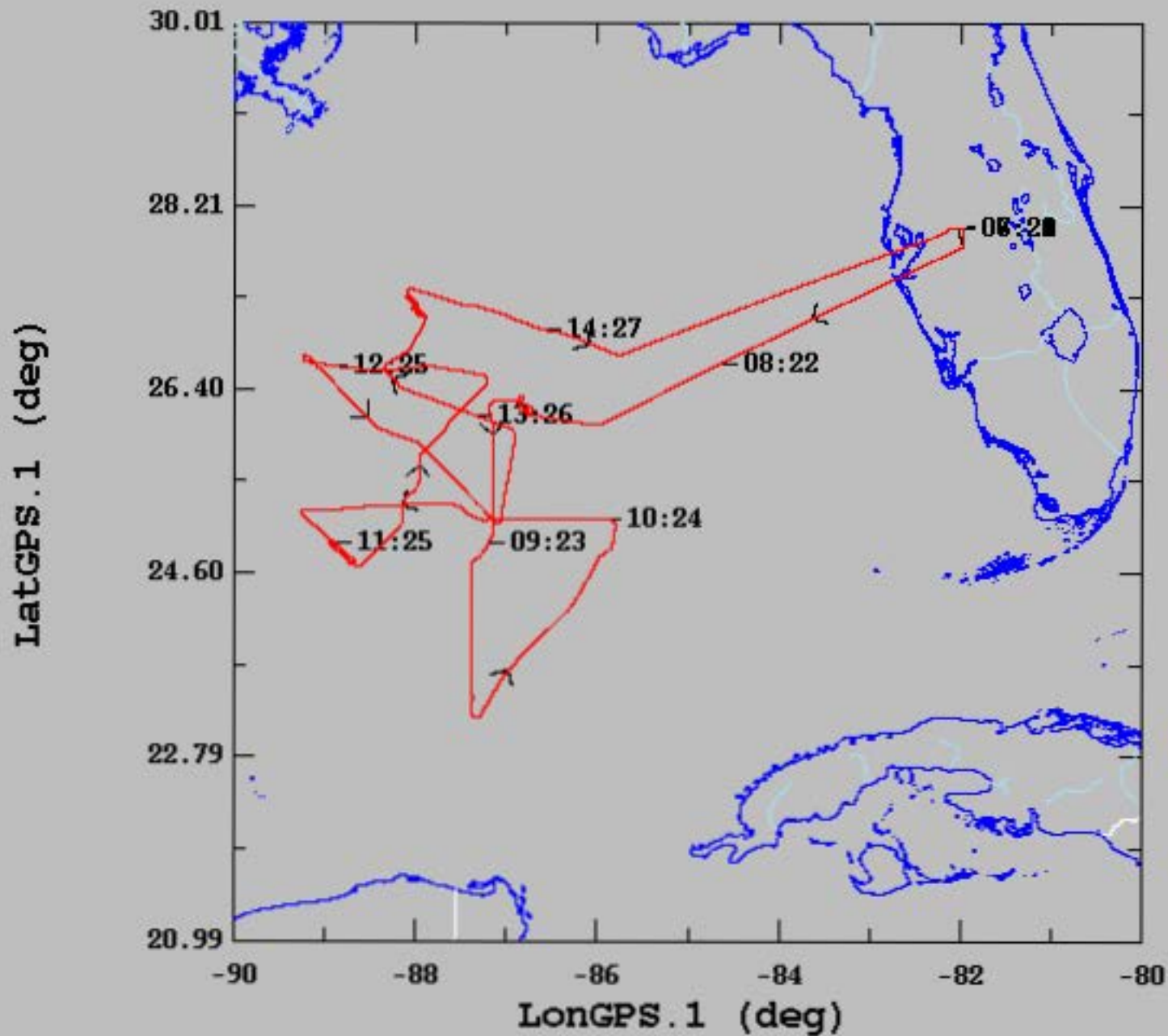
Cockpit Gmax:

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