

N49RF ERROR SUMMARY
202312316N1

Flight ID: 20231216N1

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/20231216N1

Local Met Data	Takeoff PHNL (1953Z)	Landing PHNL (0334Z)
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	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: 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:	20231216N1	FLT #:		AC:	NARDI	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1945Z	CP(s):	COZART		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0345Z					30	1	30	
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	3:38	Land:	3:35	FE(s):			A/C Land		Good	Bad	Sent
Out:	19:42	T/O:	19:54	FD(s):	KALEN		ASOS Land		-	-	-
					DE SOLO						
Total:	7.9	Total:	7.7	SSA:	DEFEO / DYKEMAN	Visitors:					
				AVAPS:	KELLER		Storm Number ID:		N/A		
Sponsoring Org:							(ie: AL072012)				
Program:	PAR			SEB:			TCPD/WSPD Mission		NOAA9 11WSC IOP11		
Purpose:	ATMOSPHERIC RIVERS						(ie: NOAA2 2418A SANDY)				
				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:				

*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:	20231216N1	Pressure Comparison		
Flight Director(s):	KALEN / DE SOLO			
Mission:	Tasked/Operational			
UWZ.d mean:	0.06			
			T/O	Land
		Aircraft	1019.3	-
		Tower	1017.5	-

	Raw 1Hz Mean File Parameters					C File Parameters	
<div>✓</div> Accelerometer	<div>✓</div> AccAXI.1	<div>✓</div> AccAYI.1	<div>✓</div> AccAZI.1	<div>✓</div> AccZI.1	<div>✓</div> AccZref		
	<div>✓</div> AccAXI.2	<div>✓</div> AccAYI.2	<div>✓</div> AccAZI.2	<div>✓</div> AccZI.2			
	<div>✓</div> AccAXI.3	<div>✓</div> AccAYI.3	<div>✓</div> AccAZI.3	<div>✓</div> AccZI.3			
<div>✓</div> Altitude	<div>✓</div> AltGPS.1	<div>✓</div> AltI.1	<div>✓</div> AltPaADDU.1	<div>✓</div> AltBCADDU.1	<div>✓</div> ALTref <div>✓</div> ALTPA.d <div>✓</div> ALTGA.d		
	<div>✓</div> AltGPS.2	<div>✓</div> AltI.2	<div>✓</div> AltPaADDU.2	<div>✓</div> AltBCADDU.2			
	<div>✓</div> AltGPS.3	<div>✓</div> AltI.3	<div>✗</div> AltRA.1				
<div>✓</div> Ground Speed	<div>✓</div> GsXI.1	<div>✓</div> GsYI.1	<div>✓</div> GsZI.1	<div>✓</div> GsGPS.1	<div>✓</div> GSXref <div>✓</div> GSYref <div>✓</div> GSZref		
	<div>✓</div> GsXI.2	<div>✓</div> GsYI.2	<div>✓</div> GsZI.2	<div>✓</div> GsGPS.2			
	<div>✓</div> GsXI.3	<div>✓</div> GsYI.3	<div>✓</div> GsZI.3				
	<div>✓</div> GsXGPS.1	<div>✓</div> GsYGPS.1	<div>✓</div> GsZGPS.1				
	<div>✓</div> GsXGPS.2	<div>✓</div> GsYGPS.2	<div>✓</div> GsZGPS.2				
<div>✓</div> Lat / Lon	<div>✓</div> LatGPS.1	<div>✓</div> LatI.1	<div>✓</div> LonGPS.1	<div>✓</div> LonI.1	<div>✓</div> LATref <div>✓</div> LONref		
	<div>✓</div> LatGPS.2	<div>✓</div> LatI.2	<div>✓</div> LonGPS.2	<div>✓</div> LonI.2			
	<div>✓</div> LatGPS.3	<div>✓</div> LatI.3	<div>✓</div> LonGPS.3	<div>✓</div> LonI.3			
<div>✓</div> Pressure	<div>✓</div> PDALPHA.1	<div>✓</div> PQALPHA.1	<div>✓</div> PQM.1	<div>✓</div> PSM.1	<div>✓</div> PDLAPHAref	<div>✓</div> PQMref	
	<div>✓</div> PDALPHA.2	<div>✓</div> PQALPHA.2	<div>✓</div> PQM.2	<div>✓</div> PSM.2	<div>✓</div> PDBETAref	<div>✓</div> PQ.c	
	<div>✓</div> PDBETA.1	<div>✓</div> PQBETA.1			<div>✓</div> PQALPHAref	<div>✓</div> PSMref	
	<div>✓</div> PDBETA.2	<div>✓</div> PQBETA.2			<div>✓</div> PQBETAref	<div>✓</div> PS.c	
<div>✓</div> Air Speed	<div>✓</div> CasADDU.1	<div>✓</div> TasADDU.1			<div>✓</div> IAS.d	<div>✓</div> TAS.d	
<div>✓</div> Pitch / Roll	<div>✓</div> PitchI.1	<div>✓</div> PitchRatel.1	<div>✓</div> RollI.1	<div>✓</div> RollRatel.1	<div>✓</div> PITCHref <div>✓</div> ROLLref		
	<div>✓</div> PitchI.2	<div>✓</div> PitchRatel.2	<div>✓</div> RollI.2	<div>✓</div> RollRatel.2			
	<div>✓</div> PitchI.3	<div>✓</div> PitchRatel.3	<div>✓</div> RollI.3	<div>✓</div> RollRatel.3			
<div>✓</div> Temp / Dewpt	<div>✓</div> TTM.1	<div>✓</div> TTM.4	<div>✓</div> TDM.1		<div>✓</div> TD.c	<div>✓</div> TTMref	
	<div>✗</div> TTM.2		<div>✓</div> TDM.2		<div>✓</div> TDMref	<div>✓</div> TA.d	
	<div>✓</div> TTM.3						
<div>✓</div> Misc. (Must check)					<div>✓</div> UWZ.d <div>✓</div> DPJ_WSZ <div>✓</div> HUM	<div>✓</div> WS.d <div>✓</div> WD.d	

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)	

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>

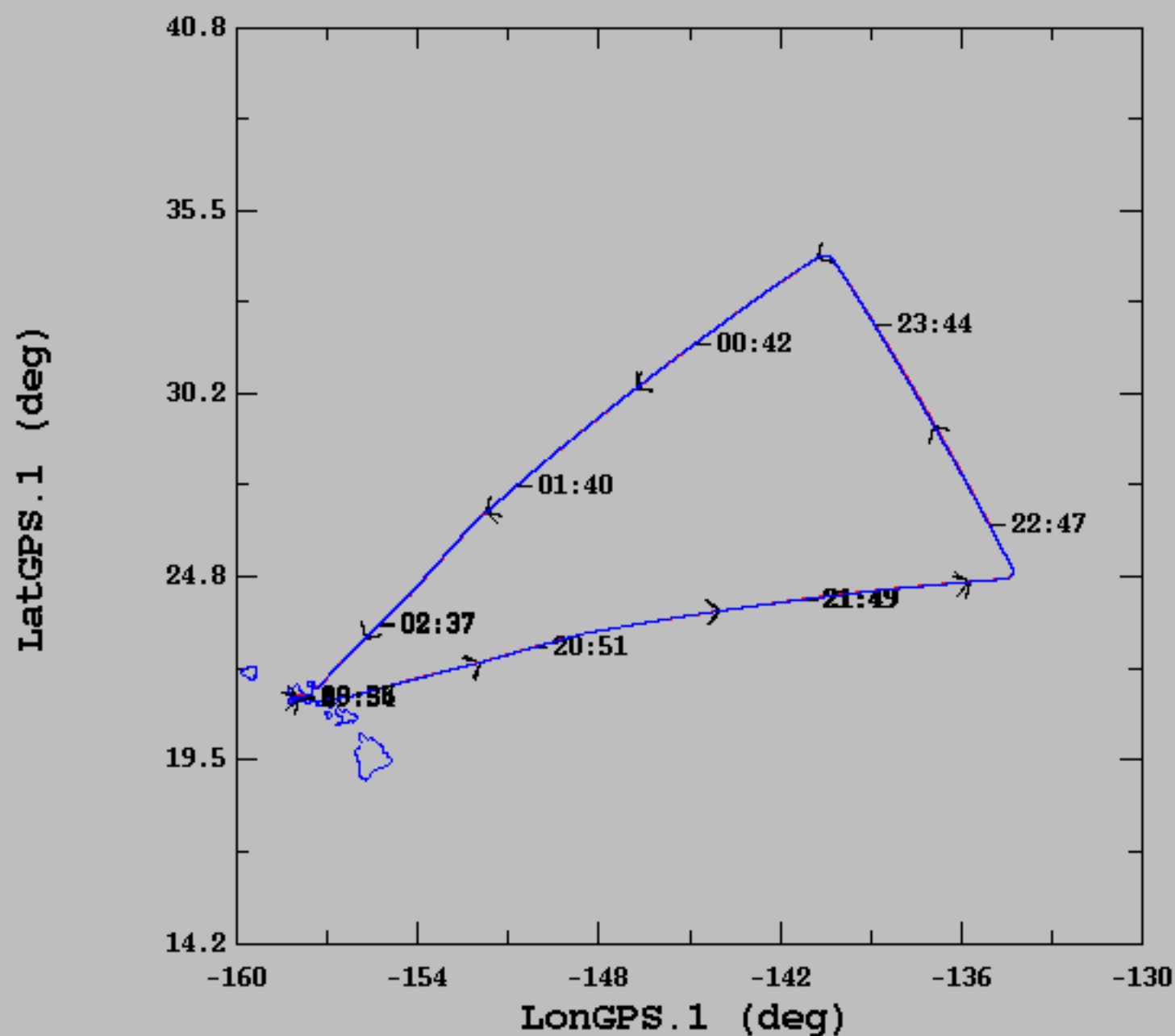
AOC GPS Dropwindsonde Log (updated June 2023D)

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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12/16/2023, 18:56:32-27:35:21



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	25.64	3.97	21.17	34.17
LonGPS.1 (deg), 1 s/sec	-147.92	7.92	-158.23	-134.25
LatI.1 (deg), 1 s/sec	25.65	3.97	21.18	34.17
LonI.1 (deg), 1 s/sec	-147.90	7.92	-158.21	-134.24