

G-IV QC Checklist

Flight ID:	20240124N1
Flight Director(s)	Henning/Timmers
UWZ.d mean:	0.03

Pressure Comparison		
	T/O	Land
Aircraft	1013 mb	1010 mb
Tower	1014 mb	1011 mb

	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
20240124N1

Flight ID: 20240124N1

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/20240124N1

Local Met Data	Takeoff PHNL (2017Z)	Landing PHNL (0238Z)
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.

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.

All dew point and humidities suspect

AltRA.1 inop

AltGPS.1 and .2 stair step

AltGPS.1 has periodic (seconds) gaps in data

Expendable Type	# deployed	# good	# transmitted
Dropsondes	31	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:	201A0124M1	FLT #:		AC:	BHATNAGAR	Scientists:		Pressure		Dropsondes		
From:	PHNL	ETD:	2015	CP(s):	SMITH			A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0245		MANSOUR					30	1	30
Block Time		Flight Time		NAV:				ASOS Takeoff		BTs		
In:	0258	Land:	0247	FE(s):						Good	Bad	Sent
Out:	2009	T/O:	2018	FD(s):	HENNING			A/C Land		Ø	Ø	Ø
					TIMMERS							
Total:	6.8	Total:	6.5	SSA:	MASCARO	Visitors:		ASOS Land				
Sponsoring Org:				AVAPS:	SANTONI			Storm Number ID:				
Program:					DYKEMAN			(ie: AL072012)				
Purpose:				SEB:				TCP0D/WSP0D Mission		24WSC ICP25		
								(ie: NOAA2 2418A SANDY)				
				MX:				OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP		
VOLCANIC ASH				X			1					
SCIENCE MISSION WITHIN BDY 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:					
*Highlighted items must be completed before departure.												
Remarks:												

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20240124N1

ASPEN Operator/Flight Director(s):

HENNING / TIMMERSMission ID: 24WSC 1DP25

Storm Name/Track:

10th JANUARY AR MISSIONPG of

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min:sec)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	204154	20185	1	22.3	155.5	SCT	1013.7	LAST WIND 14m 195/19	2100	✓✓
2	2	205222	40172	2	23.0	154.0	SCT	1014.2	205/28	2119	✓✓
3	3	210238	20191	3	23.6	152.5	SCT	1012.4	195/19	2121	✓✓
4	4	211249	20800	4	24.3	151.0	SCT	1013.6	185/22	2134	✓✓
5	5	212223	20170	1	25.0	149.7	BKN	1013.2	280/23	2144	✓✓
6	6	213211	20198	2	25.8	150.3	FEW	1012.4	195/28	2200	✓✓
7	7	214318	20163	3	26.7	151.2	VCAS	1009.5	195/24	2203	✓✓
8	8	215430	30073	4	27.5	152.1		1009.7	210/18	2211	✓✓
9	9	220536	20192	1	28.4	153.0		1005.0	205/29	2228	✓✓
10	10	221616	30074	2	29.2	153.9	↓	1001.2	190/32	2233	✓✓
11	11	222648	40170	3	30.1	154.8	SCT	999.0	220/27	2244	✓✓
12	12	223714	20307	4	30.9	155.7	SCT	998.0	240/29	2258	✓✓
13	13	224714	20155	1	31.8	156.6	SCT	996.3	260/23	2305	✓✓
14	14	225722	40086	2	32.6	157.6	BKN	994.6	235/28	2314	✓✓
15	15	230724	30867	3	33.4	158.6	SCT	991.8	250/29	2327	✓✓
16	16	231730	20187	4	34.2	159.6	SCT	989.9	LAST WIND 13m 245/39	2340	✓✓
17	17	232738	20053	1	35.0	160.6	SCT	986.2	255/35	2343	✓✓
18	18	233755	50991	2	35.8	161.6	SCT	982.8	255/32	2359	✓✓
19	19	234712	50269	3	36.4	162.7	SCT	982.4	270/30	0006	✓✓
20	20	235603	20195	4	35.5	163.2	SCT	985.6	270/31	0013	✓✓
21	21	000540	40169	1	34.4	163.7	SCT	989.2	285/32	0031	✓✓
22	22	001529	20885	2	33.2	164.2	BKN	992.1	265/38	0042	✓✓
23	23	002518	20196	3	32.1	164.6	BKN	996.6	280/36	0100	✓✓
24	24	003509	40090	4	31.0	165.1	SCT	998.4	270/29	0102	✓✓
25	25	004452	20164	1	29.9	165.3	SCT	1001.9	LAST WIND 13m 270/37	0110	✓✓
26	26	005423	20173	2	28.7	166.0	SCT	1004.3	LAST WIND 13m 275/34	0117	✓✓
27	27	010341	30072	3	27.6	166.4	SCT	1004.5	275/28	0129	✓✓
28	28	011316	20181	4	26.5	166.8	SCT	1007.0	280/22	0134	✓✓
29	29	0122		1			SCT		NLD ANDFF		
30	29	012304	31011	2	25.3	167.2		1007.8	300/14	0141	✓✓
31	30	013106	20190	3	24.2	167.4	↓	1007.6	290/24 LAST REPORT	0153	✓✓
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 30Obs
Missed 0# of sondes
launched 31# of bad
sondes 1

AVAPS Drop Log

Project: A/R 2023/24

Mission: AR Flight 2-10

Flight ID: 20240154N1

Take Off: 2029

Landing: _____

Flt Dir: TIMMERS

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	232320185	1	1.2	2041	Mar	AR		✓
2	232240172	2	.8	2052				✓
3	2323201910	3	.8	2102				✓
4	232020800	4	-1.3	2112				✓
5	232320170	1	-1.2	2122				✓
6	232320190	2	-1.1	2132				✓
7	232320163	3	-.9	2143				✓
8	231830073	4	-.9	2154				✓
9	232320192	1	-.9	2205				✓
10	231830074	2	-.8	2216				✓
11	232240170	3	-.6	2226	BRD			✓
12	232320307	4	-.8	2237				✓
13	232320155	1	-.9	2247				✓
14	232240086	2	-0.4	2257				✓
15	232030867	3	-1.3	2307				✓
16	232320187	4	-1.3	2317				✓
17	232320253	1	-1.3	2327				✓
18	232050991	2	-1.0	2337				
19	232050269	3	-1.0	2347				
20	232050269	4	-1.3	2356				
21	232240169	1	-1.2	0005				
22	231720885	2	-0.6	0015				
23	232320196	3	-1.1	0025	AS			
24	23224090	4	-1.3	0035				
25	232320164	1	-1.0	0044				
26	232320173	2	-1.2	0054				
27	231830072	3	-.4	0103				
28	232320181	4	-1.3	0113				
29	231830020	1	-.6				NO LAUNCH Det.	
30	230931011	2	-1.2	0123				
31	232320190	3	-1.0	0131				

01/24/2024, 19:25:48-26:47:02

LatGPS.3 (deg)

