

N49RF ERROR SUMMARY
20210603N1

Flight ID: 20210603N1

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.3
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/2021/MET/20210603N1

Local Met Data	Takeoff KLAL (1448Z)	Landing KLAL (1642Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		5.05753
AttackAngleSlope2		5.52397
SlipAngleIntercept2		0.931
SlipAngleSlope2		6.57562

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.

.1 and .2 parameters continue to show stairstepping in small intervals
Alt.1, .2, and .3 stairstepping
AltRa.1 has break in data at 15:03
TDM.1 unrepresentative
TDM.2 and TD.c have oscillations between 16:18 and 16:35

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	1	1	1
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Henning / Kalen
Phone #: 863-500-3982

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210603N1	FLT #:	WXWXA TRAIN	AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	KZAL	ETD:		CP(s):	Varnig		A/C Takeoff		Good	Bad	Sent
To:	KZAL	ETA:							1	0	1
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	1650	Land:	1642	FE(s):			A/C Land		Good	Bad	Sent
Out:	1436	T/O:	1449	FD(s):	Henning Kaleh						
Total:	2.2	Total:	1.9	SSA:	Defero	Visitors:	ASOS Land				
Sponsoring Org:				AVAPS:	Lynch		Storm Number ID:				
Program:				SEB:	Peek		(ie: AL072012)				
Purpose:				MX:			TCPOD/WSPOD Mission				
							(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:											

G-IV QC Checklist

Flight ID:	20210603N1
Flight Director(s)	Henning / Kalen
UWZ.d mean:	0.11

Pressure Comparison		
	T/O	Land
Aircraft	1013.2	1012.9
Tower	1013.7	1012.7

	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	✓ 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	✓ RolI.1	✓ RollRateI.1		✓ PITCHref	
	✓ PitchI.2	✓ PitchRateI.2	✓ RolI.2	✓ RollRateI.2		✓ ROLLref	
	✓ PitchI.3	✓ PitchRateI.3	✓ RolI.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:
.1 and .2 parameters continue to show stairstepping in small intervals Alt.1, .2, and .3 stairstepping AltRa.1 has break in data at 15:03 TDM.1 unrepresentative TDM.2 and TD.c have oscillations between 16:18 and 16:35

AOC GPS Dropwindsonde Log (updated Mar 2019)

1/1

Flight ID: 20210603N1

ASPEN Operator/Flight Director(s): Kalen / Henning

Mission ID: WXWXA TRAIN

Storm Name/Track: Science Shakedown

PG ____ of ____

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	152758	30024	1	25.90	-85.61	Clr	1016.7	15006 / Floater	31548	Y
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											

Not Used

COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

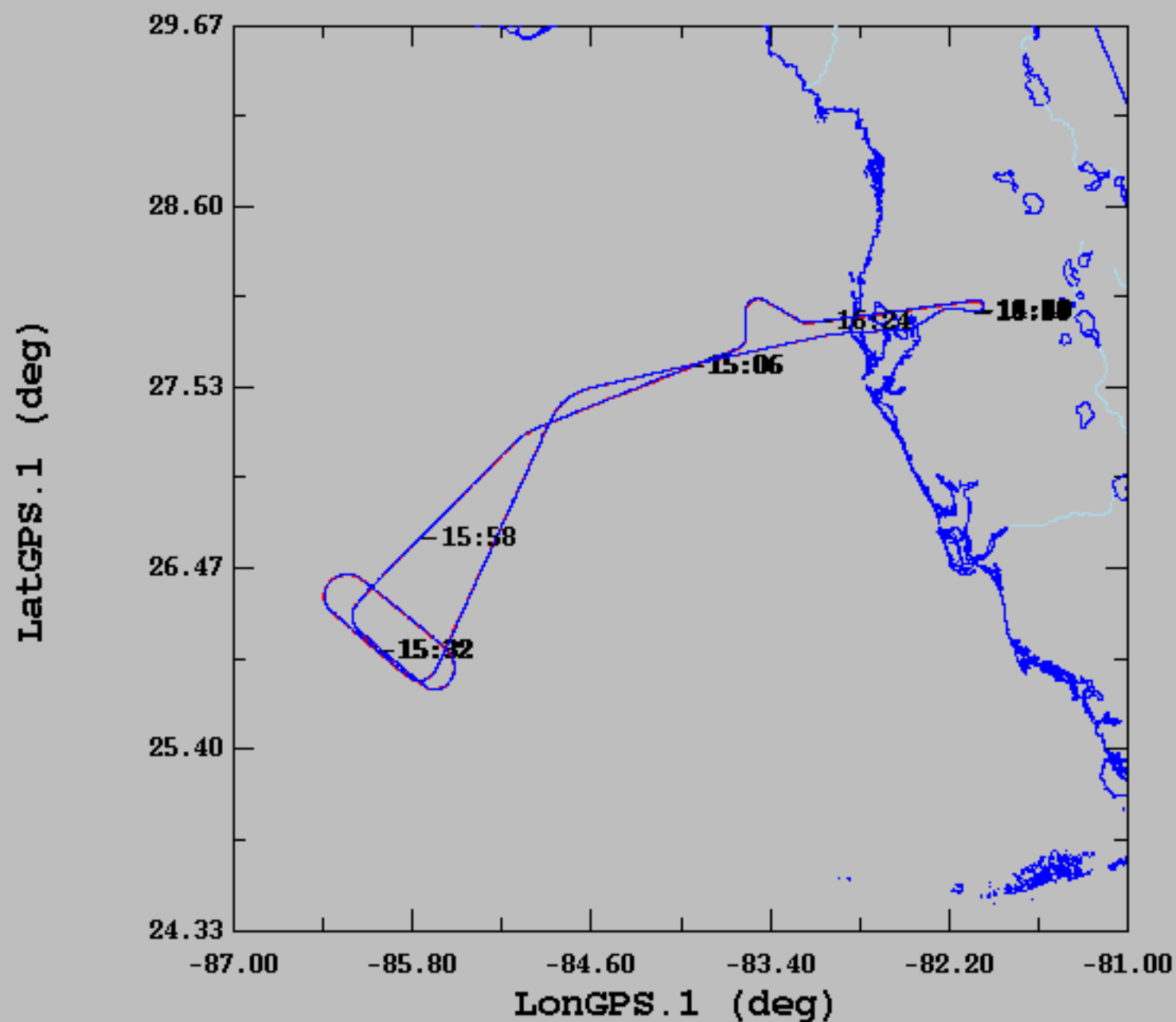
Obs
Xmitted

Obs
Missed

of sondes
launched

of bad
sondes

2021-06-03, 13:49:03-16:50:01



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	27.45	0.75	25.75	28.06
LonGPS.1 (deg), 1 s/sec	-83.52	1.58	-86.38	-81.96
LatI.1 (deg), 1 s/sec	27.45	0.75	25.75	28.05
LonI.1 (deg), 1 s/sec	-83.52	1.58	-86.39	-81.96