

N43RF ERROR SUMMARY
20230324I1

Flight ID: 20230324I1

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	AccZfilterI-GPS.1
Altimeter	AltGPS.2
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

Flight Directory acdata/2023/MET/20230324I1

Local Met Data	Takeoff KLAL (2024Z)	Landing KLAL (0144Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.050058
AttackAngleSlope		5.32015
SlipAngleIntercept		0.165
SlipAngleSlope		6.66754

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.

All GPS.3 parameters not representative
Electrical oscillations in PQMs, WS.d, WD.d, PDALPHAs, and PDBETAs
PQM.1 trending ~10 mb high; noisy
PSM.1 trending ~10 mb low; noisier than PSM.2
TTM.3 & TDM.3 inop

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	9	8	0
Test sondes	0	0	0
AXBTs	2	2	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	1	0	0

Flight Director: Kalen / Zawislak
Phone #: 863-500-3962

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:	20230324I1	FLT #:		AC:	Gaston	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2000Z	CP(s):	Palmer	Cione	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0000Z			Wadler				8	1
Block Time		Flight Time		NAV:	Hough	Kaisti	ASOS Takeoff		BTs		
In:	0:45	Land:	0:30	FE(s):	Tyson	Villafane					
Out:	20:11	T/O:	20:25	FD(s):	Kalen	Hollingshead	A/C Land		Good	Bad	Sent
					Zawislak	Chaibongsai			2	0	0
Total:	4.6	Total:	4.1	SSA:	Richards	Visitors:	ASOS Land		2	0	0
				AVAPS:	Dykeman						
Sponsoring Org:		HRD		SEB:	Underwood		Storm Number ID:		N/A		
Program:		PR4					(ie: AL072012)				
Purpose:		Skyfora / UAS Testing			MX:			TCP0D/WSP0D Mission		WXWXA TRAIN	
							(ie: NOAA2 2418A SANDY)				
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			2				
RELATIVE HUMIDITY ≥ 80%					x						
LARGE AIR-SEA TEMP GRADIENT					x		3				
HIGH SURFACE WINDS					x						
LONG FETCH / DURATION OF SFC WND					x		4				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED					x		Pennies:				
*Highlighted items must be completed before departure.											
Remarks:											

P-3 QC Checklist

Flight ID:	20230324I1
Flight Director(s)	Kalen / Zawislak
UWZ.d mean:	-0.07

Pressure Comparison		
	T/O	Land
Aircraft	1010.9	-
Tower	1011.3	1011.9

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ 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				✓ ALTGA.d		
	✓ AltGPS.4						
✓ Ground Speed	✓ GsXI-GPS.1	✓ GsYI-GPS.1	✓ GsZI-GPS.1		✓ GSXref		
	✓ GsXI-GPS.2	✓ GsYI-GPS.2	✓ GsZI-GPS.2		✓ GSYref		
					✓ GSZref		
✓ Lat / Lon	✓ 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				
	✓ LatGPS.4		✓ LonGPS.4				
✓ Pressure	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PDLAPHaref	✓ PQMref	
	✓ PDALPHA.2	✓ PQBETA.1	✓ PQM.2	✓ PSM.2	✓ PDBETAref	✓ PQ.c	
	✓ PDBETA.1		✓ PQM.3	✓ PTM.1	✓ PQALPHaref	✓ PSMref	
	✓ PDBETA.2		✓ PQM.4		✓ PQBETAref	✓ PS.c	
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.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			
✓ Temp / Dewpt	✓ TTM.1	✓ TDM.1	✓ TRadD.1		✓ TD.c	✓ TTMref	
	✓ TTM.2	✓ TDM.2	✓ TRadS.1		✓ TDMref	✓ TA.d	
	x TTM.3	x TDM.3	□ TRadU.1				
✓ Misc. (Must check)					✓ UWZ.d	✓ WS.d	
					✓ DPJ_WSZ	✓ WD.d	
					✓ HUM		

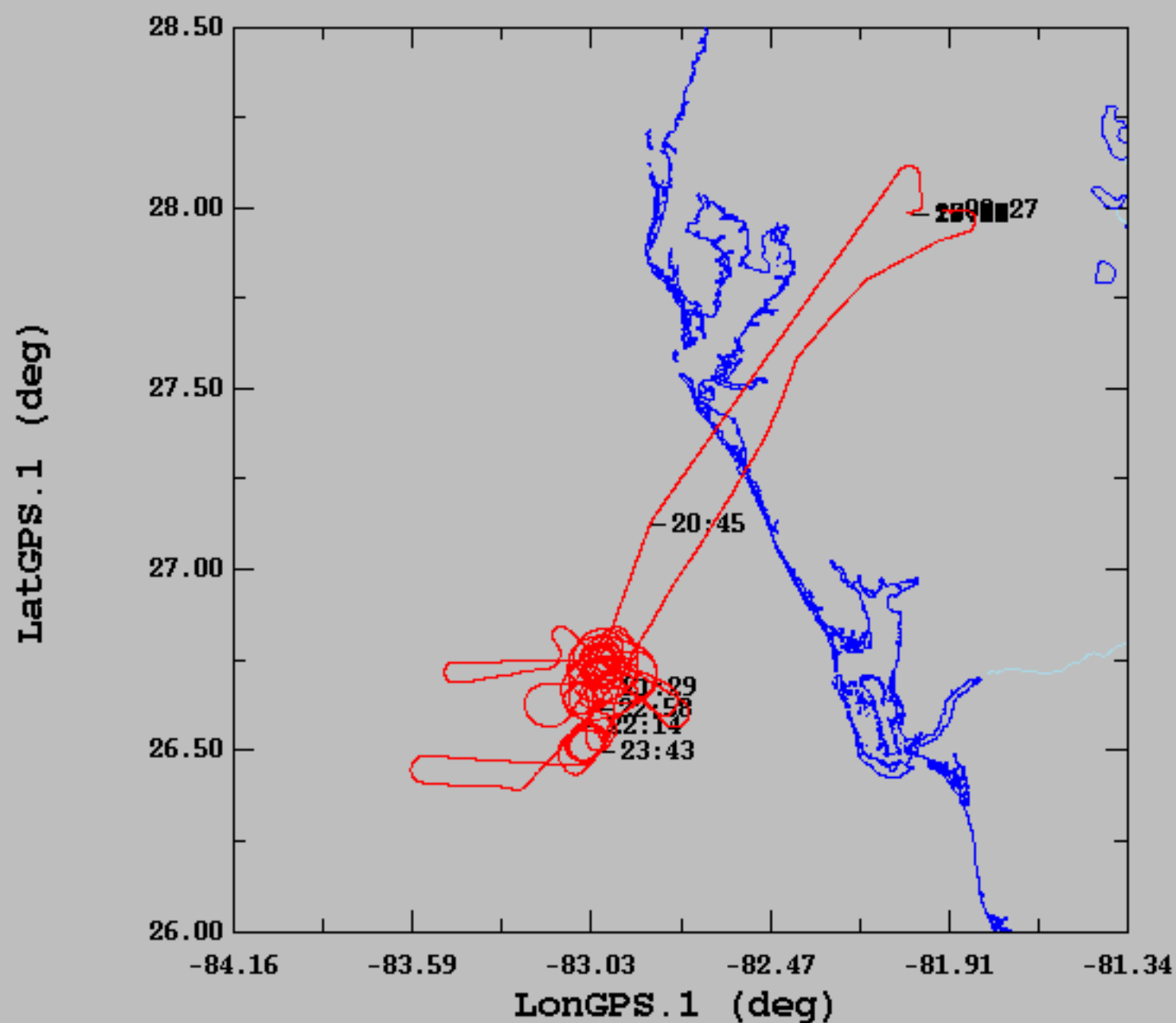
FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
□ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✓ Miscellaneous FD Notes

QC Key	
Not checked	□
Valid	✓
Errors (note)	x

NOTES:

All GPS.3 parameters not representative
 Electrical oscillations in PQMs, WS.d, WD.d, PDALPHAs, and PDBETAs
 PQM.1 trending ~10 mb high; noisy
 PSM.1 trending ~10 mb low; noisier than PSM.2
 TTM.3 & TDM.3 inop

03/24/2023, 17:47:27-24:27:51



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.28	0.64	26.39	28.12
LonGPS.1 (deg), 1 s/sec	-82.56	0.50	-83.60	-81.82