



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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20240823N1	FLT #:		AC:	Varwig	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:			Pawlenko		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:		CP(s):	Mayo				28	2	28
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	4:00	Land:	3:56	FE(s):					Good	Bad	Sent
Out:	21:06	T/O:	21:22	FD(s):	Carpenter		A/C Land				
Total:	6.9	Total:	6.6	SSA:	Defeo	Visitors:	ASOS Land				
Sponsoring Org:		NWS			AVAPS:	Kotz	Storm Number ID:		CP012024		
Program:		PHS				Brannigan	(ie: AL072012)				
Purpose:		TS HONE			SEB:		TCPOD/WSPOD Mission		NOAA9 0301C HONE		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	OBSERVATIONS					
VOLCANIC ASH						Fix Number	Obs Number	Fix Time	SLP		
SCIENCE MISSION WITHIN BDRY LAYER						1					
LACK OF PRECIPITATION											
RELATIVE HUMIDITY ≥ 80%											
LARGE AIR-SEA TEMP GRADIENT											
HIGH SURFACE WINDS						3					
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST						4					
SEA SALT ACCRETION OBSERVED											
						Pennies:					
						*Highlighted items must be completed before departure.					
Remarks:											

## G-IV QC Checklist

Overall Assessment

No instrument issues noted.

Flight ID:	20240823N1
Flight Director(s):	Carpenter/de Solo
Mission:	Tasked/Operational
UWZ.d mean:	-0.07

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft		
Airfield	1016.7	1015.5

This form uses:

[A.nc](#)

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      20240821N1 ✓ ALTPA.d ✓ ALTGA.d	
	✓ AltGPS.2	✓ AltI.2	✓ AltPaADDU.2	✓ AltBCADDU.2		
	✓ AltGPS.3	✓ AltI.3	INOP 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	X TDM.1		✓ TD.c	✓ TTMref
	INOP TTM.2		✓ TDM.2		✓ TDMref	✓ TA.d
	✓ TTM.3				X HUM	
X Wind					✓ UWZ.d	X WS.d X WD.d

### FLID\_Mission\_Documents.pdf:

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

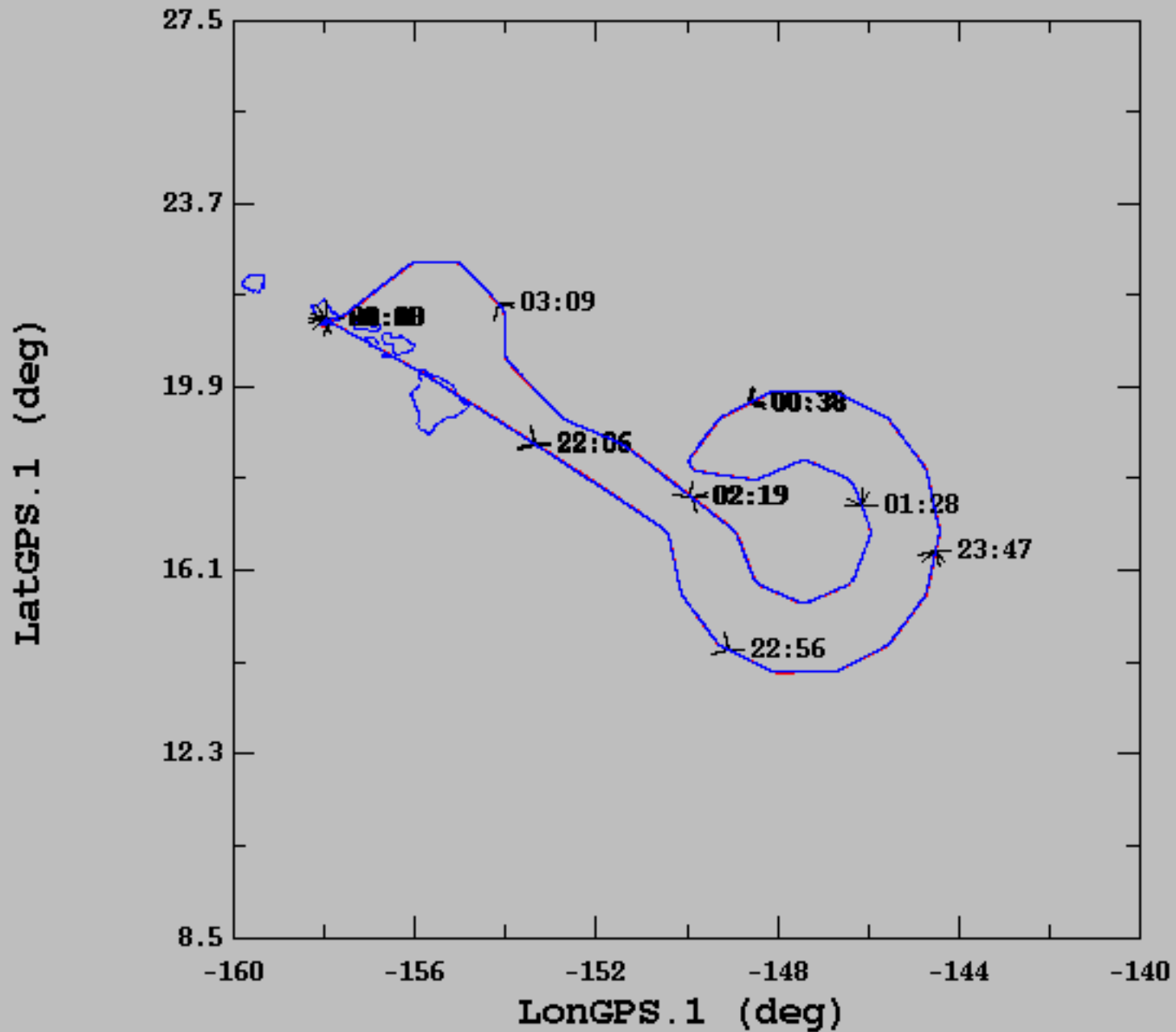
### QC Key:

Valid	✓
Errors (see NOTES)	X
Sensor Inoperative	inop

### NOTES:

Flight level winds are removed due to known inconsistencies.

08/23/2024, 20:25:07-28:00:23



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	18.63	2.39	13.98	22.50
— LonGPS.1 (deg), 1 s/sec	-151.30	4.50	-158.06	-144.41
— LatI.1 (deg), 1 s/sec	18.62	2.39	13.98	22.49
— LonI.1 (deg), 1 s/sec	-151.29	4.50	-158.03	-144.40

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20240823N1

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

Mission ID: NOAA9 0301C HONE

Storm Name/Track: CP012024 / TS 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	2233	20050	1	16.9	-150.4		1010.3	030/19	2251	
2	2	2244	10519	2	15.6	-150.1		1009.2	015/16	2302	
3	3	2255	10134	3	14.5	-149.2		1010.1	025/03	2313	
4	4	2305	40696	4	14.0	-148.0		1010.2	225/08	2323	
5	5	2317	15055	1	14.0	-146.7		1010.3	180/19	2337	
6	6	2328	30777	2	14.6	-145.5		1011.1	175/16	2348	
7	7	2339	40176	3	15.6	-144.7		1011.5	165/18	0001	
8	8	2350	60216	4	16.9	-144.4		1012.7	140/13	0012	
9	9	0002	20819	1	18.2	-144.7		1012.7	095/23	0022	
10	—	0012	20081	2	—	—	—	—	bad winds	—	
11	10	0014	20067	3	19.4	-145.8		1013.4	backup for Pt 10 075/24	0035	
12	11	0023	10525	4	19.8	-146.6		1013.8	070/28	0043	
13	12	0033	10521	1	19.8	-148.1		1012.9	070/27	0051	
14	13	0043	20166	2	19.2	-149.3		1010.8	050/27	0101	
15	14	0053	60168	3	18.3	-149.9		1009.7	025/28	0111	
16	15	0105	20122	4	18.0	-148.4		1007.6	070/33	0129	
17	16	0115	20085	1	18.4	-147.4		1010.2	095/28	0132	
18	17	0124	20183	2	17.9	-146.3		1011.3	105/20	0143	
19	18	0133	20083	3	16.9	-145.9		1010.3	130/18	0151	
20	19	0142	30370	4	15.8	-146.4		1010.2	175/13	0201	
21	20	0151	10534	1	15.4	-147.4		1008.3	180/23	0211	
22	21	0200	10877	2	15.9	-148.5		1006.1	195/16	0217	
23	22	0209	50246	3	16.9	-148.9		1000.1	240/24	0227	
24	23	0234	10530	4	18.7	-151.4		1010.5	045/28	0258	
25	24	0245	50245	1	19.2	-152.7		1012.5	055/24	0304	
26	25	0259	10538	2	20.5	-154.0		1014.2	065/21	0319	
27	—	0308	20154	3	—	—	—	—	no GPS	—	
28	26	0308	14828	4	21.6	-154.1		1015.0	backup 075/19	0328	
29	27	0320	20277	1	22.5	-155.0		1016.1	080/21	0337	
30	28	0328	10517	2	22.5	-156.0		1015.9	070/26	0346	
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COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

Obs Xmitted 28 Obs Missed 0 # of sondes launched 30 # of bad sondes 2