

N49RF ERROR SUMMARY
20210315N1

Flight ID: 20210315N1

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/2021/MET/20210315N1

Local Met Data	Takeoff PHNL (1927Z)	Landing KLAL (0047Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
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.

Aircraft landing pressure not representative
TTM.3 has continuous oscillations
TDM.1 unrepresentative

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	0	0	0
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Hathaway / Kalen
Phone #: 863-500-3962

ACAT-4 Version = 7.3

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210315N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1930	CP(s):	Norman	Dahlberg	A/C Takeoff		Good	Bad	Sent
To:	KPHX	ETA:	130					10	0	10	
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	0:50	Land:	0:47	FE(s):			A/C Land		Good	Bad	Sent
Out:	19:15	T/O:	19:27	FD(s):	Hathaway	Flaherty	ASOS Land		0	0	0
					Kalen						
Total:	5.6	Total:	5.3	SSA:	Defeo	Visitors:					
Sponsoring Org:		EMC		AVAPS:	Warnecke		Storm Number ID:		NONE		
Program:		PAR		SEB:			(ie: AL072012)				
Purpose:		AR 2021 Transit to KPHX		MX:	Lawrence	Newman	TCPD/WSPD Mission		NOAA9 WXWXC Train		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	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:

Transit flight to KPHX, dropping 10 sondes along path.

G-IV QC Checklist

Flight ID:	20210315N1
Flight Director(s)	Hathaway / Kalen
UWZ.d mean:	0.13

Pressure Comparison		
	T/O	Land
Aircraft	1016.9	967.3
Tower	1017.1	1014.6

	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	✓ 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	☐ GsGPS.3		✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2				
	☐ GsXGPS.3	☐ GsYGPS.3	☐ 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	☒ TDM.1			✓ TD.c	✓ TTMref
	☐ 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	☐
Valid	☒
Errors (note)	☒

NOTES:
Aircraft landing pressure not representative TTM.3 has continuous oscillations TDM.1 unrepresentative

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20210315N1

ASPEN Operator/Flight Director(s): Kalen / Hathaway

Mission ID: WXWXA Train

Storm Name/Track: Transit

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	195916	10167	1	21.92	-153.95	Few	1017.9	14006	52022	N
2	2	200956	40096	2	22.23	-152.43	Few	1018.2	24006	52030	N
3	3	202138	40091	3	22.82	-150.88	Few	1018.8	16508	52040	N
4	4	203414	40090	4	23.59	-149.26	SCT	1019.1	18507	52053	N
5	5	204531	10162	1	24.27	-147.78	OVC	1018.6	12017	52112	N
6	6	205733	20339	2	24.98	-146.19	OVC	1019.1	14021	52117	N
7	7	210848	40069	3	25.62	-144.69	SCT	1020.7	14517	52135	N
8	8	212016	31809	4	26.26	-143.14	OVC	1021.0	15008	52151	N
9	9	213138	20092	1	26.89	-141.59	OVC	1021.6	11513	52153	N
10	10	214304	40640	2	27.49	-139.99	OVC	1022.8	07519 / LAST REPORT	52202	N
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NOT

USED

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

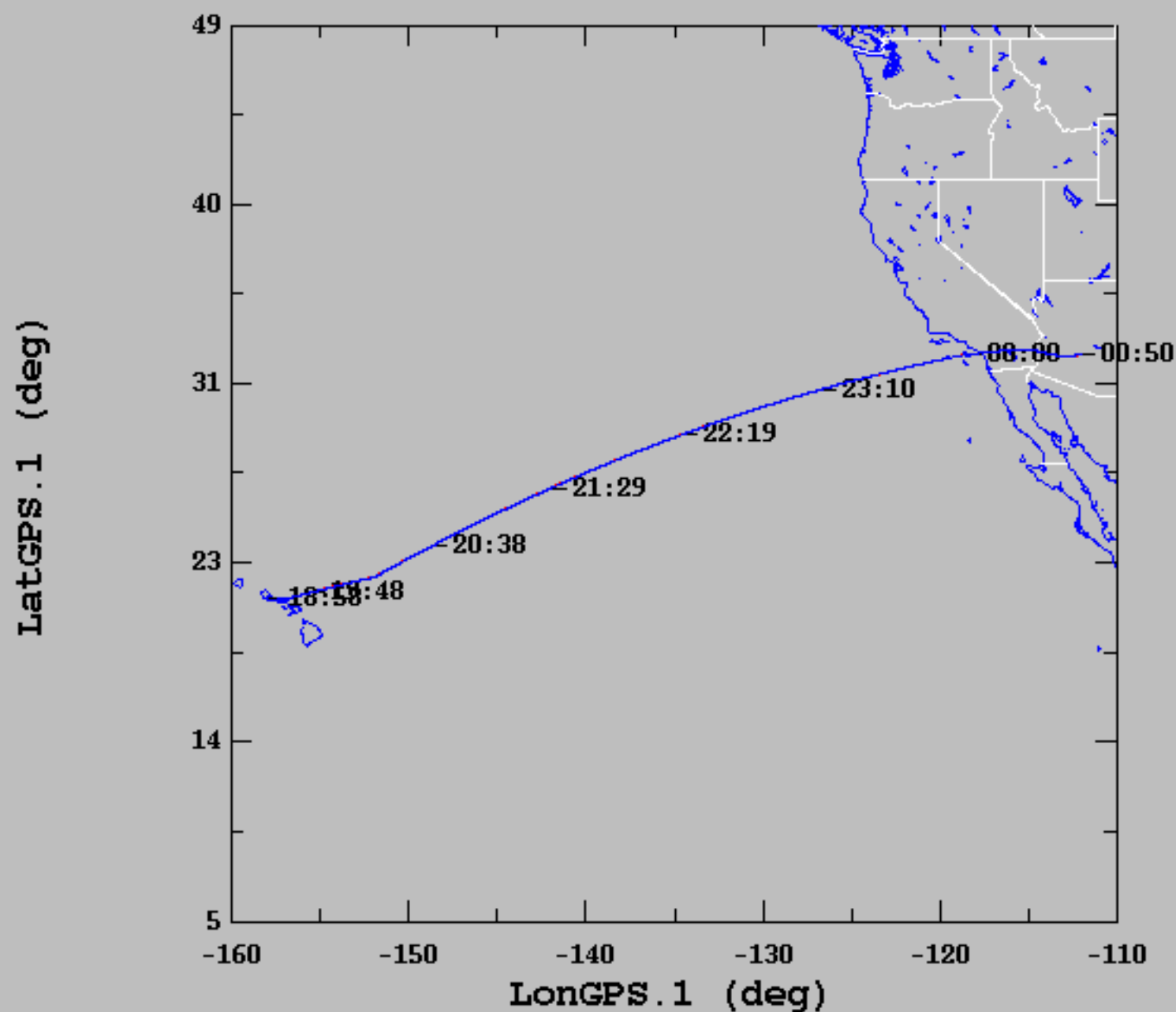
Obs
Xmitted

Obs
Missed

of sondes
launched

of bad
sondes

2021-03-15, 18:58:06-24:50:58



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.84	4.41	21.20	33.62
LonGPS.1 (deg), 1 s/sec	-136.75	14.45	-157.95	-111.83
LatI.1 (deg), 1 s/sec	27.85	4.41	21.20	33.62
LonI.1 (deg), 1 s/sec	-136.75	14.46	-157.94	-111.83