

N49RF ERROR SUMMARY
20210311N1

Flight ID: 20210311N1

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/2021/MET/20210311N1

Local Met Data	Takeoff PHNL (1840Z)	Landing PHNL (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		5.05753
AttackAngleSlope2	5.52397	
SlipAngleIntercept2		0.931
SlipAngleSlope2		6.57562

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.

TTM.3 various points of oscillations

TDM.1 unrepresentative

Moisture quantities remain suspect at flight level

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	38	29	29
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen / Hathaway

Phone #: 863-500-3962

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210311N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1830	CP(s):	Norman		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	230						29	9	29
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	2:38	Land:	2:33	FE(s):					Good	Bad	Sent
Out:	18:16	T/O:	18:40	FD(s):	Hathaway		A/C Land		0	0	0
					Kalen						
Total:	8.4	Total:	7.9	SSA:	Defeo	Visitors:	ASOS Land				
Sponsoring Org:		EMC		AVAPS:	Warnecke		Storm Number ID:		NONE		
Program:		PAR					(ie: AL072012)				
Purpose:		AR 2021 IOP26		SEB:			TCPOD/WSPOD Mission		NOAA9 16WSC IOP26		
							(ie: NOAA2 2418A SANDY)				
				MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH							1				
SCIENCE MISSION WITHIN BDRY LAYER											
LACK OF PRECIPITATION							2				
RELATIVE HUMIDITY ≥ 80%											
LARGE AIR-SEA TEMP GRADIENT							3				
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND							4				
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED							Pennies:				

*Highlighted items must be completed before departure.

Remarks: PADQ, PACD, PHNL

G-IV QC Checklist

Flight ID:	20210311N1
Flight Director(s)	Kalen / Hathaway
UWZ.d mean:	0.18

Pressure Comparison		
	T/O	Land
Aircraft	1019.7	--
Tower	1019.5	1015.8

	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	✓ 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	☐ GsGPS.3		✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2				
	☐ GsXGPS.3	☐ GsYGPS.3	☐ 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		✓ PDLAPHaref	✓ PQMref
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2		✓ PDBETAref	✓ PQ.c
	✓ PDBETA.1	✓ PQBETA.1				✓ PQALPHAref	✓ PSMref
	✓ PDBETA.2	✓ PQBETA.2				✓ 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	☒ TDM.1			✓ TD.c	✓ TTMref
	☐ TTM.2		✓ TDM.2			✓ TDMref	✓ TA.d
	☒ TTM.3						
✓ Misc. (Must check)						✓ UWZ.d	✓ WS.d
						✓ DPJ_WSZ	✓ WD.d
						✓ 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)	☒

NOTES:
TTM.3 various points of oscillations TDM.1 unrepresentative Moisture quantities remain suspect at flight level

Flight ID: 20210311N1

ASPEN Operator/Flight Director(s): Hathaway / kalen

Mission ID: 16WSC 10P16

Storm Name/Track: AR 2021

PG 1 of 1

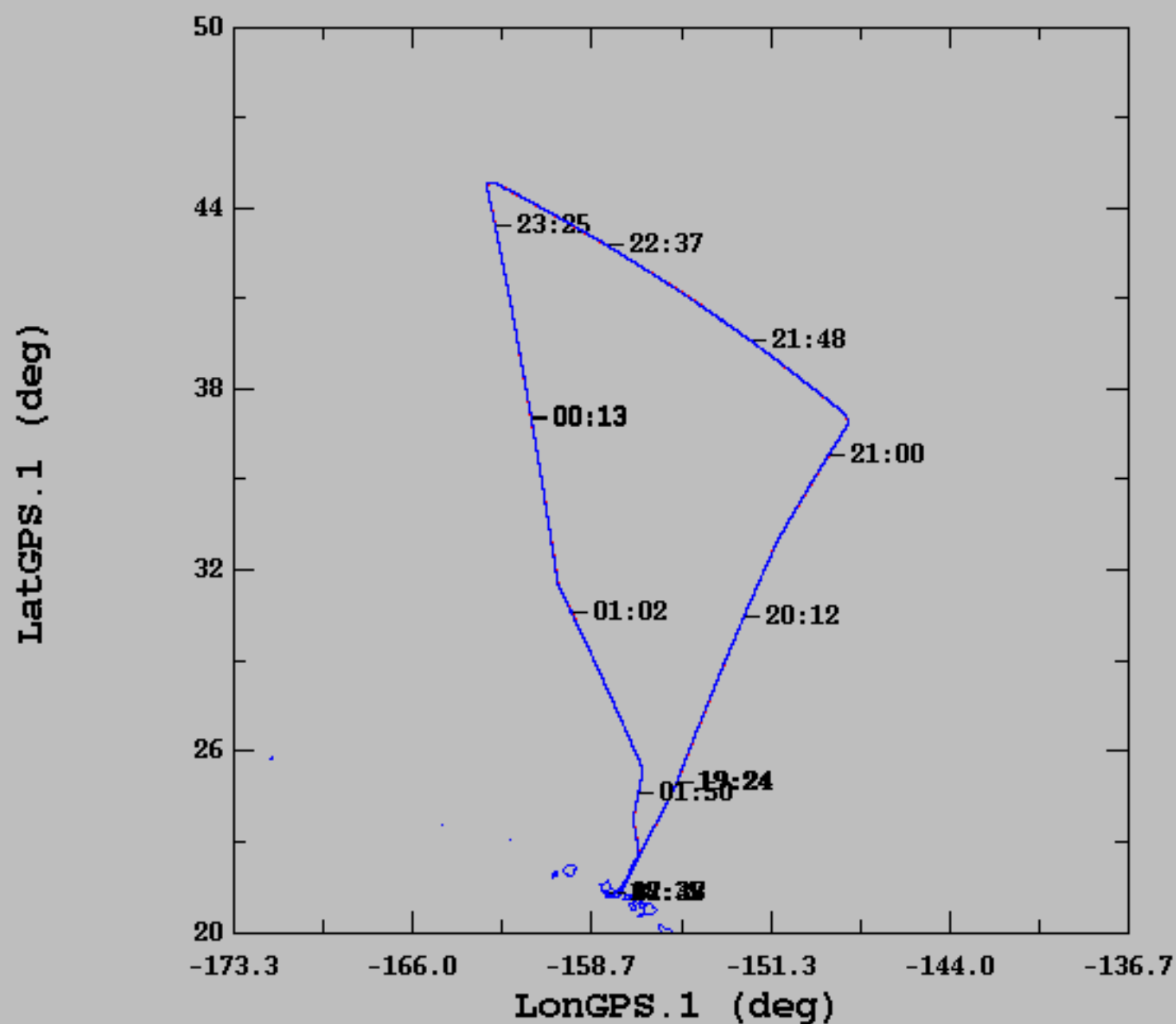
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	203451	20547	1	33.00	-151.00	fcw	1028.6	14011	112101	N
2	2	204402	40388	2	34.02	-150.27	few	1029.4	10513	112123	N
3			51389	3					NLD		Y
4			51390	4					NO PTH		Y
5	3	205626	20303	5	35.36	-149.27	sc+	1029.2	18011 (floaty) transmitted late	112126	Y sent+
6	4	210404	51402	6	36.18	-148.65	sc+	1030.2	20015	112144	N
7			10310	7					NO PTH		Y
8	5	211143	50230	8	37.03	-148.17	sc+	1029.7	20015	112149	N
9	6	212031	51356	1	37.69	-149.04	OVC	1028.5	21514	112202	N
10	7	213020	20338	2	38.56	-150.10	OVC	1024.9	20522	112210	N
11	8	213958	30337	3	39.02	-151.16	OVC	1022.9	19024	112219	N
12			21803	4					NO PTH		Y
13	9	214953	20422	1	39.70	-152.30	OVC	1020.7	20521	112231	N
14	10	215832	10302	2	40.30	-153.34	OVC	1021.0	35014	112237	N
15	11	220158	20533	3	40.94	-154.48	BKN	1023.0	33015	112246	N
16	12	221733	51400	4	41.55	-155.62	BKN	1023.9	33019	112249	N
17	13	222721	30235	1	42.16	-156.82	BKN	1023.7	32521	112300	N
18	14	223702	30341	2	42.75	-157.99	SCT	1026.5	33018	112308	N
19	15	224656	10693	3	43.34	-159.22	SCT	1028.0	34030	112327	N
20	16	225626	20294	4	43.90	-160.46	SCT	1030.6	34029	112338	N
21	17	230511	10694	1	44.41	-161.60	few	1033.0	35025	112345	N
22				2					FF (levelled out < 20K)		
23				3					Ob missed		Y
24	18	232248	30326	3	43.74	-162.66	SCT	1034.1	35521 periodic satc drop outs (orig 19)	112353	Y sent
25			51401	5					LLD (usable for research)		Y
26	19	233039	20262	4	42.70	-162.40	SCT	1033.3	01032 (orig 20)	120002	N
27	20	233849	30667	6	41.63	-162.13	SCT	1032.3	00524 (orig 21)	120013	N
28	21	234727	20340	1	40.51	-161.86	SCT	1031.7	00523 (orig 22)	120022	N
29	22	235559	10577	2	39.37	-161.61	SCT	1031.7	35019 (orig 23)	120087	N
30	23	000425	40027	3	38.26	-161.36	few	1031.1	36025 (orig 24)	120056	N
31			51392	4			OVC		NO PTH		Y
32			30340	1			OVC		NLD		Y
33	24	001517	20526	5	36.80	-161.05	OVC	1029.7	00523 (orig 25)	120103	N
34	25	002144	20051	2	35.94	-160.87	OVC	1028.8	36026 (orig 26)	120111	N
35	26	002937	30334	6	34.88	-160.65	OVC	1025.4	04527 (orig 27)	120118	N
36	27	003801	20305	3	33.74	-160.43	OVC	1023.7	02024 (orig 28)	120126	N
37	28	004610	10689	4	32.63	-160.22	OVC	1021.9	02503 (orig 29)	120132	N
38	29	005432	50233	1	31.49	-159.99	OVC	1021.6	07005 last report (orig 30)	120136	N

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

2021-03-11, 17:47:32-26:38:37

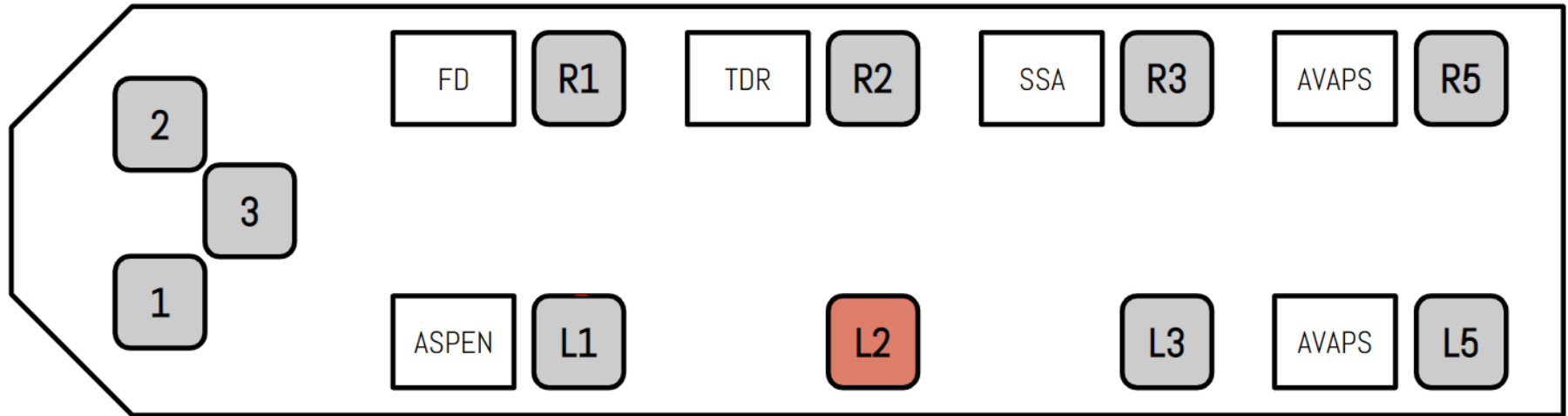


	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	32.08	7.88	21.13	44.85
LongGPS.1 (deg), 1 s/sec	-156.55	3.90	-162.92	-148.15
LatI.1 (deg), 1 s/sec	32.07	7.88	21.13	44.85
LonI.1 (deg), 1 s/sec	-156.55	3.90	-162.91	-148.15

U.S. Dept. of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Seating Chart

Flight ID: 20210311N1

Onboard: 6



1.	Rebecca Waddington PILOT	R1.	Nikki Hathaway FLIGHT DIRECTOR	R3.	Gabe Defeo SSA
2.	Lindsey Norman COPILOT	L2.	 OBSERVER	L5.	James Warnecke AVAPS
3.	 JUMPSEAT	R2.	 TDR	R5.	 AVAPS
L1.	Quinn Kalen ASPEN OPERATOR	L3.	 OBSERVER		