



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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2024071311	FLT #:	FY24-	AC:	Rannenberg	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	1030L / 1430Z	CP(s):	Wood	Hazleton (HRD)	A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1800L / 2200Z		Ellis				<b>35</b>	<b>1</b>	<b>35</b>
Block Time		Flight Time		NAV:	Utama/Dunford		ASOS Takeoff		BTs		
In:	<b>20:55</b>	Land:	<b>20:50</b>	FE(s):	Stokes		A/C Land		Good	Bad	Sent
Out:	<b>14:38</b>	T/O:	<b>14:46</b>		Zawislak				<b>3</b>	<b>0</b>	<b>3</b>
Total:	<b>6.3</b>	Total:	<b>6.1</b>	SSA:	Richards	Visitors:	ASOS Land		N/A		
Sponsoring Org:		HRD		AVAPS:	Dykeman/Santoni	Venne, Nicolas	Storm Number ID:				
Program:		PHX		SEB:		Chatton, Jean	(ie: AL072012)		WAWXA MAGPIE01		
Purpose:		MAGPIE Mission 1					Melvin, Emily	TCPOD/WSPOD Mission			
				MX:			(ie: NOAA2 2418A SANDY)		OBSERVATIONS		
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH					X			<b>1</b>			
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION				X				<b>2</b>			
RELATIVE HUMIDITY ≥ 80%					X						
LARGE AIR-SEA TEMP GRADIENT					X			<b>3</b>			
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X			<b>4</b>			
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:	2024071301I
Flight Director(s):	Zawislak / Englert
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	0.03

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1010.9	
Airfield	1009.9	

This form uses:	
_B.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 <span style="color: blue;">inop</span> PitchI.3	<input checked="" type="checkbox"/> PitchRatI.1 <input checked="" type="checkbox"/> PitchRatI.2 <span style="color: blue;">inop</span> PitchRatI.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <span style="color: blue;">inop</span> RollI.3	<input checked="" type="checkbox"/> RollRatI.1 <input checked="" type="checkbox"/> RollRatI.2 <span style="color: blue;">inop</span> 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 <span style="color: blue;">inop</span> TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 <span style="color: blue;">inop</span> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <span style="color: blue;">inop</span> 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	<span style="color: red;">X</span> CH 1 TB <span style="color: red;">X</span> CH 2 TB <span style="color: red;">X</span> CH 3 TB	<span style="color: red;">X</span> CH 4 TB <span style="color: red;">X</span> CH 5 TB <span style="color: red;">X</span> CH 6 TB		<input checked="" type="checkbox"/> UWZ.d <input checked="" type="checkbox"/> PSURF <span style="color: red;">X</span> WS SFMR	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> WD.d <span style="color: red;">X</span> 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)	<span style="color: red;">X</span>
Sensor Inoperative	<span style="color: blue;">inop</span>

### NOTES:

PitchI.3, RollI.33 not installed therefore no PitchRatI.3 / RollRatI.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.

# AVAPS Drop Log

Project: MAGPIE

Mission: MAGPIE FH 1

Flight ID: 20240713J1

Take Off: 1446Z

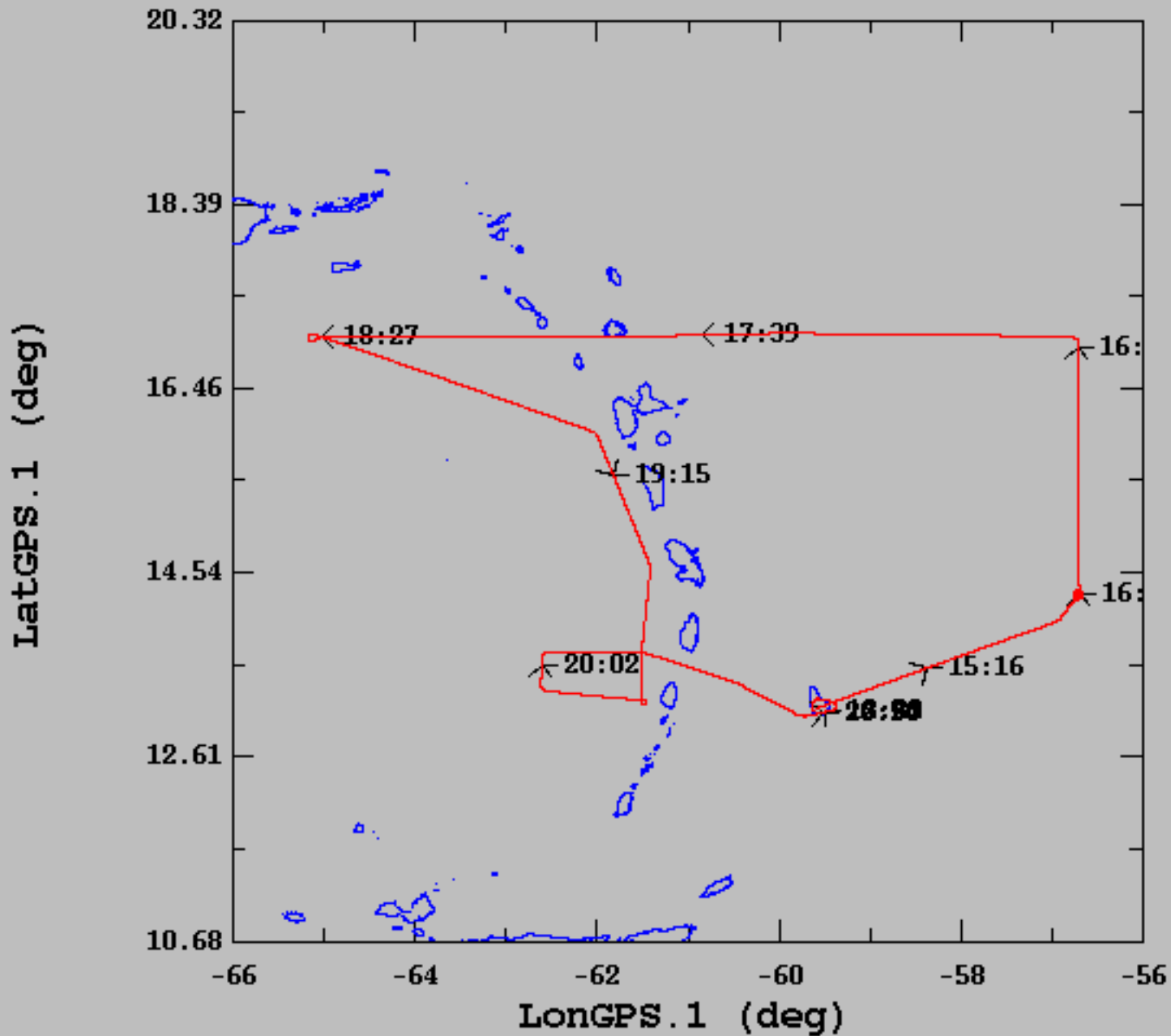
Landing: 2052Z

Flt Dir: ~~ENTREPRE~~

Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	222350026	1	-2.0	1458	BRD	DNR		✓
2	222010087	2	-1.7	1508	BRD	DNR	Combo	✓
3	222060089	3	-2.0	1519	BRD	DNR		✓
4	2221430152	4	-2.0	1530	BRD	DNR	Combo	✓
5	222030356	5	-1.7	1540	BRD	DNR	Combo	✓
6	222520329	6	-1.9	1621	ASR	DNR		✓
7	222060058	7	-1.7	1627	ASR	DNR		✓
8	221721270	8	-1.5	1634	ASR	DNR		✓
9	222330570	1	-1.3	1640	ASR	DNR		✓
10	221840071	2	-1.2	1647	ASR	DNR		✓
11	222010093	3	-1.2	1653	ASR	DNR		✓
12	2220300353	4	-1.7	1703	ASR	DNR		✓
13	222050537	5	-1.2	1714	ASR	DNR		✓
14	222050541	6	-1.2	1724 <sup>02</sup>	ASR	DNR		✓
15	233641221	7	-0.6	1734	ASR	DNR		✓
16	233640818	8	-0.6	1745	ASR	DNR		✓
17	233641236	1	-0.7	1754	BRD	DNR		✓
18	233460693	2	-0.7	1805	BRD	DNR		✓
19	233630622	3	-0.2	1817	BRD	DNR		✓
20	233340895	4	-1.5	1827	BRD	DNR		✓
21	233640530	5	-0.8	1909	BRD	DNR		✓
22	23350124	6	-0.7	1912	BRD	DNR		✓
23	233640829	7	-1.0	1916	BRD	DNR		✓
24	233221007	8	-1.0	1920	BRD	DNR		✓
25	233350146	1	-1.1	1923	BRD	DNR		✓
26	233641259	2	-0.8	1927	BRD	DNR		✓
27	233560246	3	-0.7	1930	BRD	DNR		✓
28	233350180	4	-0.1	1934	BRD	DNR		✓
29	233560364	5	-1.0	1937	BRD	DNR		✓
30	233560243	6	-0.5	1944	BRD	DNR		✓
31	233460211	7	-0.8	1954	BRD	DNR	NO DP/HUM	0

07/13/2024, 12:53:48-20:50:31



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	14.66	1.60	13.03	17.04
— LongGPS.1 (deg), 1 s/sec	-60.00	2.28	-65.16	-56.66