

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220828N1	FLT #:		AC:	MANSOOR	Scientists:	Pressure		Dropsondes		
From:	TBFB	ETD:	1500	CP(s):	DeTrignet		A/C Takeoff		Good	Bad	Sent
To:	TBFB	ETA:	2300	NAV:			ASOS Takeoff		30	φ	30 30
Block Time		Flight Time		FE(s):			A/C Land		BTs		
In:	2253	Land:	2250	FD(s):	HENNING DESOLD		ASOS Land		Good	Bad	Sent
Out:	1510	T/O:	1518	SSA:	DEFED		Visitors:	Storm Number ID:			
Total:	7.7	Total:	7.5	AVAPS:	LYNCH	(ie: AL072012)					
Sponsoring Org:	HRD			SEB:		TCPOD/WSPOD Mission		NOAA9 WAWXA			
Program:	PHX			MX:		(ie: NOAA2 2418A SANDY)		AL91			
Purpose:	Survey AL91						OBSERVATIONS				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x		1				
SCIENCE MISSION WITHIN BDRY LAYER							2				
LACK OF PRECIPITATION							3				
RELATIVE HUMIDITY ≥ 80%							4				
LARGE AIR-SEA TEMP GRADIENT											
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED											
							Pennies:				

*Highlighted items must be completed before departure.

Remarks:
645

G-IV QC Checklist

Flight ID:	20220828N1
Flight Director(s)	Henning/de Solo

UWZ.d mean:	-0.12
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Pressure Comparison		
	T/O	Land
Aircraft	1007.6	1005.3
Tower	1008.0	1004.9

	Raw 1Hz Mean File Parameters					C File Parameters	
<input checked="" 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 checked="" 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 type="checkbox"/> AltRA.1			<input checked="" type="checkbox"/> ALTGA.d	
<input checked="" 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 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 type="checkbox"/> GsXGPS.3	<input type="checkbox"/> GsYGPS.3	<input 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"/> LongGPS.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"/> LongGPS.2	<input checked="" type="checkbox"/> LonI.2		<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LongGPS.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 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 checked="" type="checkbox"/>	Miscellaneous FD Notes

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

NOTES:

TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect.

AOC GPS Dropwindsonde Log (updated Mar 2019)

DE SOLO

Flight ID: 2022082Y M1

ASPEN Operator/Flight Director(s):

~~XXXXXXXXXX~~ / HENNING

Mission ID: WAWXA AL91

Storm Name/Track: HRD Research AL91

PG 1 of 1

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	160532	20147	1	12.5	-54.0	SCT	1013.5	SURFACE WINDS 080° @ 08 kts	1626	✓✓
2	2	161938	40700	2	12.4	-52.2	SCT	1012.0	045° @ 05 kts	1642	✓✓
3	3	163340	20028	3	12.2	-50.4	SCT	1012.3	360° @ 09 kts	1663	✓✓
4	4	164730	50948	4	12.1	-48.7	SCT	1011.2	335° @ 09 kts	1712	✓✓
5	5	170219	50275	1	12.0	-47.0	SCT	1010.5	345° @ 17 kts	1725	✓✓
6	6	171513	40698	2	12.0	-45.5	SCT	1009.9	260° @ 17 kts	1742	✓✓
7	7	172758	30509	3	12.0	-44.0	SCT	1009.3	225° @ 21 kts	1748	✓✓
8	8	174015	20457	4	12.1	-42.6	SCT	1009.2	225° @ 19 kts	1803	✓✓
9	9	174800	50205	1	13.0	-42.4	SCT	1009.0	200° @ 18 kts	1811	✓✓
10	10	175522	50235	2	13.9	-42.6	SCT	1008.9	190° @ 14 kts	1818	✓✓
11	11	180635	40536	3	14.0	-41.0	SCT	1007.3	195° @ 15 kts	1831	✓✓
12	12	181836	40322	4	14.0	-45.5	OVC	1007.8	090° @ 06 kts	1840	✓✓
13	13	182947	30481	1	14.1	-47.0	OVC	1009.0	010° @ 17 kts	1855	✓✓
14	14	183714	40412	2	15.0	-47.0	OVC	1008.7	035° @ 25 kts	1900	✓✓
15	15	184436	40287	3	15.9	-46.9	OVC	1009.0	040° @ 27 kts	1912	✓✓
16	16	185654	50372	4	16.0	-45.3	OVC	1009.3	080° @ 30 kts	1916	✓✓
17	17	190952	30403	1	16.0	-43.8	OVC	1009.4	065° @ 20 kts	1932	✓✓
18	18	192412	40133	2	16.0	-42.1	SCT	1010.9	085° @ 13 kts	1944	✓✓
19	19	193720	30402	3	16.1	-40.6	OVC	1011.3	100° @ 14 kts	1957	✓✓
20	20	194428	40279	4	17.0	-40.5	OVC	1012.6	080° @ 16 kts	2004	✓✓
21	21	195154	30477	1	17.9	-40.6	OVC	1013.0	060° @ 16 kts	2011	✓✓
22	22	200414	30591	2	18.0	-42.2	OVC	1013.0	065° @ 25 kts	2025	✓✓
23	23	201716	40582	3	18.0	-43.8	OVC	1013.1	070° @ 20 kts	2036	✓✓
24	24	203054	50594	4	18.0	-45.5	OVC	1012.4	065° @ 20 kts	2052	✓✓
25	25	204313	30508	1	18.0	-47.0	OVC	1013.1	055° @ 26 kts	2103	✓✓
26	26	205520	40134	2	17.0	-48.0	OVC	1012.3	035° @ 20 kts	2115	✓✓
27	27	210738	40135	3	16.0	-49.0	OVC	1012.3	035° @ 19 kts	2131	✓✓
28	28	211929	30476	4	15.0	-50.0	OVC	1011.7	035° @ 20 kts	2143	✓✓
29	29	214025	30506	1	14.5	-52.5	SCT	1011.8	045° @ 19 kts	2200	✓✓
30	30	220150	40288	2	14.0	-55.0	SCT	1012.8	065° @ 15 kts	2221	✓✓
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

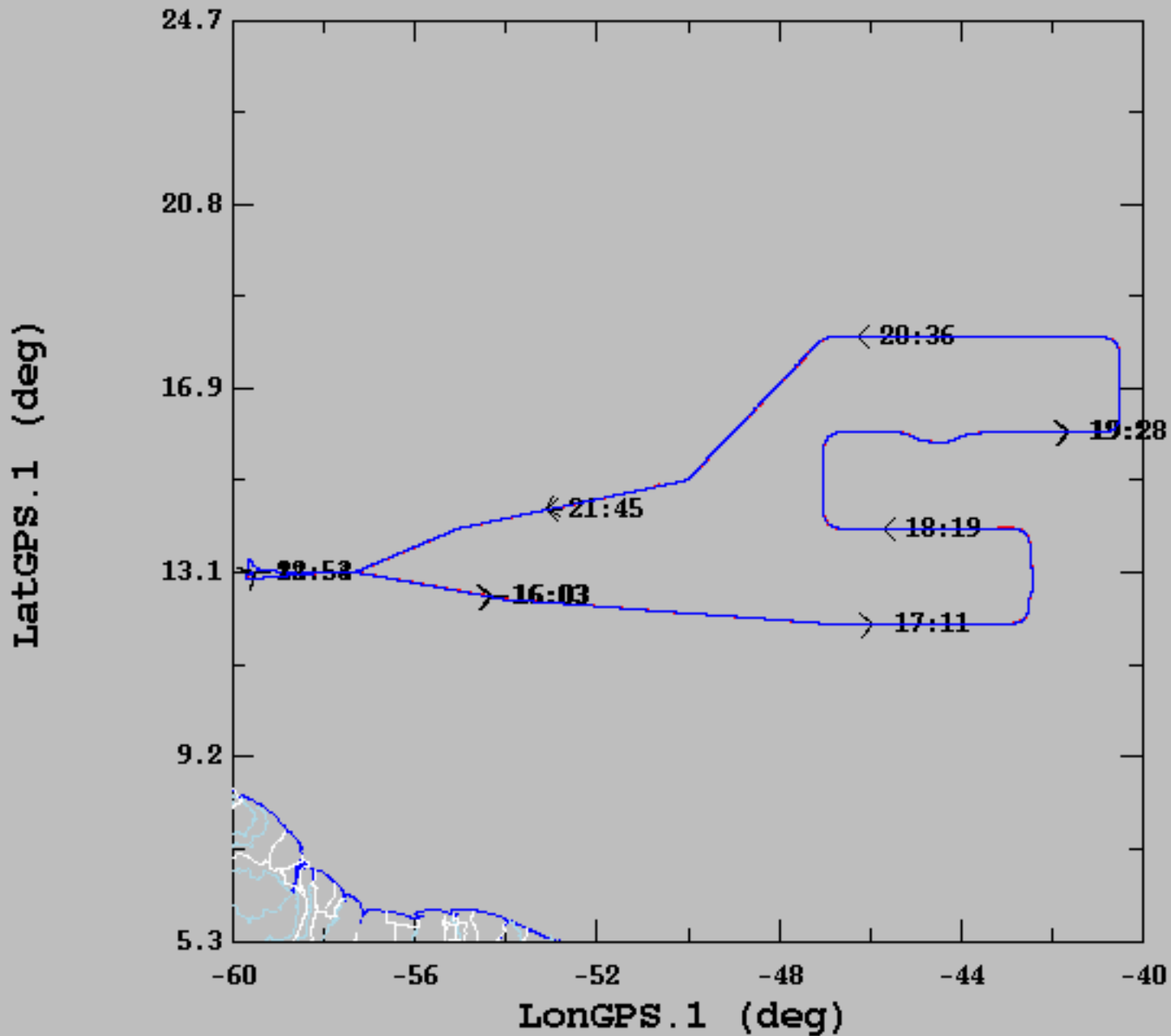
AVAPS Drop Log

Project: HURR22 Mission: AL 91 BARBADOS Flight ID: 20220828AV
 Take Off: YES Landing: YES Flt Dir: RICH Launcher S/N: 21

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	210 520 147	1	-1.7	1605	GD	NWS		✓
2	212 340 700	2	-1.2	1619				✓
3	210 620 028	3	-0.4	1633				✓
4	210 550 948	4	-1.3	1647				✓
5	212 250 275	1	0	1702				✓
6	212 340 690	2	0	1715				✓
7	210 330 509	3	-0.4	1727				✓
8	212 720 457	4	-0.8	1740				✓
9	204 850 205	1	-0.4	1748				✓
10	211 850 235	2	-0.1	1755				✓
11	210 340 536	3	-0.7	1806				✓
12	210 540 322	4	-0.9	1818				✓
13	210 330 481	1	-0.3	1829				✓
14	210 440 412	2	0	1837				✓
15	210 340 287	3	-0.5	1844				✓
16	212 750 372	4	-0.5	1856				✓
17	210 330 403	1	-0.4	1909	CFL		#17	✓
1923	210 340 133	2	-1.1	1924				✓
1937	210 330 402	3	-0.7	1937				✓
1944	210 340 279	4	-1.4	1944				✓
1951	210 330 477	1	-0.8	1951				✓
2003	211 930 591	2	-0.5	2004				✓
2016	212 340 582	3	0	2017				✓
2029	212 350 594	4	0	2030				✓
2042	210 330 508	1	-0.4	2043				✓
2054	210 340 134	2	-0.4	2055				✓
2107	210 340 135	3	-1.2	2107				✓
2119	210 330 476	4	-0.5	2119				✓
2140	210 330 506	1	-0.6	2140				✓
2201	210 340 288	2	-0.9	2201				✓
31	210 330 510	3	-0.6					

30/30

08/28/2022, 14:54:35-22:53:47



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	14.37	1.96	12.00	18.00
— LongGPS.1 (deg), 1 s/sec	-49.37	5.97	-59.68	-40.50
— LatI.1 (deg), 1 s/sec	14.37	1.96	12.00	18.00
— LonI.1 (deg), 1 s/sec	-49.37	5.97	-59.68	-40.50