

N49RF ERROR SUMMARY
20230131N1

Flight ID: 20230131N1

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/20230131N1

Local Met Data	Takeoff PHNL (2155Z)	Landing KONT (2250Z)
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	3	3	3
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 #: 8635003962

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:	20230131N1	FLT #:		AC:	Nardi	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1800Z	CP(s):	de Triquet		A/C Takeoff		Good	Bad	Sent
To:	KONT	ETA:	2300Z		Bhatnagar				3	0	3
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	22:55	Land:	22:50	FE(s):			A/C Land		Good	Bad	Sent
Out:	17:44	T/O:	17:55	FD(s):	Kalen		ASOS Land		0	0	0
Total:	5.2	Total:	4.9	SSA:	Defeo	Visitors:	Storm Number ID:		NOAA9 20WSC IOP23		
				AVAPS:	Hartberger		(ie: AL072012)				
Sponsoring Org:	CW3E			SEB:	Weinmann		TCPOD/WSPOD Mission				
Program:	PAR				Crane		(ie: NOAA2 2418A SANDY)				
Purpose:	Atmospheric Rivers/Repo to KONT				MX:	Newnan		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:	20220131N1
Flight Director(s)	Kalen/de Solo
UWZ.d mean:	0.01

Pressure Comparison		
	T/O	Land
Aircraft	1013.3	982.1
Tower	1013.8	982.3

	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.
Data system restart, multiple data files.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20230131N1ASPEN Operator/Flight Director(s): de Solo/KalenMission ID: 20WSC IOP23Storm Name/Track: Atmos Rivers / Transit to Ontario, CAPG 1 of 1

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	190304	50444	1	25.7	-149.9	OVC	1020.4	12513		1926	N
2	2	192032	10311	2	26.9	-147.7	FEW	1021.1	13015		1941	N
3	3	193819	10106	3	28.0	-145.2	FEW	1022.5	12005 / Last OB		1955	N
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NOT

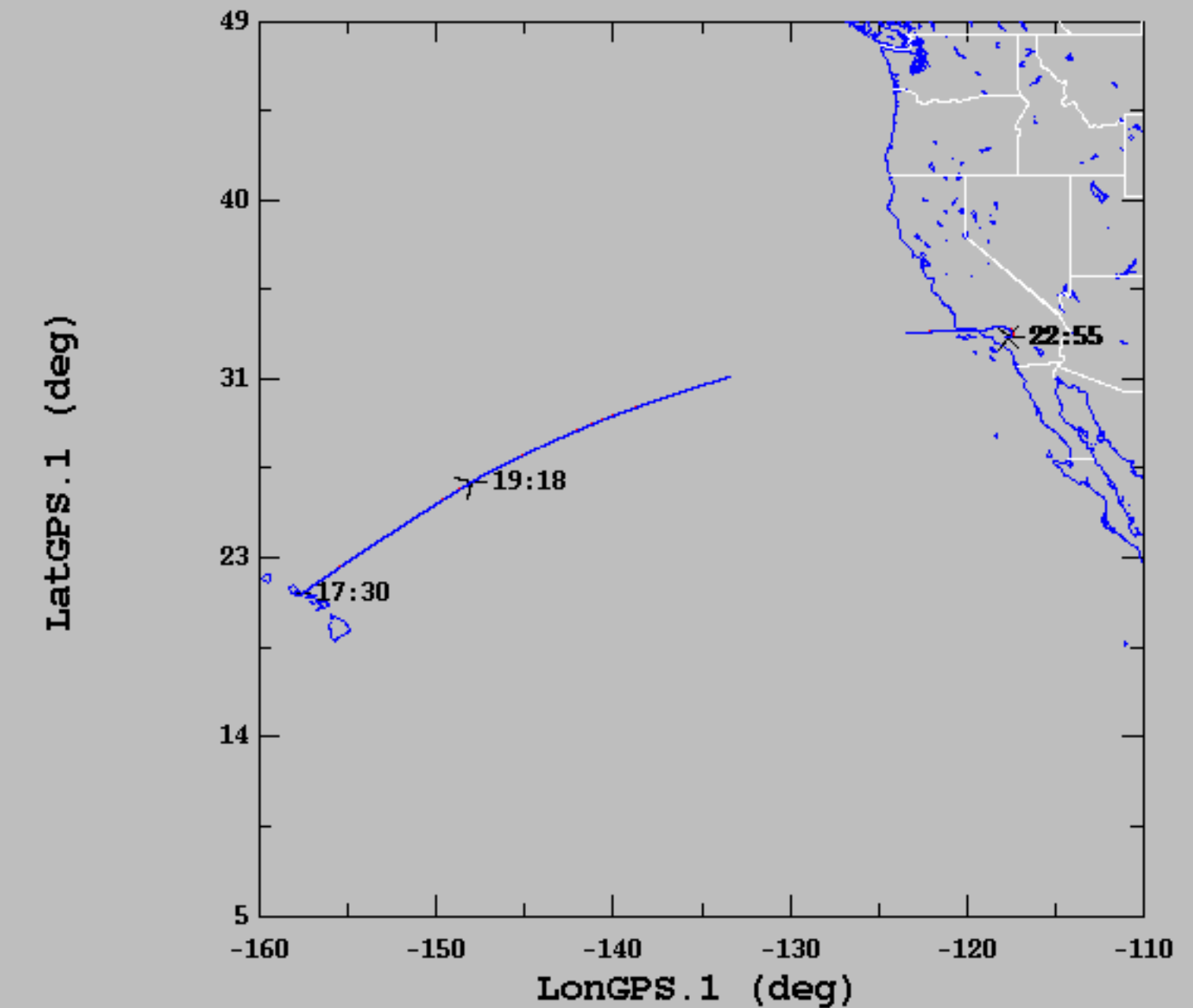
USED

COMMENTS:

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

Obs
Xmitted 3Obs
Missed 0# of sondes
launched 3# of bad
sondes 0

2023-01-31, 17:30:14-22:55:05



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	28.47	4.45	21.16	34.56
LonGPS.1 (deg), 1 s/sec	-140.48	13.60	-157.95	-117.38
LatI.1 (deg), 1 s/sec	28.48	4.45	21.16	34.56
LonI.1 (deg), 1 s/sec	-140.48	13.61	-157.94	-117.35