

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:	2024070711	FLT #:	FY24-	AC:	Copare	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1600L / 2000Z	CP(s):	Palmer	Sim Aberson (HRD)	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0000L / 0400Z		Ellis				15	0	15
Block Time		Flight Time		NAV:	Utama	ASOS Takeoff		BTs			
Out:	20:06	T/O:	20:14	FE(s):	Stokes			Good	Bad	Sent	
In:	04:15	Land:	04:03	FD(s):	Zawislak	A/C Land		0	0	0	
Total:	8.2	Total:	7.8		Englert			ASOS Land			
Sponsoring Org:	NHC			SSA:	McAlister	Visitors:	Storm Number ID:		AL022024		
Program:	PRX			AVAPS:	Dykeman		(ie: AL072012)				
Purpose:	TDR Mission			SEB:	Betker	TCPOD/WSPOD Mission	NOAA3 3002A BERYL				
				Alvey	(ie: NOAA2 2418A SANDY)						
				MX:		OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				X	15 NWS sondes		1	OB04 27.01N/95.68W	22:54:34	988 mb 250/04 kt	
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION				X							
RELATIVE HUMIDITY ≥ 80%			X			2	OB11 27.15N/95.68W	00:18:11	988 mb 065/12 kt		
LARGE AIR-SEA TEMP GRADIENT				X							
HIGH SURFACE WINDS			X			3	OB16 27.31N/95.63W	01:24:54	988 mb 150/05 kt		
LONG FETCH / DURATION OF SFC WND			X								
SEA SALT ACCRETION FORECAST				X		4					
SEA SALT ACCRETION OBSERVED				X							
							Pennies:	3 x TS			

*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:	2024070711
Flight Director(s):	Zawislak / Englert
Mission:	Tasked/Operational
UWZ.d mean:	0.08

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1009.1	
Airfield	1010.8	

This form uses:	
_C.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"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d	<input checked="" type="checkbox"/> ALTref <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 <input checked="" type="checkbox"/> TDM.2 inop TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 inop TRadU.1		<input checked="" type="checkbox"/> TD.c <input checked="" type="checkbox"/> TDMref <input checked="" type="checkbox"/> HUM <input checked="" type="checkbox"/> TTMref <input checked="" type="checkbox"/> TA.d	
<input checked="" type="checkbox"/> Wind and Pressure X SFMR	SFMR	X CH 1 TB X CH 2 TB X CH 3 TB	X CH 4 TB X CH 5 TB X CH 6 TB		<input checked="" type="checkbox"/> UWZ.d <input checked="" type="checkbox"/> PSURF X WS SFMR	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> WD.d X 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:

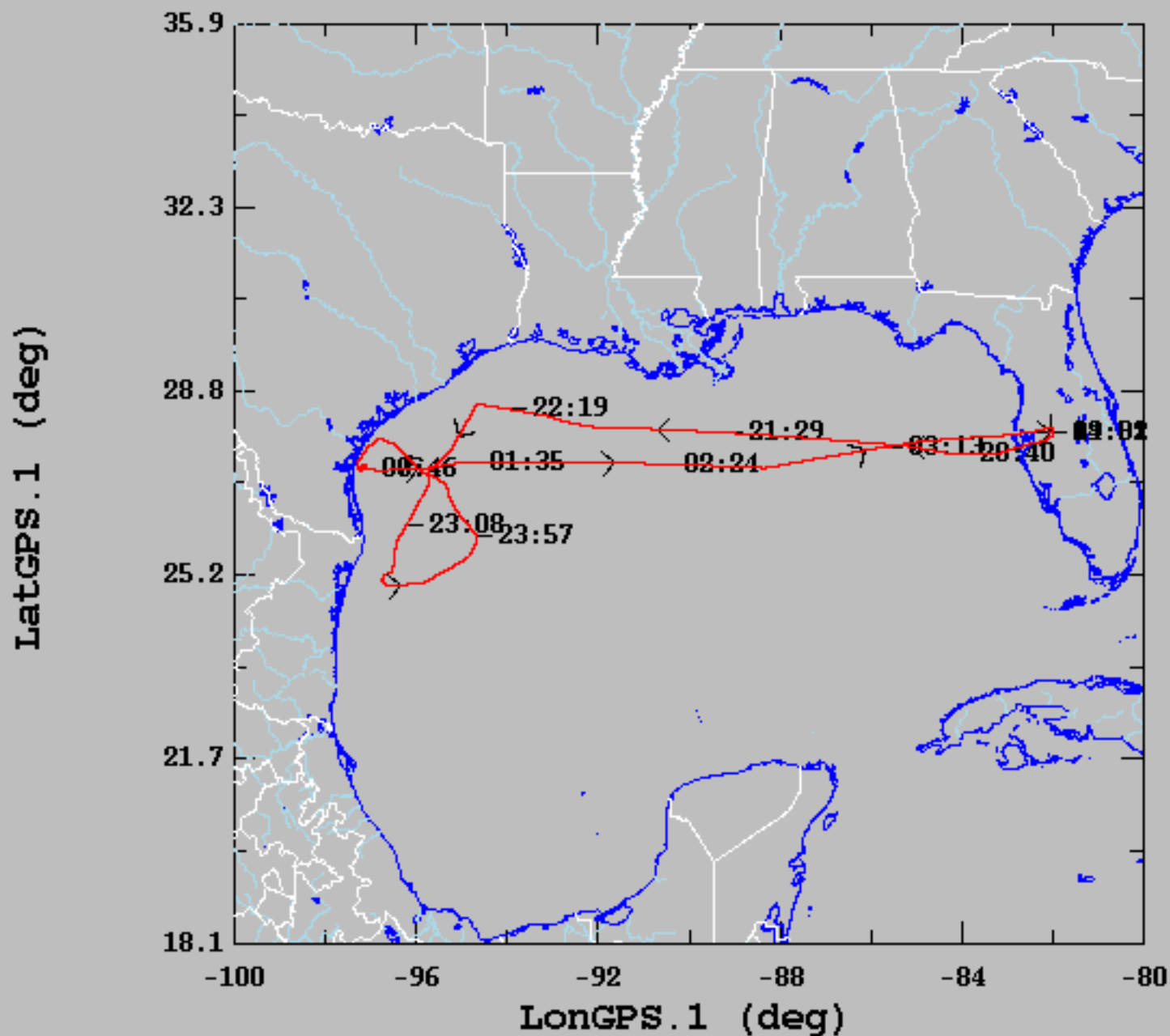
PitchI.3, RollI.33 not installed therefore no PitchRatI.3 / RollRatI.3 produced.
 TTM.3, TDM.3, TRadU.1 inoperable.
 PSM.1 trending approximately 5-17mb lower than PSM.2 throughout duration of flight.
 SFMR TB, WS SFMR, AND RAIN RATE SFMR needs further assessment and data should be used with caution.

AVAPS Drop Log

Project: Hurricane 24 Mission: Beryl Flight ID: 20240707E1
 Take Off: 2014Z Landing: 0405Z Flt Dir: Eng 14/2 Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	222030362	1	-1.0	2228	BRD	NWS	IPI 1	Y
2	222010083	2	-1.0	2241	BRD	NWS	MPI 1	Y
3	222050543	3	-0.9	2255	BRD	NWS	CP 1	Y
4	222030332	4	-1.0	2308	BRD	NWS	MPO 1	Y
5	222060062	5	-1.0	2320	BRD	NWS	EPI	Y
6	222010095	6	-1.3	2351	BRD	NWS	IP 2	Y
7	222060090	7	-1.2	0006	BRD	NWS	MPI 2	Y
8	222050425	8	-1.1	0018	BRD	NWS	CP 2	Y
9	222010094	1	-1.3	0030	BRD	NWS	MP 2	Y
10	222050553	2	-1.1	0035	BRD	NWS	EP 2	Y
11	222060062	3	-1.3	0105	BRD	NWS	IP 3	Y
12	222060064	4	-1.2	0115	BRD	NWS	MPI 3	Y
13	222030390	5	-1.3	0125	BRD	NWS	CP 3	Y
14	222050544	6	-1.0	0137	BRD	NWS	MPO 3	Y
15	222050542	7	-1.0	0151	BRD	NWS	EP 3	Y
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07/07/2024, 19:02:37-28:02:56



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	27.44	0.77	25.01	28.53
— LongGPS.1 (deg), 1 s/sec	-90.15	5.52	-97.27	-81.97