

G-IV QC Checklist

Flight ID:	20240110N1
Flight Director(s)	Henning/Timmers
UWZ.d mean:	0.05

Pressure Comparison		
	T/O	Land
Aircraft	1011 mb	1009 mb
Tower	1012 mb	1010 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
20240110N1

Flight ID: 20240110N1

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/20240110N1

Local Met Data	Takeoff PHNL (1913Z)	Landing PHNL (0201Z)
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:	201A0110N1	FLT #:		AC:	BHATTAGAR	Scientists:		Pressure		Dropsondes		
From:	PHNL	ETD:	1915	CP(s):	SMITH			A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0215	NAV:				ASOS Takeoff		30	Ø	30
Block Time		Flight Time		FE(s):				ASOS Land		BTs		
In:	0212	Land:	0201	FD(s):	HENNING TIMMERS			A/C Land		Good	Bad	Sent
Out:	1858	T/O:	1913	SSA:	MASCARO	Visitors:		ASOS Land		Ø	Ø	Ø
Total:	7.2	Total:	6.8	AVAPS:	SANTONI			Storm Number ID:				
Sponsoring Org:				SEB:	PAUL			(ie: AL072012)				
Program:				MX:				TCP0D/WSP0D Mission		13WSC IOPIA		
Purpose:								(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: 2024610N1

ASPEN Operator/Flight Director(s):

HENNING/TIMMERSMission ID: 13WSC 10P14Storm Name/Track: AR 2nd 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	203218	67946	1	29.0	152.0	PC	1007.3	<u>SURFACE WINDS</u> 185/19	2049	✓✓
2	2	204048	24563	2	29.1	150.7	PC	1008.4	190/20	2102	✓✓
3	3	204917	30159	3	29.1	149.3	BKN	1007.8	LAST WIND 13m 180/19	2107	✓✓
4	4	205746	40844	4	29.1	147.9	BKN	1011.4	150/31	2115	✓✓
5	5	210614	24511	1	29.1	146.6	UCAST	1013.8	155/26	2134	✓✓
6	6	211416	24625	2	29.2	145.3	↓	1016.5	155/22	2144	✓✓
7	7	212309	24516	3	30.2	145.0	✓	1016.0	155/29	2152	✓✓
8	8	213227	60352	4	31.3	144.9	↓	1017.3	160/22	2158	✓✓
9	9	214129	30775	1	32.4	144.7	↓	1016.9	140/19	2204	✓✓
10	10	215042	67961	2	33.6	144.5	✓	1017.6	160/21	2212	✓✓
11	11	215938	24462	3	34.7	144.4	↓	1018.3	150/25	2220	✓✓
12	12	220822	41234	4	35.8	144.2	↓	1018.9	140/19	2226	✓✓
13	13	221630	30541	1	36.8	144.1	↓	1019.4	LAST WIND 13m 110/18	2249	✓✓
14	14	222602	50282	2	36.9	145.4	✓	1016.5	145/27	2252	✓✓
15	15	223612	67943	3	36.9	146.9	↓	1013.4	140/20	2257	✓✓
16	16	224614	24587	4	36.9	148.3	↓	1008.7	140/33	2310	✓✓
17	17	225618	67959	1	36.9	149.7	↓	1005.6	155/30	2315	✓✓
18	18	230632	24694	2	36.8	151.1	↓	1002.6	LAST WIND 13m 160/27	2343	✓✓
19	19	231637	24642	3	36.8	152.5	✓	999.9	190/22	2345	✓✓
20	20	232639	67889	4	36.7	153.9	↓	999.4	235/18	2354	✓✓
21	21	233701	30538	1	35.7	154.6	↓	999.7	LAST WIND 13m 205/10	2356	✓✓
22	22	234704	30555	2	34.6	155.2	↓	999.3	260/11	0017	✓✓
23	23	235720	24716	3	33.6	155.8	✓	1000.5	300/14	0022	✓✓
24	24	000738	24720	4	32.6	156.4	BKN	1001.9	300/28	0027	✓✓
25	25	001802	21559	1	31.5	157.0	BKN	1003.3	295/18	0038	✓✓
26	26	002904	24670	2	30.5	157.6	PC	1004.4	295/15	0047	✓✓
27	27	003924	34218	3	29.3	157.7	PC	1006.2	310/13	0059	✓✓
28	28	004958	31571	4	28.2	157.8	PC	1006.2	305/12	0117	✓✓
29	29	010020	24572	1	27.0	157.8	PC	1006.8	LAST WIND 13m 110/5	0119	✓✓
30	30	011029	30539	2	25.9	157.9	PC	1006.2	320/13	0128	✓✓
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: 20240110~1

Take Off: 1915

Landing: _____

Flt Dir: TIMMERS

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	233667946	1	-1.1	2032	MAN			✓
2	233824563	2	-1.6	2040				✓
3	232030159	3	0	2049				✓
4	233640844	4	-1.7	2058				✓
5	233824511	1	-1.7	2106				✓
6	233824625	2	-1.6	2114				✓
7	233824516	3	-1.8	2123				✓
8	233560352	4	-1.7	2132				✓
9	233836775	1	-1.6	2141				✓
10	233677961	2	-1.7	2150				✓
11	233824462	3	-1.7	2159				✓
12	233641234	4	-1.6	2208				✓
13	233830541	1	-1.5	2216				✓
14	232050282	2	-1.5	2226				✓
15	233667943	3	-1.6	2236				✓
16	233824587	4	-1.6	2246				✓
17	233667959	1	-1.1	2256	BRD			✓
18	233824694	2	-0.7	2306	BRD			✓
19	233824642	3	-0.9	2316	BRD			✓
20	233667889	4	-0.9	2326	BRD			✓
21	23380538	1	-0.5	2337	BRD			✓
22	23383055	2	-0.7	2347	BRD			✓
23	233824716	3	-0.7	2357	BRD			✓
24	233824720	4	-0.7	0007	BRD			✓
25	231821559	1	-0.5	0018	BRD			✓
26	233824670	2	-0.7	0029	BRD			✓
27	233834218	3	-0.7	0039	BRD			✓
28	231931511	4	-0.7	0049	BRD			✓
29	233824572	1	-0.6	0100	BRD			✓
30	233830539	2	-0.7	0110	BRD			
31								

01/10/2024, 18:26:34-26:01:29

LatGPS.3 (deg)

