

N43RF ERROR SUMMARY
20200802I2

Flight ID: 20200802I2

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.2
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/20200802I2
Local Met Data	Takeoff KLAL (2040Z) Landing KLAL (0015Z)
Dynamic Corrections	Yes
AttackAngleIntercept	0.122351
AttackAngleSlope	6.0273
SlipAngleIntercept	0.214857
SlipAngleSlope	7.10815

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.

GPS.4 unavailable. PitchI.3 and RollI.3 unavailable. TTM.3 inoperative. TDM.1 persistent warm bias. TDM.2 multiple failures throughout flight. TDM.3 inoperative. TRadU.1 inoperative. Due to multiple failures in TDM.2, moisture quantities remain questionable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	12	11	11
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter / Holmes
Phone #: 863-500-3901

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:	2020080212	FLT #:	20-62	AC:	Abitbol	Scientists:		Pressure		Dropsondes		
From:	KLAL	ETD:	2100Z	CP(s):	Mitchell			A/C Takeoff	1005.5	Good	Bad	Sent
To:	KLAL	ETA:	0200Z		Rannenberg							11
Block Time		Flight Time		NAV:	Richards/B			ASOS Takeoff	KLAL 2050Z 1006.3 mb	BTs		
In:	0:21	Land:	0:15	FE(s):	Darby			A/C Land	1005.1	Good	Bad	Sent
Out:	20:32	T/O:	20:41	FD(s):	Lalonde			ASOS Land	KLAL 2350Z 1005.9 mb	0	0	0
Total:	3.8	Total:	3.6	SSA:	Mascaro	Visitors:						
Sponsoring Org:		EMC		AVAPS:	Underwood			Storm Number ID:		AL092020		
Program:		PRX		SEB:				(ie: AL072012)				
Purpose:		TDR Mission #6 TS Isaias		MX:				TCPOD/WSPOD Mission		NOAA3 2009A ISAIAS		
								(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:	3 TS Pennies			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Flight ID:	2020080212
Flight Director(s):	Carpenter / Holmes
UWZ.d mean:	0.04

Pressure Comparison		
	T/O	Land
Aircraft	1005.5	1005.1
Tower	KLAL 2050Z 1006.3 mb	KLAL 2350Z 1005.9 mb

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 X AltGPS.4	✓ AltI-GPS.1 ✓ AltI-GPS.2	✓ AltPaADDU.1 ✓ AltBCADDU.1	✓ AltRA.1 ✓ AltRA.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	✓ AltRA1.c ✓ AltRA2.c
✓ Ground Speed	✓ GsXI-GPS.1 ✓ GsXI-GPS.2	✓ GsYI-GPS.1 ✓ GsYI-GPS.2	✓ GsZI-GPS.1 ✓ GsZI-GPS.2		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3 X LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 X LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDLAPHAref ✓ PDBETAref ✓ PQALPHAref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ lasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 X PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	X TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d ✓ DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:	
✓	Error Summary
✓	Crew Manifest
✓	QC Checklist
✓	Dropwindsonde Log(s) - AVAPS and FD if completed
✓	Flight Track
X	Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>GPS.4 unavailable.</p> <p>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 inoperative.</p> <p>TDM.1 persistent warm bias and TDM.2 multiple failures throughout mission. TDM.3 inoperative.</p> <p>TRadU.1 unavailable.</p>

AVAPS Drop Log

Project: 2020 Hurricanes Mission: Isidore Flight ID: 20200802I2
 Take Off: 2041Z Landing: _____ Flt Dir: Carpenter Launcher S/N: 2

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	191930452	1	-0.5	2113Z	NGU	NWS	Center #1, late ^{wind}	✓
2	193430744	2	-0.6	2130Z			MP, OB, did early	X
3	192221133	3	0.0	2141Z			EP, OB	✓
4	193551278	4	-0.7	2209Z			EP, IB	✓
5	193430732	5	-0.6	2221Z			MP, IB, late RH	✓
6	194941036	6	-1.0	2236Z			Center #2	✓
7	192310203	7	-0.7	2245Z			MP, OB	✓
8	193421053	8	0.0	2259Z			EP, OB	✓
9	191930446	1	0.0	2324Z			EP, IB, late RH	+✓
10	195021040	2	-1.0	2325Z			EP, IB, late RH	X
11	195021064	3	-0.5	2335Z			MP, TB	✓
12	195030240	4	0.0	2345Z			Center #3	✓
13								
14								
15								
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22								
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31								

20062
 3.8 11/12

NOAA P-3 GPS Dropwindsonde Scientist Log (MS Word version 2020)

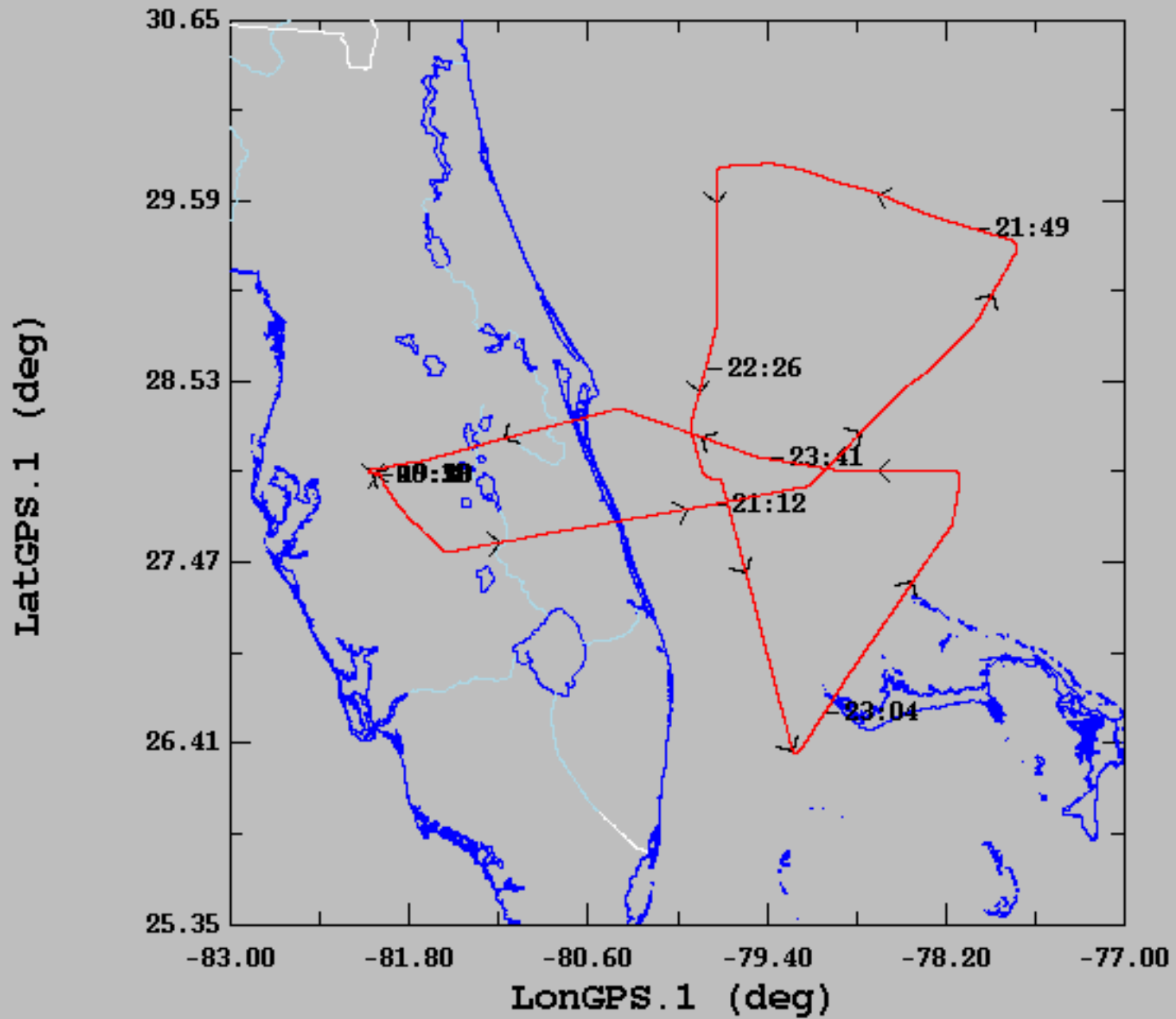
Storm _ISAIAS_____ **Flight ID**_2020080212_____ **Dropsonde Scientist**_ Sellwood_____ **AVAPS Operator**_ Underwood_____

Mission ID__2009A_____ (ex. 0101A)

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Dir/Spd (deg/kt)	Lowest Wind Hgt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
1	191930452	2113	27.83	-79.65	995	140/12	10		center	1
Comments: No wind until 23 seconds , ended sonde at 291.75, removed lat/lons 21.50 -23 s										
2	193430744	2130	28.47	-78.49	Na	122/64	932mb		Midpoint outbound SW/NE	2
Comments: Cut out at 2000ft set heights missing										
3	192221133	2141	29.00	-77.91	1012	120/30	10		End point NE	3
Comments: No manual QC good sonde										
4	193551278	2209	29.78	-79.71	1012	80/25	10		End point N	4
Comments: No manual QC good sonde										
5	19340732	2221	28.96	-79.73	1008	75/31	10		Midpoint inbound N/S leg	5
Comments: No manual QC good sonde, RH at top										
6	194941036	2236	27.96	-79.72	995	360/22	10		Center 2	6
Comments: Reset end to 260.0 post splash data										
7	192310203	2245	27.31	-79.50	1003	230/35	10		Midpoint outbound N/S leg	7
Comments: No manual QC good drop										
8	193431053	2259	26.38	-79.23	1009	190/23	10		End point S	9
Comments: Ended sonde 297.25 (2 frames)										
9	191930466	2324	27.97	-78.10	1009	135/38	10		EP E inbound	x

Comments: Late RH										
10	195021040	2325	28.00	-78.17	1007	135/44	10		EP E inbound backup sonde	10
Comments: Removed first 10s of RH no points flagged for AE due to lack of flight level RH										
11	195021064	2335	28.02	-78.96	1002	170/40	10		Midpoint E/W inbound	11
Comments: No manual QC good drop										
12	195030240	2345	28.16	-79.69	995	55/16	10		center	12
Comments: Removed last 2 wind frames – last report										
13										
Comments:										
14										
Comments:										
15										
Comments:										
16										
Comments:										
17										
Comments:										
18										
Comments:										
19										
Comments:										

2020-08-02, 19:20:58-24:18:22



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	28.10	0.71	26.36	29.81
— LonGPS.1 (deg), 1 s/sec	-80.25	1.45	-82.06	-77.72