

N49RF ERROR SUMMARY
20220603N1

Flight ID: 20220603N1

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.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2022/MET/20220603N1

Local Met Data	Takeoff KLAL (1348Z)	Landing KLAL (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept		1.06
SlipAngleSlope		6.97813

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.

AltRa.1 inop
.1 and .2 GPS parameters stair step
PDBETA.2 trends ~7mb high
Humidity parameters suspect
QC performed by Quinn Kalen

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	2	2	2
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 #: 863-500-3982

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220603N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1330Z	CP(s):	Mansour		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1930Z						2	0	2
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	20:11	Land:	20:06	FE(s):			A/C Land		Good	Bad	Sent
Out:	13:35	T/O:	13:48	FD(s):	Henning		ASOS Land				
Total:	6.6	Total:	6.3	SSA:	Defeo	Visitors:					
Sponsoring Org:		AOC		AVAPS:			Storm Number ID:		N/A		
Program:		PSM		SEB:			(ie: AL072012)				
Purpose:		Shake down / Wind Cal		MX:			TCPD/WSPD Mission		NOAA9 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 BDY 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:											

G-IV QC Checklist

Flight ID:	20220603N1	Pressure Comparison			
Flight Director(s)	Henning		T/O	Land	
		Aircraft	1007.1	1007.1	
		Tower	1007.6	1008.5	
UWZ.d mean:	-0.02				

	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	☒ 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			
☒ Temp / Dewpt	☒ TTM.1	☒ TTM.4	☒ TDM.1		☒ TD.c	☒ TTMref	
	☐ TTM.2		☒ TDM.2		☒ TDMref	☒ TA.d	
	☒ TTM.3						
☒ 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

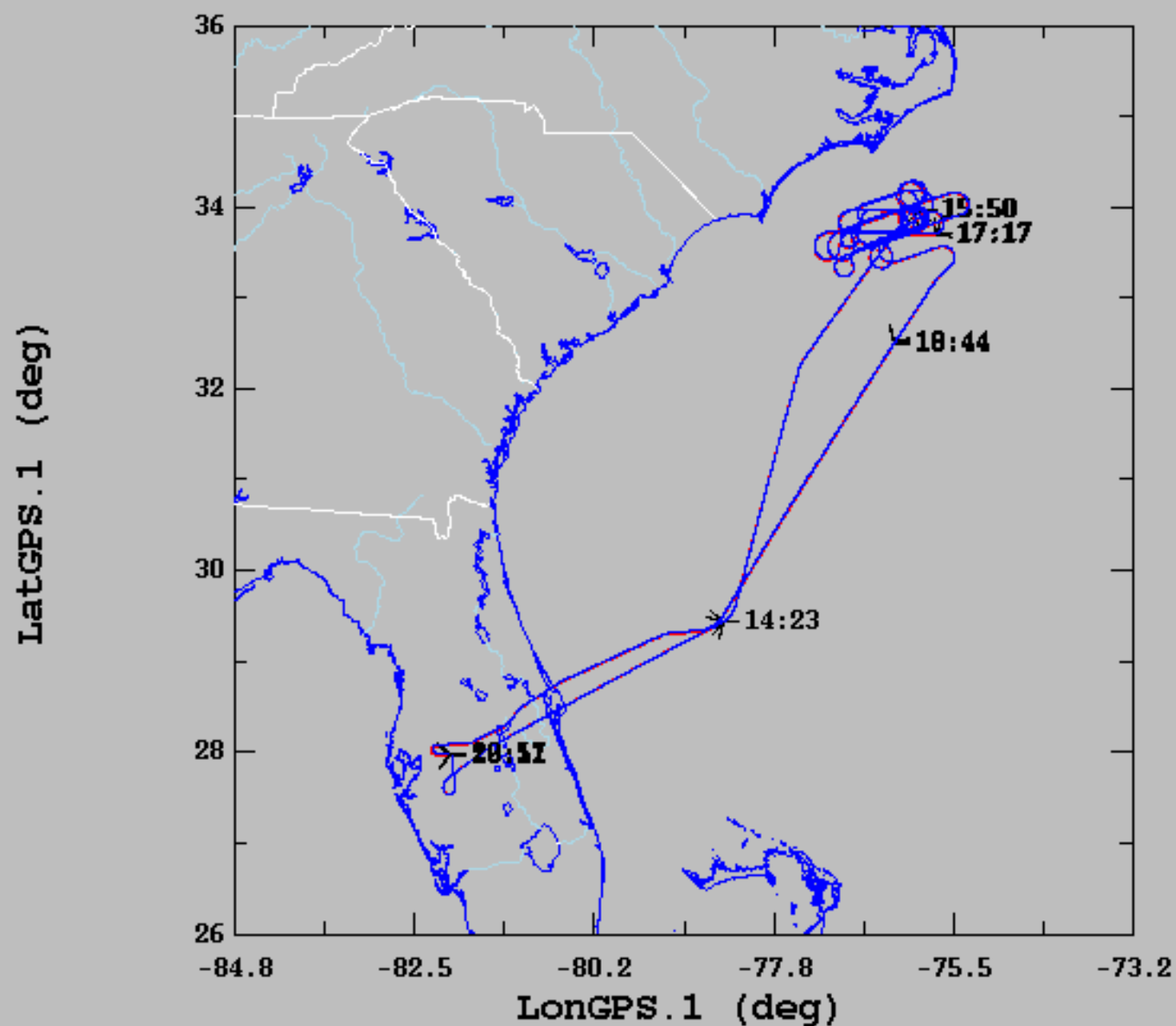
QC Key

Not checked ☐
 Valid ☒
 Errors (note) ☒

NOTES:

AltRa.1 inop
 .1 and .2 GPS parameters stair step
 PDBETA.2 trends ~7mb high
 Humidity parameters suspect
 QC performed by Quinn Kalen

06/03/2022, 12:57:09-20:11:20



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	31.80	2.42	27.54	34.29
LonGPS.1 (deg), 1 s/sec	-77.88	2.21	-82.24	-75.29
LatI.1 (deg), 1 s/sec	31.79	2.42	27.54	34.28
LonI.1 (deg), 1 s/sec	-77.88	2.21	-82.26	-75.30