

N43RF ERROR SUMMARY
20240715I1_ES

Flight ID: 20240715I1

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.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

Flight Directory acdata/2024/MET/20240715I1

Local Met Data	Takeoff TBPB (1505Z)	Landing TBPB (2021Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.179211
AttackAngleSlope		5.88163
SlipAngleIntercept		0.15
SlipAngleSlope		6.89472

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.

PitchI.3, RollI.33 not installed therefore no PitchRateI.3 / RollRateI.3 produced.

TTM.3, TDM.3, TRadU.1 inoperable.

SFMR TB, WS SFMR, AND RAIN RATE SFMR needs further assessment and data should be used with caution.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	31	31	31
Test sondes	0	0	0
AXBTs	4	4	4
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Zawislak/Englert
Phone #: 863-606-6847

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2024071511	FLT #:	FY24-	AC:	Rannenberg	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	1100L / 1500Z	CP(s):	Wood	Hazleton (HRD)	A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1900L / 2300Z		Ellis				31	0	31
Block Time		Flight Time		NAV:	Utama/Dunford		ASOS Takeoff		BTs		
In:	22:24	Land:	22:19	FE(s):	Stokes				Good	Bad	Sent
Out:	14:56	T/O:	15:06	FD(s):	Ripp		A/C Land		4	0	4
Total:	7.5	Total:	7.2		SSA:	Richards/Dykeman					
Sponsoring Org:		HRD		SEB:			Storm Number ID:	N/A			
Program:		PHX					(ie: AL072012)				
Purpose:		MAGPIE Mission 2		MX:			TCPOD/WSPOD Mission	WBWXA MAGPIE02			
							(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					X		Pennies:				
						*Highlighted items must be completed before departure.					
Remarks:											

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	2024071511
Flight Director(s):	Zawislak / Englert
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	-0.04

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1010.0	
Airfield	1008.9	

This form uses:	
_A.nc	

SFMR Serial Unit	3
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Parameters	Raw				Derived, Corrected & Reference	
<input checked="" type="checkbox"/> Acceleration	<input checked="" type="checkbox"/> AccAXI.1 <input checked="" type="checkbox"/> AccAXI.2 <input checked="" type="checkbox"/> AccAXI-GPS.1 <input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI.1 <input checked="" type="checkbox"/> AccAYI.2 <input checked="" type="checkbox"/> AccAYI-GPS.1 <input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI.1 <input checked="" type="checkbox"/> AccAZI.2 <input checked="" type="checkbox"/> AccAZI-GPS.1 <input checked="" type="checkbox"/> AccAZI-GPS.2	<input checked="" type="checkbox"/> AccZfilter-GPS.1 <input checked="" type="checkbox"/> AccZfilter-GPS.2	<input checked="" type="checkbox"/> AccZref	
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1 <input checked="" type="checkbox"/> AltGPS.2 <input checked="" type="checkbox"/> AltGPS.3 <input checked="" type="checkbox"/> AltGPS.4	<input checked="" type="checkbox"/> AltI-GPS.1 <input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltPaADDU.1 <input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.1 <input checked="" type="checkbox"/> AltRA.2 <input checked="" type="checkbox"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d	<input checked="" type="checkbox"/> ALTref <input checked="" type="checkbox"/> AltRA1.c <input checked="" type="checkbox"/> AltRA2.c	
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1 <input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.1 <input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.1 <input checked="" type="checkbox"/> GsZI-GPS.2		<input checked="" type="checkbox"/> GSXref <input checked="" type="checkbox"/> GSYref <input checked="" type="checkbox"/> GSZref	
<input checked="" type="checkbox"/> Location	<input checked="" type="checkbox"/> LatGPS.1 <input checked="" type="checkbox"/> LatGPS.2 <input checked="" type="checkbox"/> LatGPS.3 <input checked="" type="checkbox"/> LatGPS.4	<input checked="" type="checkbox"/> LatI-GPS.1 <input checked="" type="checkbox"/> LatI-GPS.2	<input checked="" type="checkbox"/> LonGPS.1 <input checked="" type="checkbox"/> LonGPS.2 <input checked="" type="checkbox"/> LonGPS.3 <input checked="" type="checkbox"/> LonGPS.4	<input checked="" type="checkbox"/> LonI-GPS.1 <input checked="" type="checkbox"/> LonI-GPS.2	<input checked="" type="checkbox"/> LATref <input checked="" type="checkbox"/> LONref	
<input checked="" type="checkbox"/> Pressure Sensors	<input checked="" type="checkbox"/> PDALPHA.1 <input checked="" type="checkbox"/> PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input checked="" type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQALPHA.1 <input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.1 <input checked="" type="checkbox"/> PQM.2 <input checked="" type="checkbox"/> PQM.3 <input checked="" type="checkbox"/> PQM.4	<input checked="" type="checkbox"/> PSM.1 <input checked="" type="checkbox"/> PSM.2 <input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PQMref <input checked="" type="checkbox"/> PQ.c <input checked="" type="checkbox"/> PSMref <input checked="" type="checkbox"/> PS.c	
<input checked="" type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> IasADDU.1		<input checked="" type="checkbox"/> IAS.d <input checked="" type="checkbox"/> TAS.d	
<input checked="" type="checkbox"/> Pitch / Roll	<input checked="" type="checkbox"/> PitchI.1 <input checked="" type="checkbox"/> PitchI.2 inop PitchI.3	<input checked="" type="checkbox"/> PitchRatI.1 <input checked="" type="checkbox"/> PitchRatI.2 inop PitchRatI.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 inop RollI.3	<input checked="" type="checkbox"/> RollRatI.1 <input checked="" type="checkbox"/> RollRatI.2 inop RollRatI.3	<input checked="" type="checkbox"/> PITCHref <input checked="" type="checkbox"/> ROLLref	
<input checked="" type="checkbox"/> Temperature, Dewpoint, Radiometers	<input checked="" type="checkbox"/> TTM.1 <input checked="" type="checkbox"/> TTM.2 inop TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 inop TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 inop TRadU.1		<input checked="" type="checkbox"/> TD.c <input checked="" type="checkbox"/> TDMref <input checked="" type="checkbox"/> HUM <input checked="" type="checkbox"/> TTMref <input checked="" type="checkbox"/> TA.d	
<input checked="" type="checkbox"/> Wind and Pressure <input checked="" type="checkbox"/> SFMR	SFMR	X CH 1 TB X CH 2 TB X CH 3 TB	X CH 4 TB X CH 5 TB X CH 6 TB		<input checked="" type="checkbox"/> UWZ.d <input checked="" type="checkbox"/> PSURF X WS SFMR	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> WD.d X RAIN RATE SFMR

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

QC Key:	
Valid	<input checked="" type="checkbox"/>
Errors (see NOTES)	X
Sensor Inoperative	inop

NOTES:

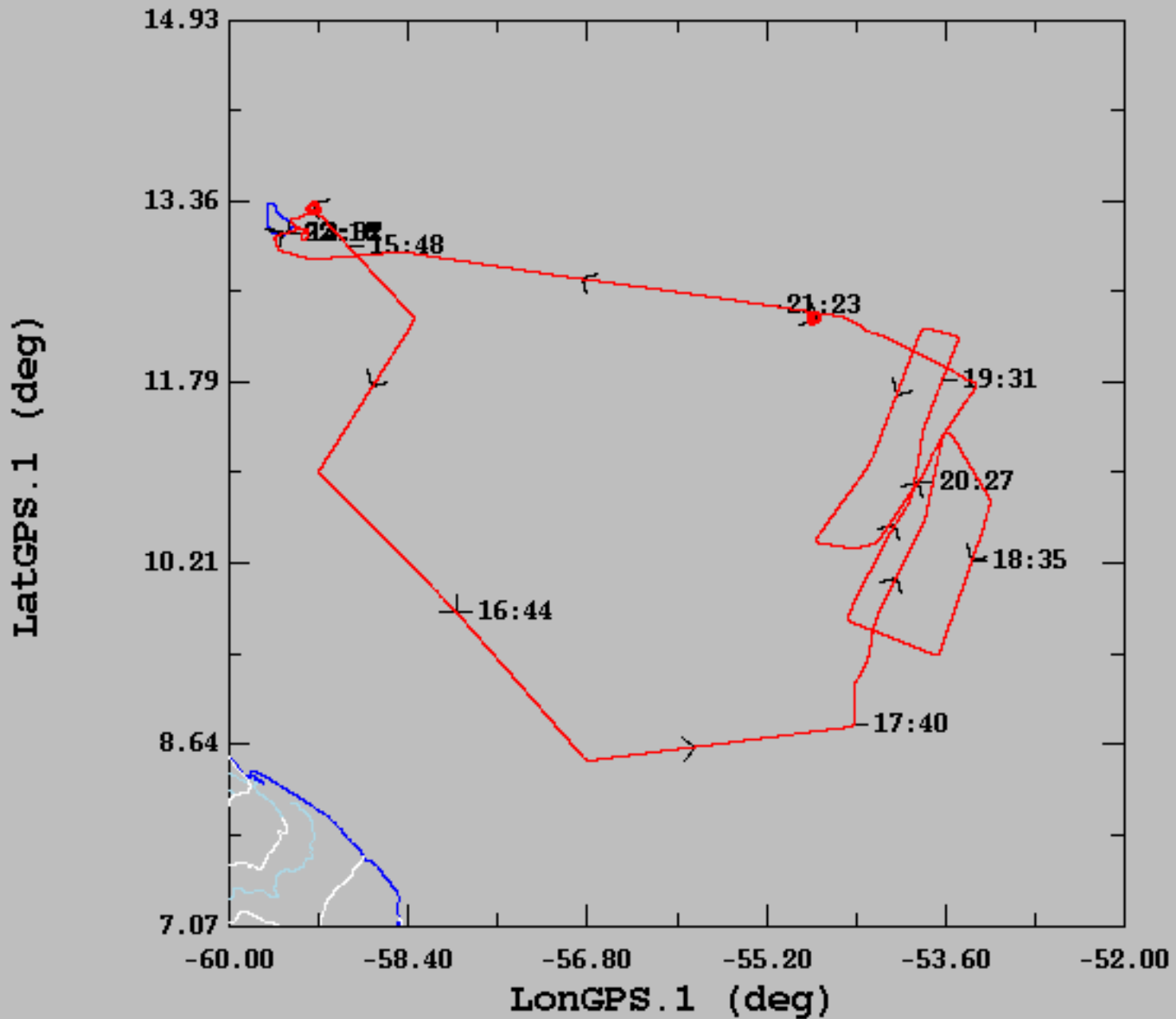
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 SFMR TB, WS SFMR, AND RAIN RATE SFMR needs further assessment and data should be used with caution.

AVAPS Drop Log

Project: MAG PIE Mission: MAG PIE Flight ID: 20240715I2
 Take Off: 1505Z Landing: 2219Z Flt Dir: K. England Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$ To	Comments	Good ?
1	233221000	1	-0.7	1544	ASR	DNR		✓
2	233630612	2	-0.3	1554	ASR	DNR		✓
3	233824626	3	-1.4	1620	ASR	DNR	Combo	✓
4	233220211	4	-0.8	1643	ASR	DNR	Combo	✓
5	233641222	5	-0.8	1709	ASR	DNR	Combo	✓
6	233850168	6	-0.2	1724	ASR	DNR		✓
7	233220200	7	-	1739	ASR	DNR	Combo	✓
8	233646203	8	-0.5	1743	ASR	DNR		✓
9	2332208910	1	-0.2	1809	ASR	DNR		✓
10	233641248	2	-0.3	1810	ASR	DNR		✓
11	233541310	3	-0.3	1827	BRD	DNR		✓
12	233824632	4	-0.4	1833	BRD	DNR		✓
13	233220964	5	-0.2	1840	BRD	DNR		✓
14	233350150	6	-0.3	1846	BRD	DNR		✓
15	23346694	7	-0.4	1900	BRD	DNR		✓
16	233350136 233466212	8	-0.6	1907	BRD	DNR		✓
17	233460212	1	-0.6	1914	BRD	DNR		✓
18	233350119	2	-0.2	1922	BRD	DNR		✓
19	233631987	3	-0.4	1936	BRD	DNR		✓
20	233350148	4	-0.5	1942	BRD	DNR		✓
21	233460165	5	-0.6	1948	BRD	DNR		✓
22	233340917	6	-0.3	1954	BRD	DNR		✓
23	233541311	7	-0.2	2009	BRD	DNR		✓
24	23350164	8	-0.6	2015	BRD	DNR		✓
25	233220999	1	-0.2	2025	BRD	DNR		✓
26	233350149	2	-0.6	2032	BRD	DNR		✓
27	233460166	3	-0.5	2040	BRD	DNR		✓
28	233541322	4	-0.4	2059	BRD	DNR		✓
29	233350120	5	-0.2	2132	BRD	DNR		✓
30	233350177	6	-0.6	2143	BRD	DNR		✓
31	233410947	7	-0.6	2157	BRD	DNR		

07/15/2024, 13:01:17-22:18:56



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	11.60	1.48	8.50	13.34
— LongGPS.1 (deg), 1 s/sec	-56.68	2.45	-59.58	-53.19