NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION

FLT ID:	20181008H1	**FLT #:**	1
From:	KLAL	**ETD:**	2000Z
To:	KLAL	**ETA:**	0400Z

Block Time		**Flight Time**	
In:	0256	In:	0249
Out:	1950	Out:	2007
Total:	7.1	Total:	6.8

Sponsoring Org:	EMC
Program:	PRX
Purpose:	Hurricane MICHAEL

CREW MANIFEST

AC:	Price	**Scientists:**
CP(s):	Mitchell	
	Rossi	Kelly Ryan (HRD)
Nav(s):	Freeman	Joe Cione
		Josh Wadler (UM)
FE(s)	Sanchez	Stephanie Stevenson (NHC/CI
	Heystek	Joe Sapp (NESDIS)
FD(s):	Holmes	
		Visitors:
SEB:		
	Greene	David Keith (AoC)
SSA:	Mascaro	
AVAPS:	MacAlister	

MISSION INFORMATION

Pressure		**Dropsondes**		
		Good	Bad	Sent
A/C Takeoff		18	1	18
Wx Station Takeoff		**BTs**		
		Good	Bad	Sent
A/C Land		27	3	27
Wx Station Land				

Storm Number ID: (ie: AL072012)	AL142018
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA2 0614A MICHAEL

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP

AS REQUIRED BY ORM	Y	N	REMARKS
VOLCANIC ASH		X	
SCIENCE MISSION WITHIN BDRY LAYER	X		
LACK OF PRECIPITATION		X	3 x 9 Hurricane Penny's
RELATIVE HUMIDITY ≥ 80%	X		
LARGE AIR-SEA TEMP GRADIENT		X	
HIGH SURFACE WINDS	X		
LONG FETCH / DURATION OF SFC WND	X	X	
SEA SALT ACCRETION FORECAST		X	
" " " observed		X	

N42RF ERROR SUMMARY
20181008H1

Flight ID: 20181008H1

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/2018/MET/20181008H1

Local Met Data	Takeoff KLAL (2001Z)	Landing KLAL (0249Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.31252
AttackAngleSlope		6.06758
SlipAngleIntercept		0.4295
SlipAngleSlope		7.17033

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 Inop. This failure did not affect the real-time or post processed collection as PDAlpha.1 was used as the source for both.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	19	18	18
Test sondes	0	0	0
AXBTs	30	27	27
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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

ACAT-4 Version = 7.2.2

APPENDIX 1 – P3 QC Checklist

Flight ID:	20181008H1
Flight Director(s):	Holmes

Pressure Comparison		
	T/O	Land
Aircraft	1008	—
Tower	1009	—

UWZ.d mean: 0.05 m/s

	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	✓ MasADDU.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:

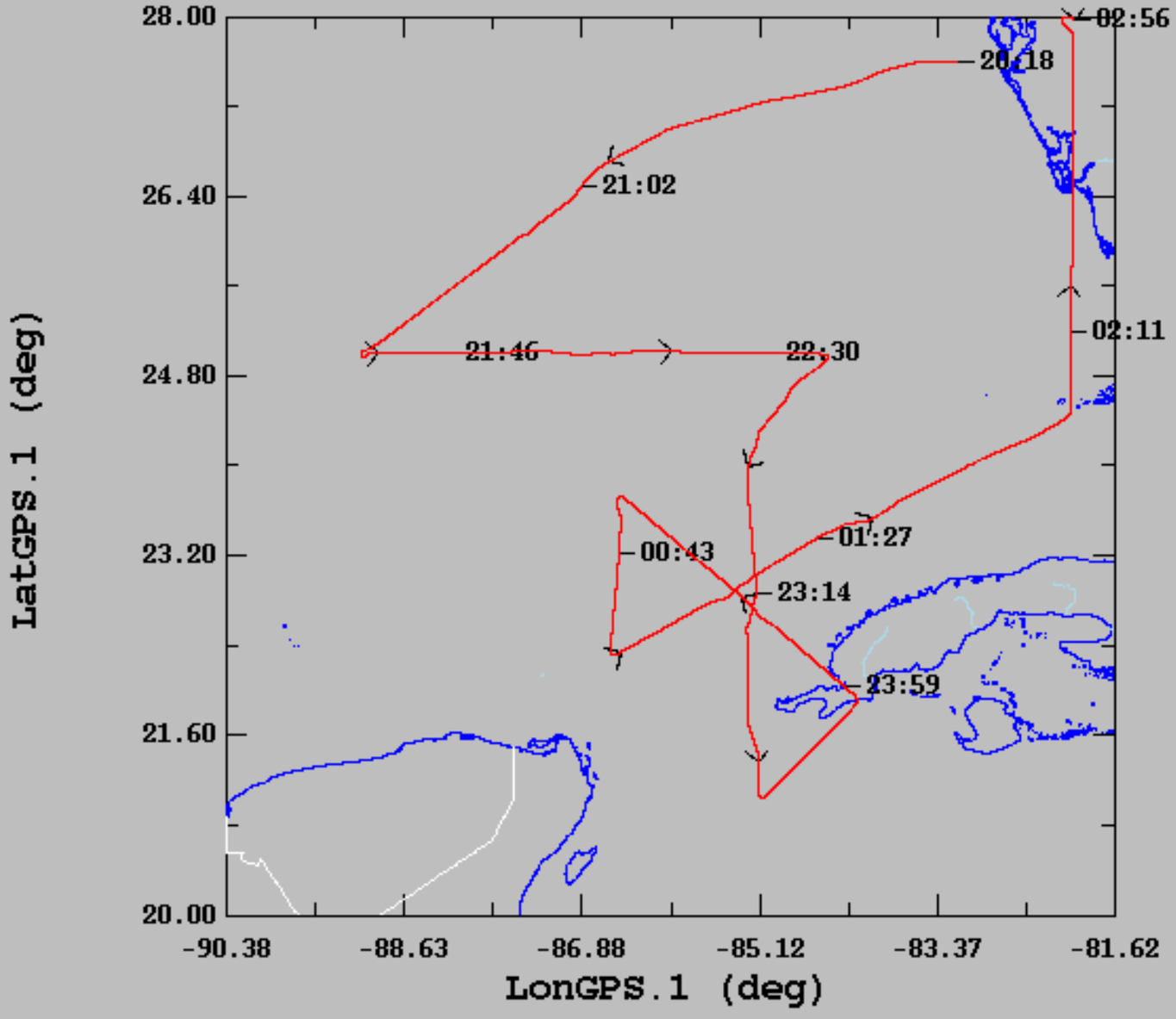
✓	Error Summary
✓	Crew Manifest
✓	QC checklist
	Dropwindsonde Log(s) – AVAPS and FD if completed
	Flight Track
	Miscellaneous FD notes

NOTES:

PDAlpha.2 I-oP

20181008H1 Flight Track

2018-10-08, 20:18:11-26:56:00



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	24.50	1.83	21.05	27.99
LonGPS.1 (deg), 1 s/sec	-85.14	1.82	-89.04	-82.01

Playback Log

Flight Number 20181008H1

Takeoff Time _____ Landing Time _____

Storm MICHAEL Team _____

Drop Number	AXCTD AXBT AXCP	Channel Number	Serial Number	Actual Drop Time	Actual Latitude	Actual Longitude	SST	H26	Marantz Track Number	File Name	Comments
1	BT_D	12	—								
2	CP	14	10061018								
3	CP	16	10081064								
4	BT_D	12	—								
5	CT	14	13041196								
6	CP	16	10091001								
7	CP	12	09081043								
8	CP	14	18051000								
9	CT	16	13041220								
10	BT_D	12	—								
11	CP	14	11011012								
12	CP	16	11031021								
13	CT	12	10069034								
14	BT_D	14	—								
15	CP	16	11031015								
16	BT_D	12	—								
17	~~BT_D~~										
18											
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NEW STORM

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

Project: Hurricane 2018 Mission: Hurricane Michael Flight ID: 20181008H1

Take Off : 1608L Landing: _____ Flt Dir : Holmes

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	12222 5070	1	-1.3	2144	MAC	PHX	Combo/Pt 18/1R	✓
2	13233 5102	1	-0.8	2220	MAC	PHX	Combo/Pt 14/1R	✓
3	13233 5082	1	-1.3	2239	MAC	PHX	Combo/Pt 16/1R	✓
4	13233 5126	1	-0.8	2257	MAC		Combo/1R/Pt 17	✓
5	16383 5128	2	-0.7	2304	MAC		Combo/N Mid pt	✓
6	16361 5051	1	-0.3	2319	MAC		Combo/Center 1st Pass	✓
7	13222 5020	2	-0.8	2330			Combo/1R Mid 1st out	✓
8	16361 5111	3	-0.2	2340			Combo/1st Pass turn end	
9	16362 5034	1	-0.3	0004			Combo/2nd Pass start	
10	13235 5139	2	-1.2	0015			Combo/1R/2nd pass/Center	
11	16361 5084	3	-1.2	0018			2nd pass out/Max Winds	
12	16383 5073	1	-0.6	0024			2nd pass Combo Turn out end	
13	16361 5076	2	-1.3	0035			3rd start out/combo	
14	16361 5110	3	-0.3	0054			3rd pass North mid/combo	
15	16383 5123	1	Ø	0106			3rd pass/combo	
16	16442 5001	2	-1.0	0114			Center/combo	
17	13223 5171	3	-1.6	0118			3rd out/Max Winds	
18	12222 5059	1	-1.3	0125			3rd out/end Pt/Combo	
19	13222 5064	3	-1.5	0138			IR Only	
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