

G-IV QC Checklist

Flight ID:	20240118N1
Flight Director(s)	Henning/Timmers
UWZ.d mean:	0.05

Pressure Comparison		
	T/O	Land
Aircraft	1013 mb	1010 mb
Tower	1013 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
20240118N1

Flight ID: 20240118N1

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/20240118N1

Local Met Data	Takeoff PHNL (1946Z)	Landing PHNL (0258Z)
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:	201A01119NL	FLT #:		AC:	BHATNAGAR	Scientists:		Pressure		Dropsondes		
From:	PHNL	ETD:	1930	CP(s):	SMITH			A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0230		MANSOUR					30	Ø	30
Block Time		Flight Time		NAV:				ASOS Takeoff		BTs		
In:	0302	Land:	0259	FE(s):						Good	Bad	Sent
Out:	1933	T/O:	1947	FD(s):	HENNING			A/C Land		Ø	Ø	Ø
					TIMMERS							
Total:	7.5	Total:	7.2	SSA:	MASCARO	Visitors:		ASOS Land				
Sponsoring Org:				AVAPS:	SANTONI			Storm Number ID:				
Program:					DYKEMAN			(ie: AL072012)				
Purpose:				SEB:				TCP0D/WSP0D Mission		19WSC IOP20		
				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: 20240118N1ASPEN Operator/Flight Director(s): HENNING/TIMMERSMission ID: 19WSC 10P20Storm Name/Track: AR 8th JANUARY MISSION PG of

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min test S)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	205115	20805	1	25.1	162.4	SCT	1011.4	210/17	2113	✓
2	2	210120	51006	3	26.3	162.5	SCT	1008.6	195/17	2123	✓
3	3	210904	10042	2	27.1	162.5	BKN	1009.3	170/16	2126	✓
4	4	212103	51195	4	28.2	163.2	UCAST	1007.3	175/20	2141	✓
5	5	213342	50650	1	29.2	164.1	UCAST	1005.3	190/25	2152	✓
6	6	214618	10174	2	30.2	164.9		1002.4	175/22	2203	✓
7	7	215852	30069	3	31.2	165.8	V	999.1	170/27	2214	✓
8	8	221114	10117	4	32.2	166.7		996.2	165/25	2227	✓
9	9	222329	31082	1	33.1	167.6	BKN	994.6	190/32	2251	✓
10	10	223553	51215	2	34.1	168.6	SCT	991.5	230/19	2302	✓
11	11	224746	40100	3	35.1	169.5	FEW	990.4	LAST WIND 13m 245/21	2308	✓
12	12	225902	50619	4	36.0	170.5	FEW	989.5	LAST WIND 13m 240/18	2323	✓
13	13	230933	30158	1	36.9	171.5	CLR	987.2	310/18	2327	✓
14	14	232200	10120	2	36.4	172.9	CLR	986.9	245/27	2340	✓
15	15	233511	51153	3	35.8	174.3	CLR	987.6	240/17	2353	✓
16	16	234811	50838	4	35.2	175.7	CLR	987.6	225/17	0031	✓
17	17	000018	20288	1	34.5	176.9	UCAST	987.0	210/24	0033	✓
18	18	000700	10057	2	33.8	177.1	SCT	988.7	LAST WIND 13m 205/21	0034	✓
19	19	001442	10122	3	33.1	177.3	SCT	988.1	215/31	0041	✓
20	20	002348	50594	4	32.2	176.4	SCT	990.3	226/25	0045	✓
21	21	003246	51156	1	31.3	175.4	BKN	992.7	220/28	0055	✓
22	22	004134	50651	2	30.5	174.5	BKN	994.4	245/19	0101	✓
23	23	005022	20178	3	29.6	173.5	SCT	996.1	250/23	0108	✓
24	24	005903	30071	4	28.7	172.6	BKN	997.4	260/17	0125	✓
25	25	010732	40102	1	27.8	171.7	SCT	997.4	230/23	0126	✓
26	26	011642	30156	2	27.2	170.3	UCAST	1000.5	250/21	0137	✓
27	27	012601	20176	3	26.6	168.9	UCAST	1001.1	310/12	0144	✓
28	28	013527	50266	4	26.0	167.5	SCT	1001.9	210/28	0153	✓
29	29	014507	30078	1	25.4	166.1	CLR	1003.7	205/22	0202	✓
30	30	015458	20183	2	24.8	164.7	SCT	1005.3	205/27	0212	✓
31											
32											
33											
34											
35											
36											
37											
38											

FALL
PS
etc.

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: 20240118N1

Take Off: 0745

Landing: _____

Flt Dir: Timmer

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	232320305	1	-.8	2051	MM	AR		✓
2	232210042	3	-.9	2101				✓
3	232051006	2	-.3	2109				✓
4	232151195	4	-.6	2121				✓
5	232150650	1	-.7	2133				✓
6	232010174	2	-.7	2146				✓
7	231830069	3	-.8	2158				✓
8	232210117	4	-.7	2211				✓
9	230931082	1	-.8	2223				✓
10	232151215	2	-.8	2235				✓
11	232240100	3	-1.2	2247				✓
12	232150619	4	-1.3	2259				✓
13	232030158	1	-.8	2309	BRD			
14	232210120	2	-.8	2322				
15	232151153	3	-1.2	2335				
16	232050838	4	-0.7	2348				
17	232320288	1	-0.7	0000				
18	232210057	2	-.7	0007	MM			
19	232210122	3	-.7	0014				
20	232150594	4	-.7	0023				
21	232151156	1	-.8	0032	AS			
22	232150651	2	-.6	0041				
23	232320178	3	-1.3	0050				
24	231830071	4	-1.0	0059				
25	232240102	1	-1.2	0107				
26	232030156	2	-.8	0116				
27	232320776	3	-1.1	0126				
28	232050266	4	-.7	0135				
29	231830078	1	-1.2	0145				
30	232320183	2	-1.2	0154				
31								

01/18/2024, 19:03:42-26:59:14

LatGPS.3 (deg)

