N43RF ERROR SUMMARY
20240617I1

Flight ID: 20240617I1

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.1
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/20240617I1

Local Met Data	Takeoff KLAL (1712Z)	Landing KLAL (1938Z)
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.

GPS.3 and GPS.4 inop from the beginning of the flight until 1747 UTC
A couple of SFMR CH4 brightness temperature spikes, but no apparent impact

Expendable Type	# deployed	# good	# transmitted
Dropsondes	3	3	3
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Zawislak
Phone #: 305-707-4359

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

FLIGHT INFORMATION			
FLT ID:	20240617I1	FLT #:	FY24-
From:	KLAL	ETD:	1300L / 1700Z
To:	KLAL	ETA:	1600L / 2000Z
Block Time		Flight Time	
Out:	17:03	T/O:	17:12
In:	19:43	Land:	19:38
Total:	2.7	Total:	2.4
Sponsoring Org:	NHC		
Program:	PRX		
Purpose:	Intercomparison with 53rd WRS		

CREW MANIFEST		
AC:	Keith	Scientists:
CP(s):	Taraboletti	
NAV:	Utama	
FE(s):	Tyson	
	Dittoe	
FD(s):	Zawislak	
SSA:	Richards	Visitors:
AVAPS:	Patel / Kotz	
SEB:		
MX:		

MISSION INFORMATION				
Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff	1012.1	3	0	3
ASOS Takeoff	1012.8	BTs		
		Good	Bad	Sent
A/C Land	1009.5	0	0	0
ASOS Land	1010.4			
Storm Number ID: (ie: AL072012)		N/A		
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)		NOAA3 WXWXA TRAIN		

AS REQUIRED BY ORM	Y	N
VOLCANIC ASH		X
SCIENCE MISSION WITHIN BDRY LAYER		X
LACK OF PRECIPITATION		X
RELATIVE HUMIDITY ≥ 80%	X	
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

REMARKS
53rd Intercomparison Flight Completed Successfully

OBSERVATIONS			
Fix Number	Obs Number	Fix Time	SLP
1			
2			
3			
4			
Pennies:			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	No instrument issues noted.

Flight ID:	20240617I1
Flight Director(s):	Zawislak
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	-0.08

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1012.1	1009.5
Airfield	1012.8	1010.4

This form uses:
_B.nc

SFMR Serial Unit	3

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	✓ ALTPA.d	✓ AltRA2.c
	X AltGPS.3				✓ ALTGA.d	
	X AltGPS.4					
✓ 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	
	X LatGPS.3		X LonGPS.3			
	X LatGPS.4		X 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	✓ PitchRateI.1	✓ RollI.1	✓ RollRateI.1	✓ PITCHref	
	✓ PitchI.2	✓ PitchRateI.2	✓ RollI.2	✓ RollRateI.2	✓ ROLLref	
	inop PitchI.3	inop PitchRateI.3	inop RollI.3	inop RollRateI.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 ✓ SFMR	SFMR	✓ CH 1 TB	✓ CH 4 TB		✓ UWZ.d	✓ WS.d
		✓ 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)	X
Sensor Inoperative	inop

NOTES:
GPS.3 and GPS.4 inop from beginning of the flight until 1747 UTC
A couple of SFMR CH 4 brightness temperature spikes, but no apparent impact

AVAPS Drop Log

Project: _____ Mission: 53RD INTERCOMPARISON Flight ID: 20240617I1

Take Off: _____ Landing: _____ Flt Dir: JZ Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	2213505 72	1	-0.8	1749	AP	AOC	lost signal in ACS AVAPS good	✓
2	221410030	2	-0.7	1757	A/K	AOC		✓
3	2218 304 29	3	-0.5	1806	HK/AP	AOC		✓
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
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24								
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26								
27								
28								
29								
30								
31								

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

Flight ID__20240617I1___Storm_____CAL/COMP__Dropsonde Scientist_Sellwood, Aberson, Sippel and Alaka_____

The lead project scientist (LPS) on the P3 is responsible for determining the distribution patterns for dropwindsonde releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns often are required to be altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. On the G-IV the sole HRD person is designated the LPS. The following list contains more general supplementary procedures to be followed. (Check off or initial.)

Preflight

__n.a___ 1. Determine the status of the AVAPS and HAPS or workstation. Report results to the LPS.

__n.a___ 2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.

__n.a___ 3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.

__n.a___ 4. Complete the appropriate preflight set-up and checklists.

In-Flight

__n.a___ 1. Operate the system as specified in the operator's manual.

__n.a___ 2. Ensure the AOC flight director is aware of upcoming drops.

__n.a___ 3. Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal. Recommend if a backup dropsonde should be launched in case of failure.

__X___ 4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

Post flight

__X___ 1. Complete Dropwindsonde Scientist Log.

__n.a___ 2. Brief the LPS on equipment status and turn in completed forms, dropwindsonde data tapes, DVDs, or CDs.
[**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

__X____3. Copy all raw and processed dropsonde files to portable drive for archival

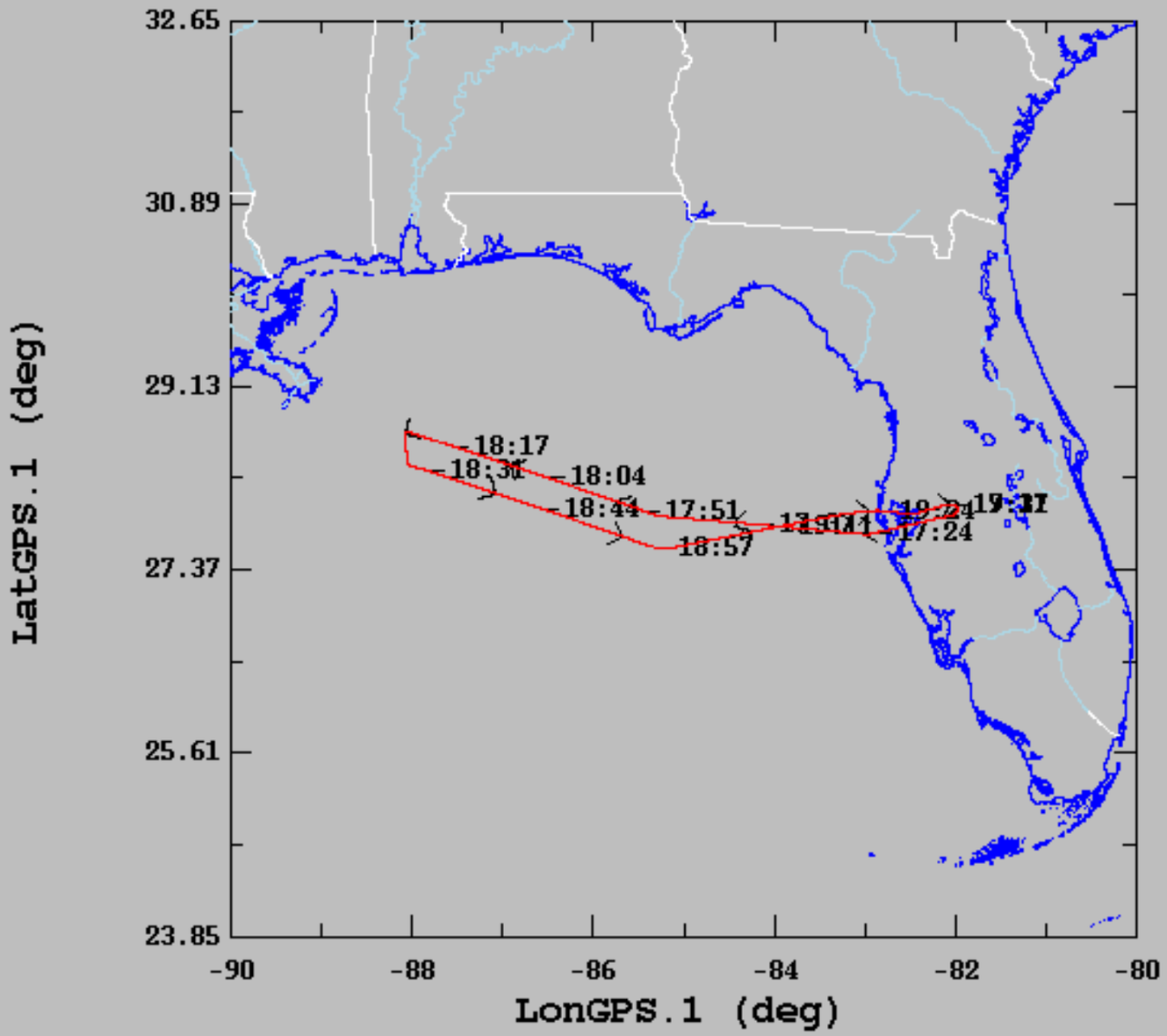
__n.a___ 4. Debrief at the base of operations.

__n.a___ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

Storm __TRAIN__Flight ID___WXWXA___Dropsonde Scientist_Sellwood/Aberson/Sippel/Alaka_ AVAPS Operator_____
Mission ID_WXWXA_TRAIN_ (ex. 0101A) Take Off __Lakeland_____Landing_ __Lakeland_____

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	221350572	174929	27.9	-85.31	1014	110/21	10	n/a		2
Comments No manual QC needed, sent corrected ob with 1 significant level removed for TAG training										
2	221410030	175720	28.1	-85.93	1014	110/20	10	n/a		3
Comments No manual QC needed, sent corrected ob with 1 second change to REL for TAG training										
3	221830429	180601	28.29	-86.61	1014	105/20	10	n/a		4
Comments No manual QC needed, sent corrected ob marked as Last Report for TAG training										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										

06/17/2024, 17:11:00-19:37:57



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.99	0.28	27.57	28.70
LonGPS.1 (deg), 1 s/sec	-85.00	1.89	-88.07	-81.97