

N49RF ERROR SUMMARY
20231215N1

Flight ID: 20231215N1

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/20231215N1

Local Met Data	Takeoff PHNL (1938Z)	Landing PHNL (0248Z)
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.

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file.

All dew point and humidities suspect

Altra.1 inop

AltGPS.1 and .2 stair step

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	30	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: KALEN / DE SOLO
Phone #: 863-500-3962

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:	20231215N1	FLT #:		AC:	WADDINGTON	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1930Z	CP(s):	PAWLENKO		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0330Z						30	0	30
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	2:54	Land:	2:49	FE(s):			A/C Land		Good	Bad	Sent
Out:	19:23	T/O:	19:39	FD(s):	KALEN				-	-	-
					DE SOLO		ASOS Land				
Total:	7.5	Total:	7.2	SSA:	DEFEO / DYKEMAN	Visitors:	Storm Number ID:		N/A		
				AVAPS:	KELLER		(ie: AL072012)				
Sponsoring Org:				SEB:			TCPD/WSPOD Mission		NOAA9 10WSC IOP10		
Program:							(ie: NOAA2 2418A SANDY)				
Purpose:											
				MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				x			1				
SCIENCE MISSION WITHIN BDY 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:				
*Highlighted items must be completed before departure.											
Remarks:											

G-IV QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20231215N1	Pressure Comparison		
Flight Director(s):	KALEN / DE SOLO		T/O	Land
Mission:	Tasked/Operational	Aircraft	1019.3	-
UWZ.d mean:	0.1	Tower	1019.5	-

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZI.1		✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ AccZI.2			
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3	✓ AccZI.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			✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2				
✓ Lat / Lon	✓ LatGPS.1	✓ LatI.1	✓ LonGPS.1	✓ LonI.1		✓ LATref	
	✓ LatGPS.2	✓ LatI.2	✓ LonGPS.2	✓ LonI.2		✓ LONref	
	✓ LatGPS.3	✓ LatI.3	✓ LonGPS.3	✓ LonI.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	✓ PitchRatel.1	✓ RollI.1	✓ RollRatel.1		✓ PITCHref	
	✓ PitchI.2	✓ PitchRatel.2	✓ RollI.2	✓ RollRatel.2		✓ ROLLref	
	✓ PitchI.3	✓ PitchRatel.3	✓ RollI.3	✓ RollRatel.3			
✓ Temp / Dewpt	✓ TTM.1	✓ TTM.4	✓ TDM.1			✓ TD.c	✓ TTMref
	x 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	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file.</p> <p>All dew point and humidities suspect</p> <p>AltRA.1 inop</p> <p>AltGPS.1 and .2 stair step</p>

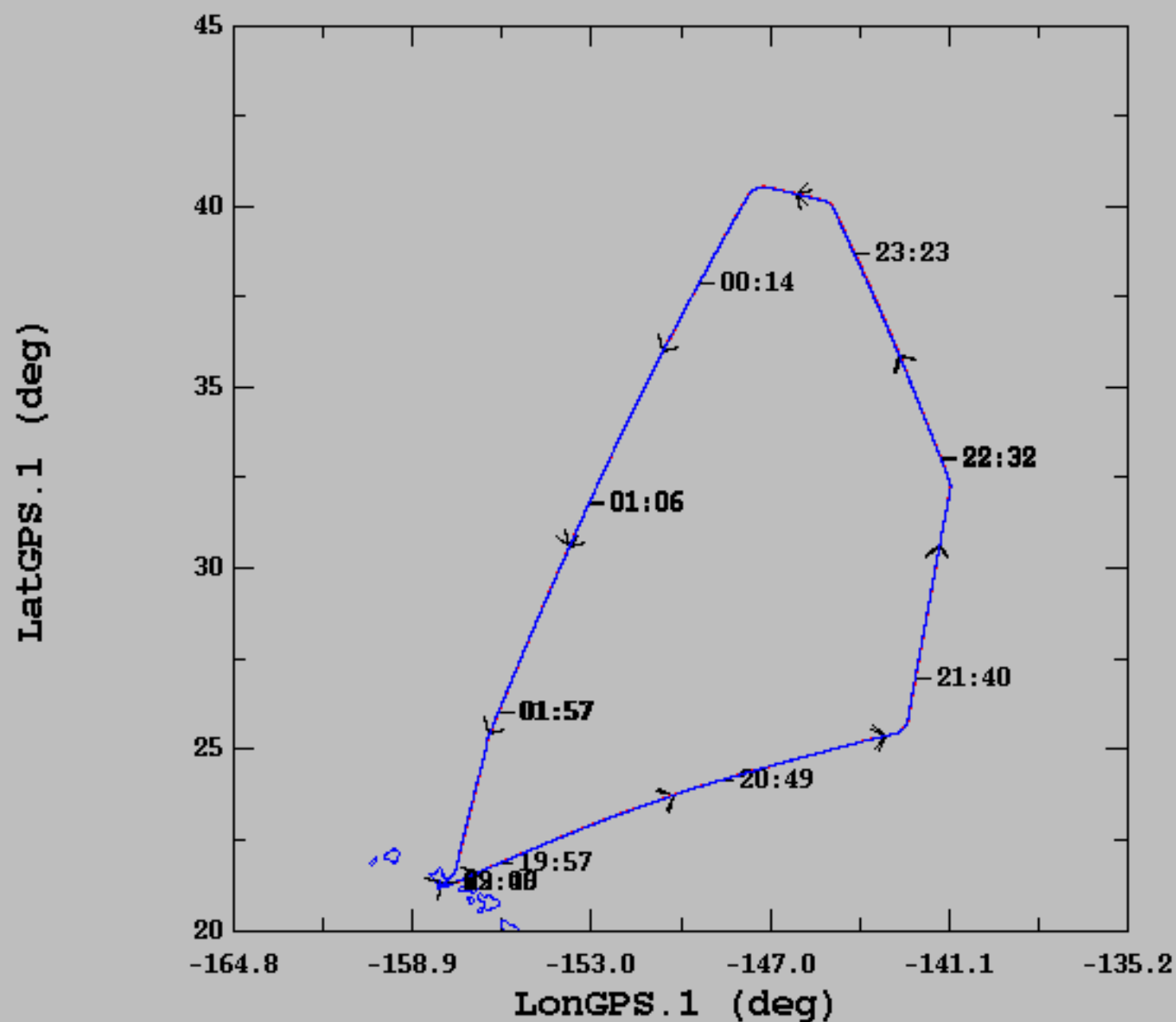
AOC GPS Dropwindsonde Log (updated June 2023D)

Flight ID: _____ ASPEN Operator/Flight Director(s): _____

Mission ID: _____ Storm Name/Track: _____ PG ____ of ____

Sonde #	Ob #	Šæ } &@Time PPT T ÜÜÄZ)	Sonde ID (l ð Aspen of D	ChÄ -•^äÄ	Lat (°N)	Lon (°W)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
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12/15/2023, 19:06:11-26:49:22



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	29.10	6.26	21.16	40.53
LongGPS.1 (deg), 1 s/sec	-149.86	5.88	-158.04	-141.02
LatI.1 (deg), 1 s/sec	29.11	6.26	21.17	40.54
LonI.1 (deg), 1 s/sec	-149.86	5.88	-158.04	-141.02