

N42 Error Summary

Overall Assessment: No instrument issues noted

Flight ID: 20210821H1 Mission ID: 0908A HENRI Mission Type: Tasked/Operational

T/O Time: 0758Z KLAL Landed: 1540Z KLAL

Flight Director(s): Lundry QC performed by: Lundry Phone #: 863-500-3898

Expendable Counts

	Deployed	Good	Bad	Trasmitted
Dropsonde	19	19	0	19
AXBTs	6	4	2	0
UAS	0			

Information on Meteorological Sensors

Sensor or System	Number or Name
Static Pressure Probe	PSM.2
Dynamic Pressure Prob	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
Dynamic Corrections	Yes
Attack Angle Intercept	2.30
Attack Angle Slope	6.07
Slip Angle Intercept	0.237
Slip Angle Slope	7.04607
Attack Angle Intercept 2	2.06219
Attack Angle Slope 2	5.99068
Slip Angle Intercept 2	0.125
Slip Angle Slope 2	6.9873

QC Checklist

	PSM.1	PSM.2	Average PSM	Station Pressure
Takeoff	1009.7	1011.28	1010.49	n/a
Landing	887.1	883.25	885.17	1011.4
UWZ Mean:	0.12			

QC Key Not checked Reference Valid Errors(notes)

QC Key	Not checked	Reference	Valid	Errors(notes)
Accelerometer	/	AccAXI.1	/	AccAYI.1
	/	AccAXI.2	/	AccAYI.2
	/	AccAXI-GPS.1	/	AccAYI-GPS.1
	/	AccAXI-GPS.2	/	AccAYI-GPS.2
Altitude	/	AltGPS.1	/	AltI-GPS.1
	/	AltGPS.2	/	AltI-GPS.2
	/	AltGPS.3		
	/	AltGPS.4		
Ground Speed	/	GsXI-GPS.1	/	GsYI-GPS.1
	/	GsXI-GPS.2	/	GsYI-GPS.2
Lat/Lon	/	LatGPS.1	/	LatI-GPS.1
	/	LatGPS.2	/	LatI-GPS.2

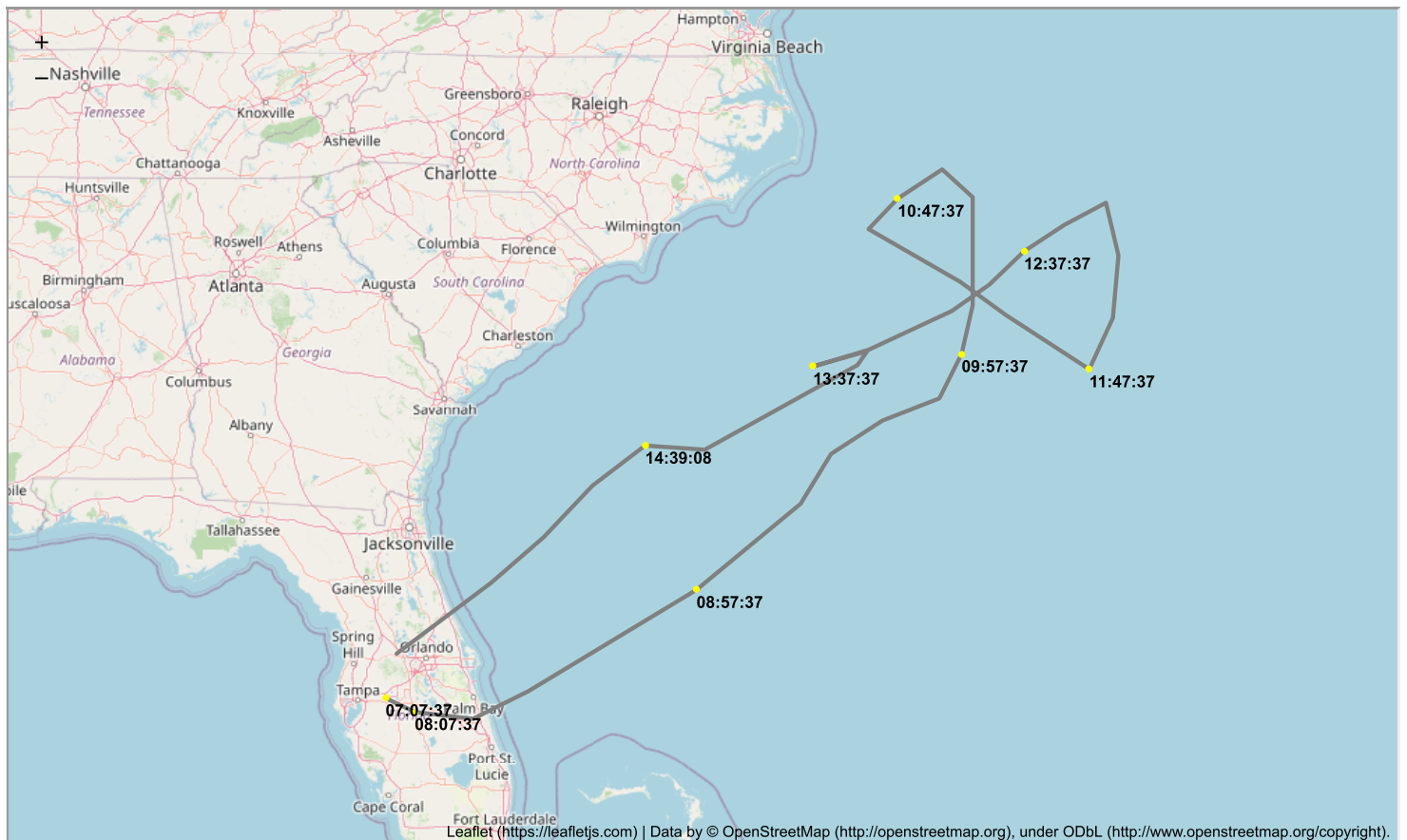
	✓	LatGPS.3			✓	LonGPS.3						
	✓	LatGPS.4			✓	LonGPS.4						
<b>Pressure</b>	✓	PDALPHA.1	✓	PQALPHA.1	✓	PQM.1	✓	PSM.1	✓	PDALPHAref	✓	PQMref
	✓	PDALPHA.2	✓	PQBETA.1	✓	PQM.2	✓	PSM.2	✓	PDBETAref	✓	PQ.c
	✓	PDBETA.1			✓	PQM.3	✓	PTM.1	✓	PQALPHAref	✓	PSMref
	✓	PDBETA.2			✓	PQM.4			✓	PQBETAref	✓	PS.c
<b>Air Speed</b>	✓	CasADDU.1	✓	TasADDU.1	✓	IasADDU.1			✓	IAS.d	✓	TAS.d
<b>Pitch/Roll</b>	✓	PitchI.1	✓	PitchRateI.1	✓	RollI.1	✓	RollRateI.1	✓	PITCHref		
	✓	PitchI.2	✓	PitchRateI.2	✓	RollI.2	✓	RollRateI.2	✓	ROLLref		
<b>Temp/Dewpt</b>	✓	TTM.1	✓	TDM.1	✓	TRadD.1			✓	TD.c	✓	TTMref
	✓	TTM.2	✓	TDM.2	✓	TRadS.1			✓	TDMref	✓	TA.d
	n/a	TTM.3	n/a	TDM.3	n/a	TRadU.1						
<b>Misc.</b>									✓	UWZ.d	✓	WS.d
									✓	DPJ_WSZ	✓	WD.d
									✓	HUM		

**QC/Data Comments:**

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.

Few stray PQM.4 spikes



**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210821H1	FLT #:		AC:	Rossi	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0800Z	CP(s):	Shaw	Aberson	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1600Z		Keith				19	0	19
Block Time		Flight Time		NAV:	Utama	ASOS Takeoff		BTs			
In:	15:50	Land:	15:40	FE(s):	Sanchez			A/C Land		Good	Bad
Out:	7:50	T/O:	7:58	FD(s):	Stokes	ASOS Land				6	2
Total:	8.0	Total:	7.7	SSA:	Richards, T			Visitors:			
Sponsoring Org:		NHC/EMC			SEB:		Storm Number ID:		AL082021		
Program:		PRX					(ie: AL072012)				
Purpose:		Hurricane Henri TDR MSN			MX:		TCPOD/WSPOD Mission		0908A HENRI		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH					x		1				
SCIENCE MISSION WITHIN BDRY LAYER					x						
LACK OF PRECIPITATION					x		2				
RELATIVE HUMIDITY ≥ 80%				x							
LARGE AIR-SEA TEMP GRADIENT					x		3				
HIGH SURFACE WINDS				x							
LONG FETCH / DURATION OF SFC WND					x		4				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED					x		Pennies:				

\*Highlighted items must be completed before departure.

Remarks:
