

N42RF ERROR SUMMARY
20170824H2

Flight ID: 20170824H2

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/20170824H2

Local Met Data	Takeoff KLAL (1434Z)	Landing KLAL (2221Z)
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.

TDR mission into Hurricane Harvey...3 X Penny's in Harvey as it was a CAT I storm

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	9	9	9
Test sondes	0	0	0
AXBTs	6	2	2
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:	20170824H2
Flight Director(s):	Holmes

PSM.2

Pressure Comparison		
	T/O	Land
Aircraft	1008	1005
Tower	1008	1006

UWZ.d mean: 0.09

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	AccAXI.1	AccAYI.1	AccAZI.1	AccZfilter-GPS.1	<input checked="" type="checkbox"/> 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			
<input checked="" type="checkbox"/> Altitude	AltGPS.1	AltI-GPS.1	AltPaADDU.1	AltRA.1	<input checked="" type="checkbox"/> ALTref	AltRA1.c
	AltGPS.2	AltI-GPS.2	AltBCADDU.1	AltRA.2	ALTPA.d	AltRA2.c
	AltGPS.3				ALTGA.d	
	AltGPS.4					
<input checked="" type="checkbox"/> Ground Speed	GsXI-GPS.1	GsYI-GPS.1	GsZI-GPS.1		<input checked="" type="checkbox"/> GSXref	
	GsXI-GPS.2	GsYI-GPS.2	GsZI-GPS.2		GSYref	
					GSZref	
<input checked="" type="checkbox"/> 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			
<input checked="" type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1	<input checked="" type="checkbox"/> PQALPHA.1	<input checked="" type="checkbox"/> PQM.1	PSM.1	PDALPHAref	PQMref
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.2	PSM.2	PDBETAref	PQ.c
	<input checked="" type="checkbox"/> PDBETA.1		<input checked="" type="checkbox"/> PQM.3	PTM.1	PQALPHAref	PSMref
	<input checked="" type="checkbox"/> PDBETA.2		<input checked="" type="checkbox"/> PQM.4		PQBETAref	PS.c
<input checked="" type="checkbox"/> Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
<input checked="" type="checkbox"/> 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		
<input checked="" type="checkbox"/> Temp/Dewpt	<input checked="" type="checkbox"/> TTM.1	<input checked="" type="checkbox"/> TDM.1	TRadD.1		<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref
	<input checked="" type="checkbox"/> TTM.2	<input checked="" type="checkbox"/> TDM.2	TRadS.1		<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d
	<input checked="" type="checkbox"/> TTM.3	TDM.3	TRadU.1			
<input checked="" type="checkbox"/> Miscellaneous (must check)					<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
					<input checked="" type="checkbox"/> DPJ_WSZ	<input checked="" type="checkbox"/> WD.d
					<input checked="" type="checkbox"/> HUM	

FLID_Mission_Documents.pdf:

<input checked="" type="checkbox"/> Error Summary
<input checked="" type="checkbox"/> Crew Manifest
<input checked="" type="checkbox"/> QC checklist
<input checked="" type="checkbox"/> Dropwindsonde Log(s) – AVAPS and FD if completed
<input checked="" type="checkbox"/> Flight Track
<input checked="" type="checkbox"/> Miscellaneous FD notes

NOTES:

- 1) PDAlpha.2 became unrepresentative after ~ 21:20Z.
- 2) ~ 2mb Δ between PSM.1 and PSM.2 ← source

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20170824H2	FLT #:		AC:	Kibbey	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1400Z	CP(s):	Rees	P. Chang (NESDIS) J. Zawislak (HRD) L. Nguyen (HRD) B. Klotz (HRD) Dave Ryglicki (NRL)	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0100Z	Nav(s):	Kahn		Wx Station Takeoff		9	0	9
Block Time		Flight Time		FE(s):	Freeman		A/C Land		BTs		
In:	2228	In:	2223	FD(s):	Keystek		Wx Station Land		Good	Bad	Sent
Out:	1426	Out:	1436		Souza, Richard	Visitors:		1	6	1	
Total:	8.0	Total:	7.8		Holmes	Joseph Raymond Schifflett III (pres)	Storm Number ID:	AL092017			
Sponsoring Org:	EMC/NHC			SEB:	McAlister	Joseph Raymond Schifflett IV (pres)	(ie: AL072012)				
Program:	PRX			SSA:	Delgado	K. Doremus	TCPOD/WSPOD Mission	NOAA2 1309A HARVEY			
Purpose:	TDR			AVAPS:	Naehar		(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	1	-178	980	
SCIENCE MISSION WITHIN BDRY LAYER					X	3x 0 Hurricane Dennis		?	-188	977	
LACK OF PRECIPITATION					X			3	198	979	
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:

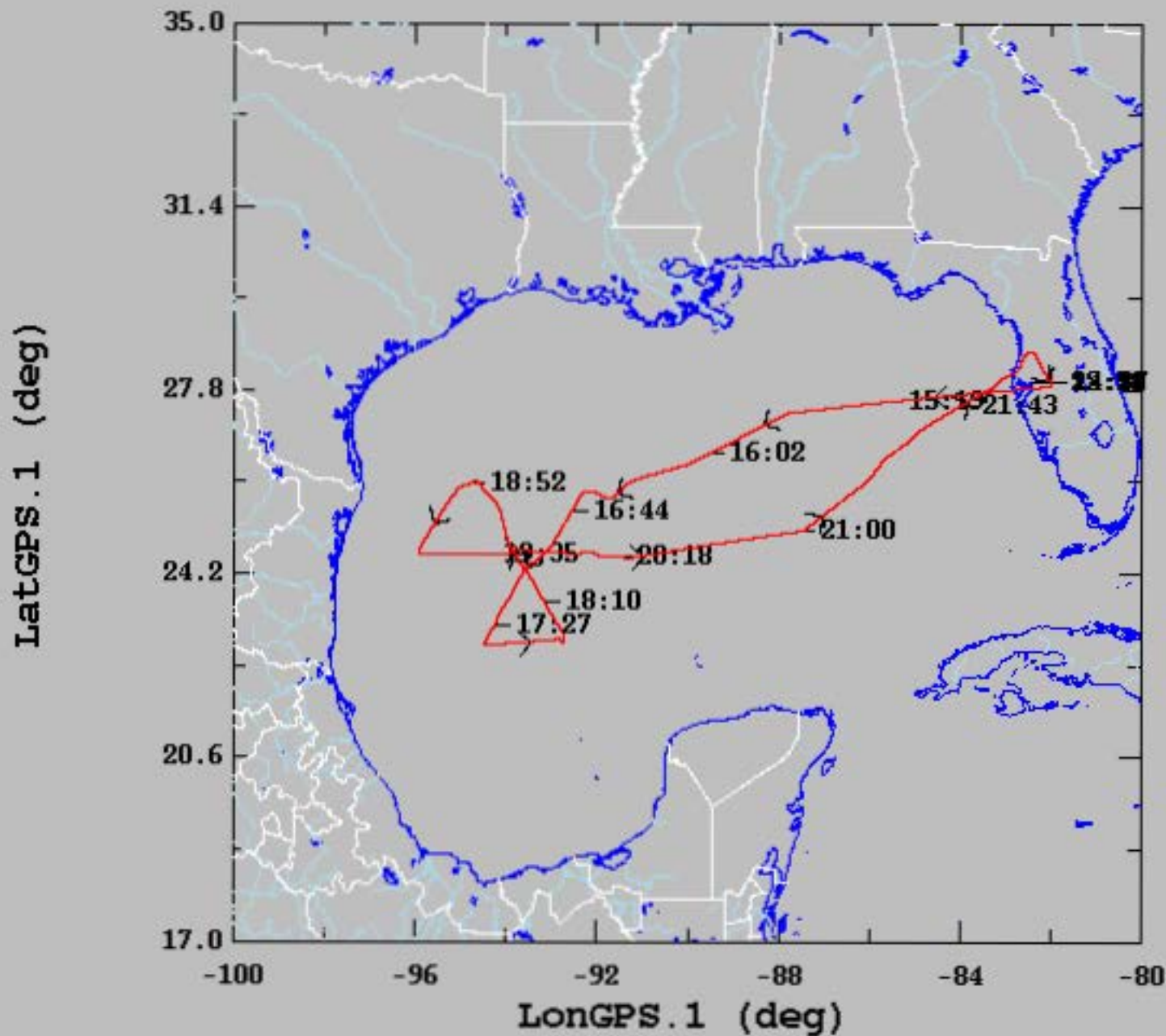
Cockpit Gmax: 1.9

Gmin: 0

*Highlighted items must be completed before departure.

20170824H2 Flight Track

08/24/2017, 12:29:10-22:26:06



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	26.13	1.69	22.79	28.54
— LonGPS.1 (deg), 1 s/sec	-88.29	5.01	-95.89	-81.98

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Ocean Winds Winter 2017

Mission: TS Harvey

Flight ID: 20170824H2

Take Off: 1015L

Landing: 1830L

Flt Dir: Holmes

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	143245091	1	-1.4	1639	Mac	HFIP	good drop	
2	160625130	2	-1.5	1707	↓	NWS		
3	163525083	3	+0.5	1735		HFIP		
4	143245037	1	-1.0	1759		HFIP		
5	160625054	2	-1.7	1824		NWS		
6	143255532	3	-0.9	1852		HFIP		
7	160625191	1	-1.9	1920		HFIP	good drop	
8	143425122	2	-1.0	1945	NWS	Operator Accidentally hit no drop	(Data recovered)	
9	142835112	2	-0.9	2022	↓	HFIP	good drop	
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