

N49RF ERROR SUMMARY
20221207N1

Flight ID: 20221207N1

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/2022/MET/20221207N1

Local Met Data	Takeoff KLAL (1900Z)	Landing PHNL (1739Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept		1.06667
SlipAngleSlope		6.97813
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.

Reposition flight to PHNL from KLAL via fuel stop in KLGB. Data system continued to operate while stationary on the ground at KLGB between 1740-1900Z. AltRa.1 inoperative. TTM.2 unavailable. TTM.4 appears affected by diabatic heating while on the ground at KLGB. Both TDM.1 and TDM.2 require calibration. All moisture quantities should be considered suspect.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	2	2	1
Test sondes	0	0	0
AXBTS	0	0	0

AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter
Phone #: 863-500-3901

ACAT-4 Version = 7.4

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FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20221207N1	FLT #:	23-	AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1300Z	CP(s):	de Triquet		A/C Takeoff	1020.2	Good	Bad	Sent
To:	KLGB	ETA:	1700Z						0	0	0
Block Time		Flight Time		NAV:			ASOS Takeoff	KLAL 1250Z 1020.5 mb	BTs		
In:	17:43	Land:	17:40	FE(s):			A/C Land	1021.5	Good	Bad	Sent
Out:	12:45	T/O:	12:51	FD(s):	Carpenter		ASOS Land	KLGB 1753Z 1021.1 mb	0	0	0
Total:	5.0	Total:	4.8	SSA:	Paul	Visitors:	Storm Number ID:		N/A		
				AVAPS:	Warnecke		(ie: AL072012)				
Sponsoring Org:	NWS / OAR			SEB:	Flaherty		TCPOD/WSPOD Mission		NOAA9 WXWXA TRAIN		
Program:	PAR				Keller		(ie: NOAA2 2418A SANDY)				
Purpose:	PHNL repo 1 of 2 via KLGB				MX:	Roche		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:											

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FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20221207N1	FLT #:	23-	AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	KLGB	ETD:	1900Z	CP(s):	de Triquet		A/C Takeoff	1021.5	Good	Bad	Sent
To:	PHNL	ETA:	0100Z								
Block Time		Flight Time		NAV:			ASOS Takeoff	KLGB 1853Z 1021.5 mb	2	0	1
In:	0:45	Land:	0:40	FE(s):					BTs		
Out:	18:48	T/O:	19:01	FD(s):	Carpenter		A/C Land	1015.3	Good	Bad	Sent
					Timmers						
Total:	6.0	Total:	5.7	SSA:	Paul	Visitors:	ASOS Land	PHNL 0053Z 1015.5 mb	0	0	0
Sponsoring Org:		NWS / OAR		AVAPS:	Warnecke		Storm Number ID:		N/A		
Program:		PAR			Flaherty		(ie: AL072012)				
Purpose:		PHNL repo 2 of 2 via KLGB		SEB:	Keller		TCPOD/WSPOD Mission		NOAA9 WXWXE TRAIN		
					Crane		(ie: NOAA2 2418A SANDY)				
				MX:	Roche		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

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	20221207N1	Pressure Comparison		
Flight Director(s):	Carpenter / Timmers		T/O	Land
Mission:	Ferry	Aircraft	1020.2	1021.5
UWZ.d mean:	0.18	Tower	KLAL 1250Z 1020.5 mb	KLGB 1853Z 1021.5 mb

	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	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
X Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☒
Errors (note)	X

NOTES:
Data system continued to operate while stationary on the ground at KLGB for fuel stop between 1740-1900Z.
AltRa.1 inoperative.
TTM.2 unavailable. TTM.4 appears affected by diabatic heating while on the ground at KLGB.
Both TDM.1 and TDM.2 require calibration. All moisture quantities should be considered suspect.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20221207N1ASPEN Operator/Flight Director(s): TIMMERS/ CARPENTERMission ID: WXWWE TRAINStorm Name/Track: ATMOSPHERIC RIVERSPG 1 of 1

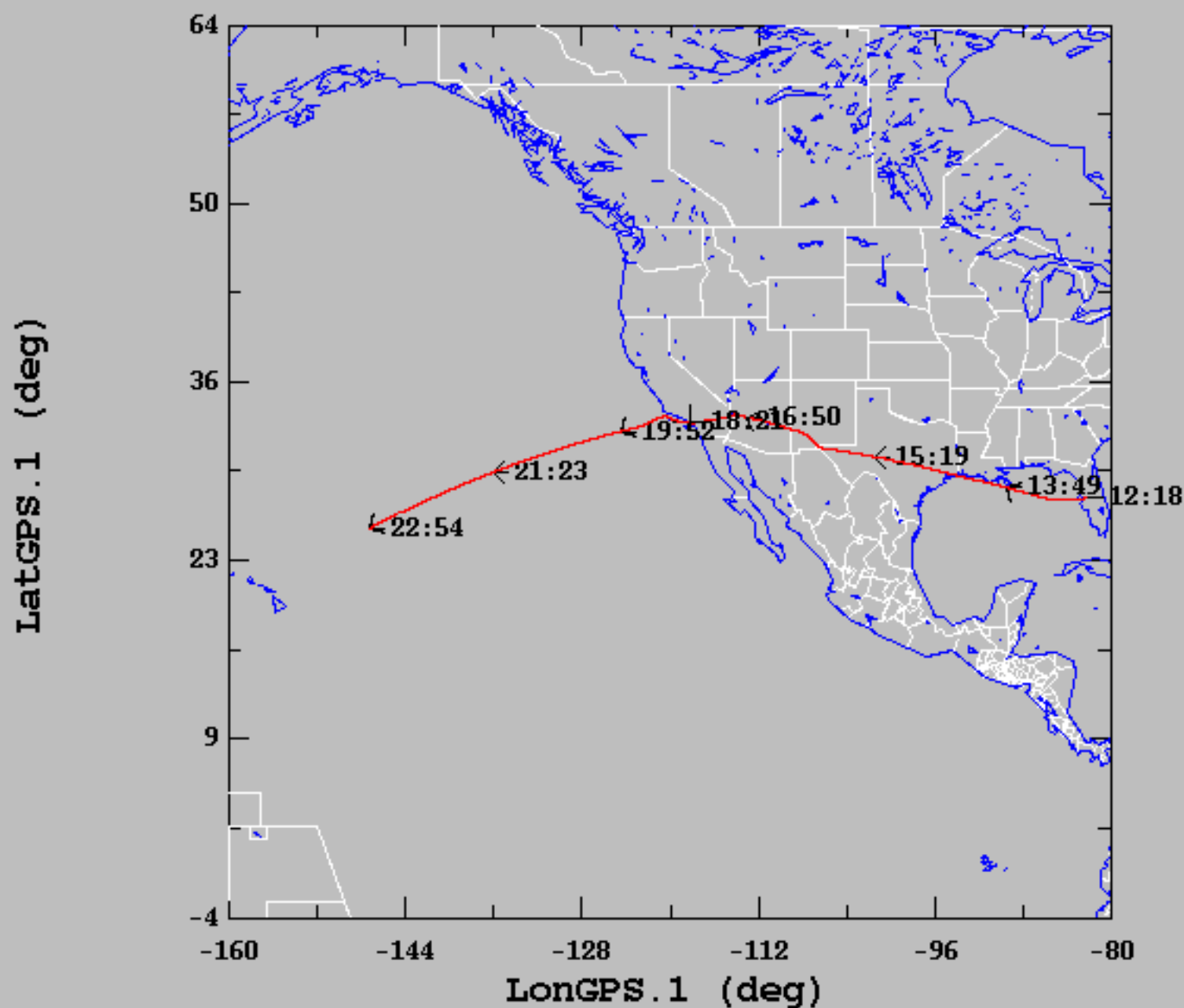
Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	2015 44	30012	1/5	32.4	-127.4	SKC	1025.2	325/06	2051	.
2	2	2309 08	42044	1/5	31.6	-130.3	FEW	1025.6	350/06	2100	
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ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

COMMENTS:

0 Obs
XmittedObs
Missed2 # of sondes
launched0 # of bad
sondes

12/07/2022, 12:18:05-22:54:45



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	31.10	2.48	25.55	34.40
LonGPS.1 (deg), 1 s/sec	-113.76	18.46	-147.20	-82.01