

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	2024090911	FLT #:	FY24-	AC:	Copare	Scientists:		Pressure		Drosondes		
From:	KLAL	ETD:	1600L / 2000Z	CP(s):	Reeves	Aberson (HRD)		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0000L / 0400Z		Keith					ASOS Takeoff		13
Block Time		Flight Time		NAV:	Utama/Dunford/Meier			ASOS Land				BTs
In:	4:41	Land:	4:34	FE(s):	Wysinger					A/C Land		Good
Out:	20:19	T/O:	20:32	FD(s):	Ripp			ASOS Land				0
Total:	8.4	Total:	8.0	SSA:	Richards	Visitors:				Storm Number ID:		AL062024
Sponsoring Org:	NHC			AVAPS:	Paul/Hunsinger	Brownrigg (NCAR)		(ie: AL072012)				
Program:	PRX			SEB:		Sipsy, Savannah		TCPD/WSPD Mission		NOAA3 0506A FRANCINE		
Purpose:	PTC 6 TDR Mission			MX:				(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X	Successful launches:		1	23.96N/96.04W	2355z	989 mb extrap	
SCIENCE MISSION WITHIN BDRY LAYER					X	13 minisondes						
LACK OF PRECIPITATION					X	1 microswift wave buoy		2	23.98N/96.03W	0053z	994 mb	
RELATIVE HUMIDITY ≥ 80%				X								
LARGE AIR-SEA TEMP GRADIENT					X			3	24.02N/96.16W	0142z	990 mb extrap	
HIGH SURFACE WINDS				X								
LONG FETCH / DURATION OF SFC WND					X			4				
SEA SALT ACCRETION FORECAST					X							
SEA SALT ACCRETION OBSERVED					X			Pennies:	3x 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:	2024090911
Flight Director(s):	Englert/Zawislak
Mission:	Tasked/Operational
UWZ.d mean:	0.13

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1008.1	1013.6
Airfield	1008.7	1011.5

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"/> 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 <input style="background-color: #ccccff;" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.1 <input checked="" type="checkbox"/> PitchRateI.2 <input style="background-color: #ccccff;" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <input style="background-color: #ccccff;" type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.1 <input checked="" type="checkbox"/> RollRateI.2 <input style="background-color: #ccccff;" type="checkbox"/> RollRateI.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 <input style="background-color: #ccccff;" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 <input style="background-color: #ccccff;" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <input style="background-color: #ccccff;" type="checkbox"/> 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 <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 <input checked="" type="checkbox"/> PSURF <input checked="" type="checkbox"/> WS SFMR	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> 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)	<input checked="" type="checkbox"/>
Sensor Inoperative	<input style="background-color: #ccccff;" type="checkbox"/>

NOTES:

Pitch and Roll I.3, TTM.3, TDM.3, and TRadU.1 not operational.

PDBeta.2 shows erroneous data from 2212-2205z.

PQM.4 erroneous from 2124-2208z.

SFMR data (all channel TB, WS, RAIN RATE) under assessment and should be used with caution.

AVAPS Drop Log

Project: HX 24

Mission: FRANCINE

Flight ID: 20240909T1

Take Off: _____

Landing: _____

Flt Dir: Engleat / JZ

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	233541308	1	-0.2	2316	SCP	NWS	ACS 1P2	✓
2	233140641	2	-1.0	2339	SCP	NWS	ACS MP	✓
3	233140458	3	-0.3	0005	SCP	NWS	ACS MP	✓
4	233631988	4	-0.3	0014	SCP	NWS	ACS EP1	✓
5	233667953	1	-0.4	0032	JH	NWS	ACS IP2	✓
6	233220244	2	-0.3	0042	JH	NWS	ACS MP	✓
7	233630640	3	-0.5	0052	JH	NWS	ACS CNT	✓
8	233640834	1	-0.4	0103	JH	NWS	ACS MP	✓
9	233631429	4	0.1	0109	JH	NWS	ACS EP2	✓
10	233550536	2	-0.5	BAD	Humidity	NWS	no Drop	
10	233630629	2	-0.5	0124	JH	NWS	ACS IP3	✓
11	2336410236	3	-0.5	0133	JH	NWS	ACS MP	✓
12	233220181	1	-0.2	0154	JH	NWS	ACS MP	✓
13	233631970	4	-0.2	0208	JH	NWS	ACS EP3	✓
14	232240101	2	-0.4					
15								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

hung x3
drop 2 shut off

need root pw to change time

Dropwindsonde Scientist Log

Storm:	FRANCINE	Flight ID:	24090911	Mission ID:	0506A	Takeoff:	2032 z	Landing:	Z
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Dropsonde Scientist(s):	Kaplan	AVAPS Operator:	
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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: <<FRANCINE>>

Flight ID: <<24090911>>

Mission ID: <<0506A>>

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	233541308	2316	25.93	96.01	1006.5	50/25	10			1
2	233140641	2339	25.02	96.09	1004.2	42/20	10			2
3	233140458	0005	23.26	95.85	1002.9	277/35	10			3
4	233631988	0014	22.71	95.83	1005.1	298/34	10			3
This somehow also got sent as obs 3.										
5	233667953	0032	23.32	94.68	1005.5	220/17	10			4
6	233220244	0042	23.64	95.34	1002.6	209/12	10			5
7	233630646	0052	24.00	96.07	993.8	50/18	10			6
8	233631429	0109	24.51	97.25	1007.1	322/37	10			7
Change end of drop to 239.0										
9	233630629	0124	23.46	97.28	1007.7	307/38	10			8
Changed end of drop to 236.5										
10	233640236	0133	23.78	96.73	1003.7	305/46	10			9

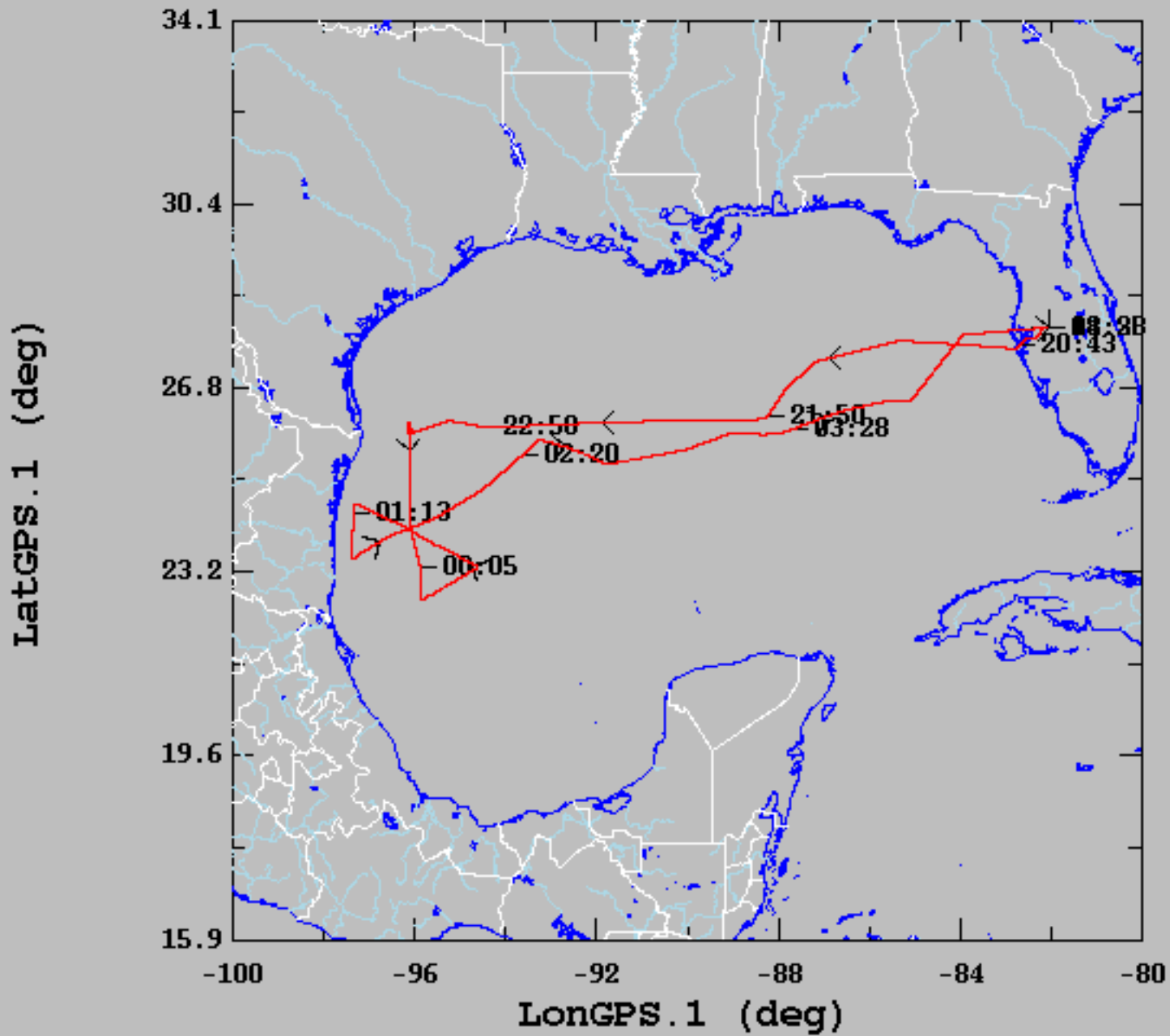
Storm: <<FRANCINE>>

Flight ID: <<24090911>>

Mission ID: <<0506A>>

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	233220181	0154	24.36	95.29	1003.9	116/24	10			10
Send end of drop to 254.5										
12	233631970	0208	24.91	94.33	1006.4	155/11	10			11
13	233640834	0103	24.32	96.81	1003.7	357/30	10			12
Comments:										

09/09/2024, 18:28:13-28:35:37



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	26.08	1.58	22.65	27.99
— LonGPS.1 (deg), 1 s/sec	-89.59	5.59	-97.37	-82.01