

N49RF ERROR SUMMARY
20170621N1 NCAR Sonde Test

Flight ID: 20170621N1

Sensor or System	Number or Name
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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/2017/MET/20170621N1

Local Met Data	Takeoff KMCF (1230Z)	Landing KMCF (1445Z)
Dynamic Corrections		Yes
AttackAngleIntercept		5.1083
AttackAngleSlope		5.91956
SlipAngleIntercept		1.05
SlipAngleSlope		6.80484
AttackAngleIntercept2		5.05312
AttackAngleSlope2		5.74156
SlipAngleIntercept2		0.8
SlipAngleSlope2		6.89644

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.

2 control sondes good and transmitted. 3 test sondes good, 2 failed

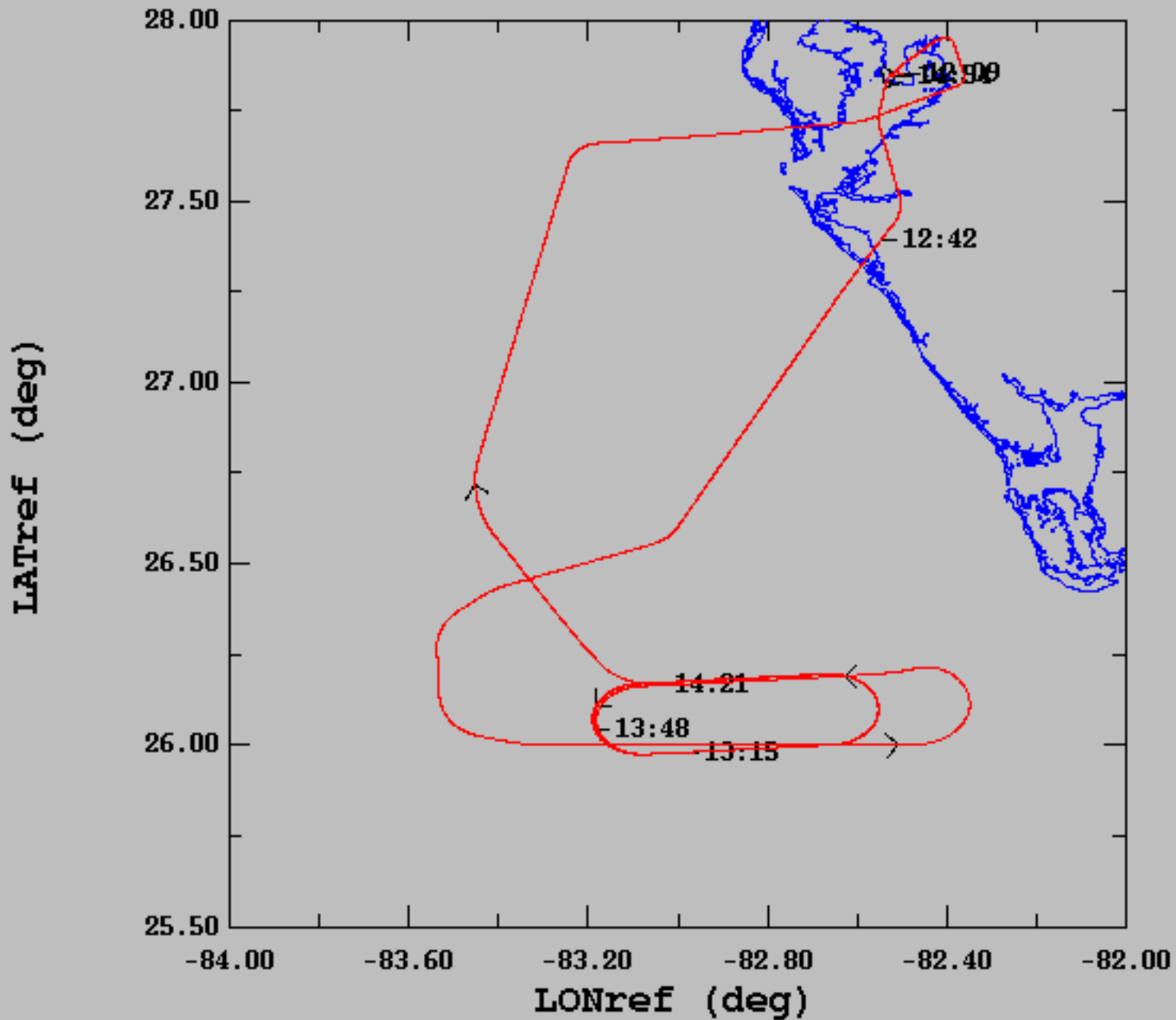
Expendable Type	# deployed	# good	# transmitted
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Dropsondes	7	3	2
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Holmes/Williams
Phone #: 813-828-4629

ACAT-4 Version = 6.1

NCAR Sonde Test Flight

06/21/2017, 12:09:29-14:54:48



	mean	sigma	min	max
— LATref (deg), 1 s/sec	26.75	0.79	25.97	27.95
— LONref (deg), 1 s/sec	-82.81	0.31	-83.54	-82.35

1236
1450
2.2
2.8

APPENDIX 2 – GIV QC Checklist

Flight ID:	20170621N
Flight Director(s):	Holmes/Williams

Pressure Comparison		
	T/O	Land
Aircraft	1015.4 (2) 1015.2 (10)	1015.6 (2) 1016.1 (10)
Tower	27 1300 162 1015.4	30 2300 165 1015.8

UWZ.d mean: _____

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	AccAXI.1	AccAYI.1	AccAZI.1		AccZref	
	AccAXI.2	AccAYI.2	AccAZI.2			
	AccAXI.3	AccAYI.3	AccAZI.3			
<input checked="" type="checkbox"/> Altitude <i>AltRA</i>	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	
<input checked="" type="checkbox"/> Ground Speed	GsXI-GPS.1	GsXI.1	GsGPS.1	GsXGPS.1	GSXref	
	GsXI-GPS.2	GsXI.2	GsGPS.2	GsXGPS.2	GSYref	
	GsYI-GPS.1	GsXI.3		GsYGPS.1	GSZref	
	GsYI-GPS.2	GsYI.1	GsZI.1	GsYGPS.2		
	GsZI-GPS.1	GsYI.2	GsZI.2	GsZGPS.1		
	GsZI-GPS.2	GsYI.3	GsZI.3	GsZGPS.2		
<input checked="" type="checkbox"/> Lat/Lon	LatGPS.1	LatI.1	LonGPS.1	LonI.1	LATref	
	LatGPS.2	LatI.2	LonGPS.2	LonI.2	LONref	
	LatGPS.3		LonGPS.3			
<input type="checkbox"/> Pressure	PDALPHA.1	PQALPHA.1	PQM.1	PSM.1	PDALPHAref	PQMref
	PDALPHA.2	PQALPHA.2	PQM.2	PSM.2	PDBETAref	PQ.c
	PDBETA.1	PQBETA.1	PQM.11	PSM.11	PQALPHAref	PSMref
	PDBETA.2	PQBETA.2			PQBETAref	PS.c
<input type="checkbox"/> Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
<input type="checkbox"/> 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		
<input type="checkbox"/> Temp/Dewpt	TTM.1	TTM.11	TDM.1		TD.c	TTMref
	TTM.2	TTM.13	TDM.2		TDMref	TA.d
	TTM.3	TTM.4	TDM.11			
<input type="checkbox"/> Miscellaneous (must check)					UWZ.d	WS.d
					DPI_WSZ	WD.d
					HUM	

AltRA spikes
1316Z + 1418Z

-0.8
-0.68

1 more accurate
on ground
2 more accurate
at PL

Mission Documents:

<input checked="" type="checkbox"/>	Error Summary
<input type="checkbox"/>	Crew Manifest - Mike
<input checked="" type="checkbox"/>	QC checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) – AVAPS and FD if completed
<input type="checkbox"/>	Miscellaneous FD notes

NOTES:

AOC GPS Dropwindsonde Log

Flight ID: 20170621(N)

Flight Director: Holmes / Williams

Mission ID: WKWXA TRIN

Storm/Track:

Pg ___ of ___

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	SFC Prs (mb)	Ob #	LS/R5	Last Winds R5 (ht, ws, wd)	Last Winds L5 (ht, ws, wd)	Sen Time: KWBC (UTC)
1	1	17123	131511	25.977	-83.03		1014.2			SFC 8.1/133		
2	2	" 0020	131517	25.98	-83.02		1013.1			SFC 10.8/134		
3	3	" 0020	131526	25.98	-83.004		1013.9			SFC 11.1/138 E		
4	4	16353503	131532	25.98	-83.79	good	1013.6	1		SFC 9.6/136 E		1340 dB
1	5	171330091	140150			bad winds						
2	6	171330120	140155			with GPS sea track						
3	7	163535033	140200	25.98	-80.98	good	1014.2			SFC 9.6/137		

TEST
CONTROL
TEST
CTRL

Sonde Test Flight

FL045

Expendables:

5 Control/Standard Sondes

5 Test Sondes

