

N42RF ERROR SUMMARY
Hurricane Maria HRD Coyote

Flight ID: 20170924H2

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/20170924H2

Local Met Data	Takeoff KLAL (1706Z)	Landing KLAL (0000Z)
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	12	12	0
Test sondes	0	0	0
AXBTS	11	11	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	2	0	0

Flight Director: Williams
Phone #: 863-500-3987

ACAT-4 Version = 7.1

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NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20170924H2	FLT #:		AC:	Price	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1700Z	CP(s):	Rossi		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0200Z		Didier	Cione, Joe			13	13	4
Block Time		Flight Time		Nav(s):	Freeman	Jun Zhang	Wx Station Takeoff		BTs		
In:	0218	In:	0211		Heystek	Kelly Ryan					
Out:	1654	Out:	1728	FE(s)	Sanchez	Brad Kent, Raytheon	A/C Land		Good	Bad	Sent
Total:	9.4	Total:	9.1	FD(s):	Williams	Jerry Dellinger, Raytheon	Wx Station Land		1		
Sponsoring Org: HRD				SEB:	Paul	Aschley Schiller, House Appr	Storm Number ID:				
Program: Coyote							(ie: AL072012)		AL152017		
Purpose: Maria				SSA:	Mascaro		TCPOD/WSPOD Mission				
				AVAPS:	McAlister		(ie: NOAA2 2418A SANDY)		NOAA2 WP15A MARIA		
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X	2 notes	1	5	1901	942	
SCIENCE MISSION WITHIN BDRY LAYER					x		2	5	2314	E946	
LACK OF PRECIPITATION					x	11 IR sondes (HRD)	3	8	0008	E947	
RELATIVE HUMIDITY ≥ 80%				x		1 regular sonde (HRD)					
LARGE AIR-SEA TEMP GRADIENT					X	11 BT's					
HIGH SURFACE WINDS				x							
LONG FETCH / DURATION OF SFC WND				x							
SEA SALT ACCRETION FORECAST					X	10 x 6					
SEA SALT ACCRETION OBSERVED											

Additional Remarks:

Cockpit Gmax:

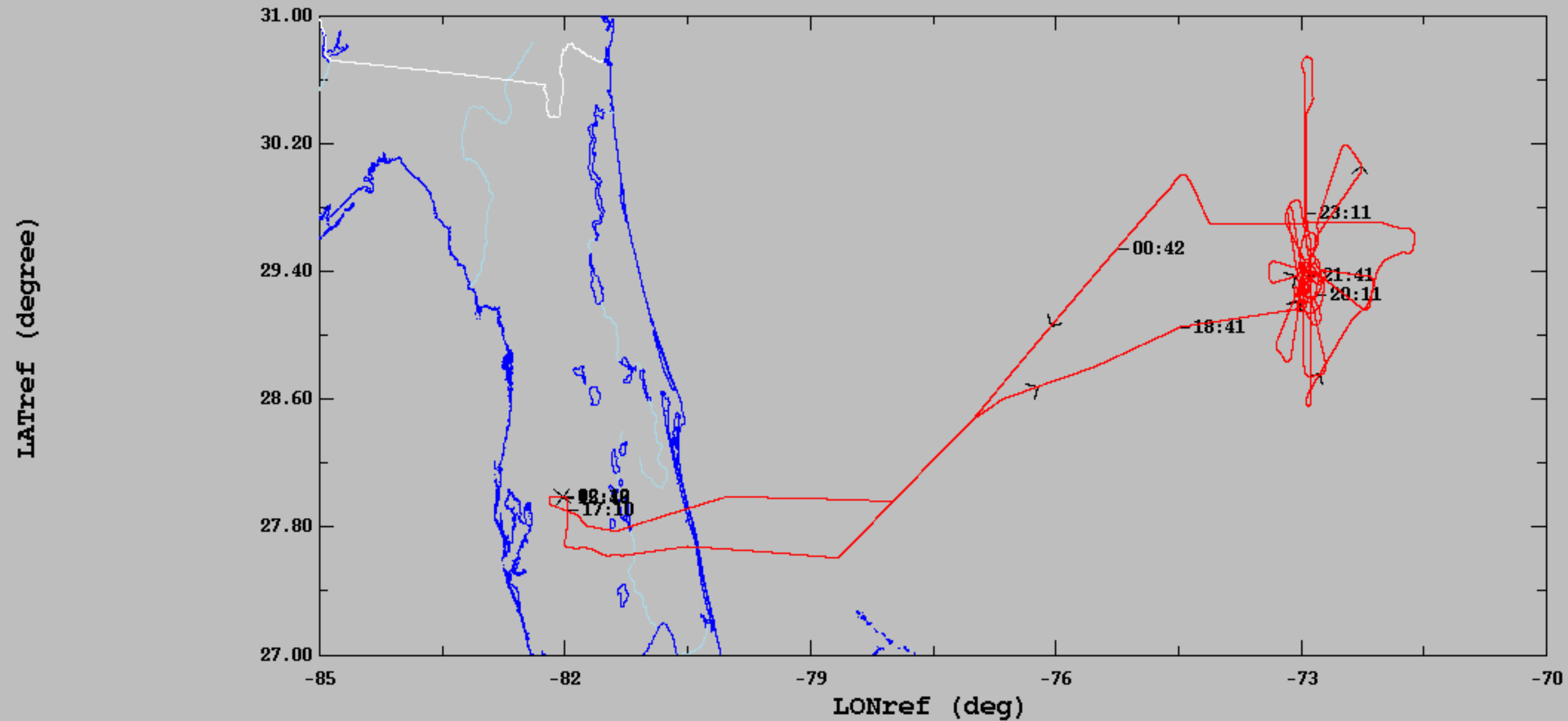
Gmin:

*Highlighted items must be completed before departure.

(1 IRP)
(1 Reg)

Hurricane Maria HRD Coyote

09/24/2017, 15:40:27-26:12:25



	mean	sigma	min	max
LATref (degree), 1 s/sec	28.90	0.78	27.61	30.74
LONref (deg), 1 s/sec	-75.85	3.72	-82.18	-71.60

Project: Hurricane 2017

Mission: Hurricane Maria

Flight ID: 20170924H2

Take Off: 1700Z

Landing:

Flt Dir: Jess

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	164015148	1	-0.5	1811	Mac	HFIP	RD41 w/ test sonde	✓
2	172620221	5	-1.0	1811	Mac	AOC	RD41 test sonde	✓
3	132335078	1	-1.2	1902	Mac	HRD	IR/Combo BT/1 st center	✓
4	132345019	1	-1.0	2042	Mac		IR/Combo BT/2 nd in	✓
5	132335192	2	-1.3	2055	Mac		IR/Combo BT/center	✓
6	132355122	1	-1.7	2115	Mac		IR/Combo BT/2 nd in	✓
7	132335179	2	-1.0	2140	Mac		IR/Combo BT/4 th in	✓
8	132335080	1	-1.7	2201	Mac		IR/Combo BT/5 th in	✓
9	132335086	1	-1.3	2224	Mac		IR/Combo BT/6 th in	✓
10	132235278	1	-1.2	2258	Mac		IR/Combo BT/7 th entry	✓
11	132355096	1	-1.4	2329	Mac		IR/Combo BT/7 th exit end P	✓
12	132335177	1	-1.4	2352	Mac		IR/Combo BT/8 th entry turn	✓
13	132335077	1	-0.8	0023	Mac	HRD	IR/Combo BT/8 th exit last point	✓
14								
15								
16								
17								
18								
19								
20	2229							
21	copilot ICS							
22	emergency							
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APPENDIX 1 – P3 QC Checklist

Flight ID:	20170924H2
Flight Director(s):	Williams

Pressure Comparison		
	T/O 1708	Land 0211
Aircraft	1008.1 (2)	1007.2
Tower	1008.3	1007.9

UWZ.d mean: 0.18

	Raw 1Hz Mean File Parameters				C File Parameters	
x 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			
x 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					
x Ground Speed	GsXI-GPS.1	GsYI-GPS.1	GsZI-GPS.1		GSXref	
	GsXI-GPS.2	GsYI-GPS.2	GsZI-GPS.2		GSYref	
					GSZref	
x 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			
x 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
x Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
x 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		
x 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			
x Miscellaneous (must check)					UWZ.d	WS.d
					DPJ_WSZ	WD.d
					HUM	

Mission Documents:

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

NOTES: