

N49RF ERROR SUMMARY
20230112N1

Flight ID: 20230112N1

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.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2023/MET/20230112N1

Local Met Data	Takeoff PHNL (1913Z)	Landing PHNL (0247Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept		1.06
SlipAngleSlope		6.97813
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.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	33	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:	20230112N1	FLT #:		AC:	Nardi	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1915Z	CP(s):	de Triquet	DELLE MOANACHE (CW3E)	A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0300Z		ABITBOL					30	3
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	2:57	Land:	2:47	FE(s):			A/C Land		Good	Bad	Sent
Out:	18:58	T/O:	19:14	FD(s):	Henning		ASOS Land		0	0	0
Total:	8.0	Total:	7.6	SSA:	Defeo	Visitors:	Storm Number ID:		N/A		
				AVAPS:	Hartberger	ZHONG (NYT)	(ie: AL072012)				
Sponsoring Org:	CW3E			SEB:		SCHAFF (NYT)	TCPD/WSPD Mission		11 WSC IOP 13		
Program:	PAR						(ie: NOAA2 2418A SANDY)				
Purpose:	AR			MX:			OBSERVATIONS				
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:	20230112N1
Flight Director(s)	HENNING
UWZ.d mean:	0.02

Pressure Comparison		
	T/O	Land
Aircraft	1017.9	1014.4
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: 20230112M

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

Mission ID: 11WSC IOPI3

Storm Name/Track: AR IOPI3

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 SURFACE WINDS	KWBC #	Sonde Issues?
1		2045		1					NO LAUNCH DETECT		
2	1	204630	40950	2	30.2	-155.5	SCT	1015.1	210° @ 16 kts	2108	✓✓
3	2	205609	30181	3	31.1	-155.7	SCT	1015.2	235° @ 20 kts	2119	✓✓
4	3	210725	30050	4	32.2	-155.8	SCT	1012.7	215° @ 21 kts	2127	✓✓
5	4	211844	10036	1	33.3	-156.0	OVC	1009.6	215° @ 21 kts	2137	✓✓
6	5	212952	50273	2	34.3	-156.0	OVC	1009.3	230° @ 21 kts	2150	✓✓
7	6	214045	50058	3	35.4	-156.4	OVC	1007.3	240° @ 23 kts	2200	✓✓
8	7	215230	30560	4	36.5	-156.5	OVC	1002.4	220° @ 29 kts	2211	✓✓
9	8	220358	30256	1	37.6	-156.7	OVC	999.5	220° @ 34 kts	2221	✓✓
10	9	221510	41132	2	38.6	-156.9	OVC	996.5	260° @ 24 kts	2240	✓✓
11	10	222605	41114	3	39.7	-157.1	OVC	995.3	260° @ 32 kts	2245	✓✓
12	11	223612	30711	4	40.8	-157.3	OVC	992.5	255° @ 25 kts	2309	✓✓
13	12	224558	30022	1	41.9	-157.6	OVC	999.5	255° @ 26 kts	2312	✓✓
14	13	225516	30161	2	42.9	-157.8	OVC	988.2	255° @ 30 kts	2316	✓✓
15		2303		3					NO PTH		
16	14	230452	41109	4	44.0	-158.3	OVC	985.9	225° @ 22 kts	2329	✓✓
17	15	232040	30746	1	43.8	-160.5	OVC	NO HEIGHTS	—	2347	✓✓
18	16	233743	30779	2	43.4	-162.8	OVC	990.5	NO SFC WIND	2357	✓✓
19	17	234602	50238	3	42.4	-162.7	SCT	990.9	315° @ 22 kts	0010	✓✓
20	18	235458	30828	4	41.3	-162.4	SCT	991.5	260° @ 17 kts	0017	✓✓
21	19	000339	30559	1	40.3	-162.1	OVC	993.1	235° @ 21 kts	0027	✓✓
22	20	001210	30750	2	39.2	-161.8	OVC	994.9	215° @ 12 kts	0038	✓✓
23	21	002046	30159	3	38.1	-161.6	OVC	996.7	250° @ 19 kts	0050	✓✓
24	22	002952	30774	4	37.1	-161.3	OVC	998.9	275° @ 17 kts	0055	✓✓
25	23	003840	31083	1	36.0	-161.1	OVC	999.6	260° @ 22 kts	0101	✓✓
26	24	004726	30827	2	34.9	-160.8	OVC	1003.4	295° @ 26 kts	0111	✓✓
27	25	005607	41105	3	33.8	-160.6	OVC	1003.8	305° @ 29 kts	0119	✓✓
28	26	010444	10096	4	32.8	-160.4	OVC	1005.4	285° @ 24 kts	0131	✓✓
29	27	011413	41133	1	31.6	-160.1	SCT	1006.8	215° @ 28 kts	0136	✓✓
30	28	012153	40953	2	30.6	-159.9	SCT	1008.9	250° @ 26 kts	0145	✓✓
31	29	013020	10063	3	29.5	-159.7	SCT	1011.3	220° @ 27 kts	0153	✓✓
32		0138		4					NO PTH		
33	30	013945	40757	1	28.3	-159.4	SCT	1012.8	240° @ 24 kts	0202	✓✓
34											
35											
36											
37											
38											

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

COMMENTS:

Obs
Xmitted

30/30

Obs
Missed

0

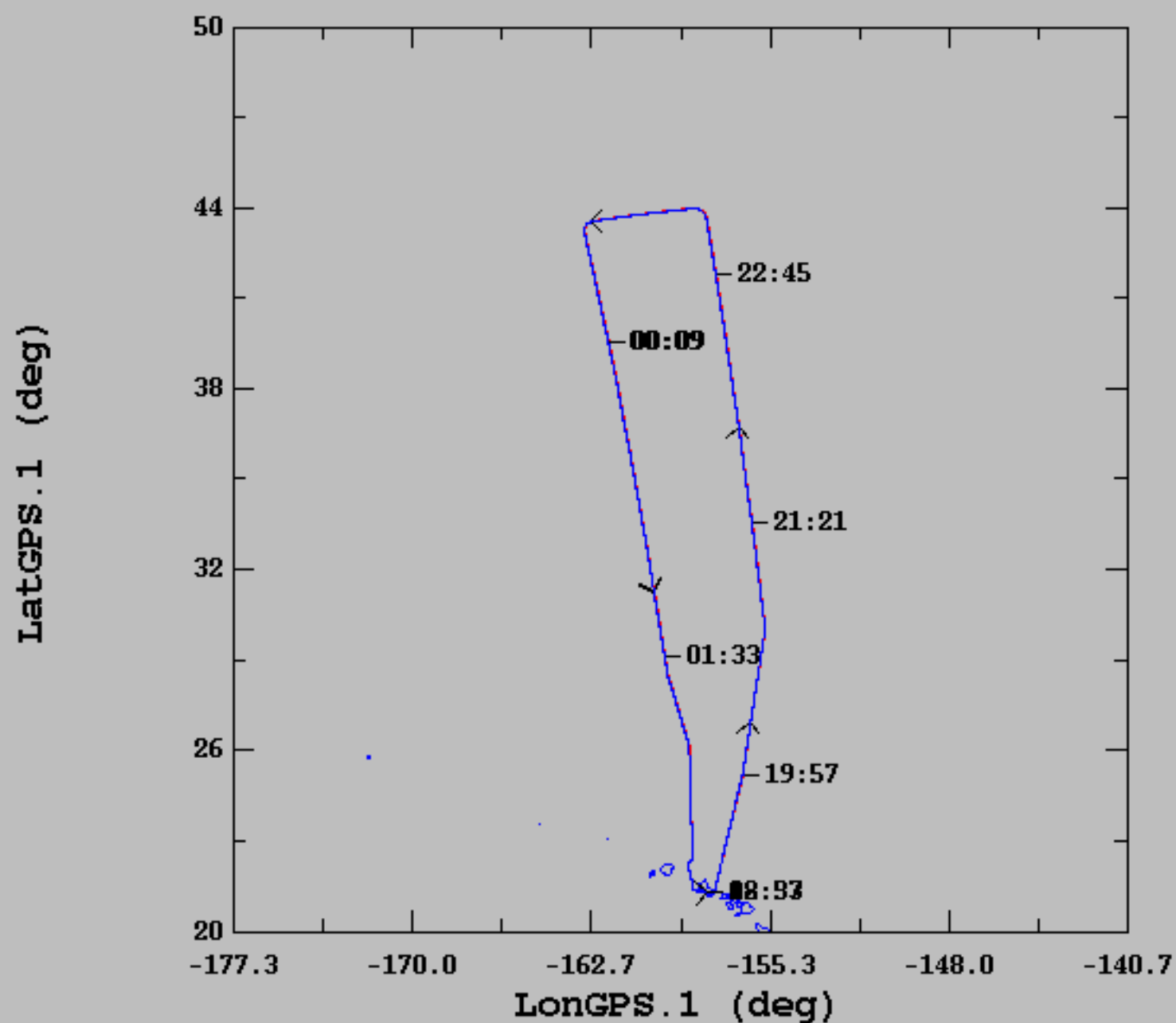
of sondes
launched

33

of bad
sondes

3

01/12/2023, 18:33:35-26:57:43



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	31.79	7.58	21.16	43.97
LonGPS.1 (deg), 1 s/sec	-158.36	2.06	-162.92	-155.50
LatI.1 (deg), 1 s/sec	31.80	7.58	21.16	43.98
LonI.1 (deg), 1 s/sec	-158.34	2.06	-162.90	-155.50