

N49RF ERROR SUMMARY
20240704N1

Flight ID: 20240704N1

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	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2024/MET/20240704N1

Local Met Data	Takeoff KLAL (1729Z)	Landing KLAL (0028Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.97461
AttackAngleSlope		5.40351
SlipAngleIntercept		0.71
SlipAngleSlope		6.22549
AttackAngleIntercept2		5.05753
AttackAngleSlope2		5.52397
SlipAngleIntercept2		0.931
SlipAngleSlope2		6.57562

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.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	27	26	26
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Flaherty
Phone #: 8635003980

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20240704N1	FLT #:		AC:	Bhatnagar	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:		CP(s):	Pawlenko		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:									
Block Time		Flight Time		NAV:			ASOS Takeoff		26	1	26
In:	0:34	Land:	0:26	FE(s):					BTs		
Out:	17:22	T/O:	17:30	FD(s):	Flaherty	Visitors:	A/C Land		Good	Bad	Sent
Total:	7.2	Total:	6.9	SSA:	Defeo			ASOS Land			
Sponsoring Org:		NWS			AVAPS:	Vargas	Storm Number ID:		AL022024		
Program:		PHS			SEB:	Brannigan	(ie: AL072012)				
Purpose:		HX BERYL			MX:		TCPOD/WSPOD Mission		NOAA9 2002A BERYL		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH								1			
SCIENCE MISSION WITHIN BDRY LAYER								2			
LACK OF PRECIPITATION								3			
RELATIVE HUMIDITY ≥ 80%								4			
LARGE AIR-SEA TEMP GRADIENT											
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED											
								Pennies:			
						*Highlighted items must be completed before departure.					
Remarks:											

G-IV QC Checklist

Overall Assessment

No instrument issues noted.

Flight ID:	20240704N1
Flight Director(s):	Flaherty/de Solo
Mission:	Tasked/Operational
UWZ.d mean:	-0.06

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1011.9	1011.2
Airfield	1011.1	1010.6

This form uses:

[A.nc](#)

Parameters	Raw				Derived, Corrected & Reference	
✓ Acceleration	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZI.1	✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ AccZI.2		
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3	✓ AccZI.3		
✓ Altitude	✓ AltGPS.1	✓ AltI.1	✓ AltPaADDU.1	✓ AltBCADDU.1	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	
	✓ AltGPS.2	✓ AltI.2	✓ AltPaADDU.2	✓ AltBCADDU.2		
	✓ AltGPS.3	✓ AltI.3	INOP AltRA.1			
✓ Ground Speed	✓ GsXI.1	✓ GsYI.1	✓ GsZI.1	✓ GsGPS.1	✓ GSXref ✓ GSYref ✓ GSZref	
	✓ GsXI.2	✓ GsYI.2	✓ GsZI.2	✓ GsGPS.2		
	✓ GsXI.3	✓ GsYI.3	✓ GsZI.3			
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1			
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2			
✓ Location	✓ LatGPS.1	✓ LatI.1	✓ LongGPS.1	✓ LonI.1	✓ LATref ✓ LONref	
	✓ LatGPS.2	✓ LatI.2	✓ LongGPS.2	✓ LonI.2		
	✓ LatGPS.3	✓ LatI.3	✓ LongGPS.3	✓ LonI.3		
✓ Pressure Sensors	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c	
	✓ PDALPHA.2	✓ PQALPHA.2	✓ PQM.2	✓ PSM.2		
	✓ PDBETA.1	✓ PQBETA.1				
	✓ PDBETA.2	✓ PQBETA.2				
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1			✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1	✓ PitchRatel.1	✓ RollI.1	✓ RollRatel.1	✓ PITCHref ✓ ROLLref	
	✓ PitchI.2	✓ PitchRatel.2	✓ RollI.2	✓ RollRatel.2		
	✓ PitchI.3	✓ PitchRatel.3	✓ RollI.3	✓ RollRatel.3		
✓ Temperature / Dewpoint	✓ TTM.1	✓ TTM.4	X TDM.1		✓ TD.c ✓ TDMref ✓ HUM	✓ TTMref ✓ TA.d
	INOP TTM.2		✓ TDM.2			
	✓ TTM.3					
✓ Wind					✓ UWZ.d	✓ WS.d ✓ WD.d

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:

AVAPS Drop Log

 Project: A/R 2023/24

 Mission: Beryl

 Flight ID: 20240704N1

 Take Off: 1330

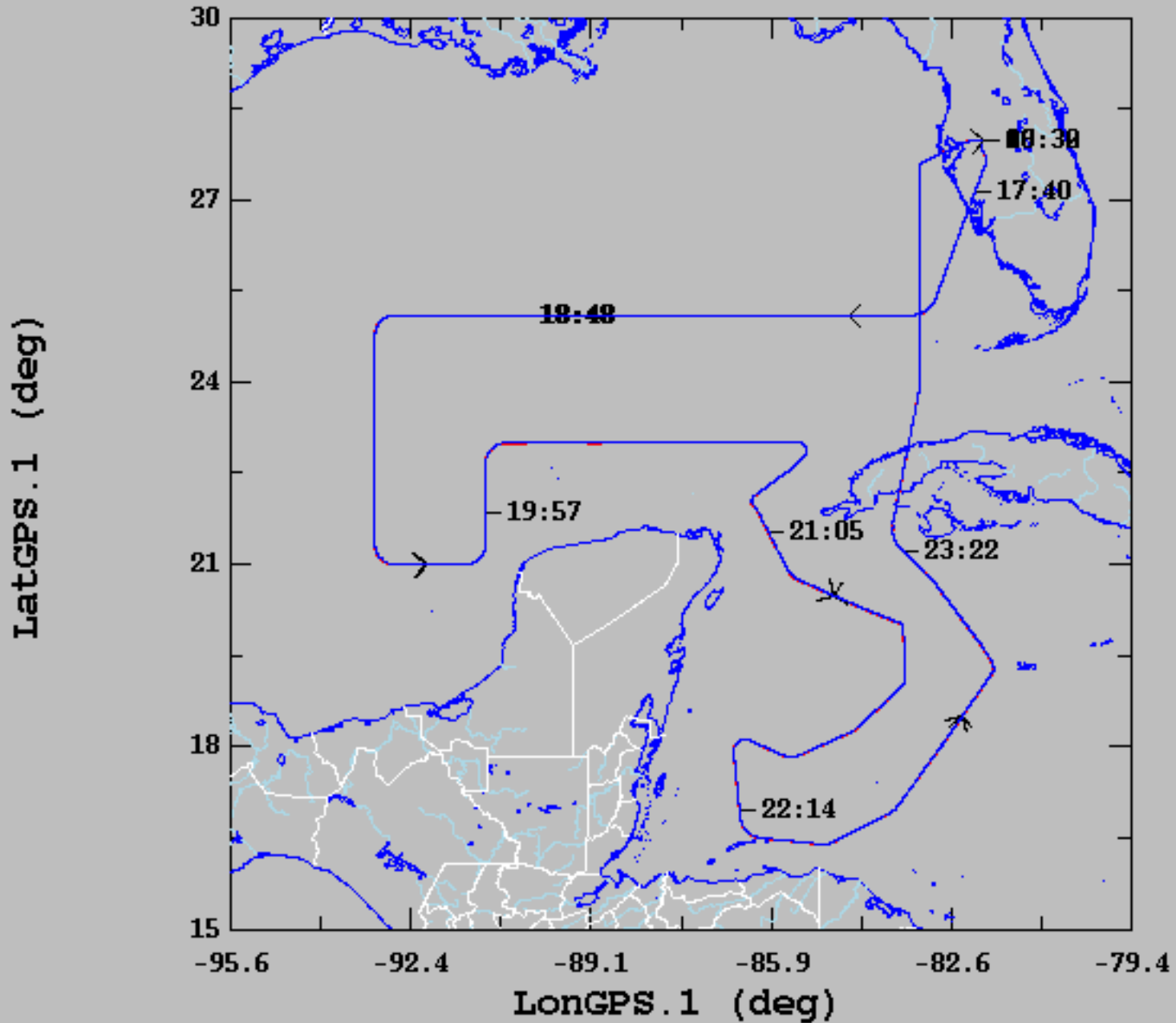
Landing: _____

 Flt Dir: Sofia

 Launcher S/N: 2

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	230530325	1	-1.2	1757	THB	PHS		✓
2	230650143	2	-0.9	1811	THB	PHS		✓
3	230450395	3	-0.7	1825	THB	PHS		✓
4	230931796	4	-0.7	1839	THB	PHS		✓
5	230640118	1	-0.8	1852	THB	PHS		✓
6	230650125	2	-0.2	1905	THB	PHS		✓
7	230710630	3	-0.8	1921	THB	PHS	Bad temp	
8	230620755	4	-0.8	1937	THB	PHS		✓
9	230931844	1	-0.4	1951	THB	PHS	402.7	✓
10	230630112	2	0.6	2005	THB	PHS	403.7	✓
11	230240042	3	-0.5	2020	THB	PHS	404.7	✓
12	230351482	4	-0.7	2035	THB	PHS	405.7	✓
13	230351463	1	-0.8	2049	JW	PHS	400.7	✓
14	230351451	2	-0.6	2101	JW	PHS	401.7	✓
15	230940007	3	-0.4	2112	JW	PHS	402.7	✓
16	230650134	4	-0.8	2122	JW	PHS	403.7	✓
17	230351462	1	-0.2	2135	JW	PHS	404.7	✓
18	230351544	2	-0.0	2148	JW	PHS	405.7	✓
19	230640112	3	-0.5	2157	JW	PHS	400.7	✓
20	230351439	4	-0.5	2204	JW	PHS	401.7	✓
21	230351532	1	-0.7	2217	JW	PHS	402.7	✓
22	233814599	2	-0.4	2228	JW	PHS	403.7	✓
23	230620817	3	-1.7	2239	JW	PHS	404.7	✓
24	230351441	4	-0.8	2250	JW	PHS	405.7	✓
25	230640144	1	-0.5	2300	JW	PHS	400.7	✓
26	230620811	2	-0.4	2315	JW	PHS	401.7	✓
27	233814532	3	-0.1	2324	JW	PHS	402.7	✓
28	230351470	4	-1.1		JW	PHS	403.7 / B/U	
29								
30								
31								

07/04/2024, 16:32:06-24:30:54



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	23.09	3.50	16.39	27.99
— LonGPS.1 (deg), 1 s/sec	-85.64	3.55	-93.00	-81.85
— LatI.1 (deg), 1 s/sec	23.08	3.50	16.39	27.99
— LonI.1 (deg), 1 s/sec	-85.64	3.55	-93.01	-81.85