

N49RF ERROR SUMMARY
20230114N1

Flight ID: 20230114N1

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/2023/MET/20230114N1

Local Met Data	Takeoff PHNL (1914Z)	Landing PHNL (0155Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		5.01255
AttackAngleSlope2		5.40932
SlipAngleIntercept2		0.72
SlipAngleSlope2		7.0494

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: Henning
Phone #: 8635003982

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230114N1	FLT #:		AC:	Nardi	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1915Z	CP(s):	de Triquet	Ralph (CW3E)	A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0200Z							30	4
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	2:00	Land:	1:56	FE(s):			A/C Land		Good	Bad	Sent
Out:	19:02	T/O:	19:15	FD(s):	Henning		ASOS Land		0	0	0
Total:	7.0	Total:	6.7	SSA:	Defeo	Visitors:					
				AVAPS:	Hartberger	James (LA Times)					
Sponsoring Org:	OAR			SEB:	Weinmann	Luna (LA Times)	Storm Number ID:		N/A		
Program:	PAR						(ie: AL072012)				
Purpose:	AR mission #3				MX:			TCPD/WSPD Mission		NOAA9 xxWSC IOP19	
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1				
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION				X			2				
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X		3				
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X		4				
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X		Pennies:	N/A			

*Highlighted items must be completed before departure.

Remarks:

G-IV QC Checklist

Flight ID:	20230114N1
Flight Director(s)	Henning
UWZ.d mean:	0.03

Pressure Comparison		
	T/O	Land
Aircraft	1019.9	1016.8
Tower	1020.2	1017.2

	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		✓ 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	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
						✓ 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:

TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20230114N1ASPEN Operator/Flight Director(s): Henning / de SoloMission ID: 13WSC IOP15Storm Name/Track: AR IOP15PG 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		2030		1					NO PTV		
2	1	203106	30823	2	28.6	-152.4	SCT	1021.5	220° @ 19 kts	2052	✓✓
3	2	203836	30801	3	29.3	-151.7	SCT	1021.0	225° @ 22 kts	2059	✓✓
4	3	204644	30059	4	30.2	-151.0	SCT	1019.6	230° @ 22 kts	2108	✓✓
5	4	205505	30777	1	31.0	-150.2	SCT	1019.5	235° @ 17 kts	2117	✓✓
6	5	210319	20010	2	31.8	-149.4	SCT	1018.7	235° @ 24 kts	2130	✓✓
7	6	211136	30758	3	32.6	-148.5	SCT	1017.1	225° @ 29 kts	2132	✓✓
8	7	211941	40092	4	33.4	-147.7	SCT	1015.2	230° @ 23 kts	2140	✓✓
9	8	212756	10155	1	34.2	-146.9	SCT	1014.0	225° @ 22 kts	2150	✓✓
10	9	213555	20788	2	35.0	-146.1	SCT	1012.6	185° @ 17 kts	2156	✓✓
11		2145		3					NO PTV		
12	10	214615	30802	4	36.0	-146.6	OVC	1010.9	170° @ 22 kts	2206	✓✓
13	11	215604	30768	1	36.8	-147.1	OVC	1007.8	145° @ 35 kts	2216	✓✓
14		2206		2					NO PTV		
15	12	220704	30045	3	37.8	-147.7	OVC	1006.3	130° @ 26 kts	2234	✓✓
16	13	221652	20007	4	38.7	-148.3	OVC	1004.8	140° @ 22 kts	2237	✓✓
17	14	222700	30761	1	40.0	-148.9	OVC	1002.9	140° @ 33 kts	2251	✓✓
18	15	223535	30776	2	40.3	-149.5	OVC	1001.7	165° @ 26 kts	2258	✓✓
19	16	224407	10511	3	39.6	-150.0	OVC	1003.7	NO SFC WINDS	2307	✓✓
20		2253		4					NO PTV		
21	17	225423	60192	1	38.7	-150.5	OVC	1000.3	155° @ 20 kts	2319	✓✓
22	18	230326	50042	2	37.9	-151.0	OVC	1001.5	215° @ 12 kts	2326	✓✓
23	19	231312	10405	3	37.1	-151.4	OVC	1003.7	265° @ 27 kts	2333	✓✓
24	20	232232	40091	4	36.2	-151.9	OVC	1006.0	275° @ 37 kts	2352	✓✓
25	21	233156	40151	1	35.3	-152.3	OVC	1008.5	275° @ 27 kts	2354	✓✓
26	22	234054	30747	2	34.5	-152.8	OVC	1011.3	290° @ 33 kts	0001	✓✓
27	23	234955	41139	3	33.6	-153.2	OVC	1013.0	290° @ 24 kts	0010	✓✓
28	24	235856	40810	4	32.7	-153.6	SCT	1013.9	325° @ 28 kts	0019	✓✓
29	25	000745	50654	1	31.9	-154.1	SCT	1013.3	220° @ 29 kts	0027	✓✓
30	26	001615	70200	2	31.0	-154.5	SCT	1015.4	225° @ 20 kts	0035	✓✓
31	27	002443	40808	3	30.1	-154.9	SCT	1016.2	215° @ 20 kts	0044	✓✓
32	28	003314	30773	4	29.2	-155.2	SCT	1016.3	235° @ 22 kts	0053	✓✓
33	29	004133	10152	1	28.4	-155.6	SCT	1017.6	250° @ 14 kts	0112	✓✓
34	30	005000	20991	2	27.5	-155.0	FEW	1017.4	225° @ 17 kts	0114	✓✓
35											
36											
37											
38											

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

COMMENTS:

Obs
Xmitted

30

Obs
Missed

0

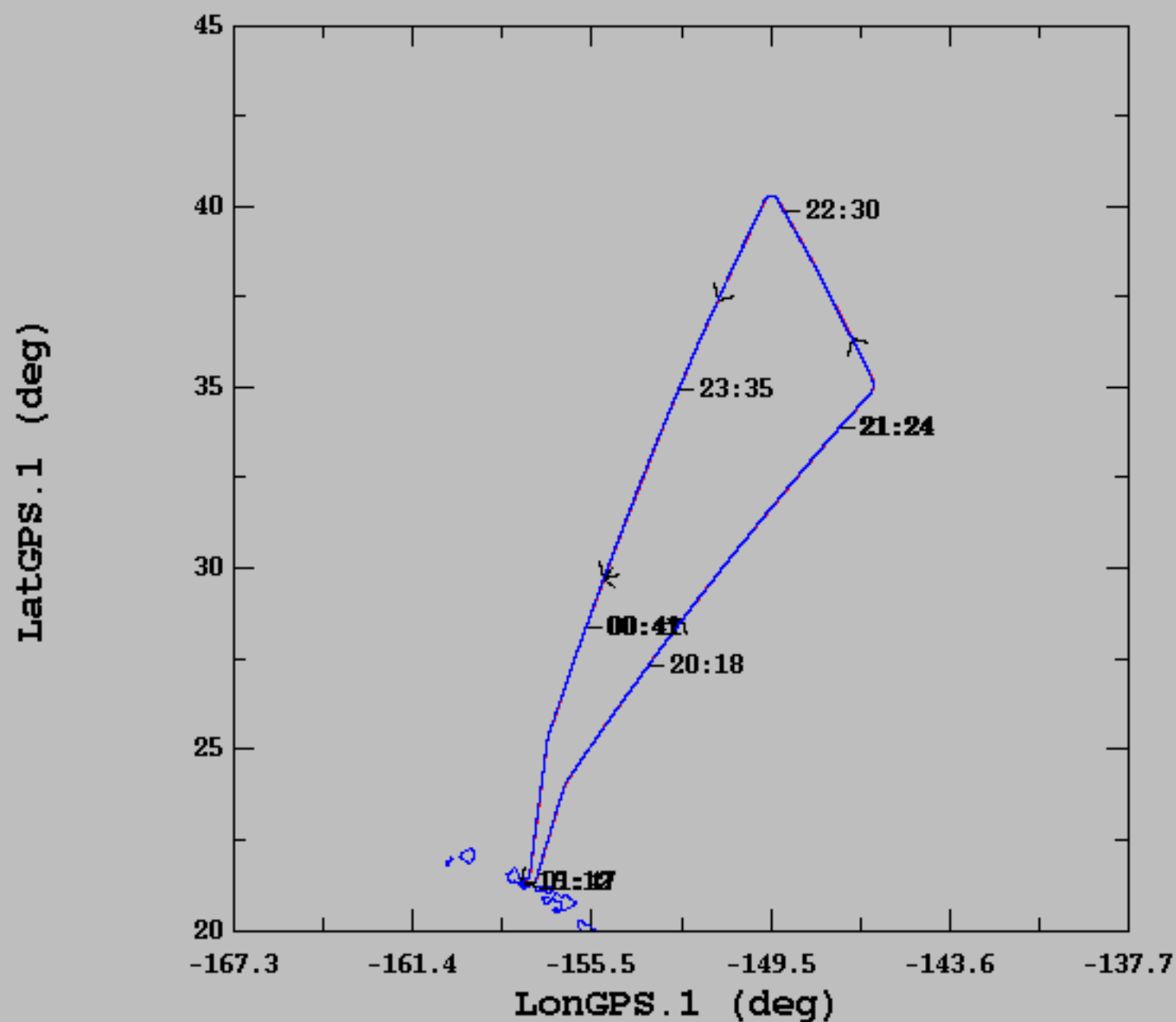
of sondes
launched

34

of bad
sondes

4

01/14/2023, 19:12:21-25:47:48



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	30.96	5.69	21.17	40.29
LonGPS.1 (deg), 1 s/sec	-152.63	3.53	-157.95	-146.11
LatI.1 (deg), 1 s/sec	30.96	5.69	21.17	40.30
LonI.1 (deg), 1 s/sec	-152.62	3.53	-157.94	-146.10