

N43RF Error Summary
Flight ID 2024302011
Flight Directory: acdata/2024/MET/2024032011

<u>Sensor or System</u>	<u>Number or Name</u>
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dew Point Temperature Probe	TDM.2
Vertical Accelerometer	AccZfilterI-GPS.1
Altimeter	AltGPS.1
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure probe	PQBETA.1

Local Met Data

Take off: KLAL (1612Z)	Landing: KLAL (2027Z)
Dynamic Corrections	Yes
Attack Angle Intercept	0.050058
Attack Angle Slope	5.32015
Slip Angle Intercept	0.165
Slip Angle Slope	6.66754

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Take off/landing data are potentially suspect. It is recommended that ground data is not to be used for scientific analysis.

SFMR was not installed for this project, all SFMR parameters marked as "inop".

All GPS.3 & .4 parameters show "nan" between 17:07 - 17:09.

TDM.1 has large spikes, but mostly trends with TDM.2.

TDM.3 inoperable. Data is flatlined.

Expendables

Type	# deployed	# good	# transmitted
Dropsondes	20	20	0
Test sondes	0	0	0
AXBTS	1	1	1
UAS	1	1	0

Flight Director: Kalen / Englert

Phone: 863-500-3962

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2024032011	FLT #:		AC:	Wood	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1600Z	CP(s):	Palmer	Cione	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	2000Z			Wadler			17 Stream 4 IR 1 SO	0	0
Block Time		Flight Time		NAV:	Miller/Richards, B/Freeman	Zhang, J.	ASOS Takeoff		BTs		
In:	20:33	Land:	20:27	FE(s):	Wysinger	Elston			Good	Bad	Sent
Out:	16:00	T/O:	16:12	FD(s):	Kalen	De Loch	A/C Land		1	0	0
						Englert / Zawislak	Kaisti				
Total:	4.6	Total:	4.3	SSA:	Richards, T.	Visitors:	ASOS Land		Storm Number ID:		
Sponsoring Org:		Emerging Technologies		AVAPS:	Paul, S.	Pinsonneault	(ie: AL072012)		AL852024		
Program:		PR4		SEB:	Brannigan		TCPD/WSPD Mission		WXWXA TRAIN		
Purpose:		Streamsonde and Blackswift Testing						(ie: NOAA2 2418A SANDY)			
				MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				x			1				
SCIENCE MISSION WITHIN BDRY LAYER			x								
LACK OF PRECIPITATION			x								
RELATIVE HUMIDITY ≥ 80%				x			2				
LARGE AIR-SEA TEMP GRADIENT				x							
HIGH SURFACE WINDS				x							
LONG FETCH / DURATION OF SFC WND				x			3				
SEA SALT ACCRETION FORECAST				x							
SEA SALT ACCRETION OBSERVED				x							
							Pennies:				
							*Highlighted items must be completed before departure.				
Remarks:											

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20240320I1
Flight Director(s):	Kalen / Englert
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	-0.27

Pressure Comparison		
	Pre-flight	Post-flight
Aircraft	1015.1	-
Airfield	1015.2	1012.5

This form uses:
_A.nc

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

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:
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AVAPS Drop Log

Project: ET

Mission: 1

Flight ID: 20240320 II2

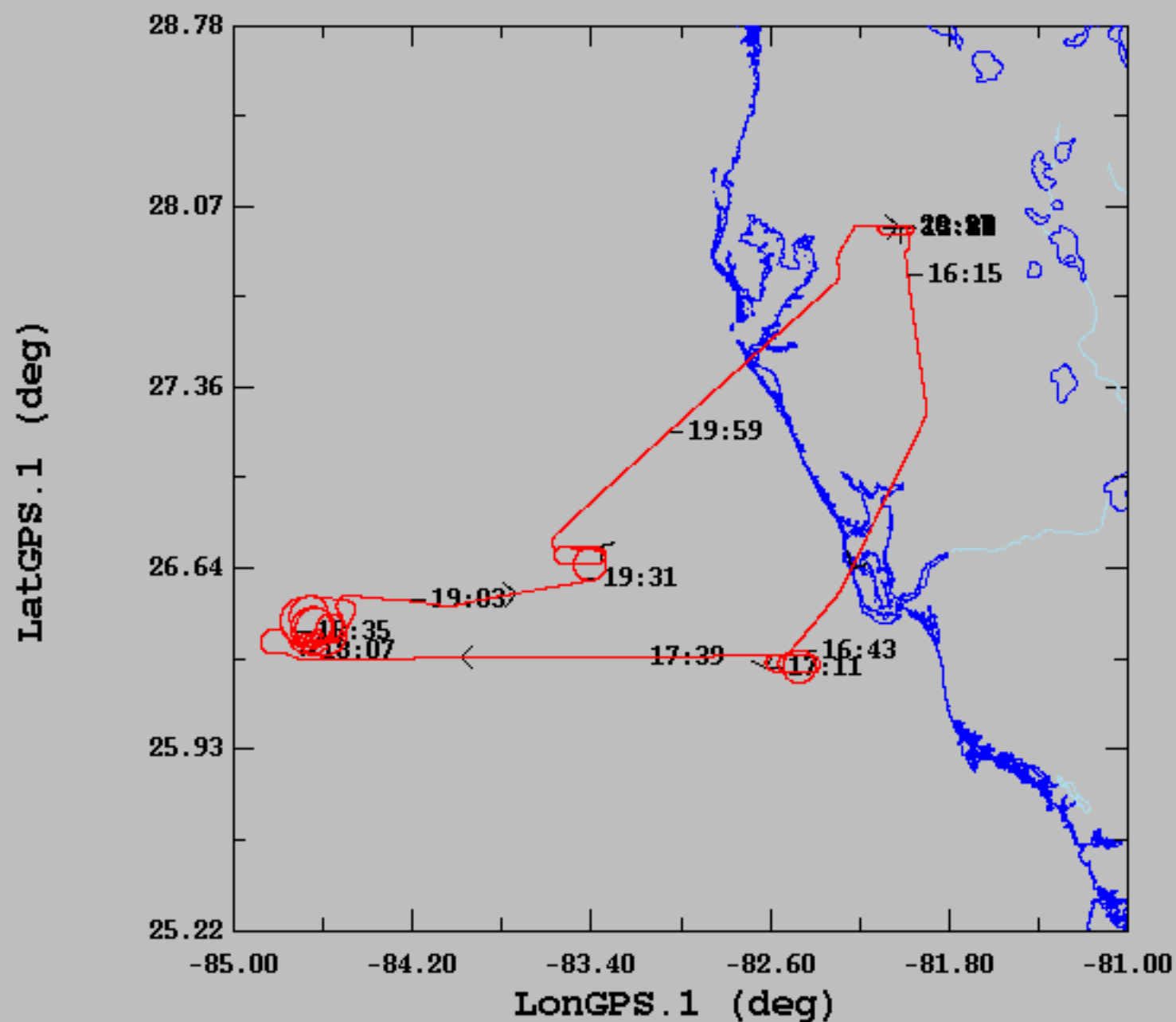
Take Off: ~1600Z

Landing: _____

Flt Dir: Kale/CNGUAT Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	220 570 971	1	0	1710	SCP	1R		✓
2	220 460 016	1	1.3	1735	SCP	1R	BS radio on	✓
3	210 428 074	1	0.4	1845	SCP	1R	BS radio 0.7	✓
4	220 570 961	1	1.0	1936	SCP	1R	radio off	
5								
6								
7								
8								
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10								
11								
12								
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03/20/2024, 13:56:18-20:27:11



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.11	0.75	26.19	28.00
LongGPS.1 (deg), 1 s/sec	-82.86	0.98	-84.88	-81.90