

N49RF ERROR SUMMARY
20230115N1

Flight ID: 20230115N1

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/20230115N1

Local Met Data	Takeoff PHNL (1911Z)	Landing PHNL (0300Z)
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	33	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: 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:	20230115N1	FLT #:		AC:	NARDI	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1915Z	CP(s):	DE TRIQUET		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0300Z						29	4	29
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	3:05	Land:	3:01	FE(s):							
Out:	18:59	T/O:	19:12	FD(s):	HENNING		A/C Land		Good	Bad	Sent
					DE SOLO						
Total:	8.1	Total:	7.8	SSA:	DEFEO	Visitors:	ASOS Land				
Sponsoring Org:		CW3E		AVAPS:	HARTBERGER		Storm Number ID:				
Program:		PAR			SANTONI		(ie: AL072012)				
Purpose:		ATMOSPHERIC RIVERS		SEB:	WEINMANN		TCPOD/WSPOD Mission		14 WSC IOP16		
							(ie: NOAA2 2418A SANDY)				
				MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N			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:		Missed observation #23.									

G-IV QC Checklist

Flight ID:	20230115N1
Flight Director(s)	Henning
UWZ.d mean:	-0.01

Pressure Comparison		
	T/O	Land
Aircraft	1019.6	N/A
Tower	1019.9	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: 20230115N1

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

Mission ID: 14WSC IOP16

Storm Name/Track: AR IOP16

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	203525	30787	1	29.5	-161.5	OVC	1021.4	040° @ 24 kts	2055	✓✓
2	2	204623	30756	2	30.7	-162.0	OVC	1023.6	040° @ 29 kts	2106	✓✓
3	3	205745	30784	3	31.9	-162.6	OVC	1026.3	105° @ 11 kts	2117	✓✓
4		2108		4					NO PTU		
5	4	210938	21217	1	33.2	-163.0	OVC	1026.1	215° @ 01 kts	2132	✓✓
6	5	211944	50284	2	34.3	-163.7	OVC	1025.9	260° @ 07 kts	2139	✓✓
7	6	213036	40152	3	35.5	-164.3	OVC	1024.8	275° @ 05 kts	2149	✓✓
8		2141		4					NO PTU		
9	7	214210	30020	1	36.7	-164.9	SCT	1023.1	245° @ 16 kts	2201	✓✓
10	8	215248	50286	2	37.8	-165.5	FEW	1022.2	235° @ 18 kts	2212	✓✓
11		2204		3					NO PTU		
12	9	220544	50125	4	39.2	-166.2	FEW	1018.4	225° @ 25 kts	2227	✓✓
13	10	221509	30118	1	40.2	-166.8	FEW	1015.2	225° @ 26 kts	2239	✓✓
14	11	222648	50288	2	41.4	-167.5	OVC	1009.4	215° @ 33 kts	2248	✓✓
15	12	223818	30786	3	42.5	-168.2	OVC	1004.4	225° @ 30 kts	2256	✓✓
16	13	224919	50287	4	43.7	-168.9	OVC	999.8	220° @ 30 kts	2307	✓✓
17	14	230016	30046	1	44.9	-169.7	OVC	995.6	240° @ 16 kts	2325	✓✓
18	15	231106	50279	2	46.0	-170.5	OVC	991.6	230° @ 21 kts	2334	✓✓
19	16	231926	30025	3	45.4	-170.1	OVC	994.4	230° @ 29 kts	2340	✓✓
20	17	232931	60183	4	44.3	-169.3	OVC	996.3	250° @ 29 kts	2350	✓✓
21	18	233928	30115	1	43.1	-168.6	OVC	1002.2	235° @ 33 kts	0000	✓✓
22	19	234914	40830	2	41.9	-167.8	OVC	1007.1	235° @ 33 kts	0008	✓✓
23	20	235900	20063	3	40.8	-167.1	OVC	1011.9	225° @ 34 kts	0017	✓✓
24	21	000838	10033	4	39.6	-166.5	SCT	1013.9	230° @ 26 kts	0029	✓✓
25	22	001839	40831	1	38.4	-165.8	SCT	1018.0	240° @ 23 kts	0109	✓✓
26		0028		2					NO TEMP & DP		
27	23	003915	21082	3	36.1	-164.6	OVC	1021.7	250° @ 19 kts	0120	✓✓
28	24	004945	30199	4	34.9	-164.0	OVC	1023.1	240° @ 10 kts	0128	✓✓
29	25	010016	30993	1	33.7	-163.4	OVC	1022.6	195° @ 07 kts	0133	✓✓
30	26	011108	30073	2	32.5	-162.8	OVC	1023.3	060° @ 09 kts	0137	✓✓
31	27	012145	40766	3	31.3	-162.3	OVC	1021.5	060° @ 19 kts	0145	✓✓
32	28	013239	21206	4	30.1	-161.8	OVC	1019.0	065° @ 29 kts	0153	✓✓
33	29	014307	10066	1	28.9	-161.2	OVC	1016.6	075° @ 07 kts	0206	✓✓
34											
35											
36											
37											
38											

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

Obs
XmittedObs
Missed# of sondes
launched# of bad
sondes

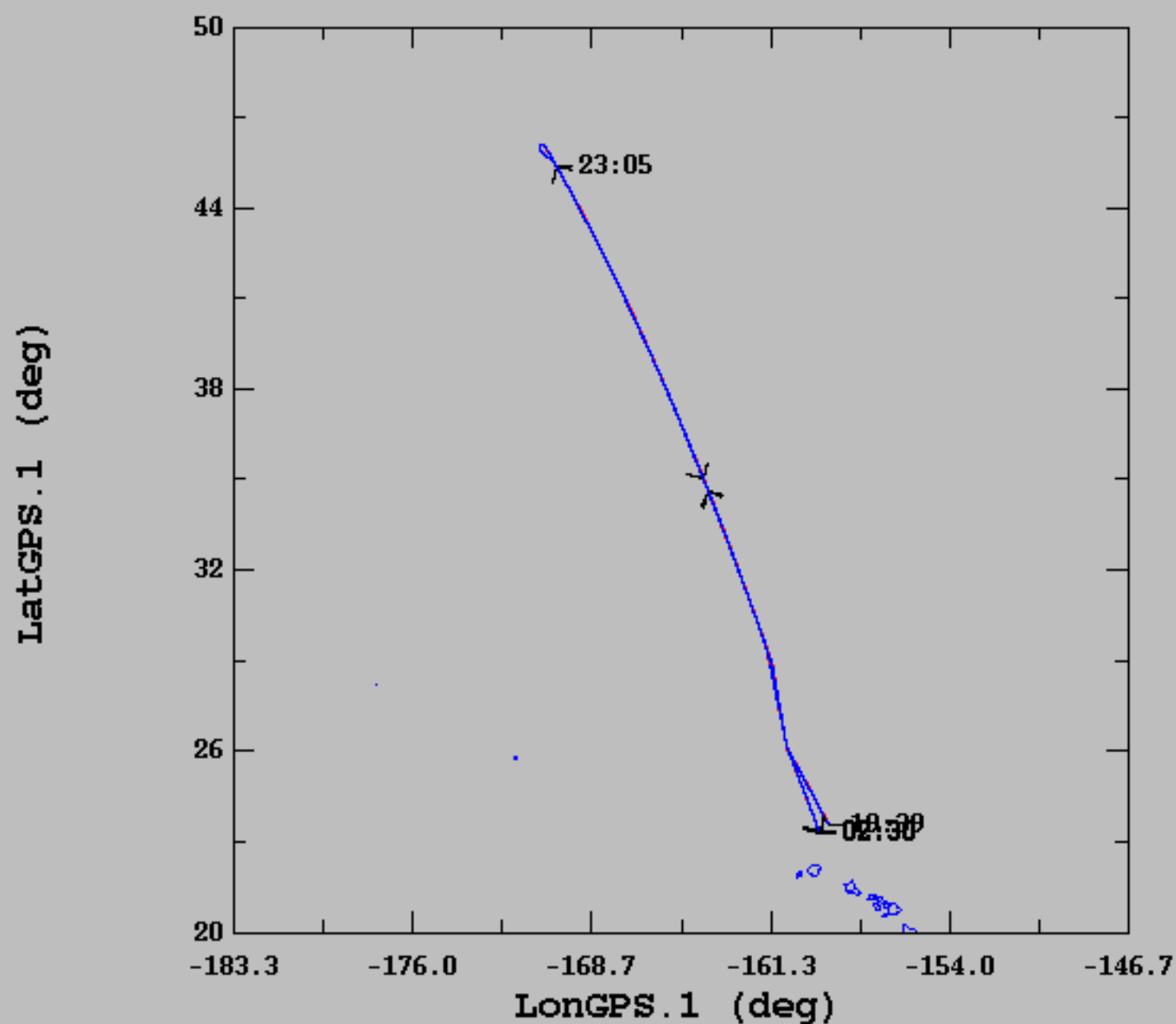
29

1

33

4

01/15/2023, 19:39:35-26:30:59



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	34.81	6.58	23.31	46.09
LonGPS.1 (deg), 1 s/sec	-164.31	3.23	-170.78	-158.93
LatI.1 (deg), 1 s/sec	34.81	6.59	23.29	46.09
LonI.1 (deg), 1 s/sec	-164.30	3.23	-170.78	-158.92