

N49RF ERROR SUMMARY
20210313N1

Flight ID: 20210313N1

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/20210313N1

Local Met Data	Takeoff PHNL (1930Z)	Landing PHNL (0331Z)
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 throughout
TDM.1 unrepresentative
Moisture quantities remain suspect at flight level

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	31	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: Hathaway / Kalen

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:	20210313N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes 30		
From:	PHNL	ETD:	1930z	CP(s):	Norman		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0330z								
Block Time		Flight Time		Nav(s):			ASOS Takeoff		BTs		
In:	0335z	Land:	0331z						Good	Bad	Sent
Out:	1918z	T/O:	1931z	FE(s)			A/C Land				
Total:	8.3z	Total:	8.0z	FD(s):	Hathaway Kalen	Visitors:	ASOS Land		0	0	0
Sponsoring Org:		EMC		SEB:			Storm Number ID:		NONE		
Program:		PAR					(ie: AL072012)				
Purpose:		AR2021 10P28		SSA:	DeFeo		TCPOD/WSPOD Mission		NOAA 18 WSC IDP28		
				AVAPS:	Warnecke		(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					✓						
SCIENCE MISSION WITHIN BDRY LAYER					✓						
LACK OF PRECIPITATION					✓						
RELATIVE HUMIDITY ≥ 80%					✓						
LARGE AIR-SEA TEMP GRADIENT					✓						
HIGH SURFACE WINDS					✓						
LONG FETCH / DURATION OF SFC WND					✓						
SEA SALT ACCRETION FORECAST					✓						
SEA SALT ACCRETION OBSERVED					✓						
Gmax:				Gmin:		*Highlighted items must be completed before departure.					
Remarks:				KLBB, KLAX, PHNL							

G-IV QC Checklist

Flight ID:	20210313N1
Flight Director(s)	Hathaway / Kalen
UWZ.d mean:	0.1

Pressure Comparison		
	T/O	Land
Aircraft	1016.8	1014.4
Tower	1016.1	1015.4

	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 throughout TDM.1 unrepresentative Moisture quantities remain suspect at flight level

30/31

Flight ID: 20210313N1

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

Mission ID: 18WSC 10P28

Storm Name/Track: AR2021

PG 1 of 1

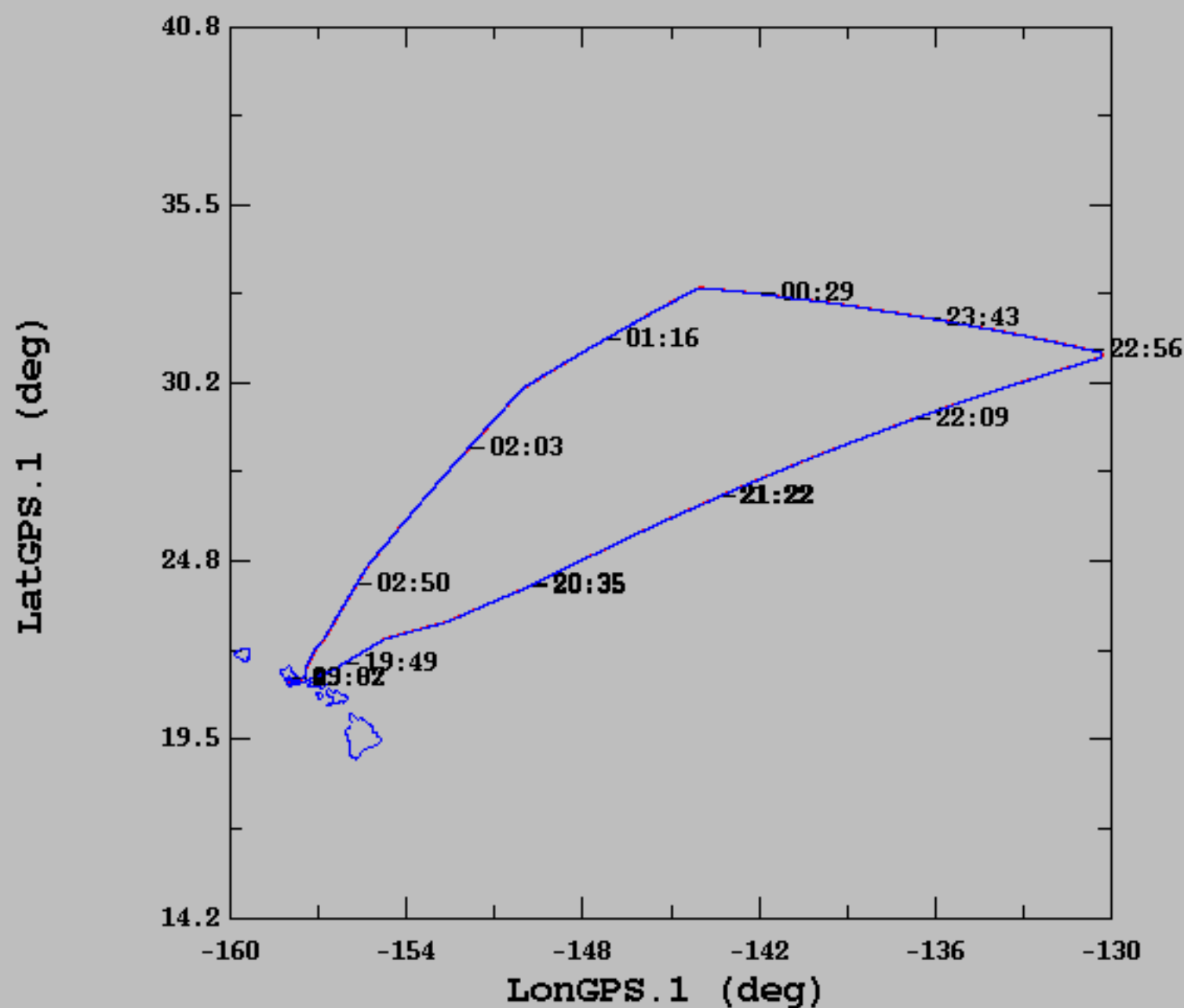
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1			30637	1					NLD → LLD (research)		Y
2	1	203416	10052	2	24.03	-149.93	OVC	1017.0	22521	132056	N
3	2	204229	40003	3	25.52	-148.81	OVC	1017.8	17019	132104	N
4	3	205112	40094	4	25.02	-147.63	OVC	1018.3	17013	132113	N
5	4	205948	50669	1	25.52	-146.44	OVC	1019.6	16000	132119	N
6	5	210847	20178	2	26.02	-145.23	OVC	1020.4	19509	132132	N
7	6	211730	50292	3	26.48	-144.03	OVC	1020.4	19016	132138	N
8	7	212634	50501	4	26.97	-142.79	OVC	1021.5	23010	132145	N
9	8	213528	31642	1	27.42	-141.56	OVC	1021.9	18518	132157	N
10	9	214417	20300	2	27.87	-140.31	BKN	1021.4	18016	132204	N
11	10	215300	20067	3	28.30	-139.06	SCT	1021.7	17517	132218	N
12	11	220139	10050	4	28.72	-137.79	SCT	1022.7	17521	132225	N
13	12	221014	50294	1	29.14	-136.53	SCT	1023.7	18519	132230	N
14	13	221857	10049	2	29.54	-135.23	SCT	1024.8	17514	132243	N
15	14	222725	31794	3	29.92	-133.94	BKN	1025.6	17521	132247	N
16	15	223613	31804	4	30.29	-132.63	OVC	1026.3	18016	132257	N
17	16	224339	40054	1	30.60	-131.50	OVC	1027.0	17020 Floater	132302	N
18	17	225216	10178	2	31.00	-130.29	OVC	1028.1	18016	132314	N
19	18	230246	10054	3	31.30	-131.52	OVC	1027.0	18018	132326	N
20	19	231554	31788	4	31.59	-133.07	OVC	1024.0	18521	132339	N
21	20	232842	31621	1	31.83	-134.60	BKN	1023.5	18526	132350	N
22	21	234143	31793	2	32.08	-136.16	OVC	1020.5	18523	140065	N
23	22	235439	20531	3	32.30	-137.70	OVC	1019.5	34027	140020	N
24	23	000755	31789	4	32.52	-139.27	OVC	1021.9	00518	140029	N
25	24	002051	10315	1	32.68	-140.84	BKN	1025.0	01031	140040	N
26	25	003400	50279	2	32.86	-142.42	BKN	1026.0	02531	140058	N
27	26	004715	50618	3	32.98	-144.01	BKN	1027.1	01633	140108	N
28	27	010109	10239	4	32.28	-145.54	SCT	1028.2	02525	140125	N
29	28	011506	50275	1	31.53	-147.05	BKN	1028.9	04527	140139	N
30	29	012850	50263	2	30.78	-148.54	BKN	1028.1	03532	140149	N
31	30	014224	20557	3	29.99	-150.00	OVC	1027.0	05529	140201	N
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

2021-03-13, 19:02:20-27:37:04

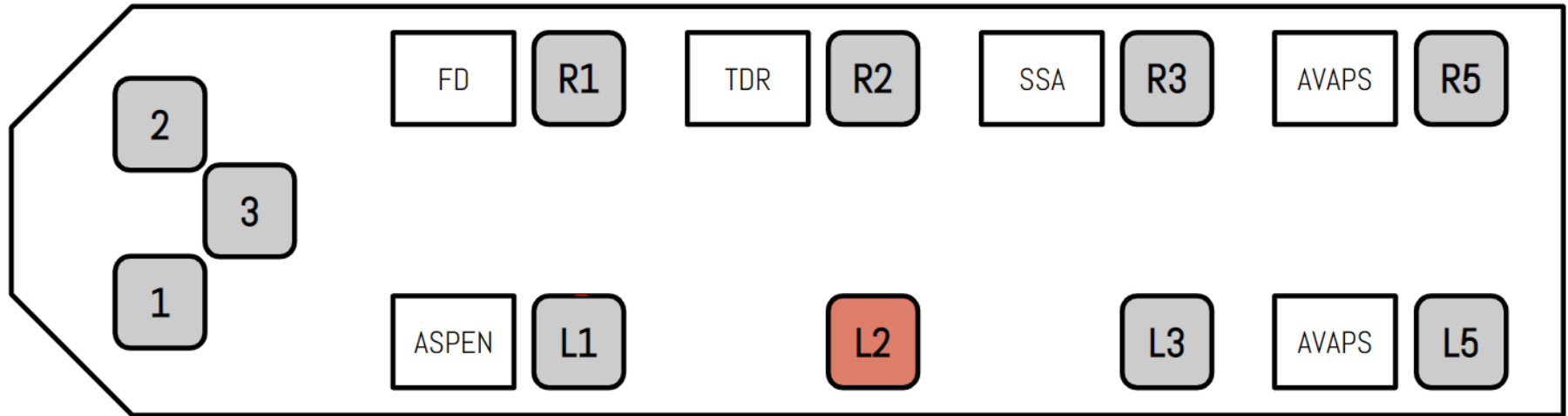


	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.56	4.01	21.12	32.99
LonGPS.1 (deg), 1 s/sec	-146.14	8.58	-158.05	-130.29
LatI.1 (deg), 1 s/sec	27.57	4.02	21.12	33.00
LonI.1 (deg), 1 s/sec	-146.13	8.57	-158.03	-130.28

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

Flight ID: 20210313N1

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		