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

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION

FLT ID:	20170824H2	FLT #:	
From:	KLAL	ETD:	1400Z
To:	KLAL	ETA:	0100Z

Block Time		Flight Time	
In:	2228	In:	2223
Out:	1426	Out:	1436
Total:	8.0	Total:	7.8

Sponsoring Org:	EMC/NHC
Program:	PRX
Purpose:	TDR

CREW MANIFEST

		Scientists:
AC:	Kibbey	
CP(s):	Rees	
	Kahn	P. Chang (NESDIS)
Nav(s):	Freeman	J. Zawislak (HRD)
		L. Nguyen (HRD)
FE(s):	Keystek	B. Klotz (HRD)
	Souza, Richard	Dave Ryglicki (NRL)
FD(s):	Holmes	
		Visitors:
SEB:	McAlister	Joseph Raymond Schiflett III (pres
	Delgado	Joseph Raymond Schiflett IV (pres
SSA:	Naeher	K. Doremus
AVAPS:		

MISSION INFORMATION

Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff		9	0	9
Wx Station Takeoff		BTs		
		Good	Bad	Sent
A/C Land		1	6	1
Wx Station Land				

Storm Number ID: (ie: AL072012)	AL092017
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA2 0309A HARVEY

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP
1	1	-17z	980
	2	-18z	977
	3	19z	979

AS REQUIRED BY ORM

	Y	N
VOLCANIC ASH		X
SCIENCE MISSION WITHIN BDRY LAYER		X
LACK OF PRECIPITATION		X
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

REMARKS

3x @ Hurricane Peanuts

Additional Remarks:

Cockpit Gmax: 1.9   Gmin: 0

20170824H2 Flight Track

08/24/2017, 12:29:10-22:26:06
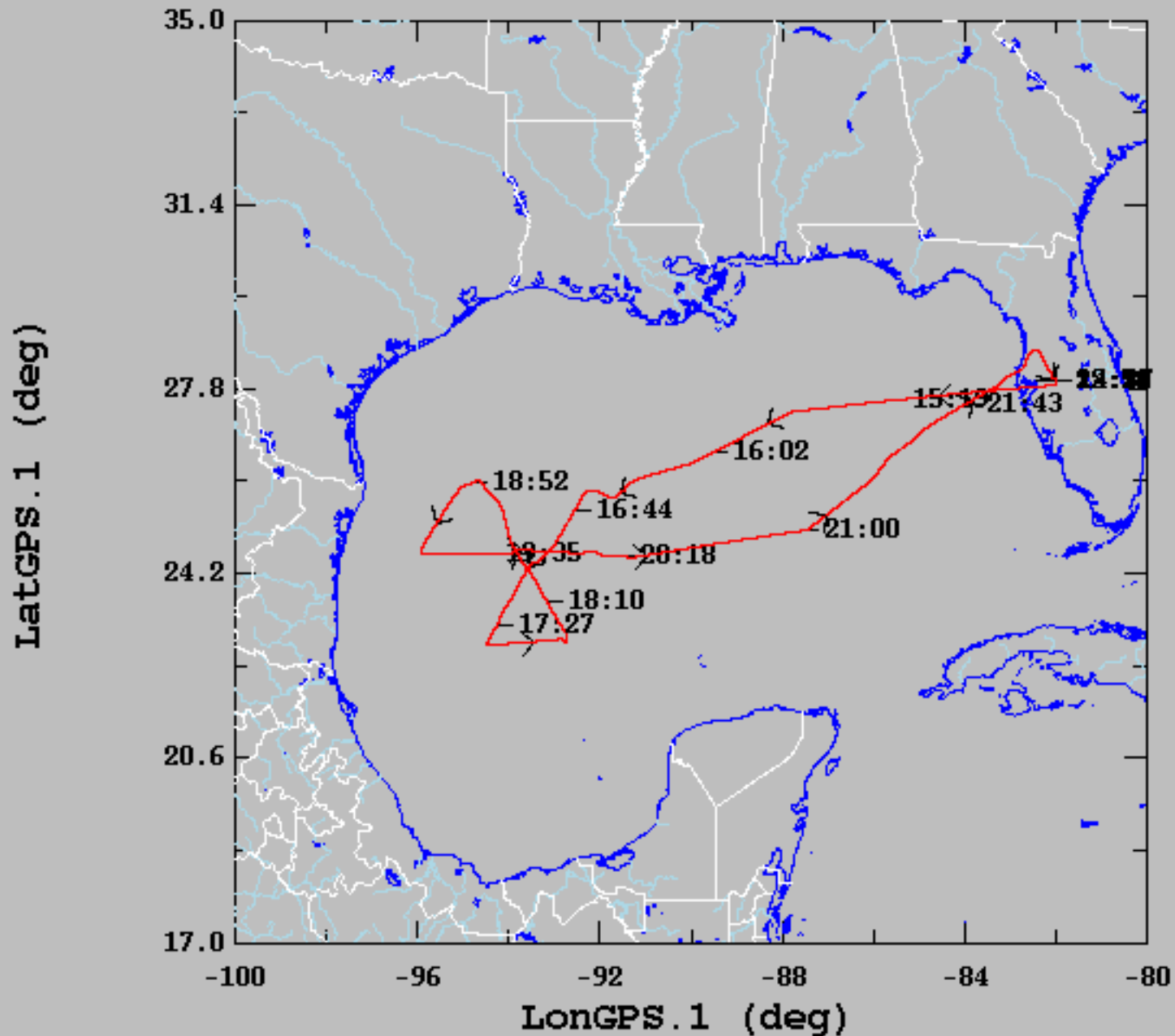
	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	26.13	1.69	22.79	28.54
LonGPS.1 (deg), 1 s/sec	-88.29	5.01	-95.89	-81.98

APPENDIX 1 – P3 QC Checklist

Flight ID:	20170824H2
Flight Director(s):	Holmes

UWZ.d mean: _0.09_

(PM.2)

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

	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:

1) PDAlpha.2 became unrepresentative after ~21:20z.

2) ~2mb Δ between PSM.1 and (PSM.2) ← source

NOAA • AOC • SED   N42RF AVAPS DROP LOG   Lead Tech: Mike Mascaro

Project: Ocean Winds Winter 2017   Mission: TS Harvey   Flight ID: 20170824H2

Take Off: 1015 L   Landing: 1830 L   Flt Dir: Holmes

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time Z	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	
10								
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