

N49RF ERROR SUMMARY

Flight ID: 20201107N1

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.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2020/MET/20201107N1

Local Met Data	Takeoff KLAL (0523Z)	Landing KLAL (1318Z)
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.

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

Flight Director: Henning / Kalen
Phone #: 863-500-3982

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20201107N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0530z	CP(s):	Norman		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1330z							31	2
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	1324	Land:	1318	FE(s):					Good	Bad	Sent
Out:	0514	T/O:	0524	FD(s):	Henning	Visitors:	A/C Land				
					Kalen						
Total:	8.2	Total:	7.9	SSA:	Defeo		ASOS Land				
Sponsoring Org:	NHC			AVAPS:	Underwood		Storm Number ID:		AL292020		
Program:	PHS			SEB:			(ie: AL072012)				
Purpose:	TS ETA			MX:			TCPOD/WSPOD Mission		NOAA9 0929A ETA		
							(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							2				
LACK OF PRECIPITATION							3				
RELATIVE HUMIDITY ≥ 80%							4				
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED											
							Pennies:				

*Highlighted items must be completed before departure.

Remarks:

G-IV QC Checklist

Flight ID:	20201107N1
Flight Director(s)	Henning / Kalen

UWZ.d mean:	0.16
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Pressure Comparison		
	T/O	Land
Aircraft	1012.0	1012.7
Tower	1011.9	1012.1

	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 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"/> 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:
TDM.1 unrepresentative for duration of flight

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20201107N1

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

Mission ID: NOAA9 0929A

Storm Name/Track: Tropical Depression Eta

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	054415	41187	1	27.88	-83.89		1015.7	06524	70605	N
2	2	060124	11615	2	26.07	-84.12		1012.8	07028	70621	N
3	3	061639	20240	3	26.10	-85.90		1011.5	07032	70637	N
4	4	063120	10361	4	27.91	-86.12		1014.8	07525	70657	N
5	5	064629	41188	1	27.99	-88.01		1013.6	08021	70717	M
6	6	070124	10461	2	27.89	-89.89		1014.4	06022	70724	N
7	7	071636	30132	3	26.08	-89.87		1012.6	07022	70737	N
8	8	072927	10494	4	25.89	-88.09		1011.9	07526	70751	N
9	9	074611	10508	1	23.98	-88.00		1010.3	07026	70823	N
10	10	075916	10451	2	22.49	-87.96		1007.6	04006	70827	N
11	11	081322	30338	3	20.27	-85.97		1005.7	05512	70844	N
12	12	084147	10505	4	18.46	-86.89		1004.8	00516	70906	N
13	13	085812	10462	1	16.71	-86.25		1004.3	27023	70918	N
14	14	091612	10510	2	16.04	-84.20		1004.8	25523	70936	N
15	15	092721	10454	3	16.11	-82.59		1003.7	26523	70952	N
16	16	094320	10458	4	16.84	-81.09		1004.2	16522	71003	N
17	17	095645	41163	1	18.10	-80.06		1004.6	11519	71019	N
18	18	100902	10459	2	19.52	-79.47		1007.1	11917	71035	N
19	19	101617	10493	3	19.59	-80.11		1006.5	12622	71042	N
20	—	—	20923	4	—	—	—	—	N L D	—	Y
21	20	103059	41248	1	17.88	-80.13		1004.8	13520	71051	N
22	21	104433	10499	2	17.31	-81.64		1003.6	18527	71106	N
23	22	105520	50999	3	16.98	-82.89		1003.9	23024	71116	N
24	23	110120	10456	4	17.37	-83.45		1002.6	25530	71126	N
25	24	111508	40047	1	18.55	-84.57		1004.1	02510	71136	N
26	25	112410	10455	2	17.72	-84.97		1005.2	03511	71147	N
27	26	113307	10504	3	20.76	-84.51		1004.8	06011	71154	N
28	27	114024	10509	4	21.24	-83.77		1005.5	07518	71202	N
29	28	115339	10498	1	21.75	-85.26		1006.4	05519	71214	N
30	29	121038	30143	2	23.75	-85.75		1016.0	08524	71234	N
31	30	122351	21470	3	23.84	-83.94		1008.2	07027	71245	N
32	—	123649	10452	4	—	—	—	—	FAST FALL	—	Y
33	31	123833	10372	1	24.35	-92.00		1011.0	06035 / LAST REPORT	71258	N
34											
35											
36											
37											
38											

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

COMMENTS:

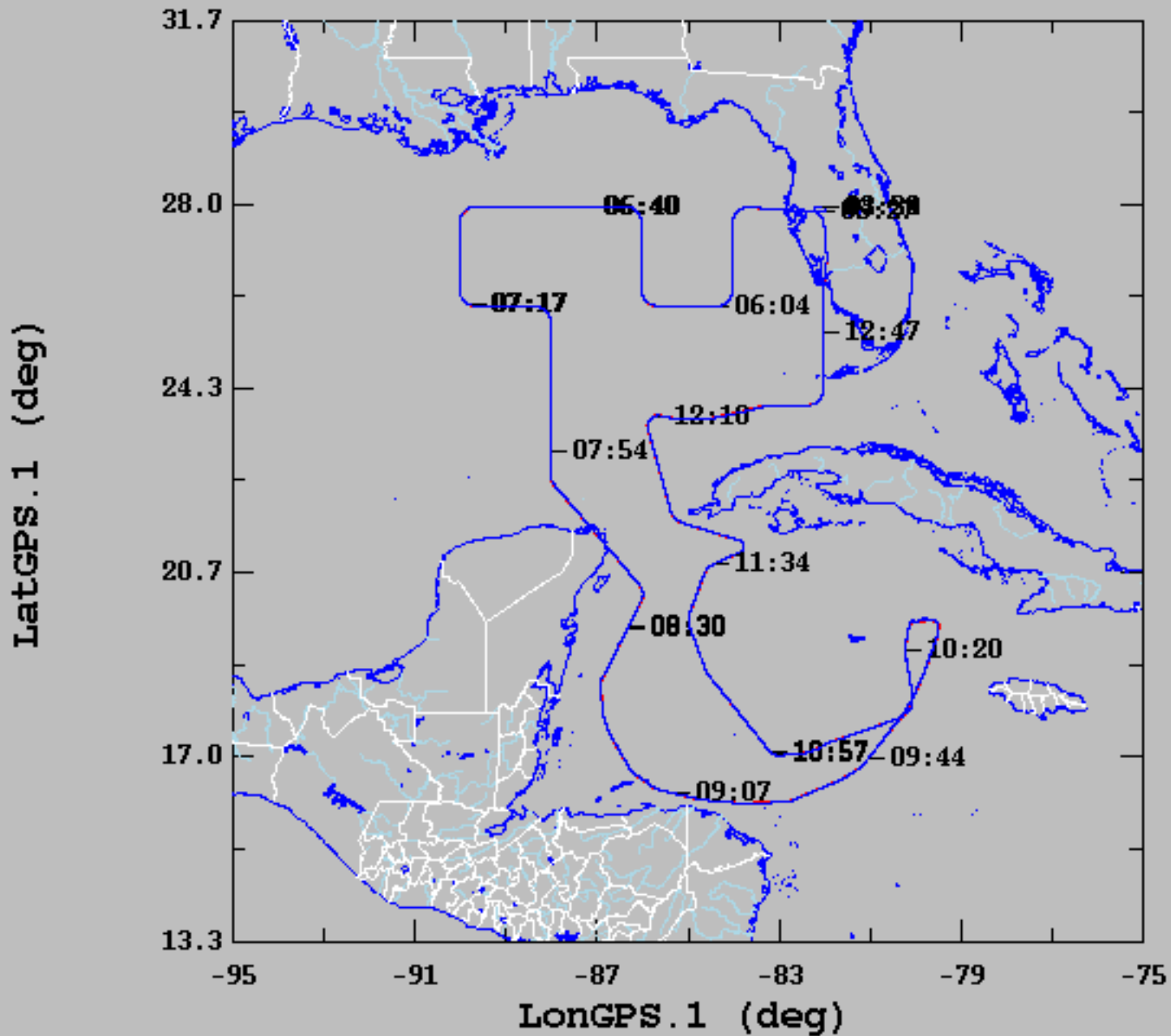
Obs Xmitted

Obs Missed

of sondes launched

of bad sondes

2020-11-07, 04:50:56-13:24:12



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	22.73	4.26	16.03	28.00
— LonGPS.1 (deg), 1 s/sec	-84.39	2.72	-90.00	-79.46
— LatI.1 (deg), 1 s/sec	22.73	4.26	16.03	28.00
— LonI.1 (deg), 1 s/sec	-84.39	2.72	-90.00	-79.46