

N49RF ERROR SUMMARY
 REPO MISSION BACK TO KLAL FROM MAGPIE

Flight ID: 20230809N1

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	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

Flight Directory acdata/2023/MET/20230809N1

Local Met Data	Takeoff TBPB (1558Z)	Landing KLAL (1938Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept	0.925	
SlipAngleSlope		6.56381
AttackAngleIntercept2		4.97461
AttackAngleSlope2	5.40351	
SlipAngleIntercept2		0.71
SlipAngleSlope2		6.22545

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	0	0	0
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Henning
 Phone #: (850) 499-0151

ACAT-4 Version = 7.4

REPO HOME FROM BARBADOS

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230809N1	FLT #:		AC:	NARD1	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	1630	CP(s):	BHATNAGAR	DUNION	A/C Takeoff	1008.8	Good	Bad	Sent
To:	KLAL	ETA:	2000		COZART		ASOS Takeoff	1007.8	Ø	Ø	Ø
Block Time		Flight Time		NAV:			A/C Land	1010.0	BTs		
In:	1949	Land:	1938	FE(s):			ASOS Land	1009.7	Good	Bad	Sent
Out:	1552	T/O:	1558	FD(s):	HENNING TIMMERS	Visitors:	Storm Number ID: (ie: AL072012)		WXWXA TRAIN		
Total:	4.0	Total:	3.7	SSA:	DEFEO		TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)				
Sponsoring Org:	HRD			AVAPS:	DYKEMAN	OBSERVATIONS					
Program:	PMX			SEB:	PATEL FLAHERTY (PM)	Fix Number	Obs Number	Fix Time	SLP		
Purpose:	Repo back to LAKELAND			MX:	CARRION	1					
AS REQUIRED BY ORM				Y	N	REMARKS					
VOLCANIC ASH					x						
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											
						Pennies:					
						*Highlighted items must be completed before departure.					
Remarks:											

G-IV QC Checklist

Flight ID:	20230809N1
Flight Director(s)	Henning / Timmers
UWZ.d mean:	0.02

Pressure Comparison		
	T/O	Land
Aircraft	1008.8	1010.0
Tower	1007.8	1009.7

	Raw 1Hz Mean File Parameters			C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3	✓ AltI.1 ✓ AltI.2 ✓ AltI.3	✓ AltPaADDU.1 ✓ AltPaADDU.2 x AlTRA.1	✓ AltBCADDU.1 ✓ AltBCADDU.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d
✓ Ground Speed	✓ GsXI.1 ✓ GsXI.2 ✓ GsXI.3 ✓ GsXGPS.1 ✓ GsXGPS.2 ✓ GsXGPS.3	✓ GsYI.1 ✓ GsYI.2 ✓ GsYI.3 ✓ GsYGPS.1 ✓ GsYGPS.2 ✓ GsYGPS.3	✓ GsZI.1 ✓ GsZI.2 ✓ GsZI.3 ✓ GsZGPS.1 ✓ GsZGPS.2 ✓ GsZGPS.3	✓ GsGPS.1 ✓ GsGPS.2 ✓ GsGPS.3	✓ GSXref ✓ GSYref ✓ GSZref
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3	✓ LatI.1 ✓ LatI.2	✓ LongGPS.1 ✓ LongGPS.2 ✓ LongGPS.3	✓ LonI.1 ✓ LonI.2	✓ LATref ✓ LONref
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQALPHA.2 ✓ PQBETA.1 ✓ PQBETA.2	✓ PQM.1 ✓ PQM.2	✓ PSM.1 ✓ PSM.2	✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHaref ✓ PQBETAref ✓ IAS.d ✓ TAS.d
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1			
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✓ PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 ✓ PitchRateI.3	✓ RolLI.1 ✓ RolLI.2 ✓ RolLI.3	RollRateI.1 ✓ RollRateI.2 ✓ RollRateI.3	✓ PITCHref ✓ ROLLref
x Temp / Dewpt	✓ TTM.1 ✓ TTM.2 ✓ TTM.3	✓ TTM.4	x TDM.1 x TDM.2		x TD.c x TDMref ✓ TTMref ✓ TA.d
x Misc. (Must check)					UWZ.d DPJ_WSZ x HUM ✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:	
✓	Error Summary
✓	Crew Manifest
✓	QC Checklist
✓	Dropwindsonde Log(s) - AVAPS and FD if completed
✓	Flight Track
<input type="checkbox"/>	Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>Radar Altitude INOP. GPS 3 (Novatel) is used for absolute altitude in calculation of all MET parameters.</p> <p>All FL humidity data is suspect above 25,000 feet. TDM2 is fairly accurate at lower altitudes</p> <p>UWZ mean +0.02 for mission</p>

08/09/2023, 15:03:46-19:48:46

LatGPS.3 (deg)

