

N49RF ERROR SUMMARY
20231203N1

Flight ID: 20231203N1

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.1
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2023/MET/20231203N1

Local Met Data	Takeoff PHNL (1913Z)	Landing PHNL (0307Z)
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	34	30	30
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen/de Solo
Phone #: 8635003962

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20231203N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:			Paklenko		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:		CP(s):					30	4	30
Block Time		Flight Time		NAV:			ASOS Takeoff	1016.9	BTs		
In:	3:13	Land:	3:08	FE(s):			A/C Land		Good	Bad	Sent
Out:	18:59	T/O:	19:13	FD(s):	Kalen						
					de Solo		ASOS Land	1014.8			
Total:	8.2	Total:	7.9	SSA:	Defeo	Visitors:					
Sponsoring Org:		NWS		AVAPS:	Dykeman		Storm Number ID:				
Program:		PAR		SEB:	Keller		(ie: AL072012)				
Purpose:		Atmospheric Rivers		MX:			TCPOD/WSPOD Mission		NOAA9 03WSC IOP03		
							(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						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

Flight ID:	20231203N1
Flight Director(s)	Kalen/de Solo
UWZ.d mean:	-0.03

Pressure Comparison		
	T/O	Land
Aircraft	1016.0	1014.1
Tower	1016.9	1014.8

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1			✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2				
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3				
✓ Altitude	✓ AltGPS.1	✓ AltI.1	✓ AltPaADDU.1	✓ AltBCADDU.1		✓ ALTref	
	✓ AltGPS.2	✓ AltI.2	✓ AltPaADDU.2	✓ AltBCADDU.2		✓ ALTPA.d	
	✓ AltGPS.3	✓ AltI.3	X AltRA.1			✓ ALTGA.d	
✓ Ground Speed	✓ GsXI.1	✓ GsYI.1	✓ GsZI.1	✓ GsGPS.1		✓ GSXref	
	✓ GsXI.2	✓ GsYI.2	✓ GsZI.2	✓ GsGPS.2		✓ GSYref	
	✓ GsXI.3	✓ GsYI.3	✓ GsZI.3	X GsGPS.3		✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2				
	X GsXGPS.3	X GsYGPS.3	X GsZGPS.3				
✓ Lat / Lon	✓ LatGPS.1	✓ LatI.1	✓ LonGPS.1	✓ LonI.1		✓ LATref	
	✓ LatGPS.2	✓ LatI.2	✓ LonGPS.2	✓ LonI.2		✓ LONref	
	✓ LatGPS.3		✓ LonGPS.3				
✓ Pressure	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1		X PDLAPHaref	✓ PQMref
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2		X PDBETAref	✓ PQ.c
	✓ PDBETA.1	✓ PQBETA.1				X PQALPHAref	✓ PSMref
	✓ PDBETA.2	✓ PQBETA.2				X PQBETAref	✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1				✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRateI.1	✓ RolI.1	✓ RollRateI.1		✓ PITCHref	
	✓ PitchI.2	✓ PitchRateI.2	✓ RolI.2	✓ RollRateI.2		✓ ROLLref	
	✓ PitchI.3	✓ PitchRateI.3	✓ RolI.3	✓ RollRateI.3			
✓ Temp / Dewpt	✓ TTM.1	✓ TTM.4	X TDM.1			X TD.c	✓ TTMref
	X TTM.2		X TDM.2			X TDMref	✓ TA.d
	✓ TTM.3						
✓ Misc. (Must check)						✓ UWZ.d	✓ WS.d
						X DPJ_WSZ	✓ WD.d
						X HUM	

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

QC Key	
Not checked	☐
Valid	✓
Errors (note)	X

NOTES:

AltRA.1, TTM.2, and GSGPS.1's are not operational.

TDM.1 and TDM.2 has erroneous data throughout the flight and should not be used.

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file

AOC GPS Dropwindsonde Log (updated June 2023)

Flight ID: 20231203N1ASPEN Operator/Flight Director(s): Kalen / de SoloMission ID: N0AA9 03WSC IOPO3Storm Name/Track: Atmospheric Rivers Mission 1PG 1 of 1

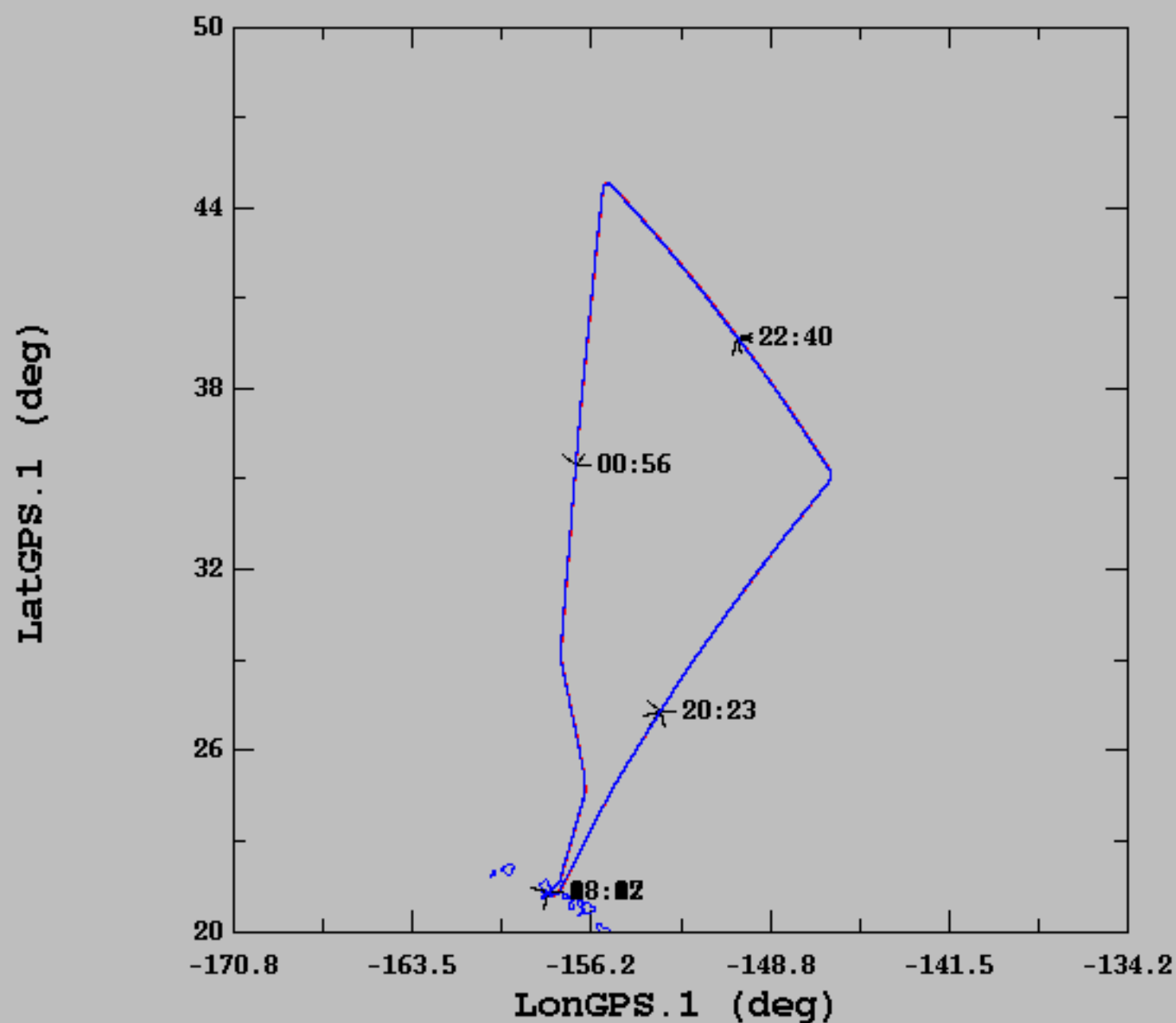
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°W)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	204018	50396	1	29.86	-152.05	Clr	1018.6		032059	N
2	2	205131	20756	2	29.87	-151.16	Few	1019.1		032111	N
3	3	210520	50128	3	31.14	-150.02	Clr	1017.5	No Launch Detect	032122	N
4	3	210520	20792	4	31.14	-150.02	Clr	1017.5		032122	N
5	4	211435	51213	1	31.99	-149.24	Clr	1015.0		32132	N
6	5	212606	41099	3	33.07	-148.23	OVC	1013.8		32143	N
7	6	213655	50047	2	34.07	-147.22	I	1014.5		32153	N
8	7	214740	50049	4	35.12	-146.32	I	1012.6		32205	N
9	8	215943	10054	1	36.17	-147.08	BKN	1008.6		32216	N
10	9	221101	40143	2	37.14	-147.87	OVC	1005.0		32229	N
11	10	222241	31809	3	38.15	-148.71	I	1000.4		32240	N
12	11	223401	40021	4	39.15	-149.69	I	995.5		32250	N
13	12	224501	51467	1	40.14	-150.57	I	993.7		32263	N
14	13	225600	50127	2	41.13	-151.50	Few	989.0		32314	N
15	14	230636	40008	3	42.12	-152.49	I	984.1		32325	N
16	15	231648	30327	4	43.09	-153.49	I	978.1		32333	N
17	16	232653	40557	1	44.06	-154.54	BKN	970.2		32351	N
18	17	233527	50445	2	44.78	-155.51	OVC	962.1		32355	N
19	18	234439	61550	3	45.77	-155.76	OVC	969.7		40007	N
20	19	235525	13841	4	46.77	-155.76	OVC	969.7	Fast Fall	40007	N
21	19	235836	40024	1	47.15	-155.98	BKN	982.7		40016	N
22	20	000540	51473	2	48.32	-156.08	BKN	987.6		40025	N
23	21	001607	20788	3	49.32	-156.08	BKN	987.6	Slow fall	40034	N
24	21	001918	40058	4	49.73	-156.28	BKN	995.2		40037	N
25	22	002644	50132	1	50.87	-156.38	Few	998.6		40043	N
26	23	003715	41058	2	51.65	-156.53	I	1001.9		40055	N
27	24	004757	50122	3	52.41	-156.66	I	1004.9		40104	N
28	25	005811	50133	4	53.20	-156.78	I	1008.6		40123	N
29	26	010842	51454	1	53.97	-156.91	OVC	1010.2		40127	N
30	27	011901	31772	2	54.77	-157.04	I	1011.8	Fast Fall	40137	N
31	27	011955	10059	3	55.65	-157.04	I	1011.8		40137	N
32	28	012913	50072	4	56.52	-157.16	BKN	1012.3		40146	N
33	29	013905	10055	1	57.30	-157.28	BKN	1014.9		40156	N
34	30	014858	31020	2	58.08	-157.38	CLR	1014.3	Last Report	40205	N
35											
36											
37											
38											

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

COMMENTS:

Obs
Xmitted 30Obs
Missed 0# of sondes
launched 34# of bad
sondes 4

12/03/2023, 18:07:24-27:12:40



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	31.17	7.63	21.09	44.79
LongGPS.1 (deg), 1 s/sec	-154.47	3.54	-158.11	-146.32
LatI.1 (deg), 1 s/sec	31.18	7.63	21.11	44.80
LonI.1 (deg), 1 s/sec	-154.45	3.54	-158.09	-146.31