

N49RF ERROR SUMMARY
 REPO MISSION TO BARBADOS FOR MAGPIE

Flight ID: 20230805N1

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/20230805N1

Local Met Data	Takeoff KLAL (1638Z)	Landing TBPB (2010Z)
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 KLAL to TBPB for MAGPIE deployment

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION					
FLT ID:	20230805N1	FLT #:		AC:	NARDI	Scientists:	Pressure		Dropsondes			
From:	KLAL	ETD:	1600	CP(s):	BHATNAGAR COZART	DUNION	A/C Takeoff	1012.0	Good	Bad	Sent	
To:	TBPB	ETA:	1930	NAV:			ASOS Takeoff	1011.4	Ø	Ø	Ø	
Block Time		Flight Time		FE(s):			A/C Land	1007.0	BTs			
In:	2014	Land:	2010	FD(s):	HENNING TIMMERS		ASOS Land	1005.8	Good	Bad	Sent	
Out:	1627	T/O:	1638	SSA:	DEFEO	Visitors:	Storm Number ID:					
Total:	3.8	Total:	3.5	AVAPS:	DYKEMAN		(ie: AL072012)					
Sponsoring Org:	HRD			SEB:	FLAHERTY (PM)		TCPOD/WSPOD Mission		WXWXA TRAIN			
Program:	PHX			MX:	CARRION		(ie: NOAA2 2418A SANDY)					
Purpose:	REPO TO BARBADOS			OBSERVATIONS								
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP		
VOLCANIC ASH				x			1					
SCIENCE MISSION WITHIN BDYR LAYER							2					
LACK OF PRECIPITATION							3					
RELATIVE HUMIDITY ≥ 80%							4					
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:	20230805N1
Flight Director(s)	Henning / Timmers

UWZ.d mean:	-0.12
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Pressure Comparison		
	T/O	Land
Aircraft	1012.0	1007.0
Tower	1011.4	1005.8

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1			✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2				
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.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	✓ GsGPS.3		✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2				
	✓ GsXGPS.3	✓ GsYGPS.3	✓ GsZGPS.3				
✓ Lat / Lon	✓ LatGPS.1	✓ LatI.1	✓ LonGPS.1	✓ LonI.1		✓ LATref	
	✓ LatGPS.2	✓ LatI.2	✓ LonGPS.2	✓ LonI.2		✓ LONref	
	✓ LatGPS.3		✓ LonGPS.3				
✓ Pressure	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1		✓ PDLAPHaref	✓ 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	✓ TasADDU.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	
	✓ PitchI.3	✓ PitchRateI.3	✓ RolLI.3	✓ RollRateI.3			
x Temp / Dewpt	✓ TTM.1	✓ TTM.4	x TDM.1			x TD.c	✓ TTMref
	✓ TTM.2		x TDM.2			x TDMref	✓ TA.d
	✓ TTM.3						
x Misc. (Must check)						UWZ.d	✓ WS.d
						DPJ_WSZ	✓ WD.d
						x HUM	

FLID_Mission_Documents.pdf:	
✓	Error Summary
✓	Crew Manifest
✓	QC Checklist
<input type="checkbox"/>	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 -0.12 for mission</p>

08/05/2023, 14:43:56-20:14:38

