

N42 Error Summary

Overall Assessment: No instrument issues noted

Flight ID: 20210817H1 Mission ID: 0807A GRACE Mission Type: Tasked/Operational

T/O Time: 0758Z KLAL Landed: 1516Z KLAL

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

Expendable Counts

	Deployed	Good	Bad	Trasmitted
Dropsonde	14	14	0	14
AXBTs	0	0	0	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.1
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	1010.37	1012.23	1011.3	n/a
Landing	947.53	945.29	946.41	1010.7
UWZ Mean:	0.17			

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

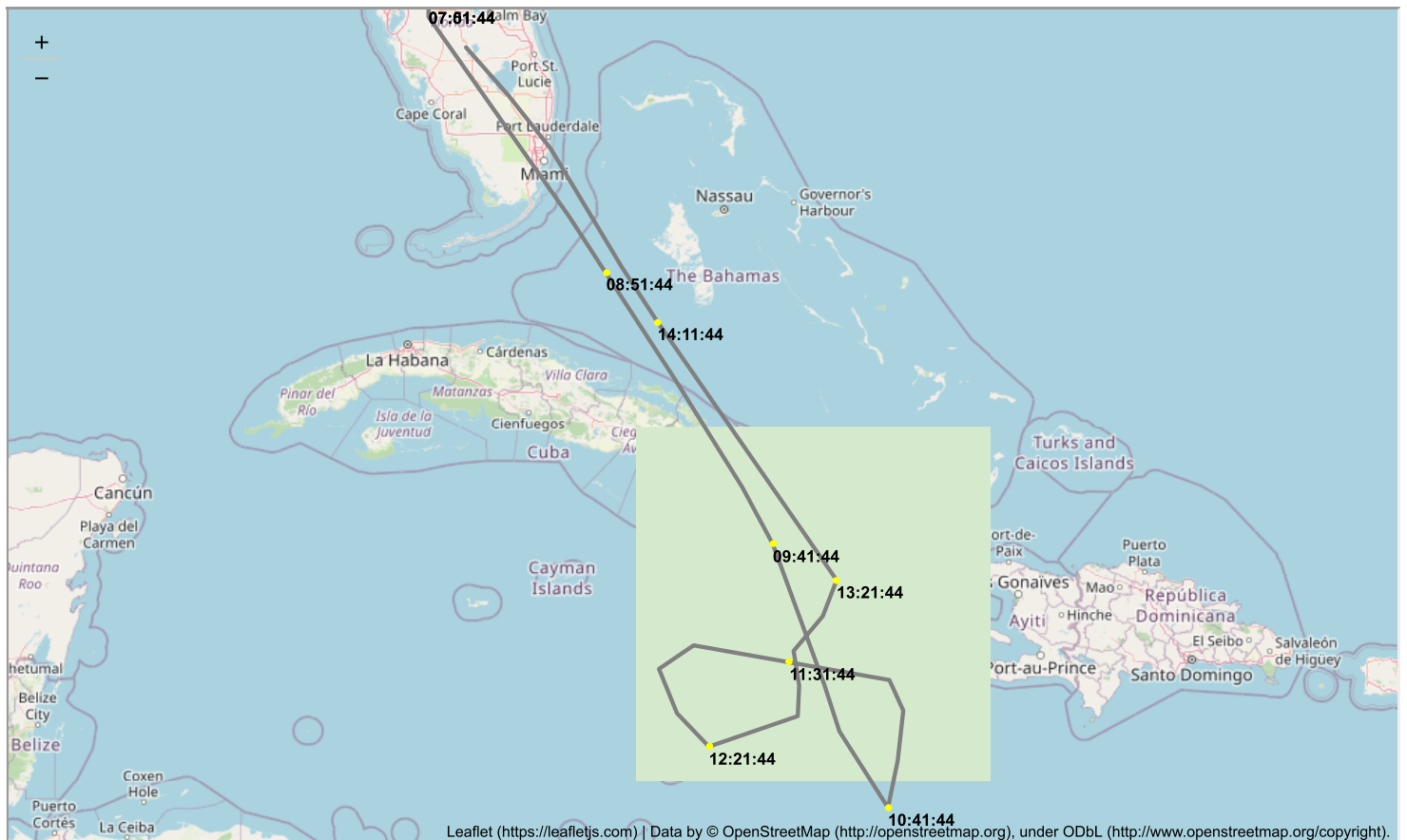
	/	LatGPS.3		/	LonGPS.3							
	/	LatGPS.4		/	LonGPS.4							
Pressure	/	PDALPHA.1	/	PQALPHA.1	/	PQM.1	/	PSM.1	/	PDALPHAref	/	PQMref
	/	PDALPHA.2	/	PQBETA.1	/	PQM.2	/	PSM.2	/	PDBETAref	/	PQ.c
	/	PDBETA.1			/	PQM.3	/	PTM.1	/	PQALPHAref	/	PSMref
	/	PDBETA.2			/	PQM.4			/	PQBETAref	/	PS.c
Air Speed	/	CasADDU.1	/	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		
Temp/Dewpt	/	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						
Misc.									/	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.

PQM.4 spike between 1327-1352Z



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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210817H1	FLT #:	1	AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0800Z	CP(s):	Stateler	Aberson	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1600Z		Shaw				14	0	14
Block Time		Flight Time		NAV:	Richards, Brian	Kiddo Greene	ASOS Takeoff	BTs			
In:		Land:	15:16	FE(s):	Sanchez		Utama	A/C Land	Good	Bad	Sent
Out:		T/O:	7:58	FD(s):	Lundry	ASOS Land		0	0	0	
Total:	0.0	Total:	7.3	SSA:	Richards, Todd	Visitors:	Storm Number ID:		AL072021		
Sponsoring Org:		EMC / NHC		AVAPS:	Warnecke	(ie: AL072012)					
Program:		PRX		SEB:		TCPOD/WSPOD Mission		0807A GRACE			
Purpose:		TDR Flight		MX:		(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				Y	N	REMAR	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:	N/A			

*Highlighted items must be completed before departure.

Remarks:
