

N43RF ERROR SUMMARY
20230825I1

Flight ID: 20230825I1

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/2023/MET/20230825I1

Local Met Data	Takeoff KLAL (1118Z)	Landing TISX (1925Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.050058
AttackAngleSlope		5.32015
SlipAngleIntercept		0.165
SlipAngleSlope		6.66754

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.

I.3 for Pitch and Roll is not operational.

TRadU.1 has erroneous data throughout the flight and should not be used. PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file.

TTM.3 and TDM.3 inop
PQM.1 trending ~5mb high

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	12	12	12
Test sondes	0	0	0
AXBTs	4	4	4
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: KALEN / PARRISH

Phone #: 863-500-3962

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230825I1	FLT #:		AC:	COPARE	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1100Z	CP(s):	WOOD	HAZELTON	A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:	1900Z		PALMER	X. ZHANG			12	0	12
Block Time		Flight Time		NAV:	MILLER / SCHAEFER		ASOS Takeoff		BTs		
In:	19:29	Land:	19:25	FE(s):	DARBY				A/C Land		Good
Out:	11:07	T/O:	11:19	FD(s):	KALEN	ASOS Land		4			
Total:	8.4	Total:	8.1	SSA:	RICHARDS				Visitors:	Storm Number ID:	
Sponsoring Org:	EMC			AVAPS:	KOTZ/SANTONI	(ie: AL072012)					
Program:	PHX			SEB:		TCPOD/WSPOD Mission		WAWXA FRANKLIN			
Purpose:	TAC REPO / TDR			MX:	SANS SOUCI	(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					X		Pennies:				

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	2023082511
Flight Director(s):	KALEN / PARRISH
Mission:	Tasked/Operational
UWZ.d mean:	-0.11

Pressure Comparison		
	T/O	Land
Aircraft	1010.3	-
Tower	1010.2	-

	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 ✓ 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 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 ✓ 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	x PDLAPHaref x PDBETAref x PQALPHaref x 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	✓ 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 x DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:
<ul style="list-style-type: none"> ✓ Error Summary ✓ Crew Manifest ✓ QC Checklist ✓ Dropwindsonde Log(s) - AVAPS and FD if completed ✓ Flight Track ✓ Miscellaneous FD Notes

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

NOTES:
<p>I.3 for Pitch and Roll is not operational.</p> <p>TRadU.1 has erroneous data throughout the flight and should not be used.</p> <p>PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file.</p> <p>TTM.3 and TDM.3 inop</p> <p>PQM.1 trending ~5mb high</p>

AVAPS Drop Log

Project: TS FRANKLIN

Mission: _____

Flight ID: 20230825I1

Take Off: 119Z

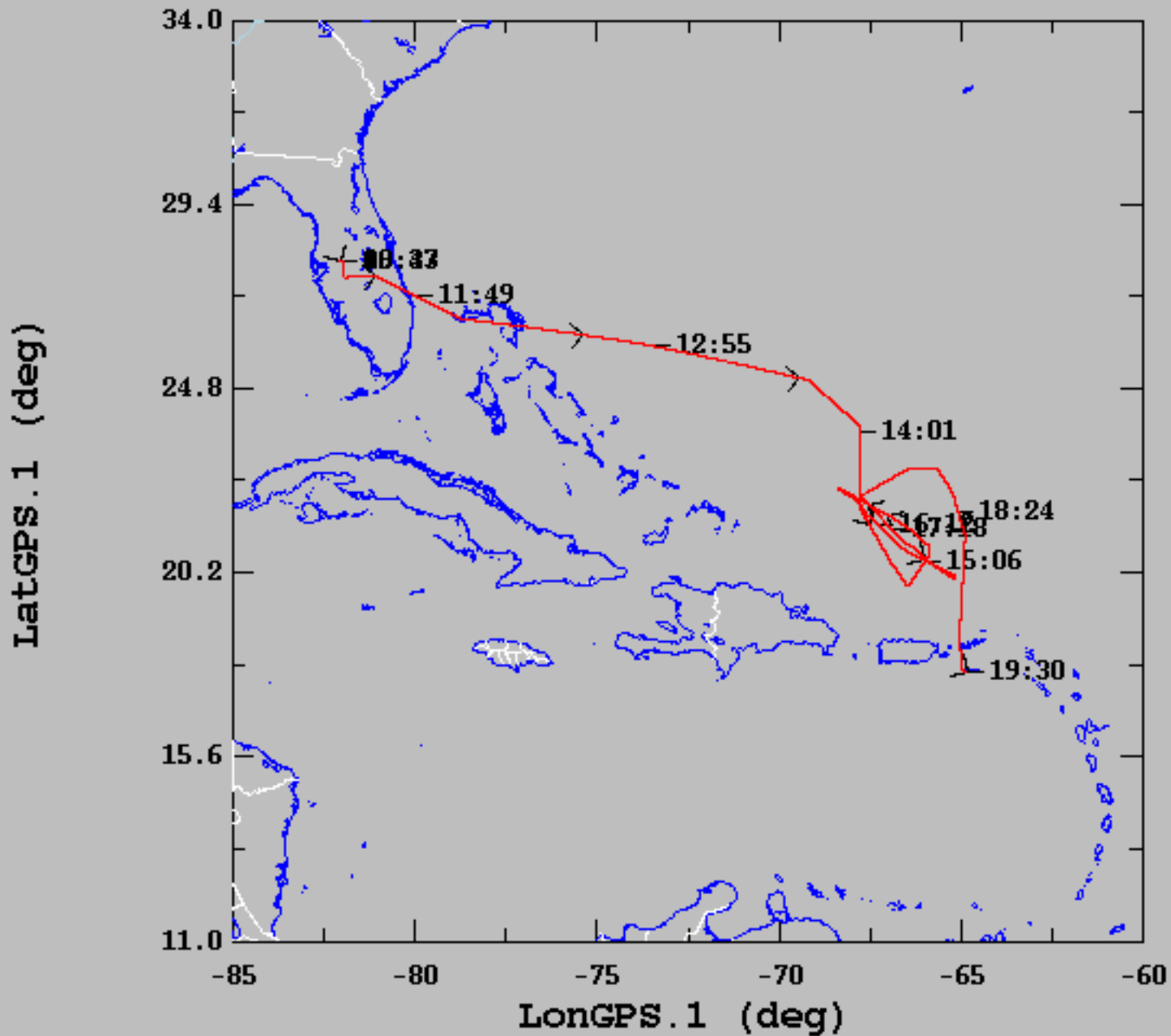
Landing: _____

Flt Dir: QK

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221340051	1	-0.9	1358	HK	NWS	Combo	✓
2	221750208	2	+0.1	1412	HK	NWS		✓
3	221350745	3	-0.9	1423	HK	NWS		✓
4	221350575	4	-1.0	1440	HK	NWS		✓
5	221740869	1	-0.5	1456	HK	NWS	Combo	✓
6	221740870	2	-0.2	1514	HK	NWS		✓
7	221640563	3	-0.3	1529	HK	NWS		✓
8	221470687	4	-0.3	1546	HK	NWS		✓
9	221820045	1	-0.5	1749	HK	NWS		✓
10	221220361	2	-0.6	1759	HK	NWS		✓
11	221220357	3	0.0	1806	HK	GoMo		✓
12	221811176	1	0.0	1831	HK	HRD	-0.4 offset	✓
13			0.0					
A 14								
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08/25/2023, 09:37:56-19:30:05



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	23.33	3.00	17.69	27.99
— LongGPS.1 (deg), 1 s/sec	-70.69	6.14	-82.03	-64.79