

N49RF ERROR SUMMARY
20201025N1

Flight ID: 20201025N1

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
Dewpoint Temp. Probe	TDM.2
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2020/MET/20201025N1

Local Met Data	Takeoff KLAL (1732Z)	Landing KLAL (0056Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		5.05753
AttackAngleSlope2	5.52397	
SlipAngleIntercept2		0.931
SlipAngleSlope2		6.57562

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

PQBETA.1 unrepresentative at 21:05 and for remainder of flight

TTM.1 has large spike from 21:03 to 22:19

TDM.1 unrepresentative from 7:32 to 19:46

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	36	32	32
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Parrish / Kalen

Phone #: 863-500-3985

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20201025N1	FLT #:		AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1730Z	CP(s):	Nardi		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0130Z								
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	0102	Land:	0056	FE(s):			A/C Land		Good	Bad	Sent
Out:	1725	T/O:	1733	FD(s):	Parrish	Visitors:	ASOS Land				
Total:	0.0 7.6	Total:	0.0 7.4	SSA:	Defeo						
Sponsoring Org:		NHC		AVAPS:	Hartberger <i>[Signature]</i>		Storm Number ID:		AL282020		
Program:		Surveillance		SEB:			(ie: AL072012)				
Purpose:		TS Zeta #1		MX:			TCPOD/WSPOD Mission		NOAA9 0428A ZETA		
							(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							Pennies:				
*Highlighted items must be completed before departure.											
Remarks:											

G-IV QC Checklist

Flight ID:	20201025N1
Flight Director(s)	Parrish / Kalen

UWZ.d mean:	0.14
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Pressure Comparison		
	T/O	Land
Aircraft	1007.5	1009.9
Tower	1008.0	1009.2

	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:
<p>PQBETA.1 unrepresentative at 21:05 and for remainder of flight</p> <p>TTM.1 has large spike from 21:03 to 22:19</p> <p>TDM.1 unrepresentative from 7:32 to 19:46</p>

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AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 220107511

ASPEN Operator/Flight Director(s): Kavan / Purditt

Mission ID: 102449 0428A

Storm Name/Track: Zeta

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	175819	40502	1	27.79	-78.95	TS	1012.2	19525	51820	N
2	2	180927	20523	2	26.49	-79.00	Ovcast	1012.7	18020	51836	N
3	3	182623	30144	3	24.48	-79.48	Ovcast	1012.0	13016	51848	N
4	4	183733	40265	4	23.14	-78.92	Ovcast	1010.5	11017	51858	N
5	5	185045	20744	1	22.39	-77.23	Ovcast	1010.0	12011	51908	N
6	6	190454	20831	2	21.68	-75.39	Clr	1010.7	11514	51926	N
7	7	192032	20827	3	20.13	-73.97	Clr	1010.9	15508	51941	N
8	8	193104	40287	4	19.50	-75.01	Ovcast	1011.1	11011	51955	N
9	9	195256	30147	1	19.38	-77.58	Ovcast	1009.9	68016 / FLW Bad	52013	N
10	-	-	50440	2	-	-	-	-	No Launch Detect	-	Y
11	10	200853	30537	3	20.63	-79.10	Ovcast	1009.2	12521	52028	N
12	-	202216	20788	4	-	-	-	-	No Launch Detect	-	Y
13	11	202237	20838	1	21.04	-80.66	Ovcast	1008.1	09527	52050	N
14	12	203047	40385	2	21.17	-81.70	Ovcast	1006.4	14616	52056	N
15	-	204720	20839	3	-	-	-	-	Fast Fall	-	Y
16	13	204822	40501	4	19.40	-82.79	Ovcast	1004.1	12523 / FLW Bad	52107	N
17	14	205552	50966	1	18.52	-82.51	Ovcast	1004.3	14626 / FLW Bad	52116	N
18	15	210337	51123	2	17.71	-82.95	CDO	-	- / Died Early / RH Late	52127	Y
19	16	211307	40298	3	16.74	-82.35	CDO	1005.5	21024 / FLW Bad	52134	N
20	-	-	30153	4	-	-	-	-	NLD	-	Y
21	17	212401	20836	1	17.30	-81.20	CDO	1005.9	16024 / FLW Bad	52147	N
22	18	213341	30216	2	16.25	-80.62	CDO	1006.6	18015	52200	N
23	19	214558	40404	3	15.20	-81.71	CDO	1006.4	16510 / FLW Bad	52212	N
24	20	215950	30171	4	15.61	-83.33	CDO	1005.2	19510	52220	N
25	21	221108	40252	1	16.55	-84.30	CDO	1004.2	26531	52231	N
26	22	221935	50484	2	17.2	-85.05	CDO	1004.6	27527	52239	N
27	23	222930	40355	3	16.32	-85.88	CDO	1005.7	27528	52249	N
28	24	223911	40233	4	17.20	-86.59	CDO	1006.0	30020	52258	N
29	25	225226	30206	1	18.52	-85.71	CDO	1003.5	35519	52314	N
30	26	230519	30144	2	19.81	-86.59	Undrcst	1005.8	00516 / FLW Bad	52328	N
31	27	231443	50551	3	20.67	-85.85	Undrcst	1005.5	04511	52335	N
32	28	232605	20330	4	19.71	-84.93	CDO	1004.2	07021 / FLW Bad	52350	N
33	29	233555	40227	1	20.24	-83.85		1006.1	08520 / FLW BAD	52357	N
34	30	234653	40401	2	21.36	-84.58		1002.1	01004	60006	N
35	31	000557	40088	3	23.55	-83.69		1009.7	05505	60027	N
36	32	002447	40136	4	25.51	-82.26		1011.8	05513 / LAST REPORT	60043	N
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COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

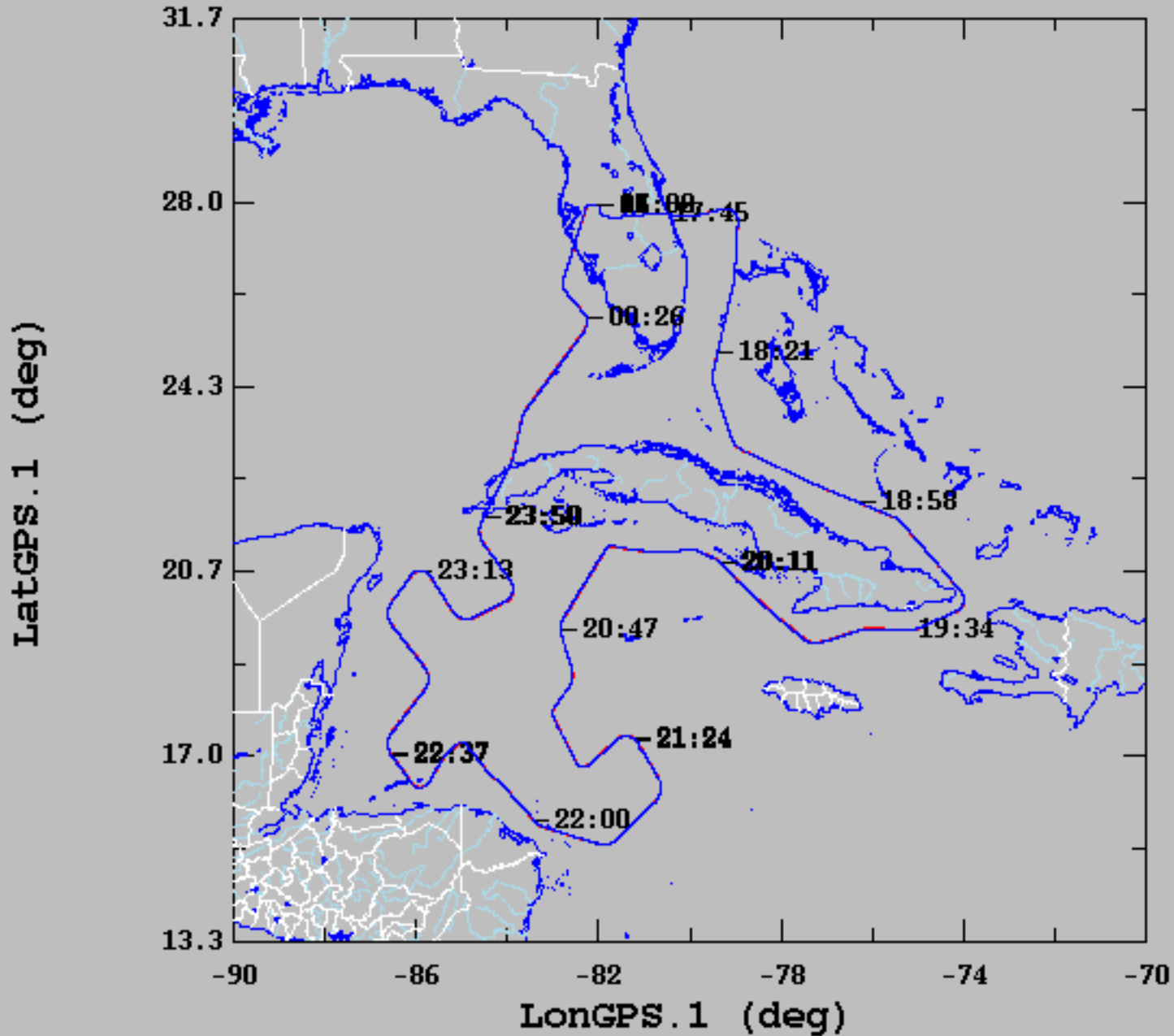
Obs Xmitted

Obs Missed

of sondes launched

of bad sondes

2020-10-25, 16:32:22-25:03:09



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.95	4.14	15.18	27.99
— LongGPS.1 (deg), 1 s/sec	-81.50	3.07	-86.60	-73.97
— LatI.1 (deg), 1 s/sec	21.95	4.14	15.18	27.99
— LonI.1 (deg), 1 s/sec	-81.50	3.08	-86.60	-73.96