

N43RF ERROR SUMMARY
20230829I1

Flight ID: 20230829I1

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/20230829I1

Local Met Data	Takeoff KFLI (0937Z)	Landing KFLI (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
TDM.2 unrepresentative for majority of flight
PQM.1 trending ~5 mb high

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	26	26	26
Test sondes	0	0	0
AXBTs	5	5	5
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:	20230829I1	FLT #:		AC:	COPARE	Scientists:	Pressure		Dropsondes		
From:	KFLL	ETD:	0930Z	CP(s):	WOOD	HAZELTON	A/C Takeoff		Good	Bad	Sent
To:	KFLL	ETA:	1730Z		PALMER	X. ZHANG			26	0	26
Block Time		Flight Time		NAV:	MILLER/SCHAEFER		ASOS Takeoff		BTs		
In:	16:19	Land:	16:09	FE(s):	DARBY				A/C Land		Good
Out:	9:30	T/O:	9:38	FD(s):	KALEN	ASOS Land		5			
Total:	6.8	Total:	6.5	SSA:	RICHARDS				Visitors:	Storm Number ID:	
Sponsoring Org:	EMC			AVAPS:	KOTZ/SANTONI	STALEY	(ie: AL072012)				
Program:	PRX			SEB:			TCPOD/WSPOD Mission		1010A IDALIA		
Purpose:	HX IDALIA TDR			MX:			(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH					X		1	8	1127Z	979MB	
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X		2	13	1227Z	979MB	
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X		3	25	1330Z	978MB	
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X		4				
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X		Pennies:	4 - CAT 1			

*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:	2023082911
Flight Director(s):	KALEN / PARRISH
Mission:	Tasked/Operational
UWZ.d mean:	0.06

Pressure Comparison		
	T/O	Land
Aircraft	1012.0	-
Tower	1010.6	-

	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	✓ PitchRatel.1 ✓ PitchRatel.2 x PitchRatel.3	✓ RollI.1 ✓ RollI.2 x RollI.3	✓ RollRatel.1 ✓ RollRatel.2 x RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 x TTM.3	✓ TDM.1 x 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 x 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>TDM.2 unrepresentative for majority of flight</p> <p>PQM.1 trending ~5 mb high</p>

AVAPS Drop Log

Project: _____

Mission: Hu. - IDALIA

Flight ID: 20230829II

Take Off: _____

Landing: _____

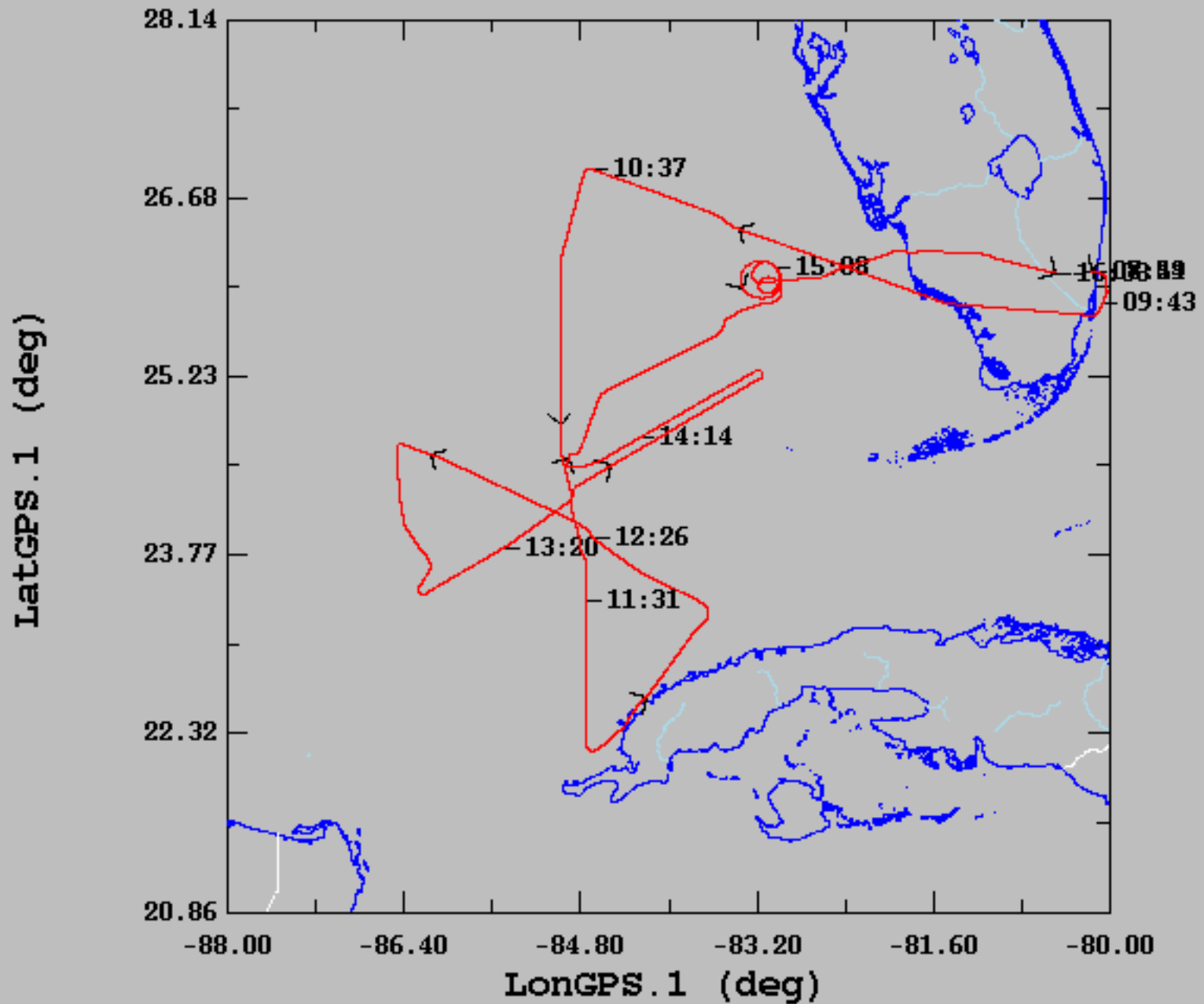
Flt Dir: QK

Launcher S/N: _____

M.S.
50
032

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	220430198	1	-0.7	1049	HK	NWS	No MS Buggy	✓
2	220610208	2	-0.7	1102	HK	NWS	Combo, IP	✓
3	221350752	3	-0.5	1115	HK	NWS	MP	✓
4	221240300	4	-0.9	1123	HK	ONR	RMW	✓
5	221740733	5	-1.0	1127	HK	NWS	CNTR Combo	✓
6	222021165	6	-1.1	1130	HK	ONR	RMW	✓
7	220570958	1	-0.7	1141	HK	NWS	MP	✓
8	220750416	2	-0.9	1148	HK	NWS	Combo, EP	✓
9	220440281	3	-0.7	1211	HK	NWS	IP	✓
10	220480181	4	-0.7	1223	HK	ONR	RMW	✓
11	220620256	5	-0.7	1227	HK	NWS	CNTR	✓
12	220750420	6	-0.9	1232	HK	ONR	RMW	✓
13	220430191	1	-0.8	1239	HK	NWS	MP	✓
14	220750420	2	-1.0	1250	HK	NWS	EP	✓
15	221740649	3	-1.2	1310	HK	NWS	Combo IP	✓
16	221950418	4	-0.9	1319	HK	NWS	MP	✓
17	221810471	5	-0.9	1328	HK	ONR	RMW	✓
18	221840067	6	-1.1	1331	HK	NWS	CNTR	✓
19	221230551	1	-0.9	1334	HK	ONR	RMW	✓
20	220440149	2	-0.7	1345	HK	NWS	MP	✓
21	220440099	3	-0.6	1355	HK	NWS	EP combo	✓
22	220440279	4	-0.7	1416	HK	HRD	RMW	✓
23	220750614	5	-0.9	1417	HK	HRD	RMW	✓
24	222010108	6	-0.9	1419	HK	HRD	RMW	✓
25	220750401	1	-0.6	1423	HK	NWS	CNTR	✓
26	220570926	2	-0.5	1509	HK	ONR	Spiral	✓
27								
28								
29								
30								
31								

08/29/2023, 07:54:59-16:03:00



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	25.19	1.14	22.17	26.92
— LongGPS.1 (deg), 1 s/sec	-83.14	2.02	-86.46	-80.02