U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest

FLIGHT INFORMATION

FLT ID:	20210219N1	FLT #:	
From:	KLAL	ETD:	1530
To:	KLGB	ETA:	

Block Time		Flight Time	
In:	2100	Land:	2057
Out:	1533Z	T/O:	1541Z
Total:	5.5	Total:	5.3

Sponsoring Org:	EMC
Program:	PAR
Purpose:	AR2021 Transit

CREW MANIFEST

AC:	Jason Mansour	Scientists:
CP(s):	Matthew Nardi	
	Lindsey Norman	
Nav(s):	Rebecca Waddington	
FE(s)	Jeff Newman	
FD(s):	Nikki Hathaway	
	Quinn Ralen	Visitors:
SEB:	Paul Flaherty	
SSA:	Gabe Defco	
AVAPS:	James Wavnecace	

MISSION INFORMATION

Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff		0	0	0
ASOS Takeoff				
		BTs		
		Good	Bad	Sent
A/C Land		0	0	0
ASOS Land				

Storm Number ID: (ie: AL072012)	Transita
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA9 WxWx Train

AS REQUIRED BY ORM

AS REQUIRED BY ORM	Y	N
VOLCANIC ASH		✓
SCIENCE MISSION WITHIN BDRY LAYER		✓
LACK OF PRECIPITATION		✓
RELATIVE HUMIDITY ≥ 80%		✓
LARGE AIR-SEA TEMP GRADIENT		✓
HIGH SURFACE WINDS		✓
LONG FETCH / DURATION OF SFC WND		✓
SEA SALT ACCRETION FORECAST		✓
SEA SALT ACCRETION OBSERVED		✓

REMARKS

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP

Gmax: Gmin:

*Highlighted items must be completed before departure.

Remarks:

N49 Error Summary

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

Flight ID: 20210219N1 **Mission ID:** WXWXA TRAIN **Mission Type:** Ferry

T/O Time: 1541Z KLAL **Landed:** 2057Z KLGB

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.2
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2
Dynamic Corrections	Yes
Attack Angle Intercept	3.97
Attack Angle Slope	3.86
Slip Angle Intercept	1.258
Slip Angle Slope	6.69941
Attack Angle Intercept 2	5.05753
Attack Angle Slope 2	5.52397
Slip Angle Intercept 2	0.931
Slip Angle Slope 2	6.57562

QC Checklist

	PSM.1	PSM.2	Average PSM	Station Pressure
Takeoff	1011.0	1012.0	1011.5	1012.3
Landing	1020.74	1021.83	1021.29	1019.8

UWZ Mean: 0.1

QC Key | Not checked(n/a) | **Reference (R)** | **Valid(/)** | **Errors(X)**

Accelerometer	/	AccAXI.1	/	AccAYI.1	/	AccAZI.1	/	AccZI.1	/	AccZref		
	/	AccAXI.2	/	AccAYI.2	/	AccAZI.2	/	AccZI.2				
	/	AccAXI.3	/	AccAYI.3	/	AccAZI.3	/	AccZI.3				
Altitude	/	AltGPS.1	/	AltI.1	/	AltPaADDU.1	/	AltBCADDU.1	/	ALTref		
	/	AltGPS.2	/	AltI.2	/	AltPaADDU.2	/	AltBCADDU.2	/	ALTPA.d		
	/	AltGPS.3	/	AltI.3	X	AltRA.1			/	ALTGA.d		
Ground Speed	/	GsXI.1	/	GsYI.1	/	GsZI.1	/	GsGPS.1	/	GSXref		
	/	GsXI.2	/	GsYI.2	/	GsZI.2	/	GsGPS.2	/	GSYref		
	/	GsXI.3	/	GsYI.3	/	GsZI.3			/	GSZref		
	/	GsXIGPS.1	/	GsYIGPS.1	/	GsZIGPS.1						
	/	GsXIGPS.2	/	GsYIGPS.2	/	GsZIGPS.2						
Lat/Lon	/	LatGPS.1	/	LatI.1	/	LonGPS.1	/	LonI.1	/	LATref		
	/	LatGPS.2	/	LatI.2	/	LonGPS.2	/	LonI.2	/	LONref		
	/	LatGPS.3	/	LatI.3	/	LonGPS.3	/	LonI.3				

Pressure	/	PDALPHA.1	/	PQALPHA.1	/	PQM.1	/	PSM.1	/	PDALPHAref	/	PQMref
	/	PDALPHA.2	/	PQALPHA.2	/	PQM.2	/	PSM.2	/	PDBETAref	/	PQ.c
	/	PDBETA.1	/	PQBETA.1					/	PQALPHAref	/	PSMref
	/	PDBETA.2	/	PQBETA.2					/	PQBETAref	/	PS.c
Air Speed	/	CasADDU.1	/	CasADDU.2	/	TasADDU.1	/	TasADDU.2	/	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	/	TTM.4	X	TDM.1			X	TD.c	/	TTMref
	n/a	TTM.2			X	TDM.2			X	TDMref	/	TA.d
	X	TTM.3										
Misc.									/	UWZ.d	/	WS.d
									/	DPJ_WSZ	/	WD.d
									X	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.

All three AccAXI parameters contain an unusual oscillation.

TTM.3 and TTM.4 have unnatural oscillations. Used TTM.1 as a reference.

TDM.1 and TDM.2 were unrepresentative for the cruise portion of the mission above 41K (especially through hour 4 of flight) and also for intervals at lower altitudes. Consider all relative humidity to be suspect.