N43RF ERROR SUMMARY
20240630I1

Flight ID: 20240630I1

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.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/20240630I1

Local Met Data	Takeoff TISX (0859Z)	Landing TISX (2021Z)
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 ~10 mb high

Expendable Type	# deployed	# good	# transmitted
Dropsondes	35	35	35
Test sondes	0	0	0
AXBTs	6	5	5
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:	20240630I1	FLT #:	
From:	TISX	ETD:	0900Z
To:	TISX	ETA:	1700Z

Block Time		Flight Time	
In:	16:47	Land:	16:43
Out:	8:52	T/O:	9:00
Total:	7.9	Total:	7.7

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

CREW MANIFEST

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

MISSION INFORMATION

Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff		35	0	35
ASOS Takeoff		BTs		
		Good	Bad	Sent
A/C Land		5	1	5
ASOS Land				

Storm Number ID: (ie: AL072012)	AL022024
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA3 0202A BERYL

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP
1	19	13:25Z	966 MB
2			
3			
4			
Pennies:	2, CAT 4		

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:	20240630I1
Flight Director(s):	Kalen
Mission:	Tasked/Operational
UWZ.d mean:	0.04

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1014.3	1015.5
Airfield	1013.3	1014.0

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	✓ 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:
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PQM.1 trending ~10 mb high

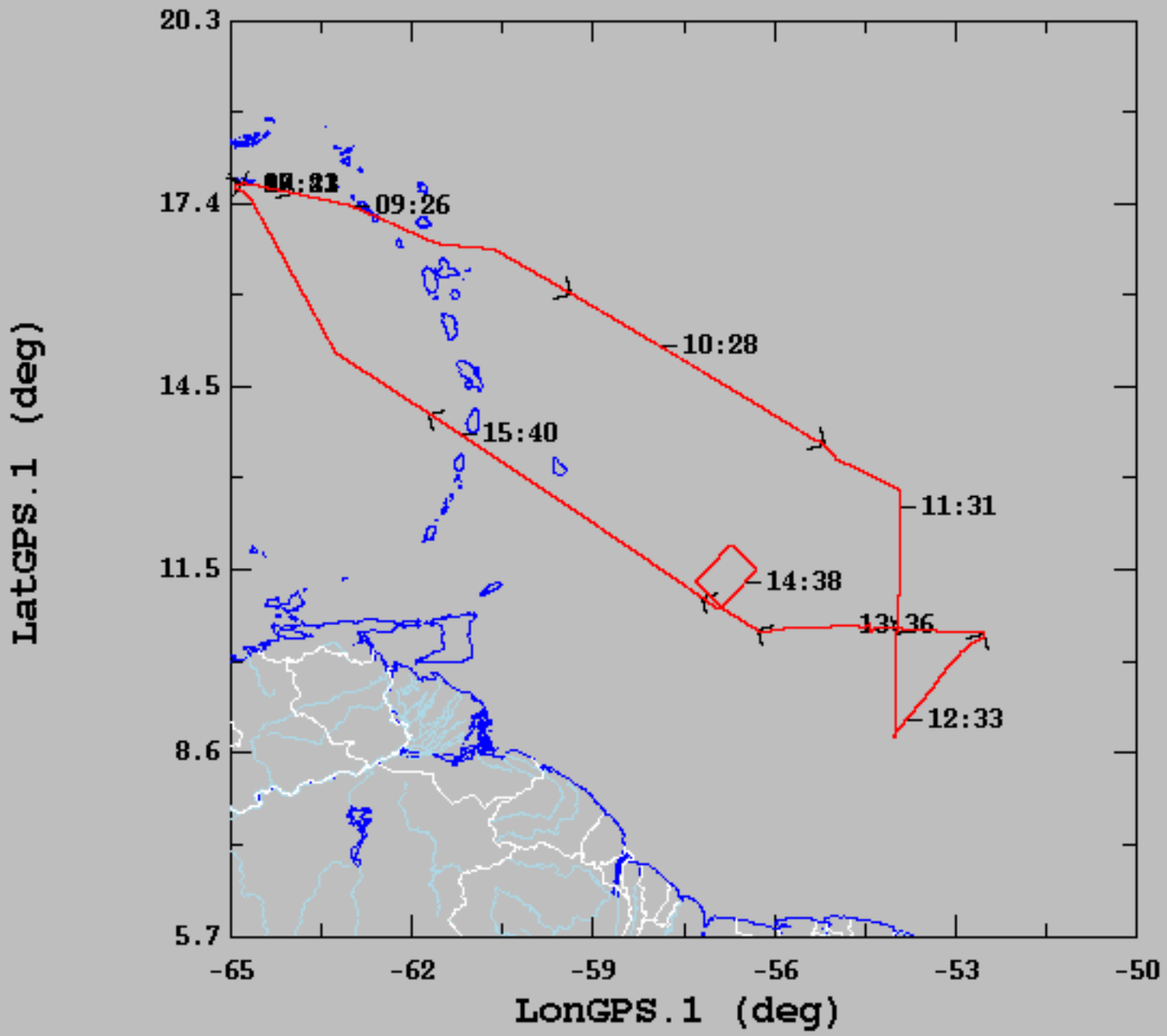
AVAPS Drop Log

Project: Storm Mission: Storm Beryl Flight ID: 20240630I1

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

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	2220705 72	1	0	0950	AJP	ONR		✓
2	222021022	2	-0.9	1002		ONR		✓
3	204270886	3	-2.3	1039		ONR		✓
4	221640561	4	-0.7	1127		NWS	Combo (ARBT) (IP)	✓
5	221750196	5	-0.4	1135		ONR		✓
6	221740651	6	-0.6	1141		NWS		✓
~~7~~	~~222350039~~	~~7~~	~~-0.6~~			~~ONR~~		
7 8	221750206	8	-0.5	1149		ONR		✓
8 9	221730325	1	-0.8	1159		NWS		✓
9 10	221750577	4	-0.4	1201		NWS	Center	✓
10 11	221640990	3	-0.8	1204		NWS		✓
11 12	221750577	2	-0.7	1215		NWS		✓
12 13	222520311	5	-1.0	1227		NWS	Exit Point (Combo)	✓
13 14	221210172	6	-1.1	124354		ONR		✓
14 15	222520317	7	-1.0	1259	ASR	NWS		✓
15 16	221531107	8	-0.5	1312		NWS		✓
16 17	221640974	1	-0.5	1322		NWS		✓
17 18	221750687	2	-1.0	1325		NWS		✓
18 19	221531108	3	-0.7	1330		NWS		✓
19 20	222010789	4	-0.7	1334		ONR		✓
20 21	222050558	5	-0.5	1340		NWS		✓
21 22	222520365	6	-0.9	1347		ONR		✓
22 23	222021024	7	-0.6	1353		NWS		✓
23 24	222010790	8	-0.5	1404		ONR		✓
24 25	221350540	1	-0.7	1408		"		✓
25 26	221740802	2	-1.0	1413		"		✓
26 27	221750205	3	-0.7	1417		"		✓
27 28	221430440	4	-0.7	14.22		"		✓
28 29	221740663	5	-0.7	14.26		"		✓
~~29~~ 30	222120865	6	-0.1	1430		"		✓
30 31	222020514	7	-0.1	1434		"		✓

06/30/2024, 07:21:14-16:43:23



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	13.90	2.93	8.86	17.70
LonGPS.1 (deg), 1 s/sec	-59.00	4.29	-64.91	-52.50