

N49RF ERROR SUMMARY
20230113N1

Flight ID: 20230113N1

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/20230113N1

Local Met Data	Takeoff PHNL (1929Z)	Landing PHNL (0301Z)
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	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: 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:	20230113N1	FLT #:		AC:	Nardi	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1930Z	CP(s):	de Triquet	Delle Monache (CW3E)	A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0300Z							30	1
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	3:06	Land:	3:03	FE(s):			A/C Land		Good	Bad	Sent
Out:	19:17	T/O:	19:29	FD(s):	Henning		ASOS Land		0	0	0
Total:	7.8	Total:	7.6	SSA:	Defeo	Visitors:					
				AVAPS:	Hartberger						
Sponsoring Org:	CW3E			SEB:	Santoni		Storm Number ID:		N/A		
Program:	PAR				Weinmann		(ie: AL072012)				
Purpose:	AR mission				MX:			TCPD/WSPD Mission		NOAA9 12WSC IOP14	
							(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:	20230113N1
Flight Director(s)	Henning
UWZ.d mean:	0.01

Pressure Comparison		
	T/O	Land
Aircraft	1019.0	1015.9
Tower	1018.5	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		✓ 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: 20230113M

ASPEN Operator/Flight Director(s): Henning / de Solo

Mission ID: 12WSC TOP14

Storm Name/Track: AR TOP14

PG ___ of ___

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	204957	20061	1	29.0	-153.0	SCT	1018.8	235° @ 20 kts	2109	✓✓
2	2	210016	40829	2	30.1	-153.3	SCT	1016.2	240° @ 21 kts	2125	✓✓
3	3	211104	20036	3	31.2	-153.7	OVC	1015.9	230° @ 12 kts	2134	✓✓
4	4	212117	40308	4	32.3	-154.0	OVC	1014.2	200° @ 06 kts	2147	✓✓
5	5	213156	40034	1	33.4	-154.3	OVC	1013.3	255° @ 04 kts	2153	✓✓
6	6	214238	40742	2	34.4	-154.7	OVC	1012.5	245° @ 16 kts	2217	✓✓
7	7	215330	40036	3	35.5	-155.1	OVC	1011.9	235° @ 37 kts	2223	✓✓
8	8	220429	20465	4	36.6	-155.4	OVC	1010.6	250° @ 21 kts	2226	✓✓
9	9	221525	40177	1	37.7	-155.8	OVC	1007.9	265° @ 26 kts	2242	✓✓
10	10	222643	11278	2	38.8	-156.2	OVC	1007.1	275° @ 25 kts	2251	✓✓
11	11	223756	40349	3	39.9	-156.6	OVC	1006.6	270° @ 23 kts	2259	✓✓
12	12	224840	20135	4	40.9	-157.1	OVC	1004.2	290° @ 28 kts	2308	✓✓
13	13	225806	30080	1	42.0	-157.3	OVC	1001.8	275° @ 25 kts	2321	✓✓
14	14	230510	30084	2	42.3	-156.0	OVC	1001.4	275° @ 30 kts	2337	✓✓
15	15	231242	20473	3	42.5	-154.5	OVC	999.3	255° @ 26 kts	0018	✓✓
16	16	232020	21083	4	42.8	-153.0	OVC	998.8	250° @ 17 kts	0021	✓✓
17	17	232742	10515	1	42.9	-151.6	OVC	998.6	275° @ 17 kts	0027	✓✓
18	18	233538	40787	2	41.9	-151.2	OVC	1001.1	255° @ 19 kts	0034	✓✓
19	19	234417	21085	3	40.8	-150.8	OVC	1003.3	275° @ 23 kts	0048	✓✓
20	20	235230	21084	4	39.7	-150.5	OVC	1004.3	265° @ 28 kts	0056	✓✓
21	21	000043	40827	1	38.7	-150.2	OVC	1006.7	280° @ 18 kts	0100	✓✓
22	22	000852	20466	2	37.6	-149.9	OVC	1008.3	260° @ 14 kts	0106	✓✓
23	23	001704	40834	3	36.5	-149.6	OVC	1008.9	255° @ 18 kts	0111	✓✓
24	24	002510	40032	4	35.4	-149.3	OVC	1011.2	265° @ 18 kts	0116	✓✓
25	25	003312	40792	1	34.3	-149.0	SCT	1013.1	265° @ 20 kts	0119	✓✓
26		0041		2					NO PTH		
27	26	004236	11213	3	33.1	-148.7	SCT	1013.1	265° @ 20 kts	0125	✓✓
28	27	004950	20490	4	32.1	-148.5	SCT	1014.4	280° @ 14 kts	0129	✓✓
29	28	005757	50547	1	31.1	-148.2	SCT	1015.3	260° @ 19 kts	0136	✓✓
30	29	010600	30082	2	30.0	-148.1	SCT	1016.2	255° @ 19 kts	0139	✓✓
31	30	012556	60179	3	28.5	-150.0	SCT	1018.3	270° @ 20 kts	0145	✓✓
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
Xmitted

30

Obs
Missed

0

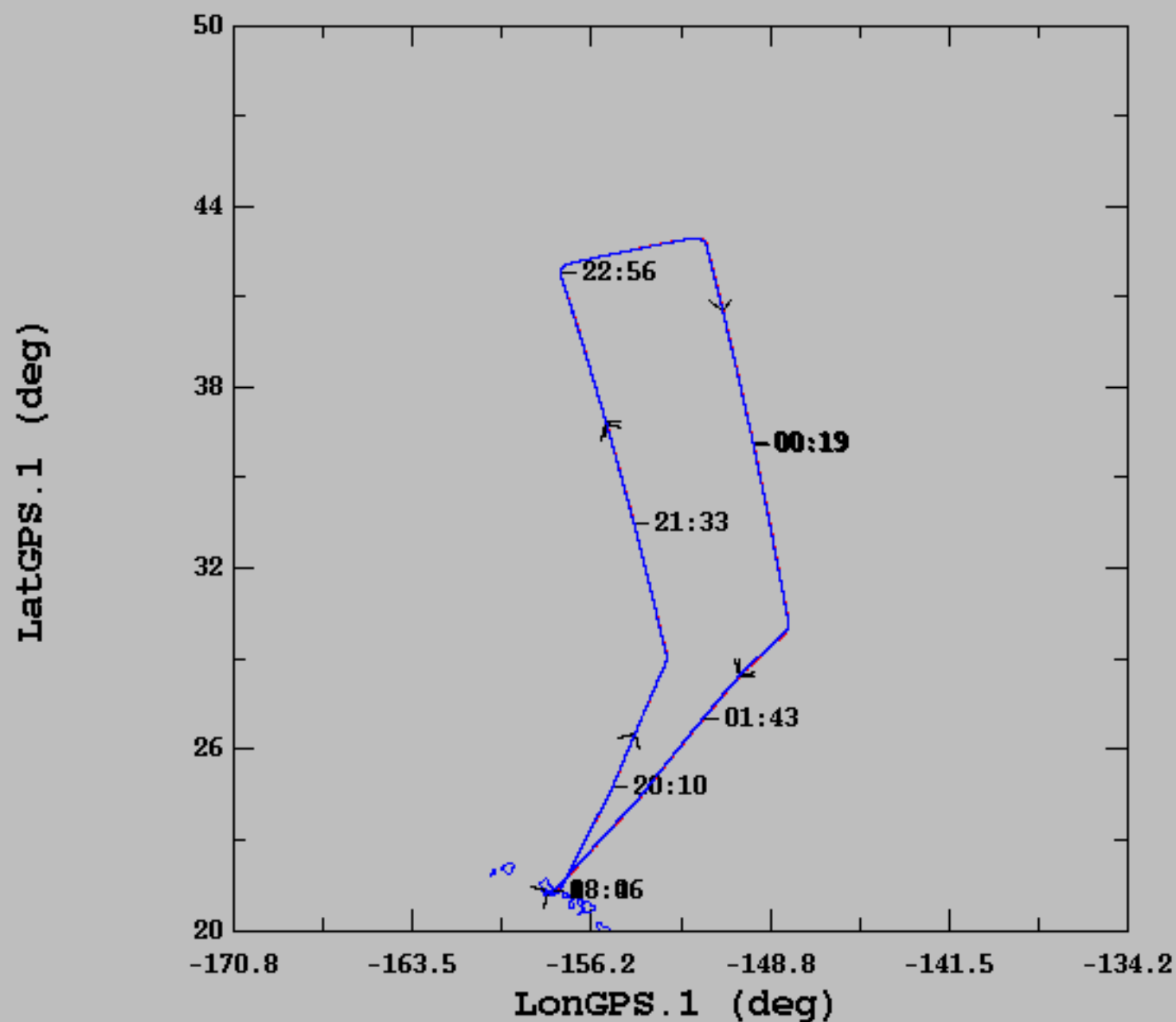
of sondes
launched

31

of bad
sondes

1

01/13/2023, 18:46:55-27:06:23



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	30.73	7.11	21.15	42.94
LonGPS.1 (deg), 1 s/sec	-153.89	3.01	-158.07	-148.05
LatI.1 (deg), 1 s/sec	30.73	7.11	21.14	42.95
LonI.1 (deg), 1 s/sec	-153.88	3.01	-158.06	-148.04