

N42RF ERROR SUMMARY
 20180708H2 TS Chris Mission 0503A

Flight ID: 20180708H2

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.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/2018/MET/20180708H2

Local Met Data	Takeoff KLAL (2332Z)	Landing KLAL (0454Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.31252
AttackAngleSlope		6.06758
SlipAngleIntercept		0.4295
SlipAngleSlope		7.17033

Notes:

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

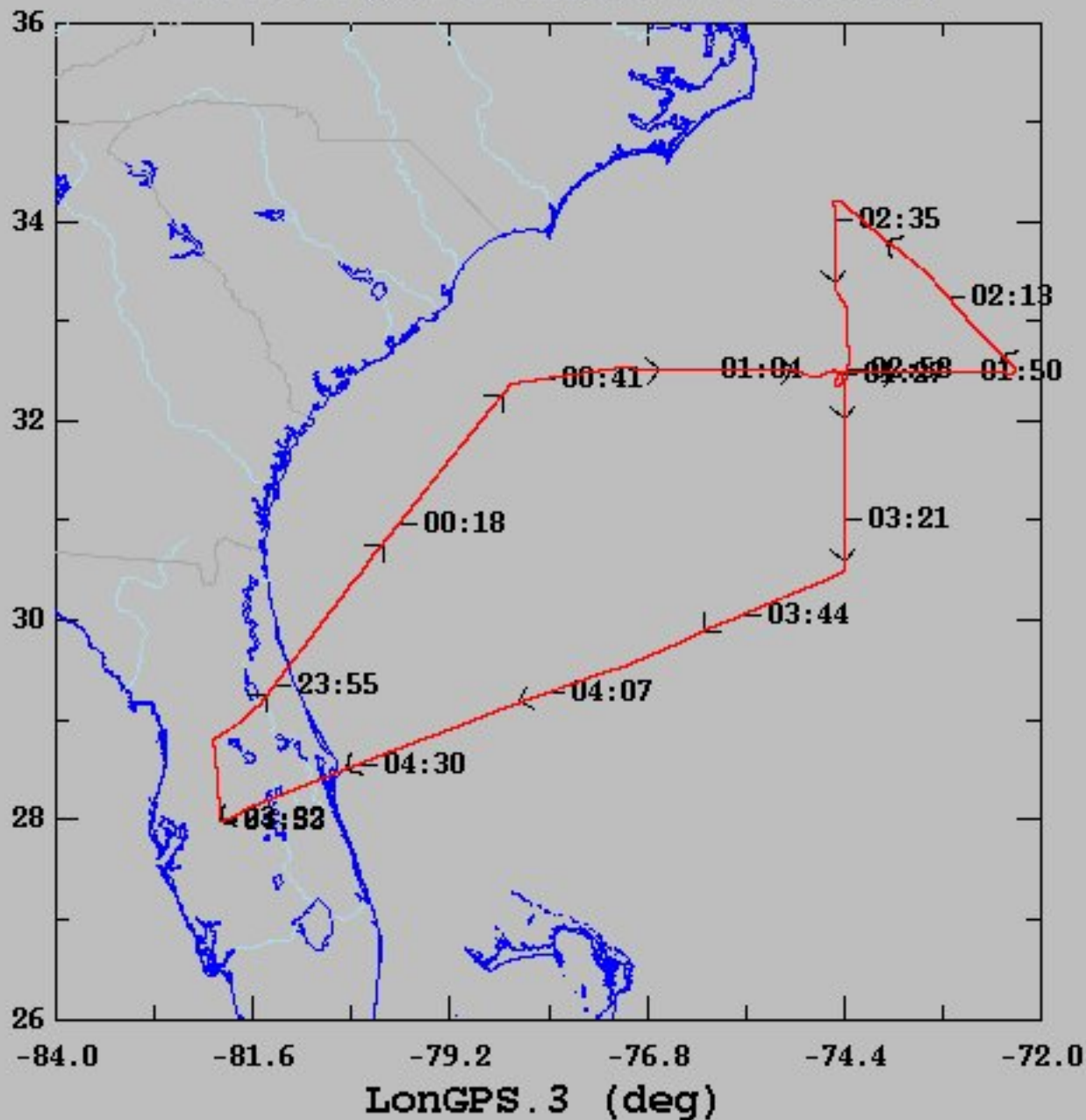
Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

PDAlpha.2 inop. Maycomm TDL TDM.3 worked well in storm environment at 8K until 0250z then INOP (TDM.2 Edgetech is reference hygrometer). TDM.1 and TDM.2 spike at 0441z (well after science complete during approach to landing).

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	6	6	6
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

07/08/2018, 23:32:52-28:53:11
TROPICAL STORM CHRIS
20180708H2 MISSION 0503A



2018 - 2029 z

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20180708H2	FLT #:		AC:	KIBBEY	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0830Z	CP(s):	DIDIER	Frank Marks (HRD) Hui Christophersen (HRD) Ghassan Alaka (HRD) Erin Jones (Hollings)	A/C Takeoff	PSM #2 1014.6	Good	Bad	Sent
To:	KLAL	ETA:	1630Z	Nav(s):	ABITBOL		Wx Station Takeoff	1015.4	6	0	6
Block Time		Flight Time		FE(s):	FREEMAN		A/C Land	1016.0	BTs		
In:	0502	In:	0454	FD(s):	SANCHEZ		Wx Station Land	1017.0	Good	Bad	Sent
Out:	2324	Out:	2332	SEB:	HEYTEK	Visitors:	Storm Number ID:		AL032018		
Total:	5.6	Total:	5.4	SSA:	HENNING		(ie: AL072012)		CHRIS		
Sponsoring Org:	EMC			AVAPS:	PEEK		TCPOD/WSPOD Mission		NOAA2418A SANDY		
Program:	PRX				RICHARDS	(ie: NOAA2 2418A SANDY)		NOAA2003A CYCLONE			
Purpose:	EMC TDR Mission				T LYNCH	OBSERVATIONS					
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	#6	0131z	1005 mb 57kts	
SCIENCE MISSION WITHIN BDRY LAYER					X		2	#12	0301z	1004 mb 52kts	
LACK OF PRECIPITATION					X						
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X						
HIGH SURFACE WINDS				X							
LONG FETCH / DURATION OF SFC WND				X							
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED											

Additional Remarks:

*Highlighted items must be completed before departure.

Cockpit Gmax:

Gmin:

S:02
36

Shs

S+22

2250z 30.12
2350z 30.13 31c
0450z 30.18 26C

TS CHRIS G
APPENDIX 1 – P3 QC Checklist

PSM#2

Flight ID:	20180708H2
Flight Director(s):	HENNING

Pressure Comparison		
	T/O	Land
Aircraft	1014.6	1016.0
Tower	1015.4	1017.0

UWZ.d mean: +0.06 from A.nc file
 -0.01 from AC.nc file
 -0.01 DPJ WSZ

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> 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			
<input checked="" type="checkbox"/> 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
	AltGPS.3				ALTGA.d	
	AltGPS.4					
<input checked="" type="checkbox"/> Ground Speed	GsXI-GPS.1	GsYI-GPS.1	GsZI-GPS.1		GSXref	
	GsXI-GPS.2	GsYI-GPS.2	GsZI-GPS.2		GSYref	
					GSZref	
<input checked="" type="checkbox"/> Lat/Lon	LatGPS.1	Lati-GPS.1	LonGPS.1	Loni-GPS.1	LATref	
	LatGPS.2	Lati-GPS.2	LonGPS.2	Loni-GPS.2	LONref	
	LatGPS.3		LonGPS.3			
	LatGPS.4		LatGPS.4			
<input checked="" type="checkbox"/> Pressure	PDALPHA.1	PQALPHA.1	PQM.1	PSM.1	PDALPHAref	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
<input checked="" type="checkbox"/> Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
<input checked="" 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 checked="" type="checkbox"/> Temp/Dewpt	TTM.1	TDM.1	TRadD.1		TD.c	TTMref
	TTM.2	TDM.2	TRadS.1		TDMref	TA.d
	TTM.3	TDM.3	TRadU.1			
<input checked="" type="checkbox"/> Miscellaneous (must check)					UWZ.d	WS.d
					DPJ_WSZ	WD.d
					HUM	

Mission Documents:

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

NOTES:

as with the early morning mission, PDAlpha.2 is stuck around zero. PDBeta.2 does not display nearly as much variability above and below zero as PDBeta.1. Maycom worked well during storm at BK until 0250z (then it went INOP). TDM 1/2 spike after science during approach to landing (0441z).