

G-IV QC Checklist

Flight ID:	20240112N1
Flight Director(s)	Henning/Timmers
UWZ.d mean:	0.1

Pressure Comparison		
	T/O	Land
Aircraft	1012 mb	N/A
Tower	1013 mb	N/A

	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 inop

All dew point and humidities suspect

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

N49RF ERROR SUMMARY
20240112N1

Flight ID: 20240112N1

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.1
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/2024/MET/20240112N1

Local Met Data	Takeoff PHNL (1934Z)	Landing PHNL (0157Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept	1.06	
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.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	30	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 #: 8635003984

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:	201A0112N1	FLT #:		AC:	BHATTAGAR	Scientists:		Pressure		Dropsondes		
From:	PHNL	ETD:	1930	CP(s):	SMITH	WILSON		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0230	NAV:		GILMORE		ASOS Takeoff		30	Ø	30
Block Time		Flight Time		FE(s):				ASOS Land		BTs		
In:	0209	Land:	0157	FD(s):	HENNING			A/C Land		Good	Bad	Sent
Out:	1922	T/O:	1935		TIMMERS			ASOS Land		Ø	Ø	Ø
Total:	6.8	Total:	6.4	SSA:	MASCARO	Visitors:		Storm Number ID:				
Sponsoring Org:				AVAPS:	SANTONI			(ie: AL072012)				
Program:				SEB:	PAUL			TCP0D/WSP0D Mission		15WSC IOP10		
Purpose:				MX:				(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X			1				
SCIENCE MISSION WITHIN BDY LAYER					X			2				
LACK OF PRECIPITATION					X			3				
RELATIVE HUMIDITY ≥ 80%					X			4				
LARGE AIR-SEA TEMP GRADIENT					X							
HIGH SURFACE WINDS					X							
LONG FETCH / DURATION OF SFC WND					X							
SEA SALT ACCRETION FORECAST					X							
SEA SALT ACCRETION OBSERVED					X			Pennies:				
*Highlighted items must be completed before departure.												
Remarks:												

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20240112N1ASPEN Operator/Flight Director(s): HENNING/TIMMERSMission ID: 15WSC 10P16Storm Name/Track: AR 4th JANUARY MISSION 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	204136	16217	1	26.3	150.9	UCAST	1001.4	<u>SURFACE WINDS</u> 170/22	2103	✓
2	2	205013	10030	2	26.2	149.7		1004.6	140/23	2111	✓
3	3	205958	11790	3	26.1	148.5		1005.6	140/6	2118	✓
4	4	210724	50831	4	26.0	147.2	✓	1006.9	190/19	2125	✓
5	5	211539	50617	1	25.9	146.0	BKN	1008.0	150/32	2148	✓
6	6	212340	50647	2	25.8	144.8	PC	1008.7	155/30	2150	✓
7	7	213136	10139	3	25.7	143.6	PC	1011.3	150/32	2158	✓
8	8	213938	21726	4	25.5	142.4	FEW	1013.4	145/30	2200	✓
9	9	214700	30168	1	25.5	141.3	FEW	1014.3	150/29	2205	✓
10	10	215408	67914	2	26.5	141.0	PC	1016.0	145/25	2214	✓
11	11	220141	50666	3	27.5	140.9	PC	1015.0	150/22	2232	✓
12	12	220920	51019	4	28.6	140.7	PC	1015.8	150/27	2250	✓
13	13	221651	30850	1	29.6	140.6	BKN	1016.2	160/21	2255	✓
14	14	222356	30960	2	30.6	140.5	UCAST	1016.8	165/18	2257	✓
15	15	223359	41024	3	30.9	141.7	UCAST	1014.1	155/20	2301	✓
16	16	224458	50622	4	31.0	143.1		1012.9	155/16	2315	✓
17	17	225555	20484	1	31.2	144.2	✓	1011.5	150/15	2320	✓
18	18	230602	20212	2	31.3	145.7		1009.4	145/18	2329	✓
19	19	231620	11712	3	31.4	147.1		1007.9	last wind 14m 065/23	2340	✓
20	20	232646	11809	4	31.5	148.5		1002.9	110/30	2351	✓
21	21	233656	10043	1	31.6	149.8		1005.3	105/9	2357	✓
22	22	234824	50645	2	31.3	151.3	✓	1005.1	090/20	0009	✓
23	23	235910	50167	3	30.9	152.8		1004.6	015/35	0017	✓
24	24	000937	50829	4	30.6	154.3		1005.9	020/37	0039	✓
25	25	001858	50649	1	29.8	155.4	✓	1007.7	360/36	0047	✓
26	26	002830	20829	2	29.1	156.4		1009.0	360/35	0052	✓
27	27	003756	51011	3	28.3	157.4		1010.6	350/22	0058	✓
28	28	004712	50634	4	27.6	158.4	BKN	1011.9	005/29	0105	✓
29	29	005614	10210	1	26.8	159.4	BKN	1013.0	355/29	0115	✓
30	30	010449	50623	2	26.0	160.2	BKN	1013.6	345/25 LAST RPT	0122	✓
31											
32											
33											
34											
35											
36											
37											
38											

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

COMMENTS:

Obs
Xmitted

30

Obs
Missed

0

of sondes
launched

30

of bad
sondes

0

AVAPS Drop Log

Project: A/R 2023/24

Mission: _____

Flight ID: 20240122

Take Off: 1930

Landing: _____

Flt Dir: TIMMERS Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	232210217	1	0	2041	nam	AR		✓
2	232010030	2	-0.6	2050				✓
3	231611790	3	-0.8	2058				✓
4	232050831	4	-0.9	2107				✓
5	232150617	1	-0.8	2115				✓
6	232150647	2	-0.6	2123				✓
7	232010139	3	-0.6	2131				✓
8	231821726	4	-0.6	2139				✓
9	232030168	1	-0.7	2146				✓
10	233667914	2	-0.9	2154				✓
11	232150666	3	0	2201				✓
12	232051019	4	-0.6	2209				✓
13	232030850	1	-0.4	2216	BRD			✓
14	230930960	2	-0.5	2223	BRD			✓
15	233141024	3	-0.6	2233	BRD			✓
16	232150622	4	-0.7	2244	BRD			✓
17	232120484	1	-0.5	2255	BRD			✓
18	233220212	2	-0.6	2306	BRD			✓
19	231611722	3	-0.4	2316	BRD			✓
20	231611809	4	-0.7	23.26	AS			✓
21	232210043	1	-0.8	23.36	AS			✓
22	232150645	2	-1.0	23.48	AS			✓
23	233150167	3	-0.8	23.59	AS			✓
24	232050825	4	-0.4	00.09	AS			✓
25	232150649	1	-0.8	00.18	AS			✓
26	232020829	2	-0.9	00.28	AS			✓
27	232051011	3	-0.8	00.37	AS			✓
28	232150634	4	-0.5	00.47	AS			✓
29	232210210	1	-0.8	00.56	AS			✓
30	232150623	2	-1.0	01.04	AS			✓
31								

01/12/2024, 18:55:50-25:57:53

LatGPS.3 (deg)

