

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210613I1	FLT #:		AC:	Legidakes	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	0800L	CP(s):	Doremus	Dahlberg	A/C Takeoff		Good	Bad	Sent
To:	PANC	ETA:	1600L		Rannenberg				0	0	0
Block Time		Flight Time		NAV:	Freeman		ASOS Takeoff		BTs		
In:	22:42	Land:	22:39	FE(s):	Heystek				Good	Bad	Sent
Out:	15:26	T/O:	15:30	FD(s):	Sanchez		A/C Land				
					Hathaway				0	0	0
					Holmes		ASOS Land				
Total:	7.3	Total:	7.2	SSA:	Richards	Visitors:					
Sponsoring Org:		NGS		AVAPS:	Knebel		Storm Number ID:		N/A		
Program:		PGR		SEB:			(ie: AL072012)				
Purpose:		GRAV-D 2nd Half Mission 7		MX:			TCPOD/WSPOD Mission		WXWXC GRAVD07		
							(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								Pennies:	N/A		
*Highlighted items must be completed before departure.											
Remarks:											

N43 Error Summary

Overall Assessment: Minor instrument issue(s)- no mission impact

Flight ID: 20210613I1 Mission ID: WXWXC GRAVD07 Mission Type: Non-tasked Science Collection/Research

T/O Time: 1530Z PANC Landed: 2239Z PANC

Flight Director(s): Hathaway QC performed by: Hathaway Phone #: 863-500-3911

Expendable Counts

	Deployed	Good	Bad	Trasmitted
Dropsonde	0	0	0	0
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	0.13
Attack Angle Slope	6.02
Slip Angle Intercept	0.23
Slip Angle Slope	7.02537
Attack Angle Intercept 2	
Attack Angle Slope 2	NaN
Slip Angle Intercept 2	inth
Slip Angle Slope 2	NaN

QC Checklist

	PSM.1	PSM.2	Average PSM	Station Pressure
Takeoff	1008.01	1008.18	1008.10	1007.6
Landing	1005.79	1007.76	1006.78	1007.0
UWZ Mean:	-0.02			

QC Key	Not checked	Reference	Valid	Errors(notes)								
Accelerometer	✓	AccAXI.1	✓	AccAYI.1	✓	AccAZI.1	✓	AccZfilter-GPS.1	✓	AccZref		
	✓	AccAXI.2	✓	AccAYI.2	✓	AccAZI.2	✓	AccZfilter-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		✓ 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
	✓ TTM.3	✓ TDM.3	✓ 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.1 is unrepresentative.

PQM.4 becomes unrepresentative towards the end of flight.

