

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				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2024070211	FLT #:		AC:	DOREMUS	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:		CP(s):	WOOD	ZHANG, J.	A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:			TARABOLETTI	SELLWOOD			ASOS Takeoff	27 (17 SKYFORA)	0
Block Time		Flight Time		NAV:	SCHAEFER / MEIER		BTs				
In:	15:56	Land:	15:53	FE(s):	TYSON		ASOS Land		Good	Bad	Sent
Out:	8:23	T/O:	8:31	FD(s):	WYSINGER / RIPP						
Total:	7.5	Total:	7.4	SSA:	RICHARDS, T.	Visitors:	ASOS Land		-	-	-
Sponsoring Org:	NWS			AVAPS:	PATEL / SANTONI	ANELLO (OBS)	Storm Number ID:		AL022024		
Program:	PRX						(ie: AL072012)				
Purpose:	HURRICANE BERYL TDR			SEB:			TCPOD/WSPOD Mission		NOAA3 0802A BERYL		
				MX:			(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH					X			1	14	1110Z	935 MB
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X			2	22	1220Z	938 MB
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:	4, CAT 5		
							*Highlighted items must be completed before departure.				
Remarks:											

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	2024070211
Flight Director(s):	Kalen
Mission:	Tasked/Operational
UWZ.d mean:	0.13

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1009.9	1015.6
Airfield	1010.9	1013.3

This form uses:	
_A.nc	

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

FLID_Mission_Documents.pdf:
<input checked="" type="checkbox"/> Error Summary
<input checked="" type="checkbox"/> Crew Manifest
<input checked="" type="checkbox"/> QC Checklist
<input checked="" type="checkbox"/> Dropwindsonde Log(s) - AVAPS and FD, if completed
<input checked="" type="checkbox"/> Flight Track

QC Key:	
Valid	<input checked="" type="checkbox"/>
Errors (see NOTES)	x
Sensor Inoperative	inop

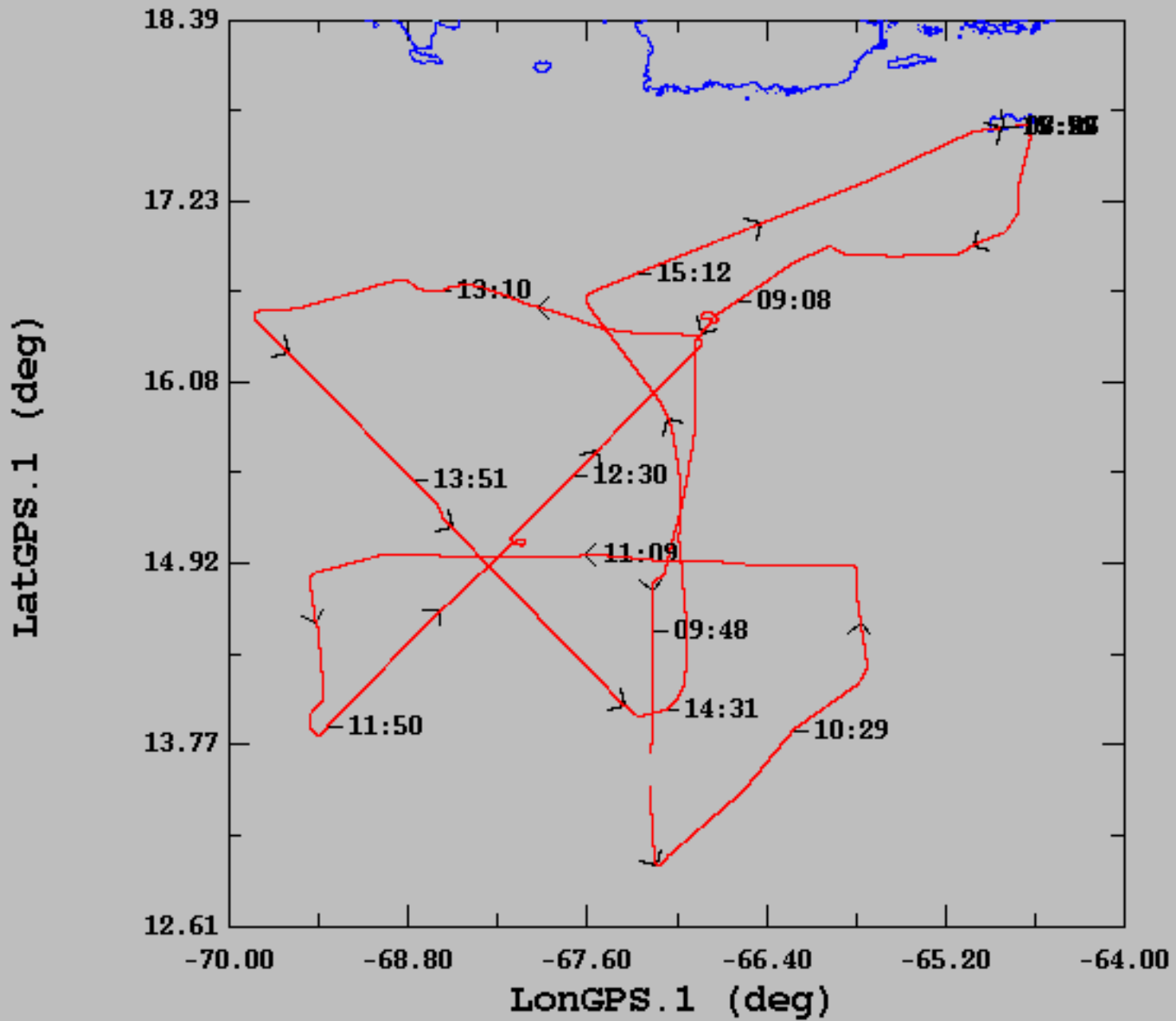
NOTES:
I.3 for Pitch and Roll, TTM.3, and TDM.3 not operational. TRadU.1 has erroneous data throughout the flight and should not be used. PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPI_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file. All parameters using GPS.1 & GPS.2 missing data between 10:01 - 10:03 PQM.1 trending ~10 mb high TDM.1 has a large spike in the first pass TDM.2 has large spike in first, second, and fourth pass - this affected all other derived parameters Switched to TDM.1 as the reference for the last two passes and for the foreseeable future

AVAPS Drop Log

Project: Hurricane Mission: Hurricane Beryl Flight ID: 20240702II
 Take Off: _____ Landing: _____ Flt Dir: win Launcher S/N: Wakar/Alca do

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221730320	1	-0.7	0913	AJP	MWS	Stream sonde (1x)	✓
2	222020987	2	-1.1	0930				✓
3	222070574	3	-1.2	0941			stream sonde (4x)	✓
4	221730229	4	-0.2	0943			center	✓
5	221730322	5	-0.6	0945			stream sonde (4x)	✓
6	222030355	6	?	0958				✓
7	221410189	7	-1.3	1012			e.p. 1	✓
8	221530531	8	-0.6	1046			l.p. 2	
9	221420512	1	-1.2	1057				
10	222030378	2	-0.6	1109				
11	221711271	3	-0.6	1110				
12	221750521	4	-1.5	1114				
13	222020985	5	-0.6	1121				
14	221810052	6	?	1132				
15	222050556	7	-1.0	1149	ASR			
16	221730258	8	-0.5	1204				
17	222030380	1	/	1216		NRW		
18	221730488	2	-0.5	1219				
19	221750634	3	-2.3	1223				
20	221730321	4	-1.0	1238				
21	222030374	5	-1.3	1249				
22	222010834	6	-0.9	1326				
23	2220834	7	-0.7	1345		NRW		
24	221730324	8	-1.2	1355		NRW		
25	222020988	1	-1.0	1400		12W		
26	221820324	2	-1.2	1416				
27	221721182	3	-1.0	1428				
28	221811271	4	?					
29		5	-2.6					
30								
31								

07/02/2024, 06:26:04-15:52:58



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	15.95	1.38	13.00	17.72
LongGPS.1 (deg), 1 s/sec	-66.81	1.53	-69.83	-64.63