

N43RF ERROR SUMMARY
20240906I1_ES

Flight ID: 20240906I1

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/2024/MET/20240906I1

Local Met Data	Takeoff KLAL (1313Z)	Landing KLAL (1817Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.179211
AttackAngleSlope		5.88163
SlipAngleIntercept		0.15
SlipAngleSlope		6.89472

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.

Pitch and Roll I.3, TTM.3, TDM.3, and TRadU.1 not operational.

TTM.2 inverse spikes from 1417-1424z.

TDM.1 shows erroneous negative to positive spike 1326-1329z

PQM.4 negative spikes between 1416-1431z and 1553-1630z.

SFMR data (all channel TB, WS, RAIN RATE) under assessment and should be used with caution.

*1 Good BT from UM batch.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	5	5	5
Test sondes	0	0	0
AXBTS	3	1	1
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Englert/Zawislak

Phone #: 863-606-6847

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:	20204090611	FLT #:	FY24-	AC:	Rannenberg	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0900L / 1300Z	CP(s):	Taraboletti	Goodstein (NCAR)	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1700L / 2100Z		Ellis	Brownrigg (NCAR)			5	0	1
Block Time		Flight Time		NAV:	Schaefer/Saunders		ASOS Takeoff		BTs		
In:	18:22	Land:	18:17	FE(s):	Wysinger				Good	Bad	Sent
Out:	13:02	T/O:	13:13	FD(s):	Ripp		A/C Land		1	2	1
					Englert						
Total:	5.3	Total:	5.1	SSA:	Richards	Visitors:	ASOS Land				
Sponsoring Org:		HRD		AVAPS:	Paul		Storm Number ID:		N/A		
Program:		PHX			Hollis		(ie: AL072012)				
Purpose:		TDR 5 & ASCAT pass/SFMR Validation		SEB:			TCPD/WSPD Mission		NOAA3 WXWXA TRAIN		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	OBSERVATIONS				
							Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1				
SCIENCE MISSION WITHIN BDRY LAYER					X	1 Good BT (UM), 2x bad BTs (AOC)					
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:	2024090611
Flight Director(s):	Englert/Zawislak
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	-0.07

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1009.7	1010.6
Airfield	1010.2	1008.3

This form uses:
_A.nc

SFMR Serial Unit	3
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Parameters	Raw				Derived, Corrected & Reference	
✓ Acceleration	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZfilter-GPS.1	✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ AccZfilter-GPS.2		
	✓ AccAXI-GPS.1	✓ AccAYI-GPS.1	✓ AccAZI-GPS.1			
	✓ AccAXI-GPS.2	✓ AccAYI-GPS.2	✓ AccAZI-GPS.2			
✓ Altitude	✓ AltGPS.1	✓ AltI-GPS.1	✓ AltPaADDU.1	✓ AltRA.1	✓ ALTref	✓ AltRA1.c
	✓ AltGPS.2	✓ AltI-GPS.2	✓ AltBCADDU.1	✓ AltRA.2		✓ AltRA2.c
	✓ AltGPS.3			✓ ALTPA.d		
	✓ AltGPS.4			✓ ALTGA.d		
✓ Ground Speed	✓ GsXI-GPS.1	✓ GsYI-GPS.1	✓ GsZI-GPS.1		✓ GSXref	
	✓ GsXI-GPS.2	✓ GsYI-GPS.2	✓ GsZI-GPS.2		✓ GSYref	
					✓ GSZref	
✓ Location	✓ LatGPS.1	✓ LatI-GPS.1	✓ LonGPS.1	✓ LonI-GPS.1	✓ LATref	
	✓ LatGPS.2	✓ LatI-GPS.2	✓ LonGPS.2	✓ LonI-GPS.2	✓ LONref	
	✓ LatGPS.3		✓ LonGPS.3			
	✓ LatGPS.4		✓ LonGPS.4			
✓ Pressure Sensors	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PQMref	
	✓ PDALPHA.2	✓ PQBETA.1	✓ PQM.2	✓ PSM.2	✓ PQ.c	
	✓ PDBETA.1		✓ PQM.3	✓ PTM.1	✓ PSMref	
	✓ PDBETA.2		✗ PQM.4		✓ PS.c	
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRatI.1	✓ RollI.1	✓ RollRatI.1	✓ PITCHref	
	✓ PitchI.2	✓ PitchRatI.2	✓ RollI.2	✓ RollRatI.2	✓ ROLLref	
	inop PitchI.3	inop PitchRatI.3	inop RollI.3	inop RollRatI.3		
✓ Temperature, Dewpoint, Radiometers	✓ TTM.1	✗ TDM.1	✓ TRadD.1		✓ TD.c	✓ TTMref
	✗ TTM.2	✓ TDM.2	✓ TRadS.1		✓ TDMref	✓ TA.d
	inop TTM.3	inop TDM.3	inop TRadU.1		✓ HUM	
✗ Wind and Pressure		✗ CH 1 TB	✗ CH 4 TB		✓ UWZ.d	✓ WS.d
✗ SFMR	SFMR	✗ CH 2 TB	✗ CH 5 TB		✓ PSURF	✓ WD.d
		✗ CH 3 TB	✗ CH 6 TB		✗ WS SFMR	✗ RAIN RATE SFMR

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

QC Key:	
Valid	✓
Errors (see NOTES)	✗
Sensor Inoperative	inop

NOTES:

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AVAPS Drop Log

Project: HX24

Mission: TPR 5

Flight ID: 26240906I1

Take Off: _____

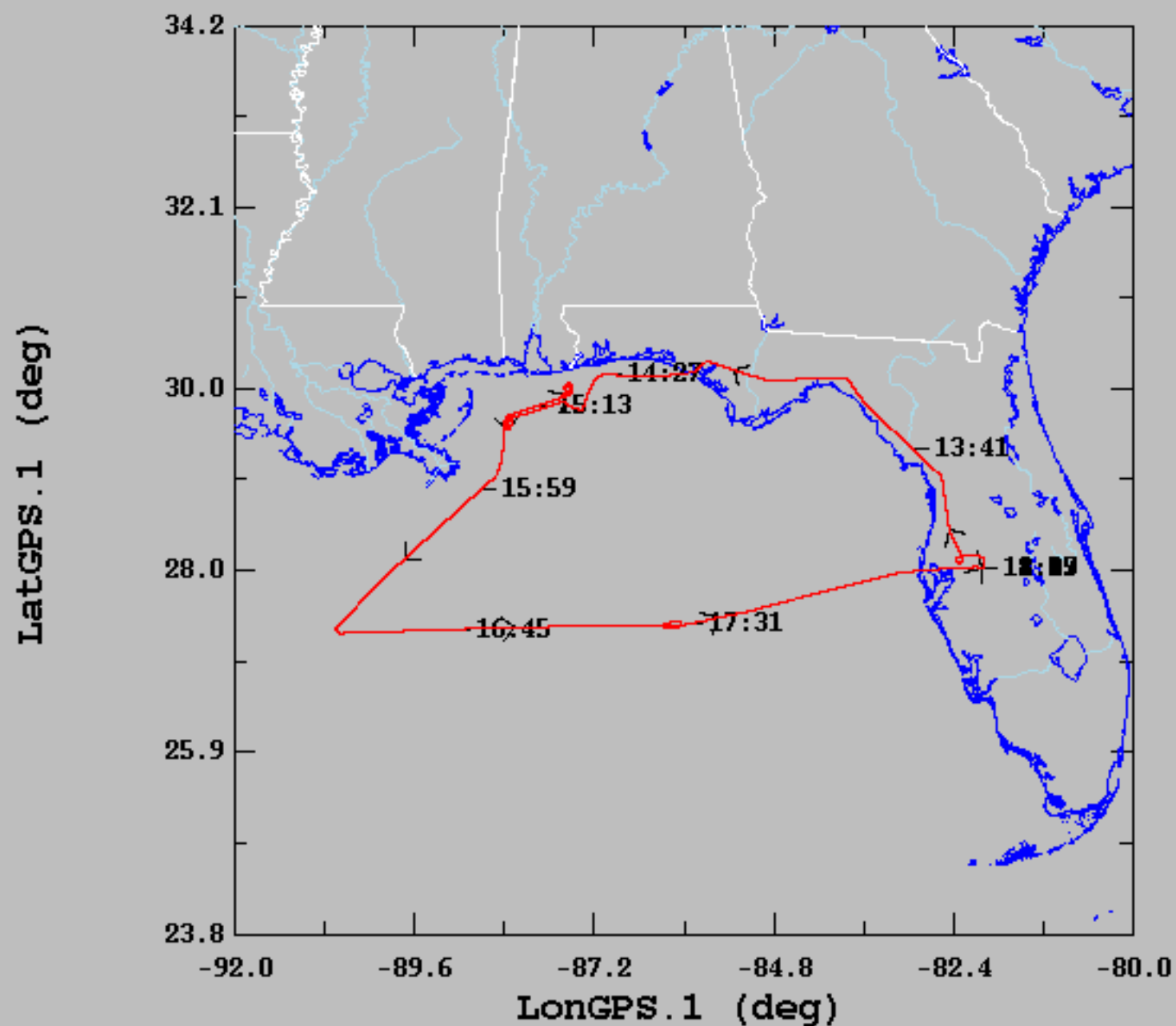
Landing: _____

Flt Dir: J2/ENGLETT

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	233 541 304	1	-0.7	1439	SCP	AOC	15 dB	✓
2	232 210 226	1	-0.5	1519	SCP	AOC	0dB	✓
3	232 240 088	1	-0.3	1536	SCP	AOC	25dB low power	✓
4	233 710 337	1	-0.5	1621	SCP	AOC	15dB	✓
5	233 541 307	2	-0.9	1627	SCP	AOC	15 dB	✓
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09/06/2024, 11:23:32-18:17:35



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	28.53	1.04	27.22	30.37
LongGPS.1 (deg), 1 s/sec	-85.33	2.89	-90.63	-81.97