

N49RF ERROR SUMMARY
20240824N1

Flight ID: 20240824N1

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/2024/MET/20240824N1

Local Met Data	Takeoff PHNL (2024Z)	Landing PHNL (0158Z)
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		6.22549

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	26	25	25
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter
Phone #: 8635003901

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20240824N1	FLT #:	24-	AC:	Varwig	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1000L / 2000Z	CP(s):	Mayo		A/C Takeoff	1017.9	Good	Bad	Sent
To:	PHNL	ETA:	1800L / 0400Z		Pawlenko		ASOS Takeoff	PHNL 2053Z 1016.1 mb	25	1	25
Block Time		Flight Time		NAV:					BTs		
Out:	20:12	T/O:	20:25	FE(s):			A/C Land	1014.9	Good	Bad	Sent
In:	2:02	Land:	1:58	FD(s):	Carpenter		ASOS Land	PHNL 0153Z 1014.1 mb	0	0	0
Total:	5.8	Total:	5.6	SSA:	Defeo	Visitors:	Storm Number ID:		CP012024		
Sponsoring Org:	NWS / CPHC			AVAPS:	Brannigan		(ie: AL072012)				
Program:	PHS			SEB:	Kotz		TCPOD/WSPOD Mission		NOAA9 0601C CYCLONE		
Purpose:	Surveillance mission #3 Hone			MX:			(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:	N/A			

*Highlighted items must be completed before departure.

Remarks:

G-IV QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	20240824N1
Flight Director(s):	Carpenter / de Solo
Mission:	Tasked/Operational
UWZ.d mean:	-0.04

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1017.9	1014.9
Airfield	1016.1	1014.1

This form uses:	_A.nc
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Parameters	Raw				Derived, Corrected & Reference
✓ Acceleration	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZI.1	✓ AccZref
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ AccZI.2	
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3	✓ AccZI.3	
✓ Altitude	✓ AltGPS.1	✓ AltI.1	✓ AltPaADDU.1	✓ AltBCADDU.1	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d
	✓ AltGPS.2	✓ AltI.2	✓ AltPaADDU.2	✓ AltBCADDU.2	
	✓ AltGPS.3	✓ AltI.3	✗ AltRA.1		
✓ Ground Speed	✓ GsXI.1	✓ GsYI.1	✓ GsZI.1	✓ GsGPS.1	✓ GSXref ✓ GSYref ✓ GSZref
	✓ GsXI.2	✓ GsYI.2	✓ GsZI.2	✓ GsGPS.2	
	✓ GsXI.3	✓ GsYI.3	✓ GsZI.3		
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1		
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2		
✓ Location	✓ LatGPS.1	✓ LatI.1	✓ LongGPS.1	✓ LonI.1	✓ LATref ✓ LONref
	✓ LatGPS.2	✓ LatI.2	✓ LongGPS.2	✓ LonI.2	
	✓ LatGPS.3	✓ LatI.3	✓ LongGPS.3	✓ LonI.3	
✓ Pressure Sensors	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2	
	✓ PDBETA.1	✓ PQBETA.1			
	✓ PDBETA.2	✓ PQBETA.2			
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1			✓ IAS.d ✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRatel.1	✓ RollI.1	✓ RollRatel.1	✓ PITCHref ✓ ROLLref
	✓ PitchI.2	✓ PitchRatel.2	✓ RollI.2	✓ RollRatel.2	
	✓ PitchI.3	✓ PitchRatel.3	✓ RollI.3	✓ RollRatel.3	
✓ Temperature / Dewpoint	✓ TTM.1	✓ TTM.4	✗ TDM.1		✗ TD.c ✓ TTMref ✗ TDMref ✓ TA.d ✗ HUM
	inop		✓ TDM.2		
	✓ TTM.3				
✗ Wind					✓ UWZ.d ✗ WS.d ✗ WD.d

FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
✓ Dropwindsonde Log(s) - AVAPS and FD, if completed
✓ Flight Track

QC Key:	
Valid	✓
Errors (see NOTES)	✗
Sensor Inoperative	inop

NOTES:
<p>AltRa.1 failure.</p> <p>RH sensors require calibration, all moisture quantities and derivatives should be considered suspect.</p> <p>Wind calibration needed, all flight level wind quantities and derivatives should be considered suspect.</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20240824N1

ASPEN Operator/Flight Director(s): Carpenter / de Solo

Mission ID: NOAA9 0601C HONE

Storm Name/Track: T6 Hone

PG 1 of 1

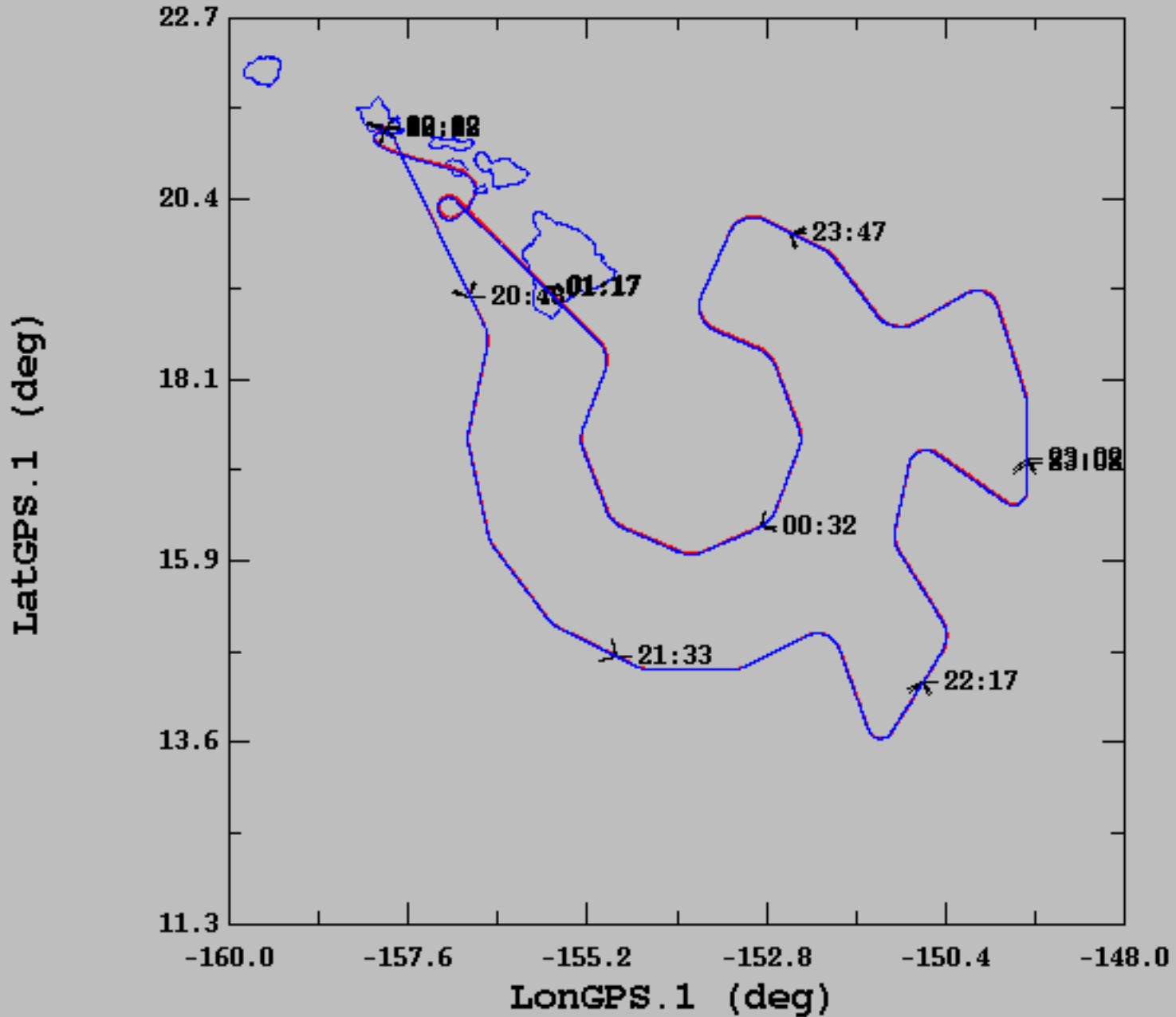
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	2103	24015	1	17.4	-156.8		1012.6	Pt 2 (insuff. cabin press. Pt 1) 040/21	2121	
2	2	2114	14952	2	16.1	-156.5		1012.1	045/20	2130	
3	3	2125	30727	3	15.0	-155.6		1012.6	025/14	2147	
4	4	2136	10948	4	14.5	-154.4		1012.1	045/02	2158	
5	5	2147	20322	1	14.5	-153.1		1011.4	215/06	2207	
6	6	2157	19832	2	14.9	-152.0		1011.9	170/10	2215	
7	7	2209	20808	3	13.6	-151.3		1011.5	185/12	2230	
8	8	2223	20894	4	14.9	-150.4		1012.6	170/13	2241	
9	9	2235	30776	1	16.1	-151.1		1011.5	160/14	2254	
10	10	2245	20267	2	17.2	-150.7		1011.6	140/19	2310	
11	11	2258	20225	3	16.6	-149.4		1013.4	155/16	2317	
12	12	2309	20279	4	17.9	-149.3		1013.4	100/11	2329	
13	—	2322	30029	1					bad winds		
14	13	2323	51455	2	14.3	-150.0		1014.7	backup 090/22	2342	
15	14	2332	51458	3	18.8	-151.1		1012.5	110/21	2350	
16	15	2343	24672	4	19.8	-152.0		1012.3	075/27	0000	
17	16	2353	10792	1	20.2	-153.1		1013.1	060/28	0014	
18	17	0005	10914	2	18.9	-153.6		1007.8	065/39	0021	
19	18	0013	20485	3	18.4	-152.7		1009.0	110/27	0031	
20	19	0022	15061	4	17.4	-152.3		1009.8	155/21	0041	
21	20	0031	20182	1	16.3	-152.8		1010.0	205/11	0048	
22	21	0040	14616	2	15.9	-153.8		1009.7	260/08	0058	
23	22	0049	50681	3	16.4	-154.9		1009.2	325/13	0106	
24	23	0058	50682	4	17.4	-155.3		1008.3	340/23	0117	
25	24	0108	24671	1	18.5	-154.9		1006.5	015/37	0126	
26	25	0130	51604	2	20.4	-156.9		1012.0	045/15	0147	
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ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

COMMENTS:

Obs Xmitted 25 Obs Missed 1 # of sondes launched 26 # of bad sondes 1
 (pt 1, see note)

08/24/2024, 19:18:15-26:02:39



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	18.28	2.39	13.60	21.33
— LongGPS.1 (deg), 1 s/sec	-154.43	2.90	-158.05	-149.30
— LatI.1 (deg), 1 s/sec	18.28	2.39	13.61	21.34
— LonI.1 (deg), 1 s/sec	-154.41	2.90	-158.05	-149.29