

N43RF ERROR SUMMARY  
20201007I1 - 1226A Delta

Flight ID: 20201007I1

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZfilterI-
GPS.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/20201007I1
Local Met Data	Takeoff KLAL (0139Z) Landing KLAL (0529Z)
Dynamic Corrections	Yes
AttackAngleIntercept	0.131251
AttackAngleSlope	6.02327
SlipAngleIntercept	0.23
SlipAngleSlope	7.02537

---

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.

See QC Checklist for more comments

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	18	18	18
Test sondes	0	0	0
AXBTs	2	2	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry  
Phone #: 863-500-3898

ACAT-4 Version = 7.3

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2020100711	FLT #:	1	AC:	Rossi	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1730	CP(s):	Doremus		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	200		Rannenberg				<b>18</b>	<b>0</b>	<b>18</b>
Block Time		Flight Time		NAV:	Freeman		ASOS Takeoff		BTs		
In:	05:36	Land:	05:30	FE(s):	LaLonde				A/C Land		Good
Out:	<b>21:34</b>	T/O:	<b>21:43</b>	FD(s):	Lundry	ASOS Land		<b>2</b>			<b>0</b>
Total:	<b>8.0</b>	Total:	<b>7.8</b>	SSA:	Richards			Visitors:	Storm Number ID: (ie: AL072012)		
Sponsoring Org:	NWS/NHC			AVAPS:	McAlister	Rogers	AL262020				
Program:	PRX			SEB:							NOAA3 1226A
Purpose:				MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS						Fix Number
VOLCANIC ASH				x			<b>1</b>				
SCIENCE MISSION WITHIN BDRY LAYER				x			<b>2</b>				
LACK OF PRECIPITATION				x			<b>3</b>				
RELATIVE HUMIDITY ≥ 80%			x				<b>4</b>				
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			<b>Pennies:</b>	3 HURR Pennies			
							*Highlighted items must be completed before departure.				
Remarks:											

## P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
--------------------	---

Flight ID:	2020100711
Flight Director(s):	Lundry
Mission:	Tasked/Operational
UWZ.d mean:	0.04

Pressure Comparison		
	T/O	Land
Aircraft	1009.1	
Tower	1009.4	TOWER DATA N/A

2143                      531

	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-GPS.1 <input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI.1 <input checked="" type="checkbox"/> AccAYI.2 <input checked="" type="checkbox"/> AccAYI-GPS.1 <input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI.1 <input checked="" type="checkbox"/> AccAZI.2 <input checked="" type="checkbox"/> AccAZI-GPS.1 <input checked="" type="checkbox"/> AccAZI-GPS.2	<input checked="" type="checkbox"/> AccZfilter-GPS.1 <input checked="" type="checkbox"/> AccZfilter-GPS.2		<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"/> AltGPS.4	<input checked="" type="checkbox"/> AltI-GPS.1 <input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltPaADDU.1 <input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.1 <input checked="" type="checkbox"/> AltRA.2		<input checked="" type="checkbox"/> ALTref <input checked="" type="checkbox"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d	<input checked="" type="checkbox"/> AltRA1.c <input checked="" type="checkbox"/> AltRA2.c
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1 <input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.1 <input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.1 <input checked="" type="checkbox"/> GsZI-GPS.2			<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"/> LatGPS.4	<input checked="" type="checkbox"/> LatI-GPS.1 <input checked="" type="checkbox"/> LatI-GPS.2	<input checked="" type="checkbox"/> LonGPS.1 <input checked="" type="checkbox"/> LonGPS.2 <input checked="" type="checkbox"/> LonGPS.3 <input checked="" type="checkbox"/> LonGPS.4	<input checked="" type="checkbox"/> LonI-GPS.1 <input checked="" type="checkbox"/> LonI-GPS.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"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.1 <input checked="" type="checkbox"/> PQM.2 <input checked="" type="checkbox"/> PQM.3 <input checked="" type="checkbox"/> PQM.4	<input checked="" type="checkbox"/> PSM.1 <input checked="" type="checkbox"/> PSM.2 <input checked="" type="checkbox"/> PTM.1		<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"/> IasADDU.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 type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.1 <input checked="" type="checkbox"/> PitchRateI.2 <input type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <input type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.1 <input checked="" type="checkbox"/> RollRateI.2 <input 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 checked="" type="checkbox"/> TTM.2 <input type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 <input checked="" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <input type="checkbox"/> TRadU.1			<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 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><b>B and F file</b></p> <p>Tdm2 issue part way through, Tdm.1 looked ok</p>

# AVAPS Drop Log

Project: 2020 Hurricane Season

Mission: Hurricane  $\Delta$

Flight ID: 20201007I1

Take Off: \_\_\_\_\_

Landing: \_\_\_\_\_

Fit Dir: A. Laundry

Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	201450439	1	-0.5	2347	MAC		IP1	
2	201440504	2	-0.5	2356			1st MID IN	
3	201430152	3	-1.1	0007			1st Center	
4	194920537	4	-0.5	0016			1st MID OUT	
5	201650599	5	-0.9	0024			1st END PT	
6	201520905	6	-0.3	0202			IP2	
7	201620138	7	-0.4	0212			2nd MID IN	
8	202241441	8	-0.2	0216			2nd MID IN RMW	
9	201730223	1	-0.3	0223			2nd <del>IN</del> OUT RMW	
10	201510647	2	-0.4	0228			2nd MID OUT	
11	201520927	3	-0.3	0237			2nd END PT	
12	201520937	4	-0.3	0251			IP3	
13	202330417	5	-0.3	0259			3rd MID IN	
14	201450557	6	$\emptyset$	0306			3rd IN RMW	
15	201450398	7	-0.5	0308			3rd Center	
16	201730226	8	-0.3	0316			3rd OUT RMW	
17	202241510	1	$\emptyset$	0322			3rd MID OUT	
18	201520138	2	-0.2	0333			3rd END PT	
19	<del>201440492</del>	<del>8</del>	<del>0.4</del>					
20		4						
21		5						
22		6						
23		7						
24		8						
25		1						
26		2						
27		3						
28		4						
29		5						
30		6						
31		7						

CH12 28C log00000 TRK 002 03222  
 CH14 28C log00000 TRK 002 03222

AOC GPS Dropwindsonde Log

Flight ID	2020100711	ASPEN Operator/Flight Director(s)	Dunion (Aspen-Ground) / Lundry (FD)										
Mission ID	NOAA3 1226A	Storm Name/Track	Hurricane Delta										
Sonde #	Ob#	Launch Time HHMMSS(Z)	Sonde ID (last 5)	Ch #	Lat	Lon	Prominent Wx Cond	SFC Wind (dir/spd)	SFC Prs (mb)	Comments/Issues/QC/ASPEN Edits	KWBC #	P-3 Ob#	Sonde Issues?
1	1	234727	50439	1	23.3402	91.0100	NW (IF)	025/38	1001.2	set end at 216.25 s	080001	1	post splash data
2	2	235629	40504	2	22.9314	90.5609	NW-Ctr Mid	025/40	995.9	ged 209.00-209.25s (0 sats), set end at 210.2	080009	2	post splash data
3	3	000727	30152	3	22.3192	90.1891	Center #1	120/18	975.0	set end at 230.75s, flagged FL RH	080018	3	post splash data
4	4	001621	20537	4	21.9158	89.7588	Ctr-SE Mid	220/52	993.3		080038	4	
5	18	002428	50599	5	21.5328	89.3452	SE WP	230/27	1009.9	rash, not available for processing until end of flight, LAST REPO		18	
6	5	020253	20905	6	22.9178	89.3363	ENE WP	125/34	1001.4	set end at 227.00 s	080258	5	post splash data
7	6	021216	20138	7	22.7430	90.0480	ENE-Ctr Mid	115/47	992.7	set end at 224.00 s, flagged FL RH	080301	6	post splash data
8	7	021626	41441	8	22.6484	90.3473	ENE RMW	110/66	979.5	EYEWALL 90 (E)	080305	7	late launch defect
9	8	022328	30223	1	22.4649	90.8081	WSW RMW	315/57	981.5	EYEWALL 270 (W), set end at 223.00 s	080314	8	post splash data
10	9	022842	10647	2	22.3669	91.1872	Ctr-WSW Mid	335/42	994.7	set end at 222.25 s, flagged FL RH	080317	9	
11	10	023751	20927	3	22.2049	91.8403	WSW WP	315/27	1001.4	set end at 221.75 s	080320	10	post splash data
12	11	025106	20937	4	21.4922	91.1903	SSW WP	280/29	1001.5	flagged FL RH	080326	11	
13	12	025927	30417	5	21.9668	91.0525	SSW-Ctr Mid	280/34	995.6	flagged FL RH	080331	12	
14	13	030640	50557	6	22.4202	90.8111	SSW RMW	270/32	975.0	EYEWALL 180 (S), flagged FL RH	080336	13	
15	14	030825	50398	7	22.5329	90.7679	Center #2	025/3	976.4	set end at 208.25 s	080346	14	post splash data
16	15	031626	30226	8	22.8478	90.6639	NNE RMW	065/70	978.3	EYEWALL 0 (N)	080354	15	
17	16	032211	41510	1	23.2124	90.5584	Ctr-NNE Mid	060/56	993.5	set end at 220.50 s, flagged FL RH	080401	16	post splash data
18	17	033313	20130	2	23.9061	90.3602	NNE WP (FP)	090/36	1002.1	flagged FL RH	080413	17	



Baton Rouge

Lafayette

New Orleans

Tallahassee

Jacksonville

Gainesville

Spring Hill

Orlando

Tampa

Florida

Palm Bay

Port St. Lucie

Cape Coral

Fort Lauderdale

Miami

Golfo de México

Mérida

Cancún

Yucatán

Playa del Carmen

La Habana

Cárdenas

Pinar del Río

Matanzas

Isla de la Juventud

Villa Clara

Cienfuegos

Cuba