

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20240822N1	FLT #:		AC:	Varwig	Scientists:	Pressure		Dropsondes		
From:	KLGB	ETD:		CP(s):	Pawlenko		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:			Mayo				13	1	13
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	0:10	Land:	0:05	FE(s):			A/C Land		Good	Bad	Sent
Out:	17:24	T/O:	17:32	FD(s):	Carpenter	Visitors:	ASOS Land				
Total:	6.8	Total:	6.6	SSA:	Defeo						
Sponsoring Org:		NWS			AVAPS:	Kotz	Storm Number ID:		CP012024		
Program:		PHS				Brannigan	(ie: AL072012)				
Purpose:		REPO			SEB:		TCPOD/WSPOD Mission		NOAA9 0101A CYCLONE		
							(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						REMARKS		1			
LACK OF PRECIPITATION								2			
RELATIVE HUMIDITY ≥ 80%								3			
LARGE AIR-SEA TEMP GRADIENT								4			
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
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:	20240822N1
Flight Director(s):	Carpenter/de Solo
Mission:	Tasked/Operational
UWZ.d mean:	-0.1

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1013.9	
Airfield	1014.1	1017.4

This form uses:

[A.nc](#)

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.3	<input checked="" type="checkbox"/> AccAYI.1 <input checked="" type="checkbox"/> AccAYI.2 <input checked="" type="checkbox"/> AccAYI.3	<input checked="" type="checkbox"/> AccAZI.1 <input checked="" type="checkbox"/> AccAZI.2 <input checked="" type="checkbox"/> AccAZI.3	<input checked="" type="checkbox"/> AccZI.1 <input checked="" type="checkbox"/> AccZI.2 <input checked="" type="checkbox"/> AccZI.3	<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"/> AltI.1 <input checked="" type="checkbox"/> AltI.2 <input checked="" type="checkbox"/> AltI.3	<input checked="" type="checkbox"/> AltPaADDU.1 <input checked="" type="checkbox"/> AltPaADDU.2 INOP AltRA.1	<input checked="" type="checkbox"/> AltBCADDU.1 <input checked="" type="checkbox"/> AltBCADDU.2	<input checked="" type="checkbox"/> ALTref 20240821N1 <input checked="" type="checkbox"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d		
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI.1 <input checked="" type="checkbox"/> GsXI.2 <input checked="" type="checkbox"/> GsXI.3 <input checked="" type="checkbox"/> GsXGPS.1 <input checked="" type="checkbox"/> GsXGPS.2	<input checked="" type="checkbox"/> GsYI.1 <input checked="" type="checkbox"/> GsYI.2 <input checked="" type="checkbox"/> GsYI.3 <input checked="" type="checkbox"/> GsYGPS.1 <input checked="" type="checkbox"/> GsYGPS.2	<input checked="" type="checkbox"/> GsZI.1 <input checked="" type="checkbox"/> GsZI.2 <input checked="" type="checkbox"/> GsZI.3 <input checked="" type="checkbox"/> GsZGPS.1 <input checked="" type="checkbox"/> GsZGPS.2	<input checked="" type="checkbox"/> GsGPS.1 <input checked="" type="checkbox"/> GsGPS.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"/> LatI.1 <input checked="" type="checkbox"/> LatI.2 <input checked="" type="checkbox"/> LatI.3	<input checked="" type="checkbox"/> LongGPS.1 <input checked="" type="checkbox"/> LongGPS.2 <input checked="" type="checkbox"/> LongGPS.3	<input checked="" type="checkbox"/> LonI.1 <input checked="" type="checkbox"/> LonI.2 <input checked="" type="checkbox"/> LonI.3	<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"/> PQALPHA.2 <input checked="" type="checkbox"/> PQBETA.1 <input checked="" type="checkbox"/> PQBETA.2	<input checked="" type="checkbox"/> PQM.1 <input checked="" type="checkbox"/> PQM.2	<input checked="" type="checkbox"/> PSM.1 <input checked="" type="checkbox"/> PSM.2	<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"/> 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 <input checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRatel.1 <input checked="" type="checkbox"/> PitchRatel.2 <input checked="" type="checkbox"/> PitchRatel.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <input checked="" type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRatel.1 <input checked="" type="checkbox"/> RollRatel.2 <input checked="" type="checkbox"/> RollRatel.3	<input checked="" type="checkbox"/> PITCHref <input checked="" type="checkbox"/> ROLLref		
<input checked="" type="checkbox"/> Temperature / Dewpoint	<input checked="" type="checkbox"/> TTM.1 INOP TTM.2 <input checked="" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TTM.4	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2			<input checked="" type="checkbox"/> TD.c <input checked="" type="checkbox"/> TDMref <input checked="" type="checkbox"/> TTA.d	<input checked="" type="checkbox"/> TTMref <input checked="" type="checkbox"/> TA.d
<input checked="" type="checkbox"/> Wind					<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> 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	<input checked="" type="checkbox"/>
Errors (see NOTES)	<input checked="" type="checkbox"/>
Sensor Inoperative	inop

NOTES:

Flight level winds are removed due to known inconsistencies.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20240822N1

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

Mission ID: NOAA9 0101C CYCLONE

Storm Name/Track: TD 1-C

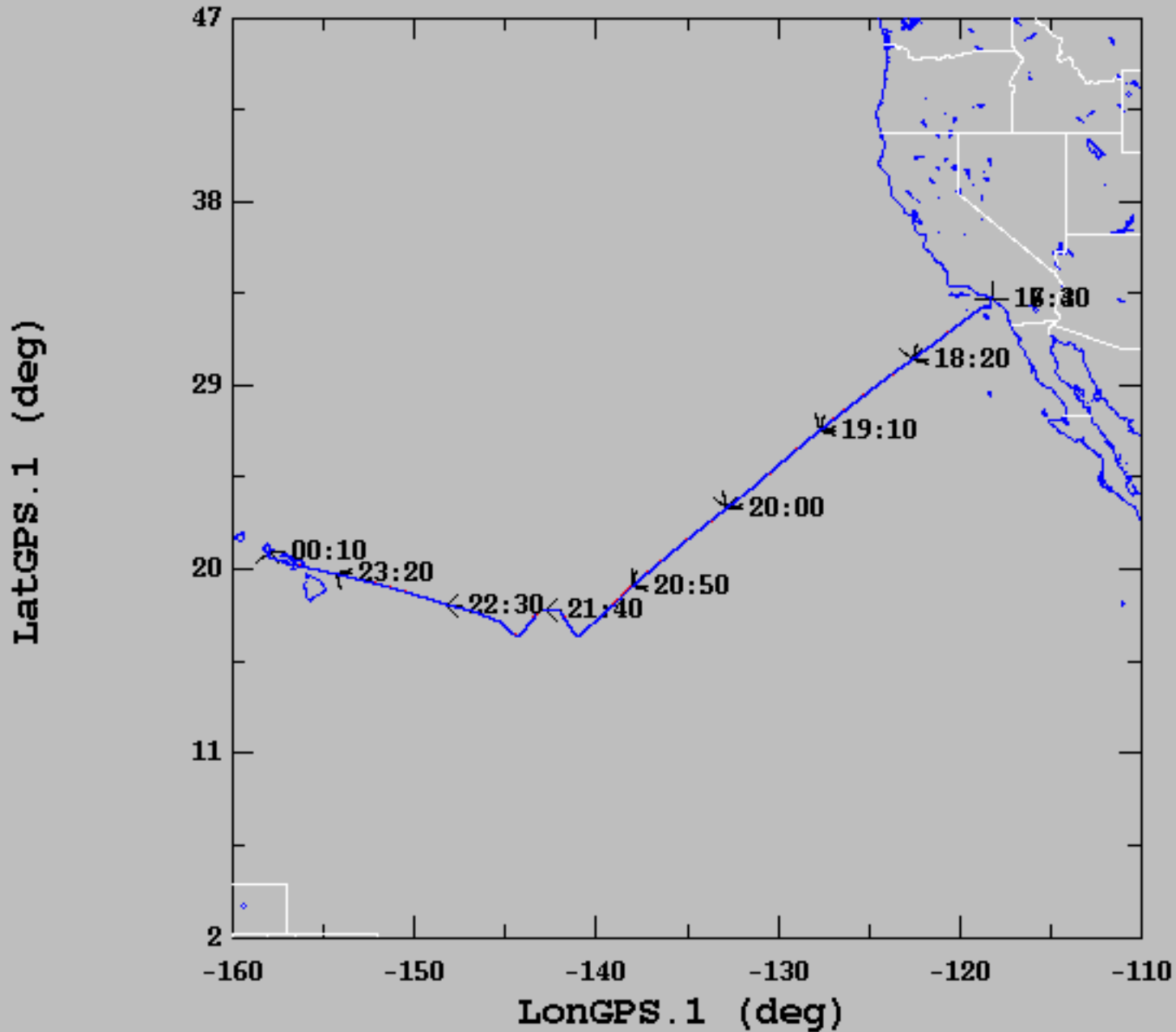
PG 1 of 1

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	2050	20274	1	19.6	138.0		1016.1	060/20	2109	
2	2	2101	20268	2	18.7	139.0		1014.5	095/18	2118	
3	3	2111	30730	3	17.9	-140.0		1012.7	140/21	2129	
4	4	2121	60354	4	17.2	-141.0		1011.8	110/29	2142	
5	5	2134	10520	1	18.5	-142.0		1012.3	075/18	2152	
6	6	2142	30026	2	18.5	-143.0		1011.7	055/32	2201	
7	-	2157	30369	3	-	-		-	NO GPS	-	
8	7	2158	20278	4	17.2	-144.4		1009.8	backup to drop 7 04/25	2216	
9	8	2207	20893	1	17.9	-145.3		1011.5	040/28	2225	
10	9	2218	30388	2	18.4	-146.7		1013.2	060/26	2236	
11	10	2230	50626	3	18.7	-148.1		1014.1	060/22	2247	
12	11	2241	30019	4	19.1	-149.5		1014.2	065/21	2259	
13	12	2252	20828	1	19.5	-150.9		1015.2	055/18	2311	
14	13	2304	20132	2	19.8	-152.3		1015.4	065/23	2321	
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COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

Obs Xmitted **13** Obs Missed **0** # of sondes launched **14** # of bad sondes **1**

08/22/2024, 16:40:24-24:10:07



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.31	5.82	17.20	33.85
— LonGPS.1 (deg), 1 s/sec	-135.86	12.95	-158.04	-118.14
— LatI.1 (deg), 1 s/sec	24.31	5.81	17.21	33.85
— LonI.1 (deg), 1 s/sec	-135.88	12.95	-158.04	-118.14