N43RF ERROR SUMMARY
20240704I1

Flight ID: 20240704I1

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/20240704I1

Local Met Data	Takeoff KLAL (0759Z)	Landing KLAL (1605Z)
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.

I.3 for Pitch and Roll, TTM.3, and TDM.3 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.
PQM.1 trending ~5 mb high
TDM.1 has a large spike on the first pass - TD.c effected - no other parameters show loss of data and remain representative

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
Phone #: 863-500-3962

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION

FLT ID:	20240704I1	**FLT #:**	
From:	KLAL	**ETD:**	0800Z
To:	KLAL	**ETA:**	1600Z

Block Time		**Flight Time**	
In:	14:55	Land:	14:49
Out:	7:52	T/O:	8:00
Total:	7.1	Total:	6.8

Sponsoring Org:	NWS
Program:	PRX
Purpose:	HURRICANE BERYL TDR

CREW MANIFEST

AC:	RANNENBERG	**Scientists:**
CP(s):	WOOD	ZHANG, J.
	TARABOLETTI	SELLWOOD
NAV:	SCHAEFER / MEIER	
FE(s):	TYSON	
	WYSINGER	
FD(s):	KALEN	
SSA:	RICHARDS, T.	**Visitors:**
AVAPS:	PATEL / SANTONI	
SEB:		
MX:		

MISSION INFORMATION

Pressure		**Dropsondes**		
		Good	Bad	Sent
A/C Takeoff		20	1	20
ASOS Takeoff		**BTs**		
		Good	Bad	Sent
A/C Land		-	-	-
ASOS Land				

Storm Number ID: (ie: AL072012)	AL022024
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA3 1902A BERYL

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP
1	12	1109Z	970 MB
2	21	1233Z	972 MB
3			
4			
Pennies:	3, CAT 3		

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

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.

Flight ID:	20240704I1
Flight Director(s):	Kalen
Mission:	Tasked/Operational
UWZ.d mean:	0.01

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1012.4	1014.5
Airfield	1011.9	1012.3

This form uses:
_A.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
	✓ AltGPS.3				✓ ALTGA.d	
	✓ 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	
	✓ 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	✓ 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	x TDM.1	✓ TRadD.1		x 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:
I.3 for Pitch and Roll, TTM.3, and TDM.3 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.
PQM.1 trending ~5 mb high
TDM.1 has a large spike on the first pass - TD.c effected - no other parameters show loss of data and remain representative

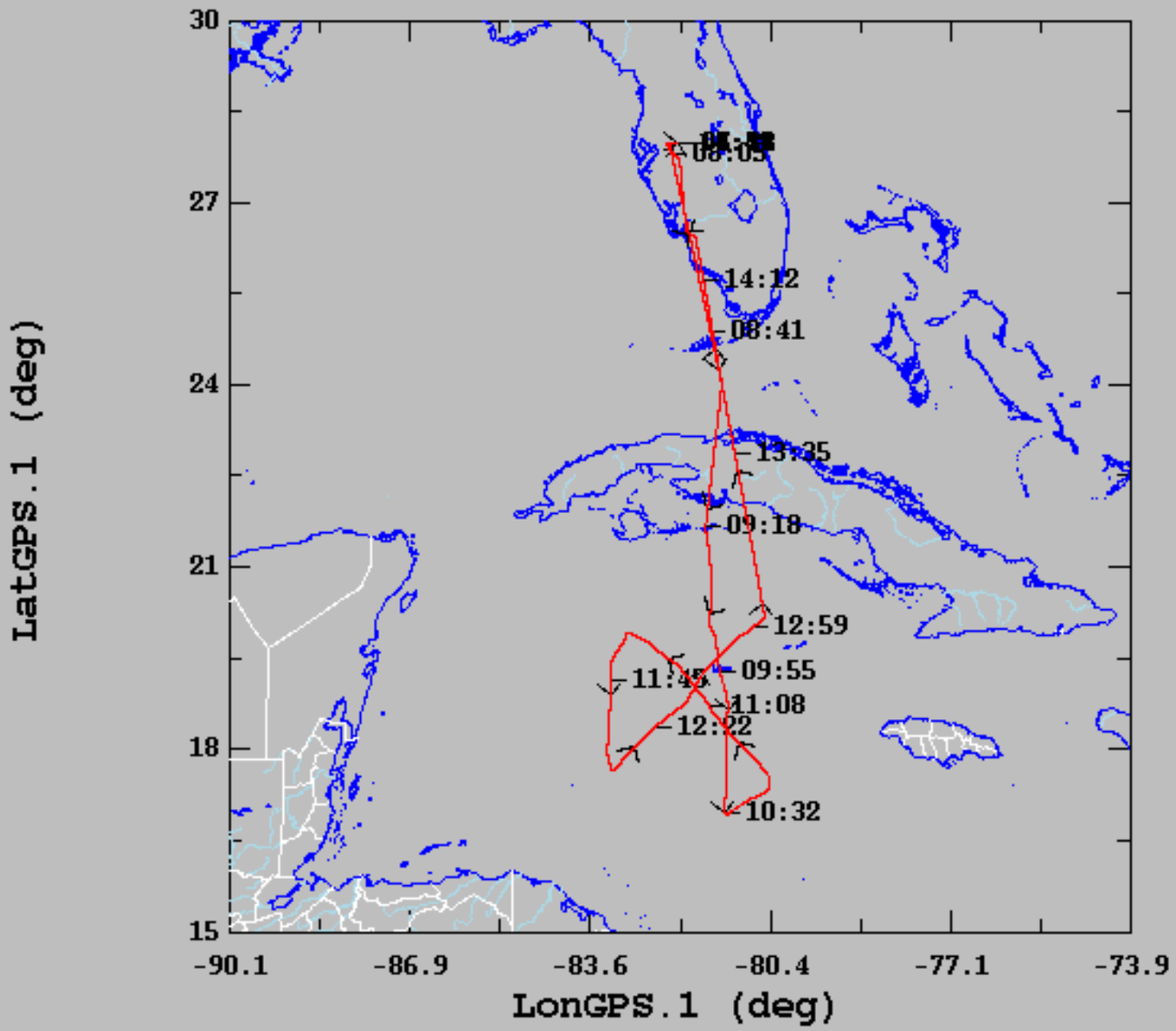
AVAPS Drop Log

Project: Hurricane Mission: Hx. Beryl Flight ID: 20240704I1

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

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	22203036 9	1	-0.9	938	ASR		IP1	✓
2	22206 0066	2	-0.8	/			No launch detect	✓
3	22203038	3	-1.2	1004			EW1	✓
4	22201 0813	4	-0.9	1009			C	✓
5	22203037 5	5	-1.1	1009			EW1	
6	22203033 4	6	-0.8	1020			MP1	
7	22205 0545	7	-0.5	1031			EP1	
8	22206 0089	8	-0.1	1046			IP2	
9	22201 0088	1	-0.8	1057			MP2	
10	22205 0555	2	-0.6	1106			EW2	X
11	22203034 1	3	-0.7	1108			C	
12	22201 0045	4	-0.7	1114			EW2	
13	22205 0551	5	-0.8	1121			MP2	
14	22206 0061	6	-0.8	1133			EP2	
15	22201 0089	7	-1.1	1207			IP3	
16	22201 0055	8	-1.0	1219			MP3	
17	22203037 7	1	-1.2	1231			EW3	
18	22205 0086	2	-1.1	1233			C	
19	22203036 8	3	-0.9	1236			EW2	
20	22153095 0	4	-1.2	1240			MP3	
21	22203036 6	5	-1.1	1300			EP3	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

07/04/2024, 06:15:07-14:49:09



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	22.81	3.95	16.93	27.99
LonGPS.1 (deg), 1 s/sec	-81.69	0.66	-83.30	-80.36