N49RF ERROR SUMMARY
TS FRANKLIN 0308A

Flight ID: 20230822N1

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	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/2023/MET/20230822N1

Local Met Data	Takeoff KLAL (0329Z)	Landing KLAL (1024Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		4.97461
AttackAngleSlope2		5.40351
SlipAngleIntercept2		0.71
SlipAngleSlope2		6.22545

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	18	15	15
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Henning
Phone #: (850) 499-0151
ACAT-4 Version = 7.4

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

FLIGHT INFORMATION

FLT ID:	20230822N1	FLT #:	
From:	KLAL	ETD:	
To:	KLAL	ETA:	

Block Time		Flight Time	
In:	1034	Land:	1024
Out:	0320	T/O:	0329
Total:	7.2	Total:	6.9

Sponsoring Org:	NHC
Program:	PRX
Purpose:	TDR tasking TS FRANKLIN

CREW MANIFEST

AC:	NARDI	Scientists:
CP(s):	WARWIG	DUNION (ASPEN)
	SMITH	
NAV:		
FE(s):		
FD(s):	HENNING	
SSA:	PAUL	Visitors:
AVAPS:	DYKEMAN	
	WEINMANN	
SEB:		
MX:		

MISSION INFORMATION

Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff		15	3	15
ASOS Takeoff		BTs		
		Good	Bad	Sent
A/C Land				
ASOS Land				

Storm Number ID: (ie: AL072012)	
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA9 0308A FRANKLIN

AS REQUIRED BY ORM

	Y	N
VOLCANIC ASH		x
SCIENCE MISSION WITHIN BDRY LAYER		
LACK OF PRECIPITATION		
RELATIVE HUMIDITY ≥ 80%		
LARGE AIR-SEA TEMP GRADIENT		
HIGH SURFACE WINDS		
LONG FETCH / DURATION OF SFC WND		
SEA SALT ACCRETION FORECAST		
SEA SALT ACCRETION OBSERVED		

REMARKS

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP
1			
2			
3			
4			
Pennies:			

*Highlighted items must be completed before departure.

Remarks: 1 sonde NO LAUNCH DETECT
2 no PTH

W

G-IV QC Checklist

Flight ID:	20230822N1
Flight Director(s)	Henning / Dunion (ASPEN)

UWZ.d mean:	-0.06

Pressure Comparison		
	T/O	Land
Aircraft	1013.2	1011.0
Tower	1013.6	1009.7

	Raw 1Hz Mean File Parameters				C File Parameters	
☑ Accelerometer	☑ AccAXI.1	☑ AccAYI.1	☑ AccAZI.1		☑ AccZref	
	☑ AccAXI.2	☑ AccAYI.2	☑ AccAZI.2			
	☑ AccAXI.3	☑ AccAYI.3	☑ AccAZI.3			
☑ Altitude	☑ AltGPS.1	☑ AltI.1	☑ AltPaADDU.1	☑ AltBCADDU.1	☑ ALTref	
	☑ AltGPS.2	☑ AltI.2	☑ AltPaADDU.2	☑ AltBCADDU.2	☑ ALTPA.d	
	☑ AltGPS.3	☑ AltI.3	x AltRA.1		☑ ALTGA.d	
☑ Ground Speed	☑ GsXI.1	☑ GsYI.1	☑ GsZI.1	☑ GsGPS.1	☑ GSXref	
	☑ GsXI.2	☑ GsYI.2	☑ GsZI.2	☑ GsGPS.2	☑ GSYref	
	☑ GsXI.3	☑ GsYI.3	☑ GsZI.3	☑ GsGPS.3	☑ GSZref	
	☑ GsXGPS.1	☑ GsYGPS.1	☑ GsZGPS.1			
	☑ GsXGPS.2	☑ GsYGPS.2	☑ GsZGPS.2			
	☑ GsXGPS.3	☑ GsYGPS.3	☑ GsZGPS.3			
☑ Lat / Lon	☑ LatGPS.1	☑ LatI.1	☑ LonGPS.1	☑ LonI.1	☑ LATref	
	☑ LatGPS.2	☑ LatI.2	☑ LonGPS.2	☑ LonI.2	☑ LONref	
	☑ LatGPS.3		☑ LonGPS.3			
☑ Pressure	☑ PDALPHA.1	☑ PQALPHA.1	☑ PQM.1	☑ PSM.1	☑ PDLAPHAref	☑ PQMref
	☑ PDALPHA.2	☑ PQALPHA.2	☑ PQM.2	☑ PSM.2	☑ PDBETAref	☑ PQ.c
	☑ PDBETA.1	☑ PQBETA.1			☑ PQALPHAref	☑ PSMref
	☑ PDBETA.2	☑ PQBETA.2			☑ PQBETAref	☑ PS.c
☑ Air Speed	☑ CasADDU.1	☑ TasADDU.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	
	☑ PitchI.3	☑ PitchRateI.3	☑ RollI.3	☑ RollRateI.3		
x Temp / Dewpt	☑ TTM.1	☑ TTM.4	x TDM.1		x TD.c	☑ TTMref
	☑ TTM.2		x TDM.2		x TDMref	☑ TA.d
	☑ TTM.3					
x Misc. (Must check)					UWZ.d	☑ WS.d
					DPJ_WSZ	☑ WD.d
					x HUM	

FLID_Mission_Documents.pdf:	
☑	Error Summary
☑	Crew Manifest
☑	QC Checklist
☑	Dropwindsonde Log(s) - AVAPS and FD if completed
☑	Flight Track
☐	Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☑
Errors (note)	x

NOTES:

Radar Altitude INOP. GPS 3 (Novatel) is used for absolute altitude in calculation of all MET parameters.

All FL humidity data is suspect above 25,000 feet. TDM2 is fairly accurate at lower altitudes

Dropwindsonde Scientist Log

Storm:	Franklin	**Flight ID:**	20230822N1	**Mission ID:**	0308A	**Takeoff:**	0329Z	**Landing:**	1024Z

Dropsonde Scientist(s):	Jason Dunion	**AVAPS Operator:**	Rocky, Brian

Pre-flight

✓ Discuss the pattern with the Lead Project Scientist (LPS) and ensure that enough dropsondes are onboard.
✓ Complete the appropriate pre-flight set-up of your workstation and ASPEN (see Dropsonde Processing Guide).

In-flight

✓ Ensure the Flight Director is aware of upcoming drops and whether a backup is requested in case of failure.
✓ Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal.
✓ Prioritize processing of center drops and report MSLP and surface wind speed and direction to the Flight Director.
✓ Fill in the Dropwindsonde Scientist log as drops are released and processed.
✓ Copy completed ASPEN files (e.g., FRD, netCDF, Skew-t, WMO txt, BUFR) into the "FRD" folder on the workstation desktop for automated transmission to the ground for archival.

Once "science is complete"...

✓ Make synoptic map plots in ASPEN and copy them to the "FRD" folder on the workstation desktop for automated transmission to the ground for archival.
✓ Ensure ASPEN files have been sent to the ground by locating and verifying all files in the "FLIGHTID" folder within the "FRD" folder on the workstation desktop.
✓ Archive ASPEN_DATA and RAW_DATA into a folder named with the FLIGHTID within the "Season Dropsonde Archive" folder on the workstation desktop and upload the same directories into StormName/FLIGHTID/Dropsonde/ folder on Drive.
✓ Download this Dropwindsonde Scientist Log as "PDF" and upload completed PDF and Google Doc to the StormName/FLIGHTID/Dropsonde/ folder within the "Mission Reports" directory in the HFP Google Drive.

Storm: Franklin **Flight ID: 20230822N1** **Mission ID: 0308A**

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Direction/Speed (deg/kt)	Lowest Wind Height (m)	AXBT SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
1	221350753	053249	17.252	69.786	1007.9	120/16	10			01
Comments:										
2		0540								X
Comments: No launch detect- backed up										
3	220571002	054057	16.431	70.193	1006.1	095/18	10			02
Comments:										
4	221340037	054729	15.774	70.572	1005.9	080/18	10			03
Comments:										
5	221470657	055450	15.022	71.023	1003.9	095/23	10			04
Comments:										
6	221470775	060207	14.272	71.473	1003.7	090/16	10			05
Comments:										
7	221470111	060811	13.727	71.923	1003.9	015.13	10			06
Comments: SW WP										
8	221470622	062419	15.334	72.854	1004.8	075/16	10			07
Comments: W WP										
9	221410004	063142	15.400	71.902	1004.3	070/22	10			08
Comments:										
10	221470621	064007	15.489	70.800	1004.9	145.15	10			09
Comments: near area of “center”										

Storm: Franklin **Flight ID: 20230822N1** **Mission ID: 0308A**

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Direction/Speed (deg/kt)	Lowest Wind Height (m)	AXBT SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
11	221210173	064913	15.608	69.608	1005.4	105/27	10			10
Comments: deviated a bit for convection along this center-E leg										
12	220620190	065640	15.281	68.713	1006.1	105/25	10			11
Comments:										
13	221220211	071657	13.320	68.879	1004.5	100/26	10			12
Comments: Interesting T and DP near 450 mb (ice sublimation?)										
14		075641	16.250	16.250						X
Comments: No PTH- backed up										
15	221220394	075734	16.282	70.647	1005.5	095/25	10			13
Comments: Set end of file at 872.5s										
16	221220237	080450	16.570	71.480	1005.3	085/20	10			14
Comments:										
17		081151	17.295	71.920						X
Comments: No PTH- backed up										
18	221030384	081248	17.405	71.959	1005.2	080/21	10			15
Comments: LAST REPORT										
Comments:										

Storm: Franklin **Flight ID: 20230822N1** **Mission ID: 0308A**

Comments:

08/22/2023, 02:26:12-10:34:08