

## G-IV QC Checklist

<b>Flight ID:</b>	<b>20230826N1</b>
<b>Flight Director(s)</b>	<b>Henning</b>
<b>UWZ.d mean:</b>	<b>-0.07</b>

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1006.9</b>	<b>1003.9</b>
<b>Tower</b>	<b>1007.6</b>	<b>1004.0</b>

	Raw 1Hz Mean File Parameters					C File Parameters	
<input type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1	<input checked="" type="checkbox"/> AccAYI.1	<input checked="" type="checkbox"/> AccAZI.1			<input checked="" type="checkbox"/> AccZref	
	<input checked="" type="checkbox"/> AccAXI.2	<input checked="" type="checkbox"/> AccAYI.2	<input checked="" type="checkbox"/> AccAZI.2				
	<input checked="" type="checkbox"/> AccAXI.3	<input checked="" type="checkbox"/> AccAYI.3	<input checked="" type="checkbox"/> AccAZI.3				
<input type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1	<input checked="" type="checkbox"/> AltI.1	<input checked="" type="checkbox"/> AltPaADDU.1	<input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> ALTref		
	<input checked="" type="checkbox"/> AltGPS.2	<input checked="" type="checkbox"/> AltI.2	<input checked="" type="checkbox"/> AltPaADDU.2	<input checked="" type="checkbox"/> AltBCADDU.2	<input checked="" type="checkbox"/> ALTPA.d		
	<input checked="" type="checkbox"/> AltGPS.3	<input checked="" type="checkbox"/> AltI.3	<input checked="" type="checkbox"/> AlTRA.1		<input checked="" type="checkbox"/> ALTGA.d		
<input type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI.1	<input checked="" type="checkbox"/> GsYI.1	<input checked="" type="checkbox"/> GsZI.1	<input checked="" type="checkbox"/> GsGPS.1	<input checked="" type="checkbox"/> GSXref		
	<input checked="" type="checkbox"/> GsXI.2	<input checked="" type="checkbox"/> GsYI.2	<input checked="" type="checkbox"/> GsZI.2	<input checked="" type="checkbox"/> GsGPS.2	<input checked="" type="checkbox"/> GSYref		
	<input checked="" type="checkbox"/> GsXI.3	<input checked="" type="checkbox"/> GsYI.3	<input checked="" type="checkbox"/> GsZI.3	<input checked="" type="checkbox"/> GsGPS.3	<input checked="" type="checkbox"/> GSZref		
	<input checked="" type="checkbox"/> GsXGPS.1	<input checked="" type="checkbox"/> GsYGPS.1	<input checked="" type="checkbox"/> GsZGPS.1				
	<input checked="" type="checkbox"/> GsXGPS.2	<input checked="" type="checkbox"/> GsYGPS.2	<input checked="" type="checkbox"/> GsZGPS.2				
	<input checked="" type="checkbox"/> GsXGPS.3	<input checked="" type="checkbox"/> GsYGPS.3	<input checked="" type="checkbox"/> GsZGPS.3				
<input checked="" type="checkbox"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1	<input checked="" type="checkbox"/> LatI.1	<input checked="" type="checkbox"/> LonGPS.1	<input checked="" type="checkbox"/> LonI.1	<input checked="" type="checkbox"/> LATref		
	<input checked="" type="checkbox"/> LatGPS.2	<input checked="" type="checkbox"/> LatI.2	<input checked="" type="checkbox"/> LonGPS.2	<input checked="" type="checkbox"/> LonI.2	<input checked="" type="checkbox"/> LONref		
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LonGPS.3				
<input checked="" type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1	<input checked="" type="checkbox"/> PQALPHA.1	<input checked="" type="checkbox"/> PQM.1	<input checked="" type="checkbox"/> PSM.1	<input checked="" type="checkbox"/> PDLAPHaref	<input checked="" type="checkbox"/> PQMref	
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQALPHA.2	<input checked="" type="checkbox"/> PQM.2	<input checked="" type="checkbox"/> PSM.2	<input checked="" type="checkbox"/> PDBETAref	<input checked="" type="checkbox"/> PQ.c	
	<input checked="" type="checkbox"/> PDBETA.1	<input checked="" type="checkbox"/> PQBETA.1			<input checked="" type="checkbox"/> PQALPHaref	<input checked="" type="checkbox"/> PSMref	
	<input checked="" type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQBETA.2			<input checked="" type="checkbox"/> PQBETAref	<input checked="" type="checkbox"/> PS.c	
<input checked="" type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1			<input checked="" type="checkbox"/> IAS.d	<input checked="" type="checkbox"/> TAS.d	
<input checked="" type="checkbox"/> Pitch / Roll	<input checked="" type="checkbox"/> PitchI.1	<input checked="" type="checkbox"/> PitchRateI.1	<input checked="" type="checkbox"/> RollI.1	<input checked="" type="checkbox"/> RollRateI.1	<input checked="" type="checkbox"/> PITCHref		
	<input checked="" type="checkbox"/> PitchI.2	<input checked="" type="checkbox"/> PitchRateI.2	<input checked="" type="checkbox"/> RollI.2	<input checked="" type="checkbox"/> RollRateI.2	<input checked="" type="checkbox"/> ROLLref		
	<input checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.3			
<input checked="" type="checkbox"/> Temp / Dewpt	<input checked="" type="checkbox"/> TTM.1	<input checked="" type="checkbox"/> TTM.4	<input checked="" type="checkbox"/> TDM.1		<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref	
	<input checked="" type="checkbox"/> TTM.2		<input checked="" type="checkbox"/> TDM.2		<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d	
	<input checked="" type="checkbox"/> TTM.3						
<input checked="" type="checkbox"/> Misc. (Must check)					<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d	
					<input checked="" type="checkbox"/> DPJ_WSZ	<input checked="" type="checkbox"/> WD.d	
					<input checked="" type="checkbox"/> HUM		

FLID_Mission_Documents.pdf:	
<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC Checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) - AVAPS and FD if completed
<input checked="" type="checkbox"/>	Flight Track
<input type="checkbox"/>	Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
AlTRA.1 and GSGPS's are not operational.
TDM.1 and TDM.2 has erroneous data throughout the flight and should not be used.
PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' fi

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230826N1	FLT #:		AC:	de Triquet		Pressure		Dropsondes		
From:	KLAL	ETD:		CP(s):	Varwig		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:			Bhatnagar				<b>29</b>	<b>3</b>	<b>29</b>
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	<b>21:00</b>	Land:	<b>20:54</b>	FE(s):			A/C Land		Good	Bad	Sent
Out:	<b>13:34</b>	T/O:	<b>13:44</b>	FD(s):	Henning		ASOS Land		<b>0</b>	<b>0</b>	<b>0</b>
Total:	<b>7.4</b>	Total:	<b>7.2</b>	SSA:	Defeo	<b>Visitors:</b>	Storm Number ID:		<b>AL082023</b>		
				AVAPS:	Dykeman	Ludtke (Intern)	(ie: AL072012)				
Sponsoring Org:	HRD			SEB:	Paul		TCPOD/WSPOD Mission		<b>WC08A FRANKLIN</b>		
Program:	PHS						(ie: NOAA2 2418A SANDY)				
Purpose:	Franklin (sondes + TDR research)			MX:			<b>OBSERVATIONS</b>				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH							<b>1</b>				
SCIENCE MISSION WITHIN BDRY LAYER							<b>2</b>				
LACK OF PRECIPITATION							<b>3</b>				
RELATIVE HUMIDITY ≥ 80%							<b>4</b>				
LARGE AIR-SEA TEMP GRADIENT											
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED							<b>Pennies:</b>	N/A			

\*Highlighted items must be completed before departure.

Remarks:




AOC GPS Dropwindsonde Log (updated June 2023)

Flight ID: 20230826N1 ASPEN Operator/Flight Director(s): HENNING / de SOLO

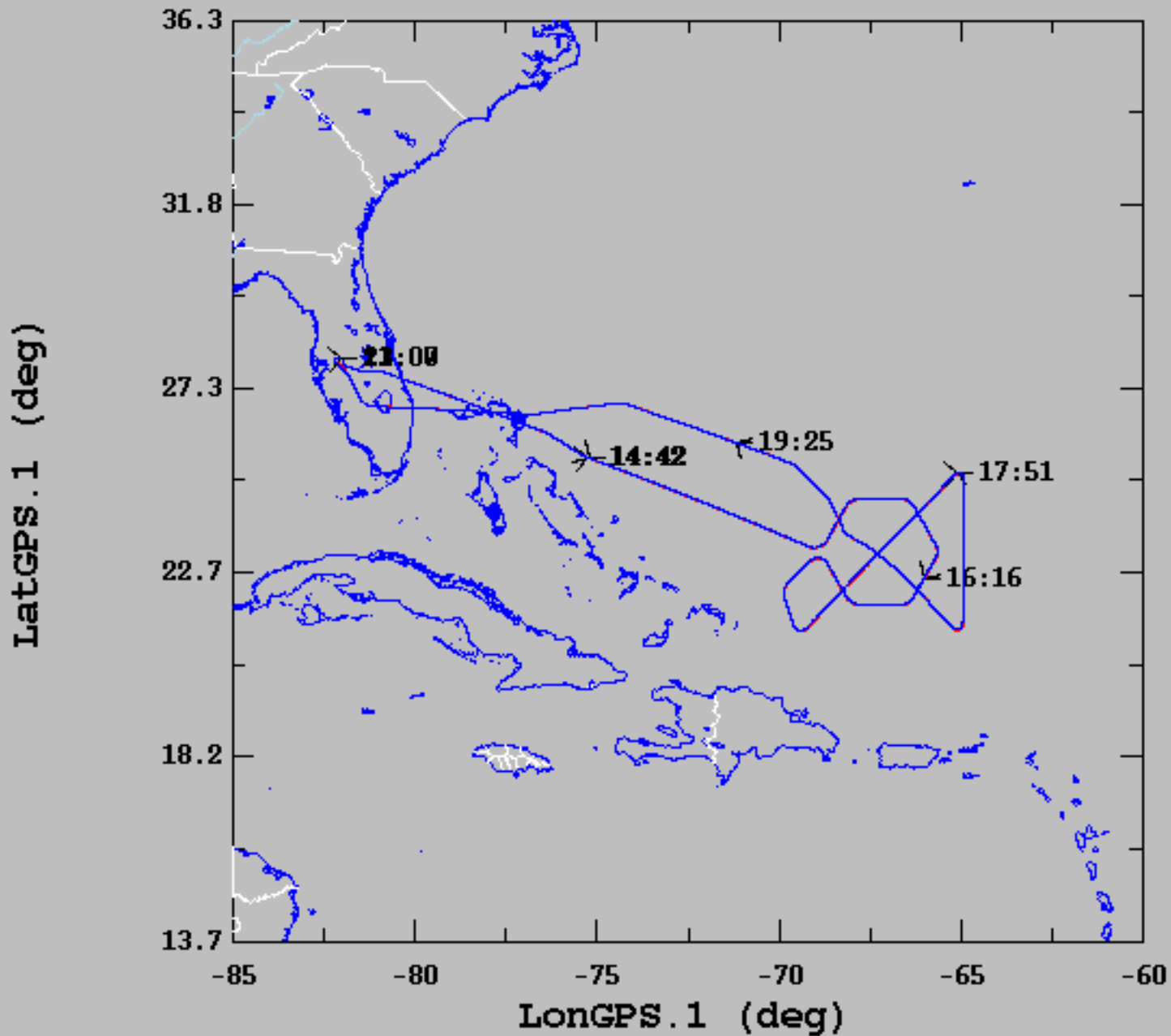
Mission ID: WCOBA FRANKLIN Team Name/Track: HRD RESEARCH PHX PG     of    

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°W)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / LOC / ASPEN Edits	KWBC #	Sonde Issues?		
1	1	153436	70957	1	23.4	68.9	CDO	1006.9	SURFACE WIND 020/24	1552	✓	F	
2		1545	---	2	---	---	NO PTH	---	---	---			
3	2	154649	70921	3	24.5	67.9	CDO	1007.4	055/32	1606	✓	F	
4	3	155322	10610	4	24.5	67.0	CDO	1006.7	080/36	1611	✓	F	
5	4	155810	30383	1	24.5	66.4	BKN	1006.2	090/33	1617	✓	F	
6	<del>5</del>	<del>161038</del>	<del>50191</del>	<del>2</del>	<del>23.2</del>	<del>65.6</del>	<del>BKN</del>	<del>1005.2</del>	<del>DEAD SONDE</del>	<del>---</del>	<del>---</del>	<del>---</del>	150/3
7		1623	---	3	---	---	NO TELEMETRY	---	---	---			
8	6	162400	10236	4	22.0	66.5	BKN	1004.8	225/16	1649	✓	F	
9	7	162556	70956	1	22.0	67.3	BKN	1004.5	260/16	1652	✓	F	
10	8	163526	60020	2	22.0	68.0	BKN	1005.3	315/25	1657	✓	F	
11	9	164048	20234	3	22.6	68.4	BKN	1004.8	335/21	1701	✓	F	
12	10	164647	40306	4	23.1	68.9	BKN	1005.5	missing data above 350	1708	✓	F 010%	
13	11	165102	20239	1	22.3	69.8	BKN	1007.6	005/24 mb	1709	✓	F	
14	12	170233	70960	2	21.7	69.7	SCT	1006.7	315/10 weak telemetry	1722	✓	F	
15	13	170654	20375	3	21.3	69.3	SCT	1006.7	325/13	1730	✓	F	
16	14	171318	40722	4	21.8	68.7	SCT	1006.3	LST WIND 19m 335/14	1742	✓	F	
17	15	172118	40641	1	22.6	68.0	CDO	1004.4	LST WIND 12m 315/16	1744	✓	F	
18	16	172929	10003	2	23.3	67.2	CENTER	994.5	LST WIND 15m 185/69	1751	✓	F	
19		1737	---	3	---	---	NO PTH	---	---	---			
20	17	173807	40302	4	24.0	66.3	CDO	1002.8	130/34	1801	✓	F	
21	18	174519	50002	1	24.7	65.6	CDO	1007.4	100/31	1817	✓	F	
22	19	175217	40124	2	25.2	64.9	BKN	1010.3	140/32	1821	✓	F	
23	20	180236	31338	3	24.0	64.9	BKN	1008.1	150/22	1834	✓	F	
24	21	181442	26235	4	22.5	64.9	OVC	1006.2	160/36	1836	✓	F	
25	22	182526	31333	1	21.3	65.0	OVC	1006.5	185/21	1910	✓	F	
26	23	183213	70708	2	21.8	65.7	OVC	1003.7	210/26	1913	✓	F	
27	24	184028	26360	3	22.6	66.4	CDO	1002.6	240/18	1915	✓	F	
28	25	184911	31216	4	23.2	67.3	CDO	994.2	210/40	1917	✓	F	
29	26	185250	30576	1	23.5	67.7	CENTER	987.1	just outside eyewall 275/48	1922	✓	F 300/7. @ 888 mb	
30	27	185736	31328	2	23.8	68.2	CDO	1001.6	010/40	1933	✓	F	
31	28	190548	40129	3	24.7	68.8	CDO	1004.3	055/23	1939	✓	F	
32	29	191349	40126	4	25.4	69.5	CDO	1006.3	055/14	1940	✓	F	
33													
34													
35													
36													
37													
38													

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

Obs Xmitted 29 Obs Missed 0 # of sondes launched 32 # of bad sondes 3

08/26/2023, 13:07:58-21:00:28



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.95	2.05	21.31	27.99
— LongGPS.1 (deg), 1 s/sec	-72.39	5.95	-82.20	-64.89
— LatI.1 (deg), 1 s/sec	24.94	2.05	21.30	28.01
— LonI.1 (deg), 1 s/sec	-72.38	5.95	-82.21	-64.89