

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210905N1	FLT #:		AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:		CP(s):	Varwig		A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:								36	2
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	1606Z	Land:	1604Z	FE(s):			A/C Land		Good	Bad	Sent
Out:	0842Z	T/O:	0851Z	FD(s):	Kalen		ASOS Land		-	-	-
Total:	7.4	Total:	7.2	SSA:	Defeo	Visitors:					
				AVAPS:	Greene						
Sponsoring Org:	HRD/SATS			SEB:		Storm Number ID:		AL122021			
Program:	PHX					(ie: AL072012)					
Purpose:	Research			MX:		TCPOD/WSPOD Mission		NOAA9 WA12A LARRY			
						(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 BDRY 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:

G-IV QC Checklist

Flight ID:	20210905N1
Flight Director(s)	Parrish / Kalen

Pressure Comparison		
	T/O	Land
Aircraft	1012.6	1013.8
Tower	1012.9	1012.3

UWZ.d mean:	0.05
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	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"/> AltBCADDU.2	<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"/> 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 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"/> GsGPS.2	<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 type="checkbox"/> GsGPS.3	<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"/> 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"/> 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 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:

.1 and .2 GPS parameters data "stair steps"
PDBETA.1 & PDBETA.2 unrepresentative
PQBETA.1 & PQBETA.2 unrepresentative
TTM.3 has small oscillations
TDM.1 unrepresentative
All flight level wind speed and direction suspect

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AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20210905N1

ASPEN Operator/Flight Director(s): Kalen / Parrish

Mission ID: WA12A

Storm Name/Track: Cat 3 Larry

PG ___ of ___

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	091616	20092	1	18.30	-61.99	Sct	1012.2	05019	50937	N
2	2	092722	60886	2	18.40	-60.49	Sct	1013.9	04016	50945	N
3	3	093728	30602	3	18.45	-59.14	Sct	1012.8	08023	50955	N
4	4	094748	20338	4	18.52	-57.77	Brkn	1013.1	03015	51010	N
5	5	095750	10003	1	18.56	-56.42	Sct	1012.5	06516	51017	N
6	6	100811	20135	2	18.63	-55.06	Sct	1011.0	03018	51027	N
7	7	101833	10001	3	18.64	-53.71	Ovcast	1011.1	00326	51039	N
8	-	102923	41131	4	-	-	Brkn	-	PTH Fail -> STAN Change	-	Y
9	8	103057	20120	1	18.76	-52.13	Brkn	1008.2	Backup -> HRD Change 34073	51056	N
10	9	103856	60889	2	18.85	-51.15	CDO	1004.0	33526	51059	N
11	10	104827	30661	3	19.34	-50.96	CDO	1003.1	34530	51104	N
12	11	104755	20111	5	19.84	-50.84	CDO	1003.7	10130	51115	N
13	12	105658	20137	6	20.69	-51.65	CDO	1002.7	02531	51120	N
14	13	110438	10018	7	21.31	-52.44	Ovcast	1011.4	03025	51127	N
15	14	111223	30395	8	21.93	-53.23	Sct	1013.0	03526	51130	N
16	15	111910	30460	1	22.52	-53.71	Sct	1013.9	04520	51139	N
17	16	112637	30492	2	22.51	-52.71	Brkn	1013.9	03526 / Fast Winds	51149	Y
18	-	113243	40697	3	-	-	Ovcast	-	No GPS	-	Y
19	17	113349	10013	4	23.01	-51.87	Ovcast	1014.4	Backup up -> Change HRD 06023	51156	N
20	18	114147	20136	1	23.41	-50.86	Ovcast	1014.6	04522	51209	N
21	19	115034	20036	5	23.56	-48.67	Ovcast	1014.5	07526	51212	N
22	20	115946	40802	6	23.43	-48.46	Sct	1014.6	09529	51220	N
23	21	120858	41114	2	23.01	-47.33	Sct	1014.9	08020	51231	N
24	22	121449	50397	3	22.60	-46.70	Ovcast	1015.2	10520	51235	N
25	23	122042	30601	4	22.06	-46.26	Sct	1014.9	08519	51239	N
26	24	122807	30040	1	21.46	-46.98	Sct	1013.0	08031	51247	N
27	25	123623	30471	2	20.87	-47.66	CDO	1010.5	10041	51257	N
28	26	124144	10017	3	20.46	-48.16	CDO	1007.4	09536	51306	N
29	27	125054	20134	4	19.44	-48.33	CDO	999.6	10545	51314	N
30	28	125730	20123	1	18.70	-48.45	CDO	1000.8	17563	51316	N
31	29	130249	30408	5	18.12	-48.67	CDO	1004.8	19558	51321	N
32	30	130902	20034	6	17.44	-48.39	CDO	1008.4	26029	51332	N
33	31	131600	30489	2	16.81	-47.87	Brkn	1010.3	18028	51336	N
34	32	132258	40799	3	16.12	-47.48	Sct	1012.1	18527	51343	N
35	33	133710	30394	4	16.87	-48.89	CDO	1008.9	21528	51357	N
36	34	134930	30387	1	17.80	-50.11	CDO	1004.0	24039	51414	N
37	35	135604	50380	2	18.03	-50.91	CDO	1005.7	26527	51422	N
38	36	140137	20125	3	18.45	-51.47	CDO	1005.7	Last REP / 29528	51429	N

COMMENTS:

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

Obs Xmitted
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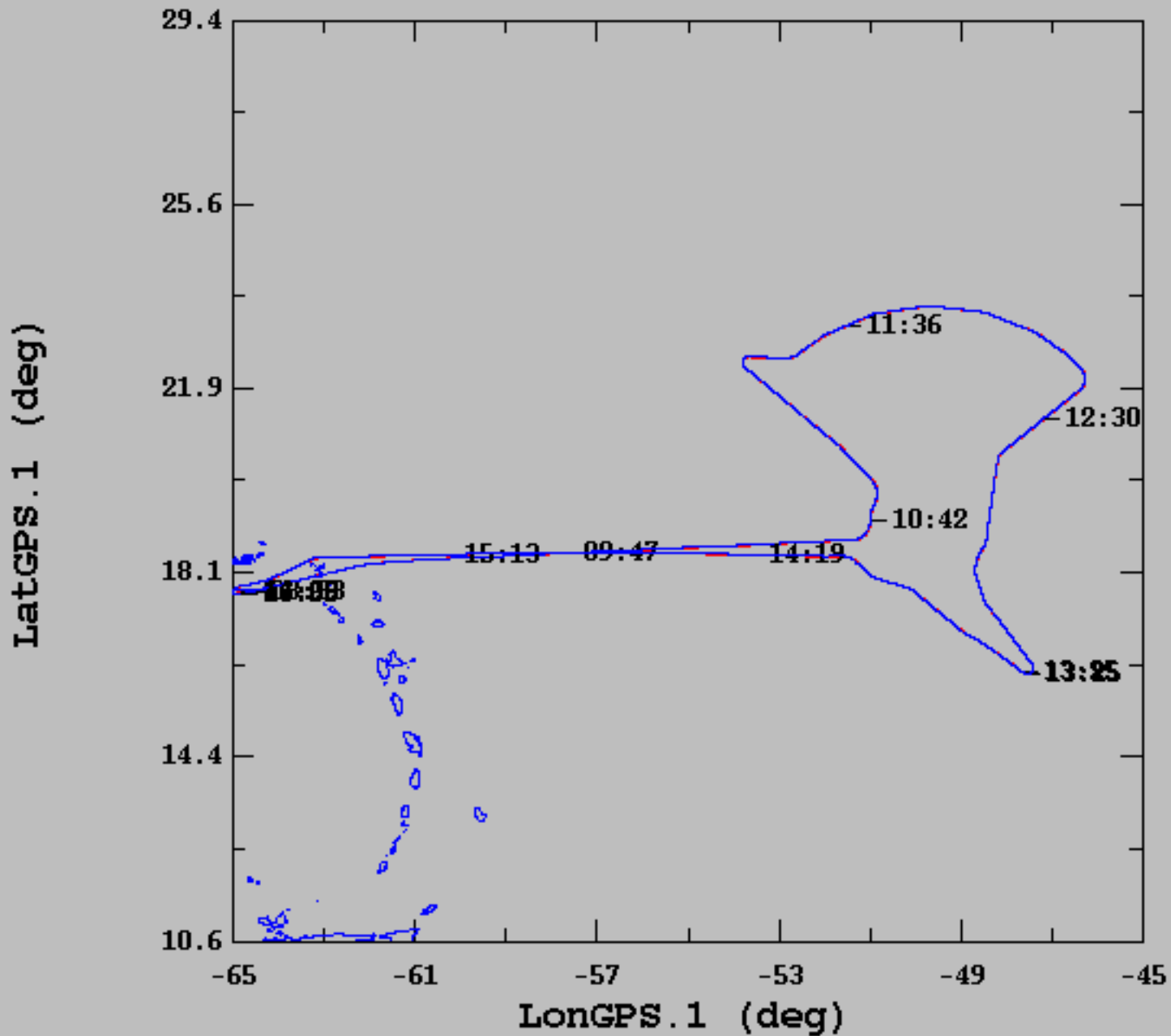
Obs Missed
0

of sondes launched
38

of bad sondes
2

B/D: 0842 Z
T/D: 0851 Z
Lnd: 1604Z
RH: 1606Z

2021-09-05, 07:59:25-16:08:02



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	19.13	1.88	16.05	23.56
— LongGPS.1 (deg), 1 s/sec	-55.46	6.19	-65.00	-46.26
— LatI.1 (deg), 1 s/sec	19.12	1.88	16.05	23.56
— LonI.1 (deg), 1 s/sec	-55.45	6.19	-64.99	-46.25