

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:	20210907N1	FLT #:		AC:	Mansour	Scientists:		Pressure		Dropsondes		
From:	TISX	ETD:		CP(s):	Varwig			A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:										35
Block Time		Flight Time		NAV:				ASOS Takeoff		BTs		
In:	2158Z	Land:	2155Z	FE(s):				A/C Land		Good	Bad	Sent
Out:	1435Z	T/O:	1442Z	FD(s):	Kalen			ASOS Land		-	-	-
Total:	7.4	Total:	7.2	SSA:	Defeo	Visitors:						
				AVAPS:	Greene							
Sponsoring Org:		HRD		SEB:				Storm Number ID:		AL122021		
Program:		PHX						(ie: AL072012)				
Purpose:		Research		MX:				TCPOD/WSPOD Mission		NOAA9 WD12A 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			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:	20210907N1
Flight Director(s)	Kalen / Parrish

UWZ.d mean:	0.05
--------------------	-------------

Pressure Comparison		
	T/O	Land
Aircraft	1013.3	--
Tower	1012.6	1010.9

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

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:

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

→ 54 Coix

18 27

35/33

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20210907NL

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

Mission ID: WD12A

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	154530	10498	1	23.2	59.0	100 low	1011.0	338/19.2	071604	
2	2	155446	50056	2	24.1	58.2	Mix conv	1007.4	319/12.8	071613	
3	3	160339	50887	3	25	57.6	Undercast	1004.8	2.8/18.5	071624	
4	4	161300	10095	4	25.9	58.3	" AS	1012.2	57/11.1	071631	
5	5	162112	40055	1	26.7	59	"	1012.6	57/9.8	071641	
6	6	162846	10060	2	26.6	58	"	1011.0	60/10.7	071650	
7	7	163747	10047	3	26.5	56.8	"	1008.4	49/20.2	071657	
8	8	164653	10582	4	27.5	56.3	ht AS	1011.9	85/13.1	071706	
9	9	165450	40776	1	28.3	55.9	AS Bkn	1014.4	100/14.2	071714	
10	10	170221	41005	2	27.5	55.5	"	1012.1	88.8/14.8	071721	
11	11	171123	50851	3	26.5	55.1	CS b, b	1008.9	100/16.8	071730	
12	12	171831	31079	4	26.5	54.1	"	1011.4	111/20	071737	
13	13	172442	20219	1	26.5	53.3	"	1012.4	133/18	071744	
14	14	173059	10048	2	25.9	53.8	"	1010.4	120/21	071750	
15	15	173840	40774	3	25.1	54.3	"	1003.3	118/21.5 Saw 1st eye	071758	
16	16	174606	50867	5	24.4	53.8	"	1007.0	139/23	071806	
17	17	175211	50863	4	23.8	53.5	"	1010.3	143/16.5	071812	
18	18	175822	10055	1	23.8	54.3	"	1006.1	143/19.4	071816	
19	19	180600	40777	2	23.8	53.3	low CDO	994.6	192/32 Close to eye	071825	
20	20	181259	10057	3	23.1	55.7	"	—	—	071833	Terminale only
21	21	181920	50848	4	22.5	56.2	"	1005.7	223/17	071841	
22	—	182632	10494	1	—	—	—	—	Late launch detect		NO low lat
23	22	182638	10280	2	23.2	56.6	"	1002.7	248/20.3 backup	071847	
24	23	183326	91072	5	23.9	57.1	AS low scf	998.5	298/20	071853	
25	24	184300	20220	6	23.8	58.3	"	1006	305/13.5	071902	
26	25	185052	50953	3	23.7	59.3	AS Bkn	1009.0	308/10.3	071910	
27	26	185831	50864	4	24.4	58.7	AS + SC	1005.0	336/14.1	071919	
28	27	190819	31077	1	24.8	57.5	Over CDO	999.0	340/25	071930	
29	—	—	50850	2	—	—	↓	—	No launch detect		NO low
30	28	192226	31090	3	26.1	56.4	↓	999.0	37/27.9 backup	071942	
31	29	193309	10500	4	26.0	55.0	Top of CDO	1004.1	93.6/26.5	071954	
32	30	194615	30393	5	24.8	54.2	↓	1005.2	133/19.8	072005	
33	31	195833	50860	1	23.5	55.0	↓	1004.0	177/20.9	072018	
34	32	201033	40502	2	23.6	56.6	Top of CDO	1000	279/23.2	072030	
35	33	202237	30423	3	24.6	57.5	Carthi CDO	1000	324/25.5 Last report	072042	
36											
37											
38											

NO low lat
22
23
24
25
26
27
NO low
28
29
30
31
32
33

NO low lat
NO low

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

COMMENTS:

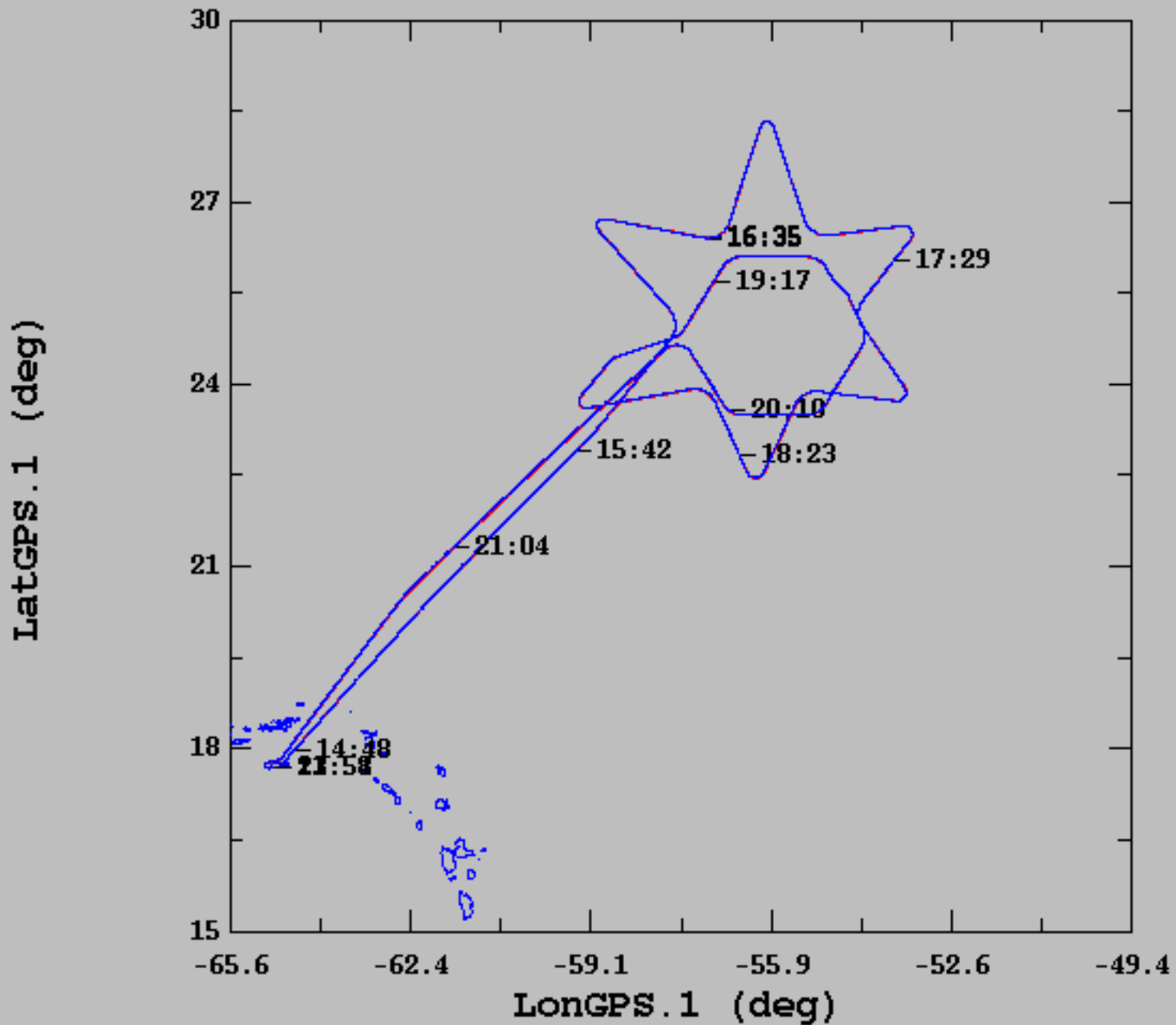
Obs Xmitted

Obs Missed

of sondes launched

of bad sondes

2021-09-07, 13:54:32-21:58:28



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	22.97	3.04	17.69	28.32
— LonGPS.1 (deg), 1 s/sec	-58.87	3.62	-64.99	-53.31
— LatI.1 (deg), 1 s/sec	22.97	3.04	17.68	28.32
— LonI.1 (deg), 1 s/sec	-58.87	3.62	-64.99	-53.31