



## NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20170825H1	FLT #:		AC:	Price	Scientists:		Pressure		Dropsondes		
From:	KLAL	ETD:	0200Z	CP(s):	Rossi	Rob Rogers (PI)		A/C Takeoff	1007.0	Good	Bad	Sent
To:	KLAL	ETA:	0900Z		Mitchell	Sellwood, Kathryn				9	1	9
Block Time		Flight Time		Nav(s):	Gallagher	Zhang, Jun		Wx Station Takeoff	1007.2	BTs		
In:	0853	In:	0845		Urato	Holbach, Heather				Good	Bad	Sent
Out:	0133	Out:	0146	FE(s):	Darby	Alswiss, Suleiman		A/C Land	1005.4	2	4	2
Total:	7.3	Total:	7.0		Sanchez							
Sponsoring Org:	NHC	Program:	PRX	FD(s):	Belson	Visitors:		Wx Station Land	1006.5	Storm Number ID:		
					Parrish					AL092017		
Purpose:	Hurricane recon	SEB:		SSA:	Peek			TCPOD/WSPOD Mission		NOAA2 1609A HARVEY		
					Patel			(ie: NOAA2 2418A SANDY)				
				AVAPS:	Richards			<b>OBSERVATIONS</b>				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X			1	9	0420	967	
SCIENCE MISSION WITHIN BDRY LAYER					X			2	13	0504	968	
LACK OF PRECIPITATION					X			3	20	0604	967	
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					X							

\*Highlighted items must be completed before departure.

Additional Remarks:

Cockpit Gmax: 2.0                      Gmin: 0.3

## APPENDIX 1 – P3 QC Checklist

<b>Flight ID:</b>	20170825H1
<b>Flight Director(s):</b>	Parrish, Belson

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1007.0</b>	<b>1005.4</b>
<b>Tower</b>	<b>1007.2</b>	<b>1006.5</b>

UWZ.d mean: 0.17

	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:**

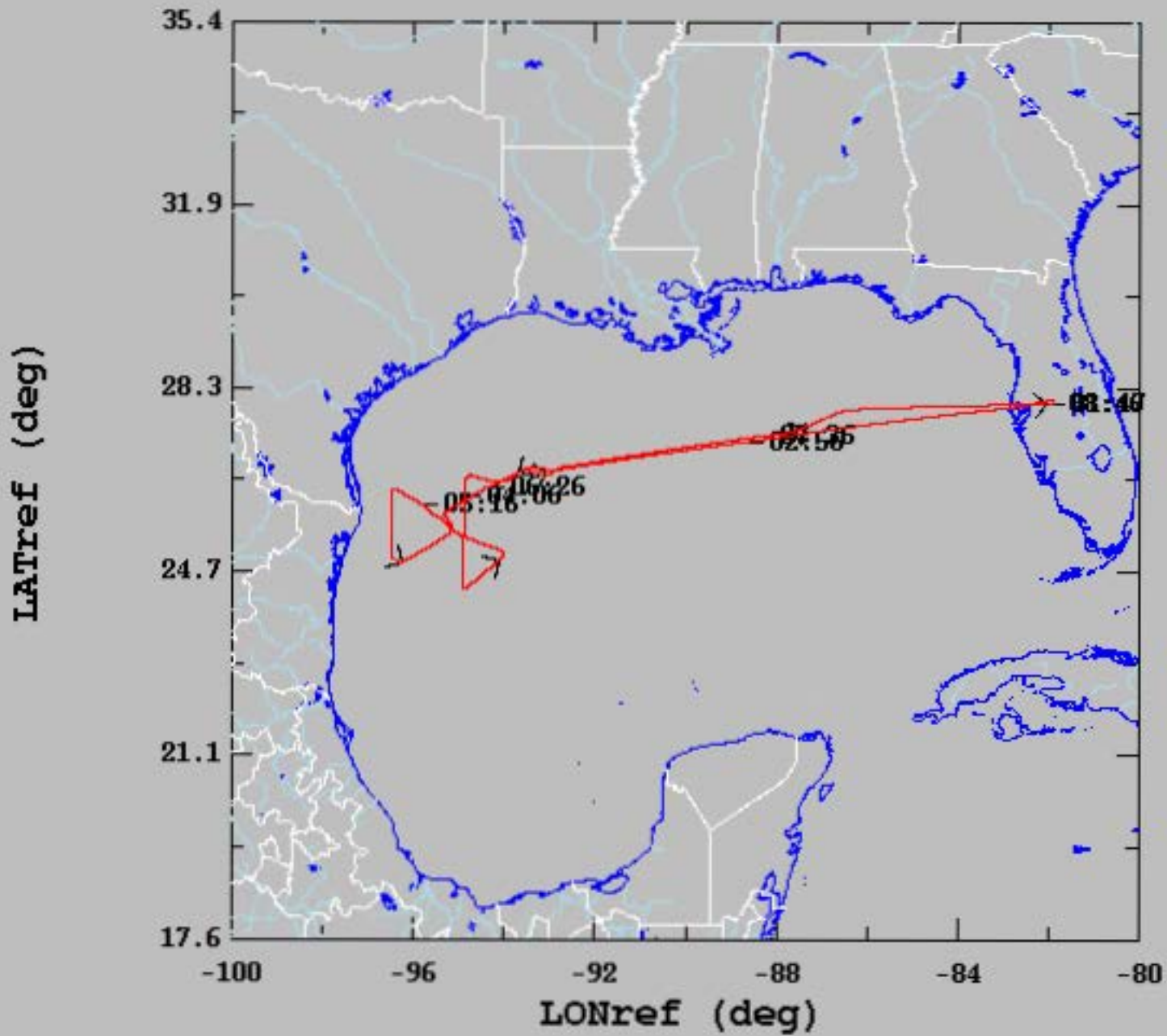
<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) – AVAPS and FD if completed
<input checked="" type="checkbox"/>	Flight Track
<input checked=""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

**NOTES:**





2017-08-25, 01:47:00-08:46:00



	mean	sigma	min	max
— LAIref (deg), 1 s/sec	26.69	1.01	24.36	28.06
— LONref (deg), 1 s/sec	-90.70	4.58	-96.47	-81.89

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KLAL - KLAL

13 AOC

4 HRD

1 NESDIS

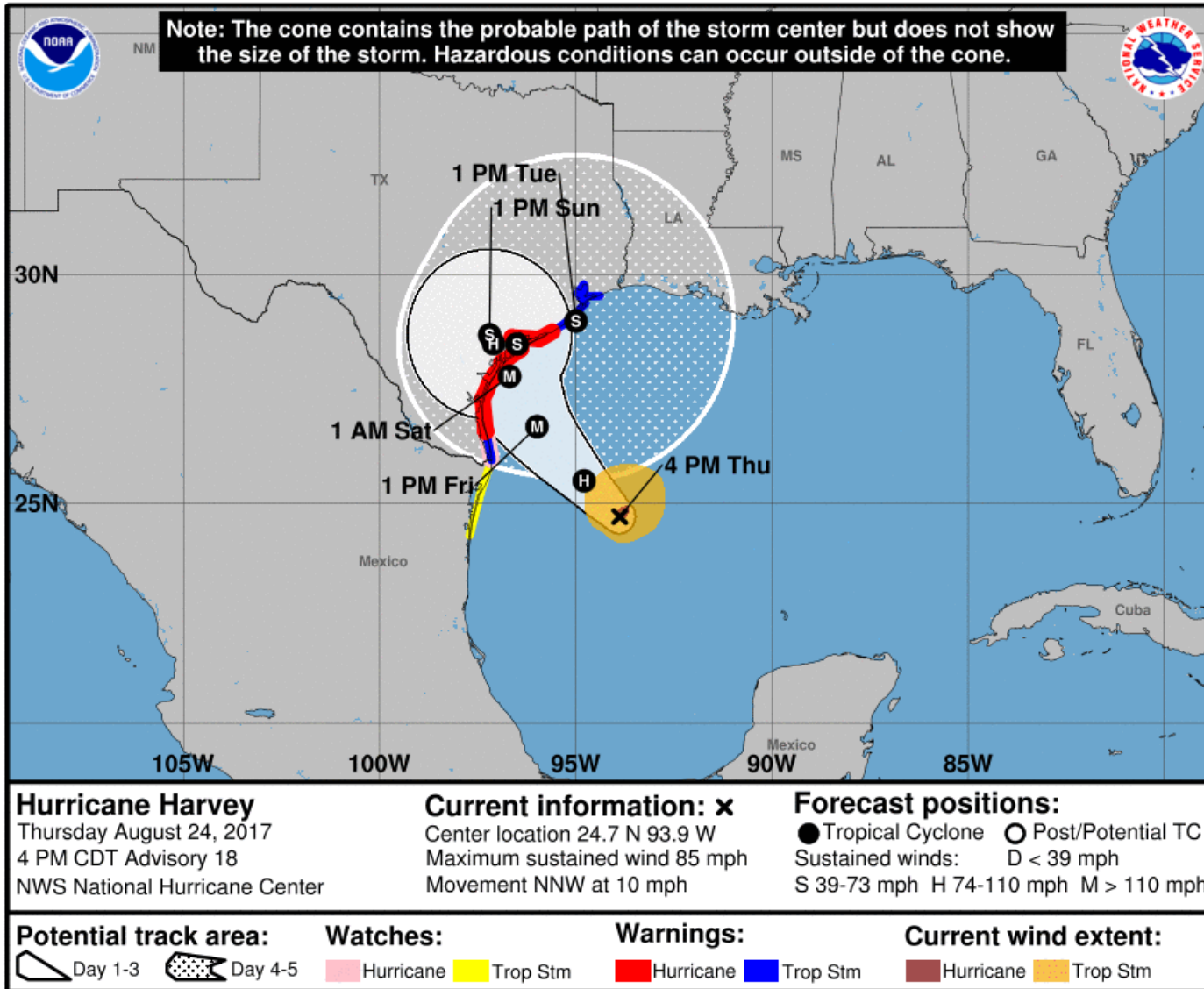
T/O 0200Z

ETE 7+00

NOAA2 1609A HARVEY

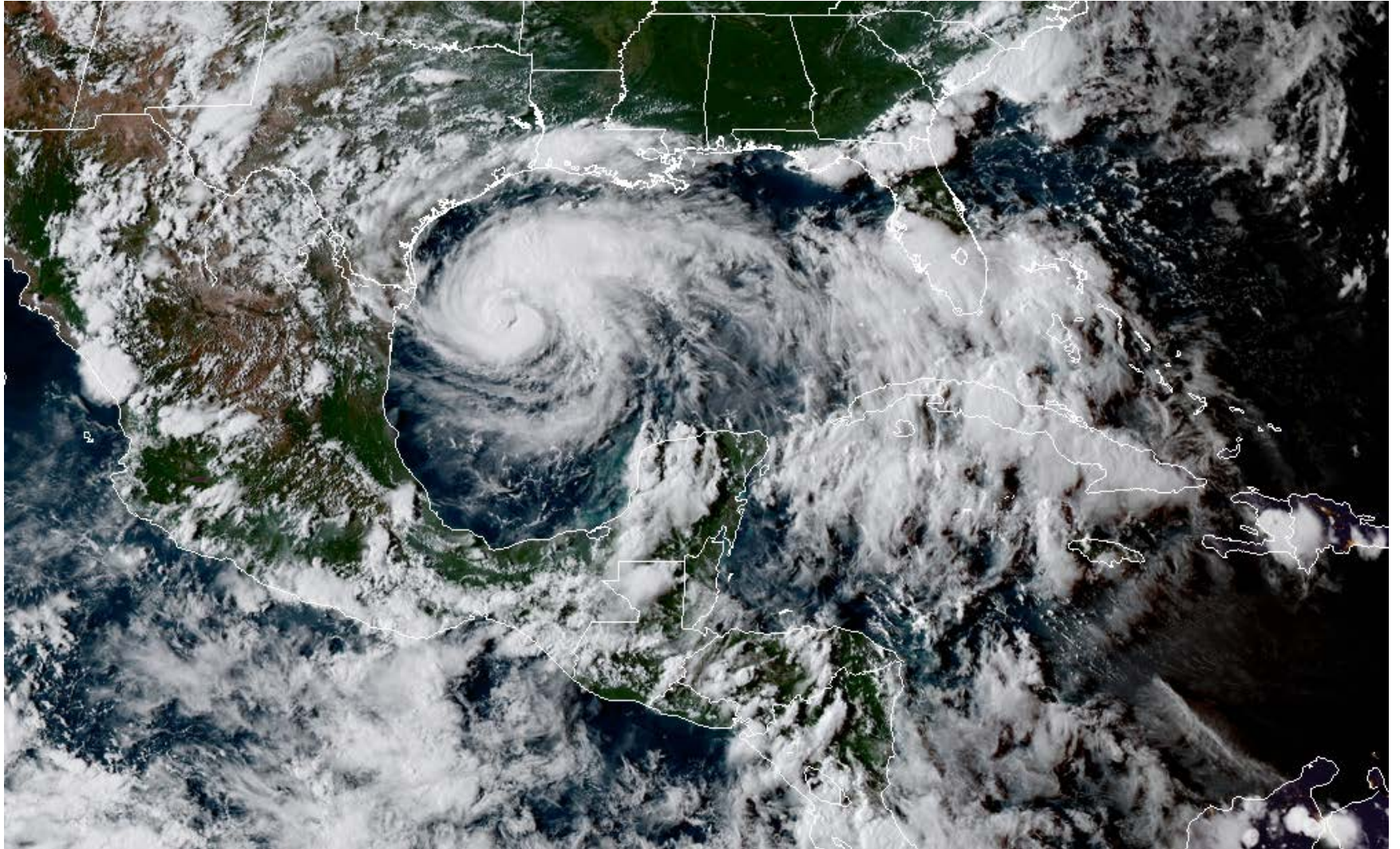


# STORM FORECAST

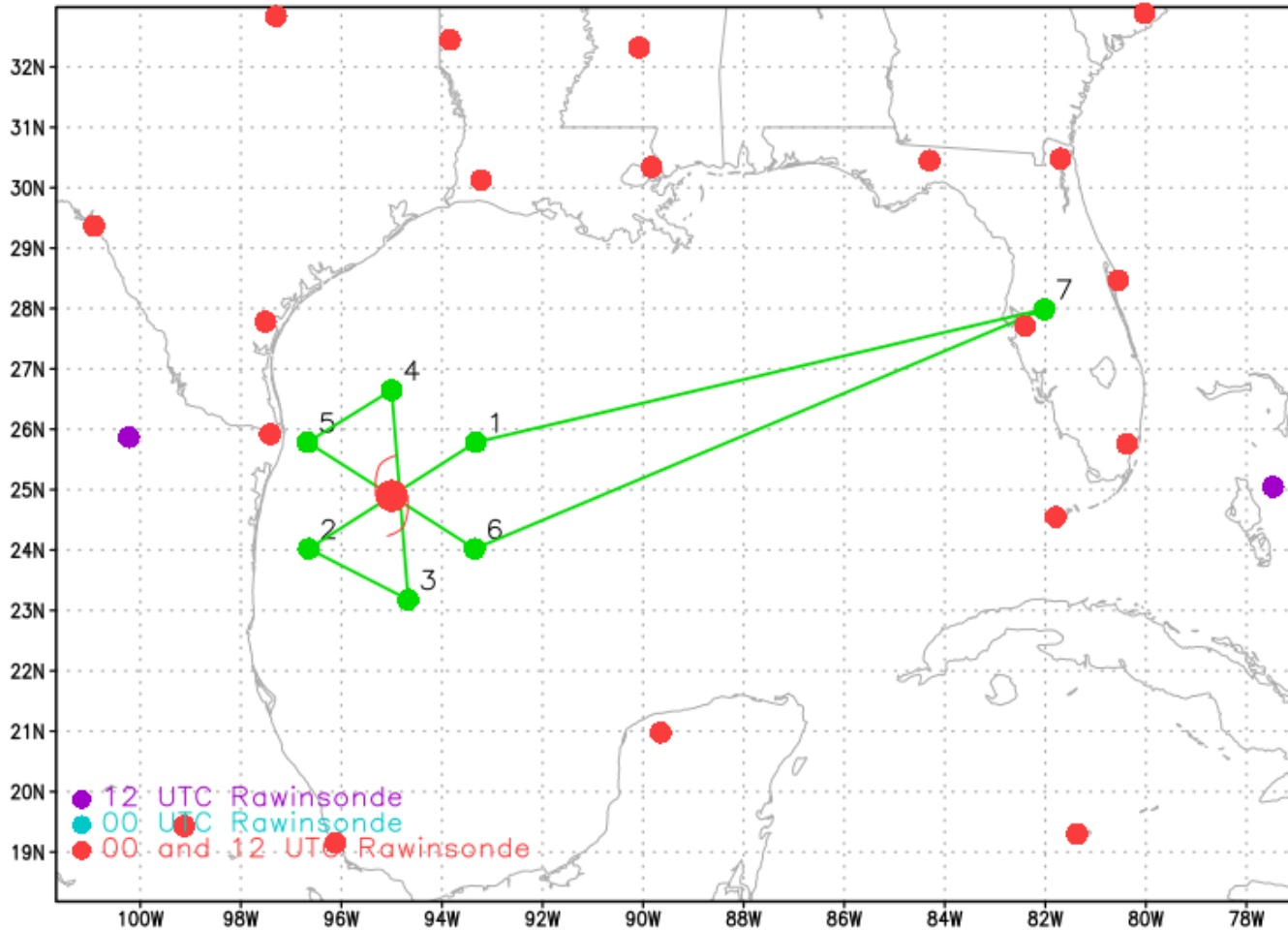




# SATELLITE



# Mission



- Rotate IP to N of center
- Sondes/BTs on endpoints (HFIP), sonde in center (NHC) – backups
- 105nm legs, FL100

# Other Aircraft

## FLIGHT THREE -- TEAL 71

- A. 25/2330Z, 0530Z
- B. AFXXX 1509A HARVEY
- C. 24/2130Z
- D. 25.2N, 94.9W
- E. 24/2300Z TO 25/0530Z
- F. SFC TO 10,000 FT

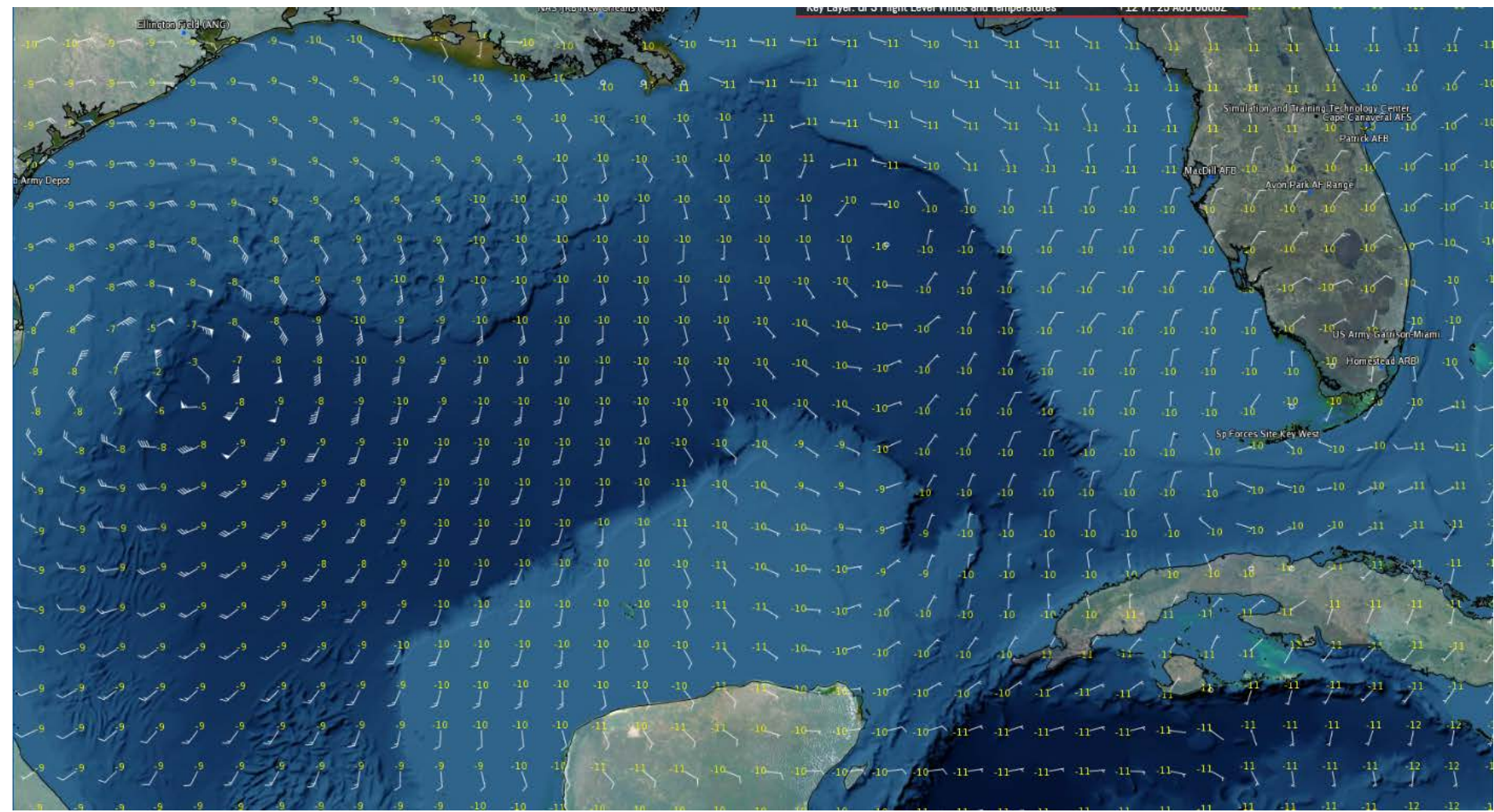
## FLIGHT FIVE – NOAA 49

- A. 25/0000Z
- B. NOAA9 1509A HARVEY
- C. 24/1730Z
- D. NA
- E. NA
- F. 41,000 TO 45,000 FT



# Transit FL210

## VT 25/06



# Airfield Wx

- KLAL 242250Z 15011KT 10SM SCT025 28/24 A2985
- KLAL 242238Z 2423/2518 13007KT P6SM SCT035 BKN200  
FM250100 VRB03KT P6SM FEW040 BKN250

# Hazards

- Icing – above FL180, in storm environment
  - Freezing / Melting Altitude 16,000 ft
- Turbulence – in convection
- Volcanic Ash - Negative
- HD - yes
- Rapid Intensification – Yes
- 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