

AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen / Parrish
Phone #: 863-500-3962

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:	20210906N1	FLT #:		AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:		CP(s):	Varwig		A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:								35	0
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	2224Z	Land:	2221Z	FE(s):			A/C Land		Good	Bad	Sent
Out:	1539Z	T/O:	1545Z	FD(s):	Kalen		ASOS Land		-	-	-
Total:	6.8	Total:	6.6	SSA:	Defeo	Visitors:	Storm Number ID:		AL122021		
				AVAPS:	Greene		(ie: AL072012)				
Sponsoring Org:	HRD/SATS			SEB:			TCPOD/WSPOD Mission		NOAA9 WC12A LARRY		
Program:	PHX						(ie: NOAA2 2418A SANDY)				
Purpose:	Research			MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				x			1				
SCIENCE MISSION WITHIN BDRY 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:

G-IV QC Checklist

Flight ID:	20210906N1
Flight Director(s)	Kalen / Parrish
UWZ.d mean:	0.07

Pressure Comparison		
	T/O	Land
Aircraft	1013.3	--
Tower	1012.6	1010.2

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

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	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:

Some parameters end before landing -- Aircraft landing pressure missing from QC Checklist
 .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

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20210906 N1

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

Mission ID: 10C12A

Storm Name/Track: 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	161252	20416	1	18.9	62.0	Set low	1014.2	050/6	061630	
2	2	162126	50302	2	19.4	61.0	"	1013.6	46/8	061641	
3	3	162454	50495	3	19.9	60.0	"	1012.7	24/6.3	061648	
4	4	163828	10014	4	20.4	59.0	low low	1012.7	12/6.7	061658	
5	5	164700	10281	1	20.8	58.0	Set low	1010.9	355/8.4	061705	
6	6	165549	20432	2	21.3	57.0	edge of CDO	1009.3	12/10	061715	
7	7	170432	50552	3	21.8	55.9	2 hrs of CDO	1007	343/17.8	061723	
8	8	171322	10604	4	22.3	55.0	CDO	1007.8	336/25	061732	
9	9	171744	50549	1	22.8	54.9	CDO	1007.0	3.1/24.5	061737	
10	10	172204	20418	5	23.3	54.8	CDO	1007.6	13.3/25.2	061744	
11	11	173112	40265	2	24.2	55.6	low low	1009.8	3.1/17.2	061752	
12	12	173829	20419	6	24.8	56.4	Set low	1011.1	44/12.6	061759	
13	13	174647	40073	3	25.5	57.3	Set low	1013.4	30.1/9.5	061808	
14	14	175515	20426	4	26.2	58.1	Set low	1015.0	69/6.2	061814	
15	15	180709	10094	1	26.1	56.7	low low	1013.6	43.6/13.8	061827	
16	16	181308	40124	2	26.5	55.9	Thin CDO Set low	1013.6	60/10	061831	
17	17	182202	40426	3	26.9	54.8	"	1014.4	55/10.8	061840	
18	18	183044	40749	4	27.1	53.5	AS Deck	1014.6	61/12	061852	
19	19	183933	50529	1	26.9	52.3	CS SWD	1014.8	76/12.3	061900	
20	20	184825	40770	2	26.5	51.8	CDO	1015.2	96/9.7	061906	
21	21	185426	50297	3	26.1	50.4	CDO	1014.5	112/12.8	061913	
22	22	185958	50367	4	25.6	50.0	Above CDO	1014.9	119/11.7	061920	
23	23	190735	50518	1	25.0	50.7	"	1013.3	115/12.7	061927	
24	24	191535	50530	5	24.4	51.4	"	1010	106/14.5	061935	
25	25	192517	30570	2	23.6	52.3	low CDO	1009.3	86/19.7	061945	
26	26	193119	50294	3	22.9	52.1	"	1001.7	110/24	061950	
27	27	193752	20424	4	22.2	52.2	"	1000.1	139/25	061959	Big wind report just before
28	28	194342	20410	1	21.5	52.3	"	1001.2	158/29	062002	
29	29	194845	40772	2	20.9	52.1	"	1005.6	191/20.1	062009	
30	30	195526	40771	6	20.3	51.6	"	1008.7	175/16.5	062015	
31	31	200243	20227	3	19.7	51.0	Top of CDO	1011.0	174/13.6	062026	
32	32	200945	10096	4	20.4	52.7	"	1006.5	last winds 1750	062039	
33	33	203223	50256	1	21.1	54.0	low low CDO	999.5	266/22.8	062051	
34	34	203851	50772	2	21.6	54.7	"	997.8	287/23.9	062057	
35	35	204410	31080	3	21.9	55.2	"	1001.6	314/19.6	062104	Last report
36											
37											
38											

Last

Last

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

COMMENTS:

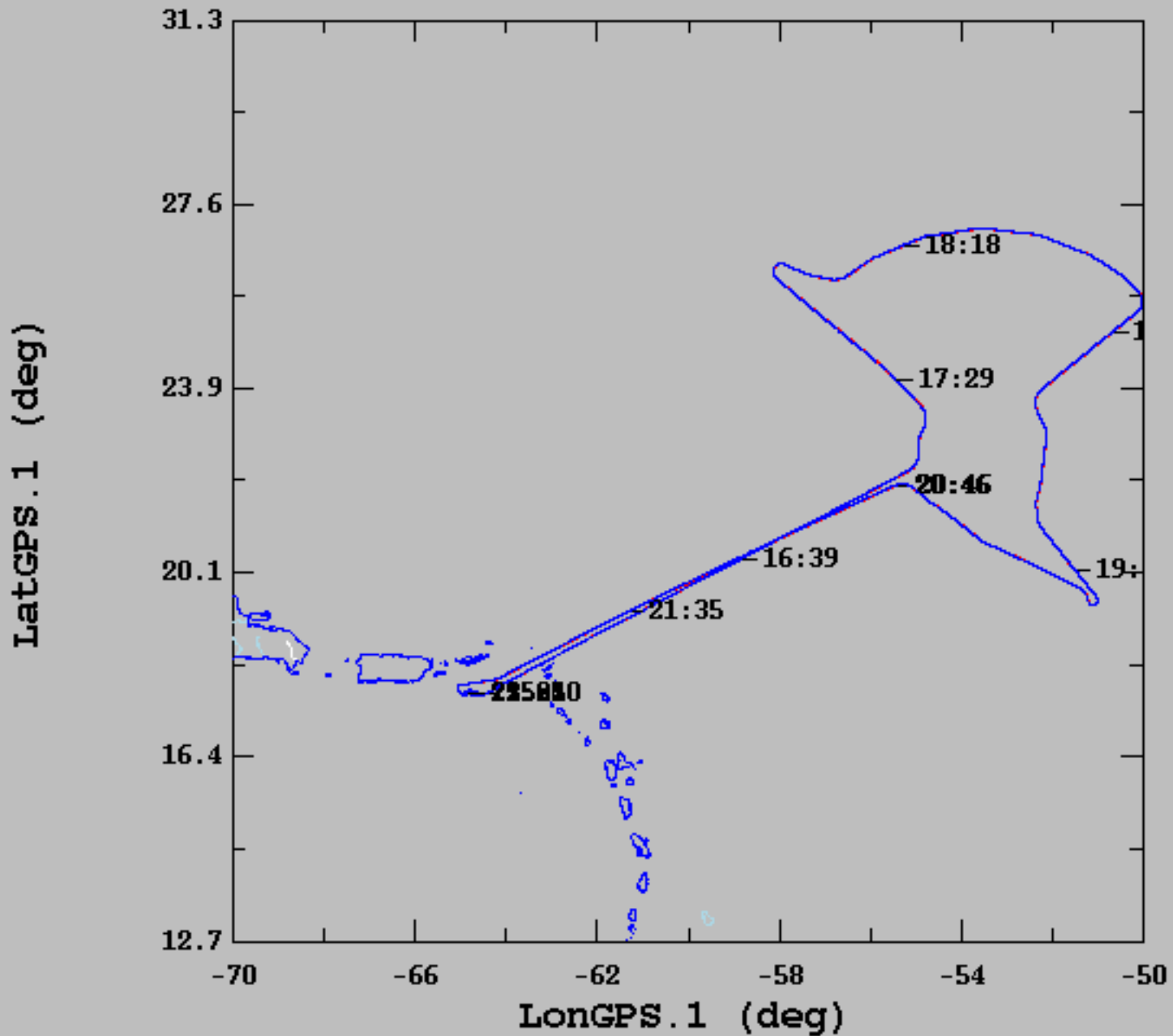
Obs Xmitted

Obs Missed

of sondes launched

of bad sondes

2021-09-06, 15:01:23-22:24:44



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.47	3.02	17.67	27.08
— LonGPS.1 (deg), 1 s/sec	-57.57	4.79	-65.04	-50.01
— LatI.1 (deg), 1 s/sec	21.48	3.02	17.67	27.07
— LonI.1 (deg), 1 s/sec	-57.56	4.78	-65.03	-50.00