

N49RF ERROR SUMMARY
20231205N1

Flight ID: 20231205N1

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/20231205N1

Local Met Data	Takeoff PHNL (1917Z)	Landing PHNL (0245Z)
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	30	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:	20231205N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:			Paklenko		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:		CP(s):					30	0	30
Block Time		Flight Time		NAV:			ASOS Takeoff	1018.1	BTs		
In:	2:52	Land:	2:46	FE(s):			A/C Land		Good	Bad	Sent
Out:	19:01	T/O:	19:18	FD(s):	Kalen						
					de Solo		ASOS Land	1016.1			
Total:	7.9	Total:	7.5	SSA:	Defeo	Visitors:					
Sponsoring Org:		NWS		SEB:	Keller		Storm Number ID:				
Program:		PAR					(ie: AL072012)				
Purpose:		Atmospheric Rivers		MX:			TCPOD/WSPOD Mission		NOAA9 05WSC IOP05		
							(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:	20231205N1
Flight Director(s)	Kalen/de Solo
UWZ.d mean:	0.02

Pressure Comparison		
	T/O	Land
Aircraft	1017.0	1015.2
Tower	1018.1	1016.1

	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: 20231205N1ASPEN Operator/Flight Director(s): Kalen / de SoloMission ID: NOAA9 OSWSC IOPOSStorm Name/Track: Atmospheric RiversPG 1 of

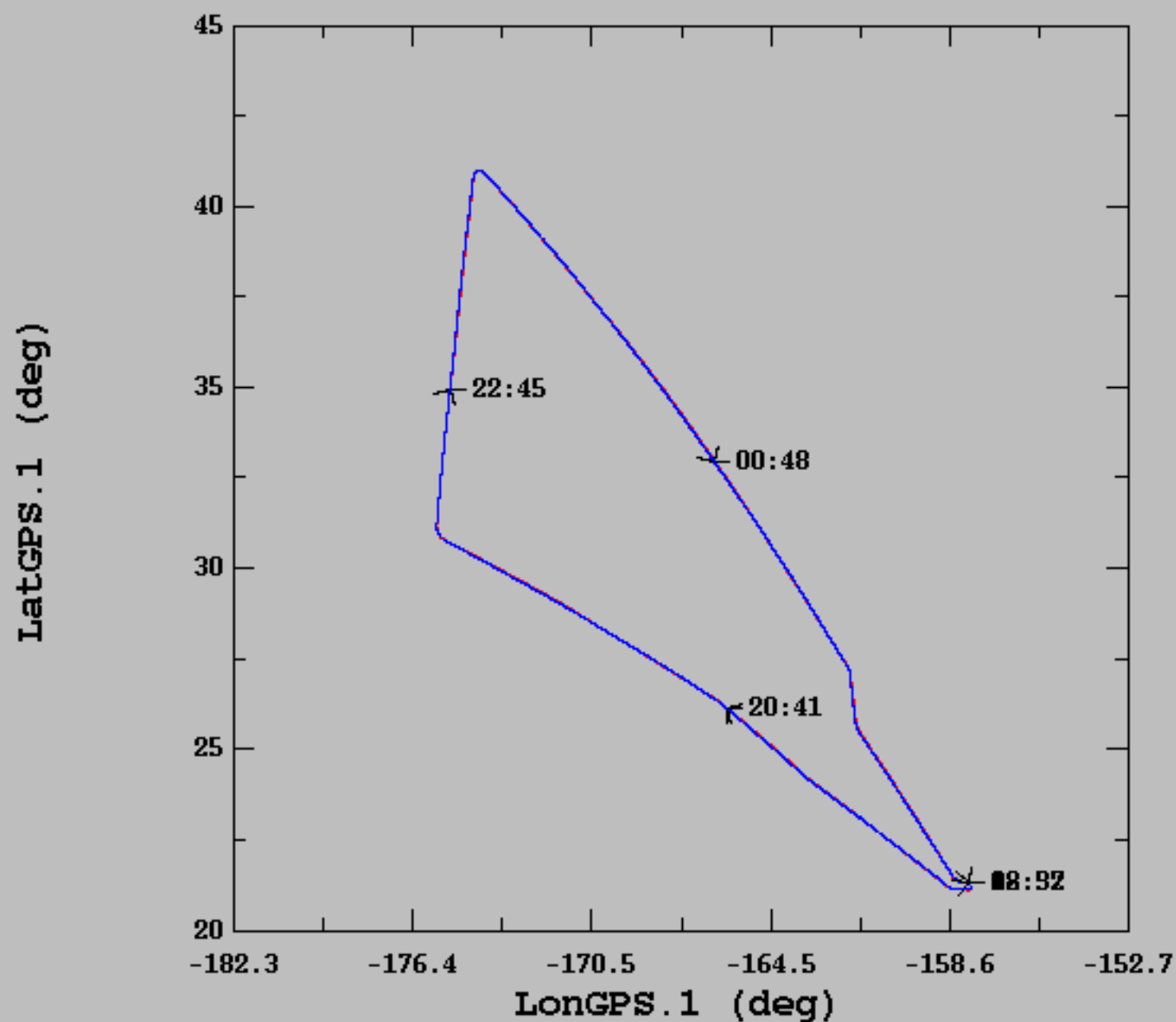
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°W)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	204415	31843	1	26.30	-166.21	BKN	1023.2	33004	52121	N
2	2	205643	40139	2	27.00	-167.49		1023.2	10022	52131	N
3	3	210931	10031	3	27.68	-168.80		1024.5	12514	52138	N
4	4	212221	30921	4	28.35	-170.14		1024.0	14008 / Sat Conn issues 720-800mb	52143	Y
5	5	213508	40045	1	29.02	-171.47	Few	1023.3	15515	52200	N
6	6	214802	40445	2	29.65	-172.84	Few	1021.8	16020	52212	N
7	7	220037	40020	3	30.28	-174.22	Few	1021.5	20019	52218	N
8	8	221246	31828	4	31.0	-175.0	OVC	1020.3	19526	2236	✓✓
9	9	222256	31847	1	32.2	-175.5	OVC	1016.9	19035	2255	✓✓
10	10	223332	30843	2	33.5	-175.3	OVC	1014.8	/	2300	✓✓
11	11	224406	50315	3	34.8	-175.1	OVC	1009.3	19537	2309	✓✓
12	12	225533	30977	4	36.3	-175.0	OVC	1004.4	/	2314	✓✓
13	13	230347	30183	1	37.3	-174.8	OVC	1001.3	17531	2320	✓✓
14	14	231406	20924	2	38.6	-174.7	OVC	1003.1	13534	2333	✓✓
15	15	232432	20659	3	39.9	-174.5	OVC	1007.4	10534	2341	✓✓
16	16	233328	20289	4	41.0	-174.1	OVC	1010.9	11033	2350	✓✓
17	17	234137	50235	1	40.2	-173.2	OVC	1011.1	10532	2359	✓✓
18	18	235037	20801	2	39.3	-172.2	OVC	1010.2	11535	0009	✓✓
19	19	235954	51534	3	38.3	-171.3	OVC	1013.0	13527	0017	✓✓
20	20	000918	50147	4	37.3	-170.3	OVC	1014.1	15532	0027	✓✓
21	21	001911	10486	1	36.2	-169.3	OVC	1016.7	15525	0039	✓✓
22	22	002713	20832	2	35.6	-168.5	OVC	1020.0	14517	0048	✓✓
23	23	003626	30385	3	34.3	-167.5	OVC	1020.9	18513	0111	✓✓
24	24	004511	50468	4	33.3	-166.7	OVC	1021.5	17016	0116	✓✓
25	25	005404	10674	1	32.3	-165.8	OVC	1024.4	/	0119	✓✓
26	26	010254	20516	2	31.3	-165.0	BKN	1022.6	15509	0122	✓✓
27	27	011200	50130	3	30.3	-164.2	BKN	1023.5	12011	0135	✓✓
28	28	012122	41068	4	29.3	-163.4	BKN	1023.1	08011	0143	✓✓
29	29	013040	40053	1	28.2	-162.7	BKN	1021.7	10015	0159	✓✓
30	30	014009	51437	2	27.2	-162.0	BKN	1020.6	09015	0205	✓✓
31											
32											
33											
34											
35											
36											
37											
38											

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

COMMENTS:

Obs
XmittedObs
Missed# of sondes
launched# of bad
sondes

12/05/2023, 18:37:45-26:52:24



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	29.03	6.04	21.12	41.00
LonGPS.1 (deg), 1 s/sec	-166.52	6.11	-175.57	-157.88
LatI.1 (deg), 1 s/sec	29.04	6.03	21.11	41.00
LonI.1 (deg), 1 s/sec	-166.52	6.11	-175.57	-157.88