

N42RF ERROR SUMMARY
20170904H1

Flight ID: 20170904H2

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/2017/MET/20170904H2

Local Met Data	Takeoff TBPB (1827Z)	Landing TBPB (0139Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.35256
AttackAngleSlope		6.11627
SlipAngleIntercept		0.23
SlipAngleSlope		6.9614

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.

PSM.1 ~2mb higher than PSM.2, PTM.1 ~70mb higher than PSM.1/2
 AccAX.2 lower than AccAX.1, AccAY.2 higher than AccAY.1
 TDM.1 about 1.5C higher than TDM.2, TDM.3 ~10C high, TDM.1 center spikes are too warm when compared to TDM.2 and TA.d (changed default to TDM.2)
 PDALPHA.2/PDBETA.2 look wrong when compared with PDALPHA.1/PDBETA.1

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	12	11	11
Test sondes	0	0	0
AXBTS	2	1	2
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Belson/Parrish
 Phone #: 863-500-3981

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20170904H2	FLT #:		AC:	Price	Scientists:		Pressure		Dropsondes		
From:	TBPB	ETD:	2000Z	CP(s):	Mitchell	Zawislak, Jon		A/C Takeoff	1004.2	Good	Bad	Sent
To:	TBPB	ETA:	0330Z		Rees			Wx Station Takeoff	1003.0	11	1	11
Block Time		Flight Time		Nav(s):	Sloan	Zhang, Jun		A/C Land	1003.6	BTs		
In:	0330	In:	0321		Urato			Wx Station Land	1003.9	Good	Bad	Sent
Out:	1955	Out:	2009	FE(s):	Darby	Visitors:		Storm Number ID:	AL112017			
Total:	7.6	Total:	7.2		Tuffnel, Todd			(ie: AL072012)	TCPOD/WSPOD Mission	NOAA2 0511A IRMA		
Sponsoring Org:	EMC/NHC			SEB:	Warnecke			(ie: NOAA2 2418A SANDY)				
Program:	PRX			SSA:	Mascaro							
Purpose:	Hurricane Recon			AVAPS:	McAlister							
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X			1	6	2141	944	
SCIENCE MISSION WITHIN BDRY LAYER					X			2	10	2307	945	
LACK OF PRECIPITATION					X			3	16	0020	945	
RELATIVE HUMIDITY ≥ 80%				X				4	22	0149	945	
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					X							
Additional Remarks:								*Highlighted items must be completed before departure.				
Cockpit Gmax: 2.0				Gmin: 0.3								

APPENDIX 1 – P3 QC Checklist

Flight ID:	20170924H2
Flight Director(s):	Belson/Parrish

Pressure Comparison		
	T/O	Land
Aircraft	1004.2	1003.6
Tower	1003.0	1003.9

UWZ.d mean: 0.21

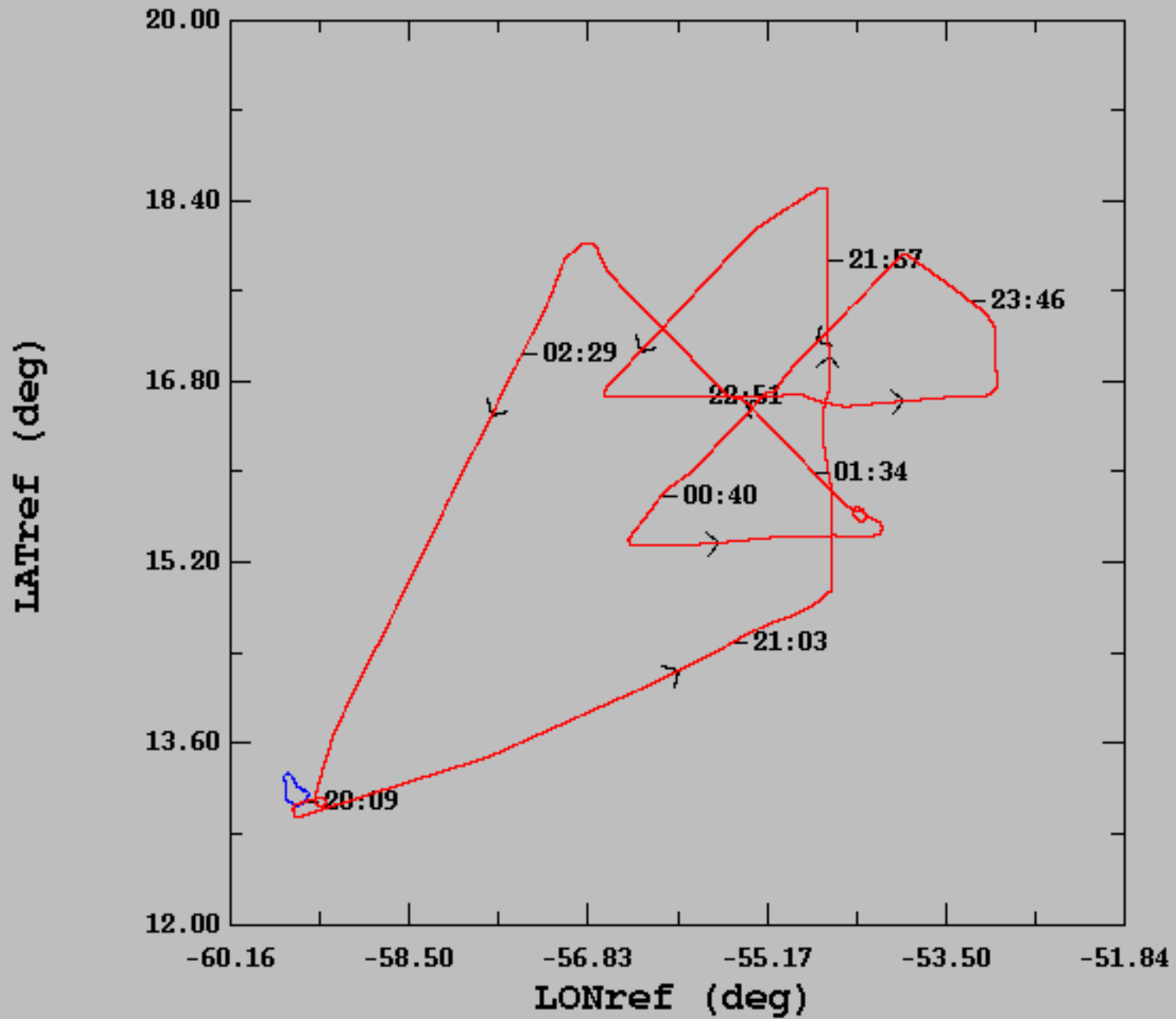
	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1	<input checked="" type="checkbox"/> AccAYI.1	<input checked="" type="checkbox"/> AccAZI.1	<input checked="" type="checkbox"/> AccZfilter-GPS.1	<input checked="" type="checkbox"/> AccZref	
	<input checked="" type="checkbox"/> AccAXI.2	<input checked="" type="checkbox"/> AccAYI.2	<input checked="" type="checkbox"/> AccAZI.2	<input checked="" type="checkbox"/> Acc-Zfilter-GPS.2		
	<input checked="" type="checkbox"/> AccAXI-GPS.1	<input checked="" type="checkbox"/> AccAYI-GPS.1	<input checked="" type="checkbox"/> AccAZI-GPS.1			
	<input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI-GPS.2			
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1	<input checked="" type="checkbox"/> AltI-GPS.1	<input checked="" type="checkbox"/> AltPaADDU.1	<input checked="" type="checkbox"/> AltRA.1	<input checked="" type="checkbox"/> ALTref	<input checked="" type="checkbox"/> AltRA1.c
	<input checked="" type="checkbox"/> AltGPS.2	<input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTPA.d	<input checked="" type="checkbox"/> AltRA2.c
	<input checked="" type="checkbox"/> AltGPS.3				<input checked="" type="checkbox"/> ALTGA.d	
	<input checked="" type="checkbox"/> AltGPS.4					
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1	<input checked="" type="checkbox"/> GsYI-GPS.1	<input checked="" type="checkbox"/> GsZI-GPS.1		<input checked="" type="checkbox"/> GSXref	
	<input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.2		<input checked="" type="checkbox"/> GSYref	
					<input checked="" type="checkbox"/> GSZref	
<input checked="" type="checkbox"/> Lat/Lon	<input checked="" type="checkbox"/> LatGPS.1	<input checked="" type="checkbox"/> Lati-GPS.1	<input checked="" type="checkbox"/> LonGPS.1	<input checked="" type="checkbox"/> Loni-GPS.1	<input checked="" type="checkbox"/> LATref	
	<input checked="" type="checkbox"/> LatGPS.2	<input checked="" type="checkbox"/> Lati-GPS.2	<input checked="" type="checkbox"/> LonGPS.2	<input checked="" type="checkbox"/> Loni-GPS.2	<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LonGPS.3			
	<input checked="" type="checkbox"/> LatGPS.4		<input checked="" type="checkbox"/> LatGPS.4			
<input checked="" type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1	<input checked="" type="checkbox"/> PQALPHA.1	<input checked="" type="checkbox"/> PQM.1	<input checked="" type="checkbox"/> PSM.1	<input checked="" type="checkbox"/> PDALPHAref	<input checked="" type="checkbox"/> PQMref
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.2	<input checked="" type="checkbox"/> PSM.2	<input checked="" type="checkbox"/> PDBETAref	<input checked="" type="checkbox"/> PQ.c
	<input checked="" type="checkbox"/> PDBETA.1		<input checked="" type="checkbox"/> PQM.3	<input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PQALPHAref	<input checked="" type="checkbox"/> PSMref
	<input checked="" type="checkbox"/> PDBETA.2		<input checked="" type="checkbox"/> PQM.4		<input checked="" type="checkbox"/> PQBETAref	<input checked="" type="checkbox"/> PS.c
<input checked="" type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> IasADDU.1		<input checked="" type="checkbox"/> IAS.d	<input checked="" type="checkbox"/> TAS.d
<input checked="" type="checkbox"/> Pitch/Roll	<input checked="" type="checkbox"/> PitchI.1	<input checked="" type="checkbox"/> PitchRateI.1	<input checked="" type="checkbox"/> RollI.1	<input checked="" type="checkbox"/> RollRateI.1	<input checked="" type="checkbox"/> PITCHref	
	<input checked="" type="checkbox"/> PitchI.2	<input checked="" type="checkbox"/> PitchRateI.2	<input checked="" type="checkbox"/> RollI.2	<input checked="" type="checkbox"/> RollRateI.2	<input checked="" type="checkbox"/> ROLLref	
	<input checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.3		
<input checked="" type="checkbox"/> Temp/Dewpt	<input checked="" type="checkbox"/> TTM.1	<input checked="" type="checkbox"/> TDM.1	<input checked="" type="checkbox"/> TRadD.1		<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref
	<input checked="" type="checkbox"/> TTM.2	<input checked="" type="checkbox"/> TDM.2	<input checked="" type="checkbox"/> TRadS.1		<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d
	<input checked="" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadU.1			
<input checked="" type="checkbox"/> Miscellaneous (must check)					<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
					<input checked="" type="checkbox"/> DPJ_WSZ	<input checked="" type="checkbox"/> WD.d
					<input checked="" type="checkbox"/> HUM	

FLID_Mission_Documents.pdf:

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

NOTES:

2017-09-04, 20:09:00-27:23:20



	mean	sigma	min	max
— LATref (deg), 1 s/sec	16.03	1.46	12.94	18.52
— LONref (deg), 1 s/sec	-55.85	1.67	-59.57	-53.02

20170904H2

TBPB - TBPB

12 AOC

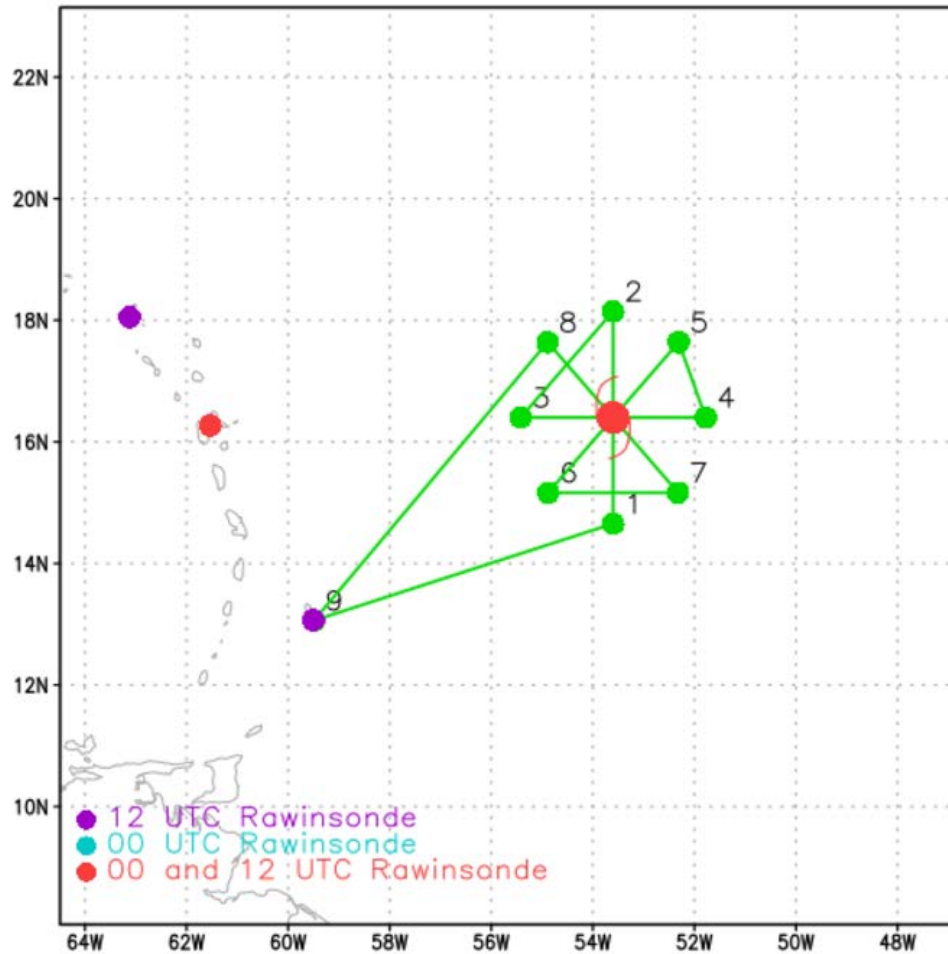
2 HRD

T/O 2000Z

ETE 7+30

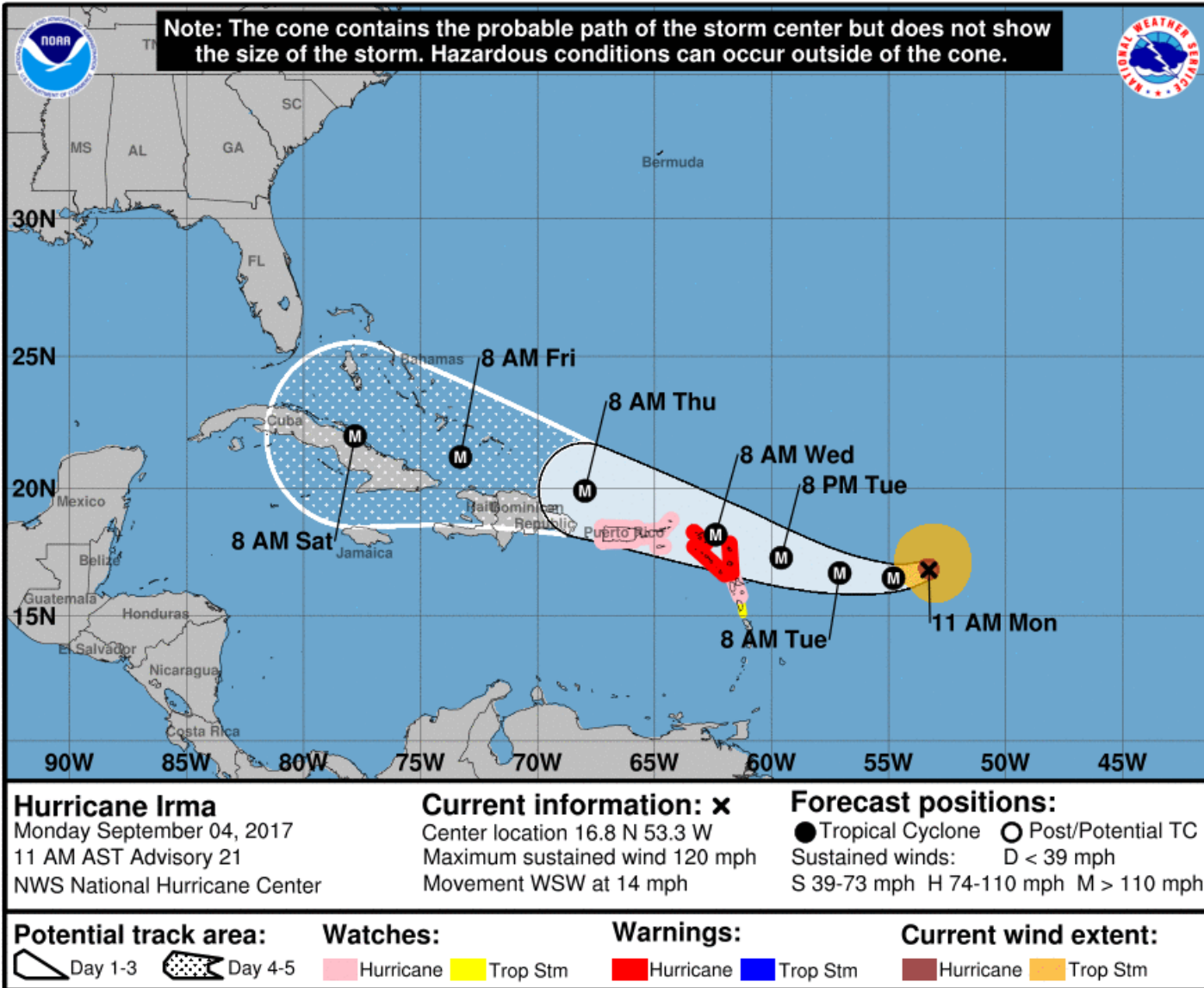
NOAA2 0511A IRMA

Mission

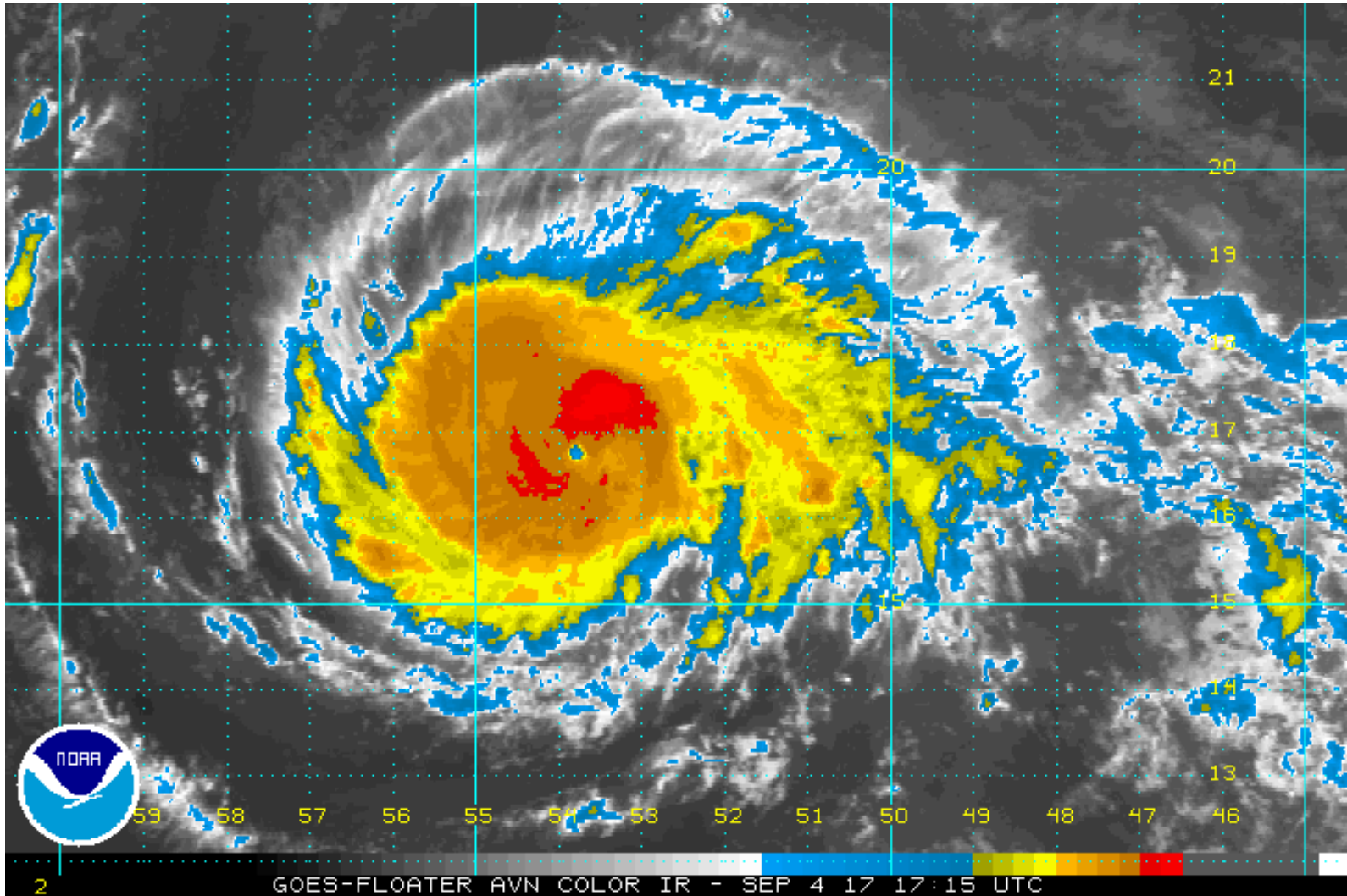


- Sondes on endpoints (HFIP), sonde in center (NHC) – backups
- 2 BTs – one in center, other at point 5
- 105nm legs, FL100 (adjusted to FL080 for AF?)

STORM FORECAST



SATELLITE



Other Aircraft

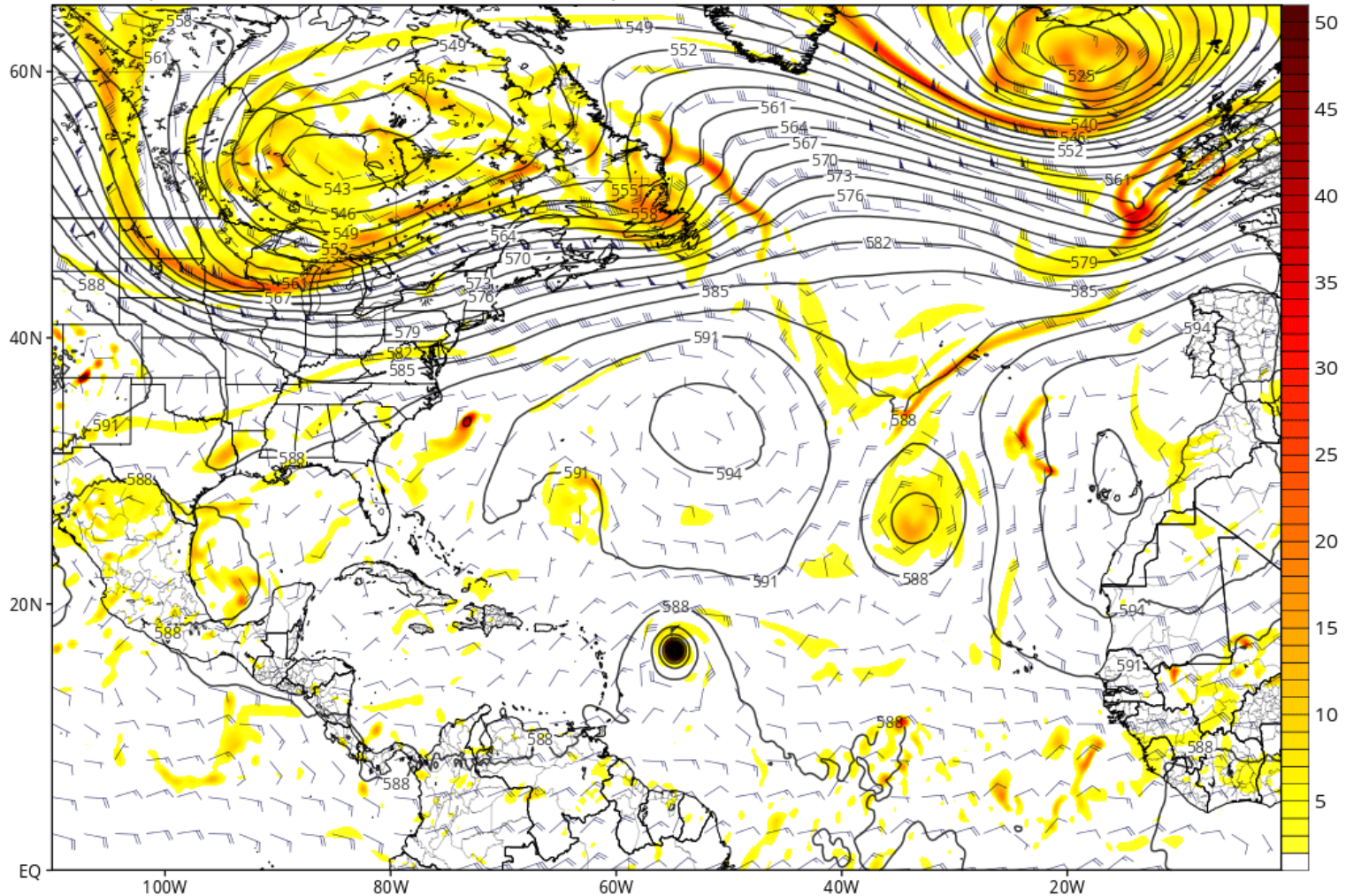
- FLIGHT FOUR -- TEAL 75
 - A. 04/2330Z,05/0530Z
 - B. AFXXX 0611A IRMA
 - C. 04/2045Z
 - D. 16.1N 54.3W
 - E. 04/2300Z TO 05/0530Z
 - F. SFC TO 15,000 FT
- FLIGHT TWO -- NOAA 49
 - A. 05/0000Z
 - B. NOAA9 0411A IRMA
 - C. 04/1730Z
 - D. NA
 - E. NA
 - F. 41,000 TO 45,000 FT

Transit VT 04/00Z

GFS 500mb Geopotential Height (dam), Cyclonic Vorticity (10^{-5} s^{-1} , shaded), and Wind (kt)

Init: 12z Sep 04 2017 Forecast Hour: [12] valid at 00z Tue, Sep 05 2017

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Airfield Wx

- TBPB 041500Z 21010KT 9999 BKN020 32/26 Q1012 NOSIG
- TAF TBPB 041100Z 0412/0512 31008KT 9999 SCT020
PROB30
TEMPO 0416/0422 3000 SHRA SCT012CB BKN014

Hazards

- Icing - Freezing / Melting Altitude 16,000 ft
- Turbulence – in convection
- Volcanic Ash - Negative
- HD - yes
- Rapid Intensification – no
- Sea Salt Accretion Forecast – Negative
 - Boundary Layer - No
 - Lack of Precip - No
 - RH > 80% - Yes
 - Large sea surface / air temperature gradient - No
 - High Surface Winds - Yes
 - Long fetch / duration - No