

N43RF ERROR SUMMARY
20221030I2

Flight ID: 20221030I2

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/2022/MET/20221030I2

Local Met Data	Takeoff TISX (2145Z)	Landing TISX (0157Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.126754
AttackAngleSlope		5.36078
SlipAngleIntercept		0.2
SlipAngleSlope		6.67769

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.1 parameters unrepresentative before take off
Humidities have unrealistic spikes
Acft has no landing data due to data system shut down
PDBETA.2 has large spikes at 23:10, 01:28, 03:29
PQM.1 trending ~20 mb high
PQM.4 unrepresentative in select periods throughout flight
TTM.2 oscillates
TTM.3 inop
TDM.1 has oscillations in various parts of mission
TDM.3 inop
No aircraft landing data due to data system shut down

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	21	20	20
Test sondes	0	0	0
AXBTs	0	0	0

AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen / Holmes
Phone #: 863-500-3962

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION					
FLT ID:	20221030I2	FLT #:		AC:	Rannenberg	Scientists:	Pressure		Drosondes			
From:	TISX	ETD:	2100Z	CP(s):	Copare	Hazelton	A/C Takeoff		Good	Bad	Sent	
To:	TISX	ETA:	0500Z			Sellwood						
Block Time		Flight Time		NAV:	Hough	Sapp	ASOS Takeoff		20 1 20			
In:	4:00	Land:	3:57	FE(s):	Darby				BTs			
Out:	21:38	T/O:	21:46	FD(s):	Pittman		A/C Land		Good	Bad	Sent	
Total:	6.4	Total:	6.2	SSA:	McAlister	Visitors:	ASOS Land		0 0 0			
Sponsoring Org:		NWS/EMC			AVAPS:	Dykeman			Storm Number ID:		AL952022	
Program:		PRX			SEB:		(ie: AL072012)		NOAA3 04JJA TDR			
Purpose:		TDR			MX:		TCPOD/WSPOD Mission					
							(ie: NOAA2 2418A SANDY)		OBSERVATIONS			
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:	0				

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Flight ID:	20221030I2
Flight Director(s)	Kalen / Holmes
UWZ.d mean:	-0.02

Pressure Comparison		
	T/O	Land
Aircraft	1009.9	-
Tower	1011.0	1011.7

	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 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"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1 <input checked="" type="checkbox"/> LatGPS.2 <input checked="" type="checkbox"/> LatGPS.3 <input 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 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 checked="" 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 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:

AVAPS Drop Log

Project: Hurricanes 2022

Mission: Invest 956

Flight ID: 2022103017

Take Off: 1746Z

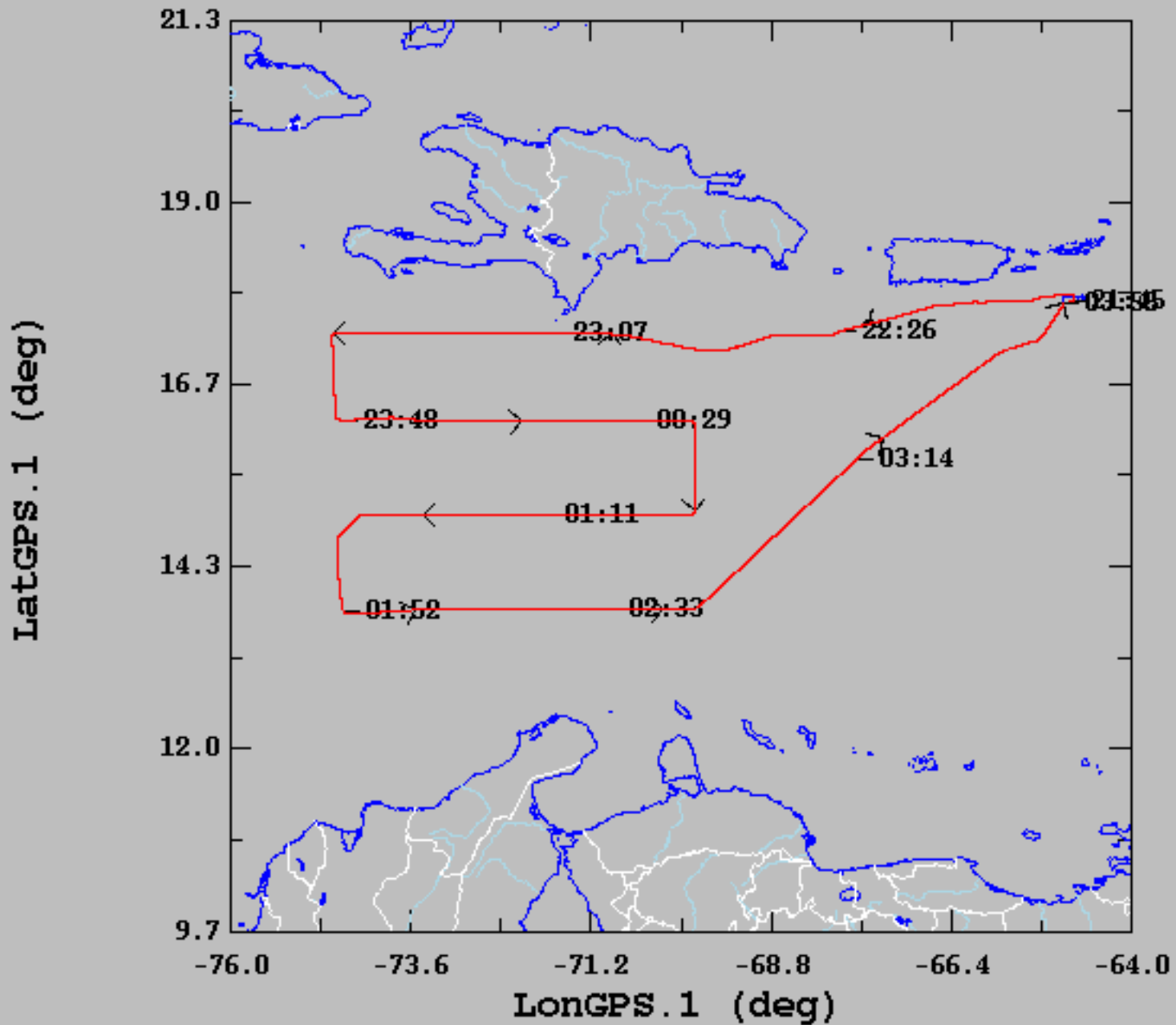
Landing: 2357

Flt Dir: Q Kalen

Launcher S/N: 209

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
L1 PT1	1	2109100144	1	-0.6	2248	BRD	NWS	Y
L1 PT2	2	210240786	2	-1.0	2300	BRD	NWS	Y
L1 PT3	3	210240785	3	-1.1	2313	BRD	NWS	Y
L1 PT4	4	210240787	1	-1.2	2324	BRD	NWS	Y
L1 PT5	5	211450595	2	-1.7	2336	BRD	NWS	Y
L2 PT1	6	210751115	3	-0.4	2348	BRD	NWS	Y
L2 PT2	7	210930206	1	-0.9	0000	BRD	NWS	Y
L2 PT3	8	210960223	2	-1.2	0013	BRD	NWS	Y
L2 PT4	9	210210333	3	-0.4	0025	BRD	NWS	Y
L2 PT5	10	211450597	1	-	0038	BRD	NWS	Y
L3 PT1	11	210430092	2	-0.8	0050	BRD	NWS	Y
L3 PT2	12	210731139	3	-	0103	BRD	NWS	Y
L3 PT3	13	210710258	1	-0.3	0114	BRD	NWS	NO TEMP/HUM
L3 PT4	14	210710331	2	-0.1	0119	BRD	NWS	Y
L3 PT5	15	210240591	3	-0.4	0127	BRD	NWS	Y
L3 PT6	16	210430073	1	-0.4	0137	BRD	NWS	Y
L4 PT1	17	210920587	2	-0.1	0151	BRD	NWS	Y
L4 PT2	18	213430297	3	-0.1	0206	BRD	NWS	Y
L4 PT3	19	210430440	1	-0.7	0219	BRD	NWS	Y
L4 PT4	20	210930254	2	-0.4	0232	BRD	NWS	Y
L4 PT5	21	213570211	3	-0.1	0244	BRD	NWS	Y
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
	30							
	31							

10/30/2022, 21:45:43-27:55:18



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	15.93	1.35	13.76	17.80
— LongGPS.1 (deg), 1 s/sec	-70.46	2.92	-74.65	-64.74