

N49RF ERROR SUMMARY
20200205N1

Flight ID: 20200205N1

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZI.2
Altimeter	AltGPS.3
INE Selection	2
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/2020/MET/20200205N1

Local Met Data	Takeoff KPDX (1816Z)	Landing KPDX (0209Z)
Dynamic Corrections		Yes
AttackAngleIntercept		3.97801
AttackAngleSlope		3.86172
SlipAngleIntercept		1.258
SlipAngleSlope		6.69941
AttackAngleIntercept2		5.04641
AttackAngleSlope2		5.41847
SlipAngleIntercept2		0.905
SlipAngleSlope2		6.78464

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.

AltRA.1 contains occasional drop outs and should not be used as a source of absolute altitude

TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect.

WS.d and WD.d are unrepresentative and inaccurate.

TTM.3 has a small amplitude (magnitude 0.2 - 0.3 deg C) unnatural oscillation with a period of roughly 30 seconds

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	35	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: Henning
Phone #: (863) 500-3982

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center				
FLT ID: 20200205N1		From: KPDX		To: KPDX
FLT #:		Blk In: 0214 Z	Lnd Time: 0209 Z	
ETD: 1830 Z		Blk Out: 1811 Z	T/O Time: 1816 Z	
ETE: 8+00		Total Blk: 8.1		Total Flt: 7.9
Sponsoring Org: EMC		Program: PAR		Purpose: AR-2020 Mission #3
AOC Flight Crew				
Aircraft Commander: MOYERS			SSA: DEFE0	
Co-Pilot: WADDINGTON / NORMAN			AVAPS: PAUL / HARTBERGER	
Navigator: /			Scientists: Anna Wilson	
Flight Eng: /			Scientists Nathan Rott (NPR)	
Flt Director: HENNING / HATHAWAY			Scientists	
SEB: / /			Scientists:	
Crew Chief: Visitors: / /				
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1022.2	30.22 +8 (1022.8)	1020.9	30.18 +11 (1021.3)
<u>AS REQUIRED BY ORM</u>		YES / NO	REMARKS	
VOLCANIC ASH				
SCIENCE MISSION WITHIN BOUNDARY LAYER				
LACK OF PRECIPITATION				
RELATIVE HUMIDITY AT OR ABOVE 80%				
LARGE AIR-SEA TEMPERATURE GRADIENT				
HIGH SURFACE WINDS				
LONG FETCH AND/OR DURATION OF SFC WIND				
SEA SALT ACCRETION FORECAST				
SEA SALT ACCRETION OBSERVED				
Dropsondes	35	Good: 30 Bad: 5	Sent: 30	
AXBT		Good: Bad:	Sent:	
List other data sources in Remarks section				
Remarks (Storm VDM Identifier, Mission ID, Fix Times)			Fix #	VDM Ob Num Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)				
TCPOD/WSPOD Mission ID: 06WSE TRACK 99 (ie: NOAA2 2418A SANDY)				
Remarks:				

G-IV QC Checklist

Flight ID:	20200205N1
Flight Director(s)	Henning / Hathaway
UWZ.d mean:	0.25

Pressure Comparison		
	T/O	Land
Aircraft	1022.2	1020.9
Tower	1022.8	1021.3

	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	☒ 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:
AltRA.1 contains occasional drop outs and should not be used as a source of absolute altitude TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect. WS.d and WD.d unrepresentative and inaccurate. TTM.3 has a small amplitude (magnitude 0.2 - 0.3 deg C) unnatural oscillation with a period of roughly 30 seconds There were no edits made in the measured parameters used to calculate meteorological and navigational parameters. Takeoff/Landing data: Data during landing and takeoff should be considered suspect It is recommended that data collected on the ground not be used for scientific analysis.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20200205 N1ASPEN Operator/Flight Director(s): Hathaway / HenningMission ID: NOAA9 06WSE Track 99Storm Name/Track: AR2020 #3PG 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?
									SFC winds	500mb	250 mb		
1	1	2047	1048	1	40.04	144.02	UCST	1027.6	190/23	5788	10686	052110	
2	2	2055	1168	2	40.36	145.17		1024.6	185/23	5763	10660	052113	
3	3	2103	1257	3	40.71	146.34		1022.7	175/23	5747	10644	052121	
4	4	2111	0999	4	40.04	147.50		1020.1	185/24	5725	10620	052137	
5	2119	1139	1	1									NO PTH
6	5	2120	1139	2	41.38	148.80		1017.9	195/20	5702	10590	052144	
7	2127	1139	3	3									FF
8	6	2128	1170	4	41.70	150.05		1016.1	235/07	5673	10551	052152	
9	7	2135	1050	1	41.96	151.09		1014.5	335/14	5642	10509	052156	
10	2143	1172	2	2									NLD
11	8	2145	1172	3	42.29	152.53		1017.6	020/21	5616	10473	052204	
12	9	2151	0880	4	42.50	153.54		1017.6	005/16	5586	10431	052210	
13	2159	1172	1	1									NLD
14	10	2201	1262	2	42.81	155.06		1018.3	015/16	5540	10374	052220	
15	11	2206	1171	3	43.14	155.69		1018.0	360/23	5516	10346	052227	
16	12	2212	0898	4	43.70	154.67		1018.5	010/10	5530	10367	052232	
17	13	2220	0900	1	44.37	153.32		1016.8	020/07	5532	10371	052240	
18	14	2228	0997	2	45.15	152.13		1018.2	360/06	5544	10385	052247	
19	15	2235	0998	3	46.02	152.48		1018.0	335/11	5506	10344	052256	
20	2243	1193	4	4									NO PTH
21	16	2244	1193	1	47.25	153.09		1018.1	280/09	5458	10281	052302	
22	17	2249	0582	2	48.03	153.48		1016.8	265/13	5423	10235	052315	
23	18	2256	0564	3	48.86	153.69		1016.9	255/18	5402	10209	052323	
24	19	2302	0405	4	48.56	152.69		1017.1	250/15	5425	10243	052326	
25	20	2309	1118	1	48.11	151.42		1018.1	280/14	5406	10292	052338	
26	21	2316	1218	2	47.66	150.19		1017.4	305/06	5501	10333	052339	
27	22	2323	1108	3	47.19	148.96		1017.1	325/04	5540	10386	052354	
28	23	2331	1210	4	46.71	147.78		1015.8	005/15	5577	10423	060005	
29	24	2338	1126	1	46.21	146.60		1014.7	025/18	5622	10472	060010	
30	25	2345	1169	2	45.69	145.34		1013.5	210/20	5647	10506	060013	
31	26	2352	0715	3	45.16	144.29		1016.7	205/24	5682	10551	060017	
32	27	2359	0574	4	44.64	143.19		1018.5	200/26	5699	10574	060024	
33	28	0007	1022	1	44.11	142.11		1021.0	205/25	5729	10609	060031	
34	29	0014	0035	2	43.56	141.04		1023.8	205/21	5747	10633	060037	
35	30	0021	0760	3	43.06	139.93	↓	1026.0	210/22	5768	10657	060045	
36													
37													
38													

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

COMMENTS:

Obs
XmittedObs
Missed# of sondes
launched# of bad
sondes

2020-02-05, 17:34:21-26:14:19

