

N49RF ERROR SUMMARY
WAWXA MAGPIE1

Flight ID: 20230806N1

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/20230806N1

Local Met Data	Takeoff TBPB (2226Z)	Landing TBPB (0604Z)
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	36	35	35
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

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230806N	FLT #:		AC:	NARD I	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	2200	CP(s):	BHATNAGAR		A/C Takeoff	1008.2	Good	Bad	Sent
To:	TBPB	ETA:	0600		COZART		ASOS Takeoff	1007.3	35	1	35
Block Time		Flight Time		NAV:			A/C Land	1007.6	BTs		
In:	0607	Land:	0604	FE(s):			ASOS Land	1006.8	Good	Bad	Sent
Out:	2208	T/O:	2226	FD(s):	HENNING TIMMERS		Storm Number ID: (ie: AL072012)				
Total:	8.0	Total:	7.6	SSA:	DEFEO		Visitors:	TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)			
Sponsoring Org:		HRD		AVAPS:	DYKEMAN	WAWXA MAGPIE1					
Program:		PHX		SEB:	PATEL	OBSERVATIONS					
Purpose:		MAGPIE Research		MX:		Fix Number	Obs Number	Fix Time	SLP		

AS REQUIRED BY ORM	Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH		x		1			
SCIENCE MISSION WITHIN BDRY LAYER				2			
LACK OF PRECIPITATION				3			
RELATIVE HUMIDITY ≥ 80%				4			
LARGE AIR-SEA TEMP GRADIENT							
HIGH SURFACE WINDS							
LONG FETCH / DURATION OF SFC WND							
SEA SALT ACCRETION FORECAST							
SEA SALT ACCRETION OBSERVED							

*Highlighted items must be completed before departure.

Remarks:

(sonde 32 no PTH)

28
22

G-IV QC Checklist

Flight ID:	20230806N1
Flight Director(s)	Henning / Timmers

UWZ.d mean:	0.01
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Pressure Comparison		
	T/O	Land
Aircraft	1008.2	1007.6
Tower	1007.3	1006.8

	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	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ 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 +0.01 for mission</p>

AOC GPS Dropwindsonde Log (updated June 2023)

Flight ID: 20230806N1

ASPEN Operator/Flight Director(s): TIMMERS/HENNING

Mission ID: WANXA MAGPIE2

Storm Name/Track: MAGPIE MISSION

PG 1 of 1

Sonde #	Ob #	Launch Time HMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	2294 40	10167	1	14.7	-58.6	SCT	1014.0	080/16	2301	✓✓
2	2	2259 28	20259	2	16.4	-57.8	BKN	1015.1	080/18	2317	✓✓
3	3	2314 05	10209	3	17.9	-56.9	N/A	1016.7	090/18	2331	✓✓
4	4	2325 26	40274	4	18.0	-55.5	N/A	1016.8	080/15	2349	✓✓
5	5	2337 05	50562	1	18.0	-54.0	N/A	1016.9	095/19	2355	✓✓
6	6	2348 46	40803	2	18.0	-52.5	N/A	1017.3	090/22	0006	✓✓
7	7	0000 16	10034	3	18.0	-51.0	N/A	1017.9	100/18	0019	✓✓
8	8	0011 18	40683	4	17.9	-49.6	N/A	1017.8	080/18	0030	✓✓
9	9	0022 35	10199	1	16.6	-49.6	N/A	1017.9	085/18	0043	✓✓
10	10	0033 40	10243	2	16.5	-51.0	N/A	1017.1	075/15	0051	✓✓
11	11	0045 22	10156	3	16.5	-52.5	N/A	1017.2	080/00	0112	✓✓
12	12	0057 20	31453	4	16.5	-54.0	N/A	1016.8	090/15	0117	✓✓
13	13	0108 20	10154	1	16.4	-55.4	N/A	1016.7	080/18	0128	✓✓
14	14	0119 38	10038	2	15.0	-55.4	N/A	1015.4	090/12	0144	✓✓
15	15	0131 26	30708	3	15.0	-54.0	N/A	1016.7	095/14	0151	✓✓
16	16	0143 44	70959	4	15.0	-52.5	N/A	1016.5	095/14	0204	✓✓
17	17	0156 15	20235	1	15.0	-51.0	N/A	1016.1	085/17	0216	✓✓
18	18	0208 08	10553	2	14.9	-49.6	N/A	1017.3	090/13	0229	✓✓
19	19	0219 44	40679	3	13.6	-49.6	N/A	1015.7	090/14	0239	✓✓
20	20	0230 40	60014	4	13.5	-51.0	N/A	1015.5	090/09	0249	✓✓
21	21	0242 08	30728	1	13.5	-52.5	N/A	1015.8	080/13	0301	✓✓
22	22	0253 40	10240	2	13.5	-54.0	N/A	1015.6	095/12	0319	✓✓
23	23	0304 38	10119	3	13.4	-55.4	N/A	1013.7	090/15	0324	✓✓
24	24	0315 56	30223	4	12.1	-55.4	N/A	1014.1	110/14	0337	✓✓
25	25	0328 18	40651	1	12.0	-54.0	N/A	1014.5	095/10	0350	✓✓
26	26	0341 24	50006	2	12.0	-52.5	N/A	1013.9	090/07	0401	✓✓
27	27	0354 24	30552	3	12.0	-51.0	N/A	1014.6	115/09	0414	✓✓
28	28	0407 02	70964	4	11.9	-49.5	N/A	1014.6	070/08	0431	✓✓
29	29	0418 17	30145	1	10.6	-49.6	N/A	1014.1	055/04	0438	✓✓
30	30	0429 56	10045	2	10.5	-51.0	N/A	1013.1	100/07	0451	✓✓
31	31	0441 44	10030	3	10.5	-52.5	N/A	1013.7	100/05	0503	✓✓
32		0453		4			N/A		NO PTH		
33	32	0505 22	20245	1	10.5	-55.5	N/A	1012.9	115/09	0524	✓✓
34	33	0517 06	40681	2	10.5	-57.0	N/A	1012.8	115/09	0536	✓✓
35	34	0528 42	20107	3	10.6	-58.5	N/A	1013.0	100/08	0548	✓✓
36	35	0536 31	50037	4	11.4	-58.9	N/A	1012.7	105/12	0554	✓✓
37											
38											

COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

35 Obs Xmitted

1 Obs Missed

36 # of sondes launched

1 # of bad sondes

08/06/2023, 21:16:46-30:07:01

