Weather links and images from Web Sites I use



Bob Endlich

<u>bendlich@msn.com</u>

11 September 2017

http://casf.diskstation.me/wordpress/

National Hurricane Center

http://www.nhc.noaa.gov/



Atlantic - Caribbean Sea - Gulf of Mexico Tropical Weather Outlook (en Español*) 800 PM EDT Wed Sep 6 2017

Tropical Weather Discussion 759 PM EDT Wed Sep 6 2017

Hurricane Irma 📷	Satellite Buoys Grids Storm Archive
900 PM AST POSITION UPDATECO	DRE OF IRMA PASSING JUST NORTH OF PUERTO RICO
OD DM A ST Wed See C	

National Hurricane Center

http://www.nhc.noaa.gov/





Atlantic - Caribbean Sea - Gulf of Mexico Tropical Weather Outlook (en Español*) 200 PM EDT Tue Sep 5 2017

Tropical Weather Discussion 150 PM EDT Tue Sep 5 2017

Hurricane Irma
 Satellite | Buoys | Grids | Storm Archive
 ...POTENTIALLY CATASTROPHIC CATEGORY 5 HURRICANE IRMA NEARING THE NORTHERN LEEWARD ISLANDS...
 ...WEATHER CONDITIONS WILL DETERIORATE OVER THE NORTHERN LEEWARD ISLANDS SOON...

http://www.nhc.noaa.gov/



Tropical Weather Outlook (en Español*)

200 PM EDT Tue Sep 5 2017

Hurricane Irma

Satellite | Buoys | Grids | Storm Archive

Tropical Weather Discussion

150 PM EDT Tue Sep 5 2017

...POTENTIALLY CATASTROPHIC CATEGORY 5 HURRICANE IRMA NEARING THE NORTHERN LEEWARD ISLANDS... ...WEATHER CONDITIONS WILL DETERIORATE OVER THE NORTHERN LEEWARD ISLANDS SOON...

5:00 PM AST Tue Sep Location: 17.1°N 59.8°W Moving: W at 15 mph Min pressure: 926 mb Max sustained: 185 mph	5 V Public Advisory #27 h 500 PM AST	Aviso Publico* #27 500 PM AST	Forecast Advisory #27 2100 UTC	Forecast Discussion #27 500 PM AST	Pronóstico Discusión* not available	Wind Speed Probabilities #27 2100 UTC
	NWS Local Products 537 PM AST	US Watch/ Warning 453 PM EDT				
			N.			
Wind Speed Probabilities	zperimental Arrival Time of Winds	Wind History	Warnings/0 Interactive	Cone Wa Map Sta	rnings/Cone atic Images	Warnings and Surface Wind

🧕 Tropical Storm Jose 🕅

Satellite | Buoys | Grids | Storm Archive

...JOSE GAINING STRENGTH IN THE CENTRAL TROPICAL ATLANTIC...



* If the storm is forecast to dissipate within 3 days, the "Full Forecast" and "3 day" graphic will be identical

Interactive Map

Interactive Forecast Graphics and Coastal Watches/Warnings Hurricane Irma Advisory #027

5:00 pm AST Tue Sep 05, 2017

Select Advisory: Advisory #027 V



150 300mi

Mouse Lat/Lon: 9.9, -91.2

Interactive Map

Interactive Forecast Graphics and Coastal Watches/Warnings

Hurricane Irma Advisory #027 5:00 pm AST Tue Sep 05, 2017

Select Advisory: Advisory #027 V

☑ Track | ☑ Cone | ☑ Wind Watches/Warnings | ☑ Storm Surge Watches/Warnings | ☑ Initial Wind Radii □ 34kt WSP | □ 50kt WSP | □ 64kt WSP | ☑ Past Track | ☑ Auto-Zoom (on cone load)



Clear Map



http://www.nhc.noaa.gov/ refresh/graphics_at1+shtml/ 154010.shtml?gm_track# contents

Interactive Map

Interactive Forecast Graphics and Coastal Watches/Warnings Hurricane Irma Advisory #038 11:00 am EDT Fri Sep 08, 2017 Select Advisory: Advisory #038

☑ Track | ☑ Cone | ☑ Wind Watches/Warnings | ☑ Storm Surge Watches/Warnings | ☑ Initial Wind Radii □ 34kt WSP | □ 50kt WSP | □ 64kt WSP | ☑ Past Track | ☑ Auto-Zoom (on cone load)

Clear Map





ZCZC MIATCDAT1 ALL TTAA00 KNHC DDHHMM

http://www.nhc.noaa.gov/text/refresh/ MIATCDAT1+shtml/112036.shtml?

Hurricane Irma Discussion Number 27 NWS National Hurricane Center Miami FL AL112017 500 PM AST Tue Sep 05 2017

Irma continues to exhibit a remarkably impressive satellite presentation. The intensity was increased to 160 kt on the 1800 UTC intermediate public advisory based on a couple of SFMR winds of 160 kt measured in the northeastern eyewall by the Air Force aircraft just prior to that time.

The minimum pressure measured by a dropsonde in the eye was 926 mb. Irma becomes only the fifth Atlantic basin hurricane with a peak wind speed of 160 kt or higher.

The others are Allen (1980), the Labor Day Hurricane of 1935, Gilbert (1988), and Wilma (2005).

The eye of Irma is within range of the Meteo France radar in the northeastern Caribbean, and recent images show the development of an outer eyewall, likely the beginning stages of an eyewall replacement. These changes in inner-core structure will likely result in fluctuations in intensity during the next couple of days. Otherwise, increasing upper-ocean heat content and a very favorable upperlevel pattern are expected to allow Irma to remain a category 4 or 5 hurricane during the next several days.

Once again, the NHC forecast shows limited interaction of the hurricane with the islands of the Greater Antilles.

Fixes from the latest satellite and radar imagery suggest that Irma is moving a little north of due west or 280/13 kt.

A strong ridge extending southwestward from the central Atlantic is expected to steer Irma west-northwestward during the couple of days. A large mid-latitude trough over the eastern United States is forecast to lift northeastward, allowing the ridge to build westward and keep Irma on a westward to west-northwestward heading through Friday.

Over the weekend, a shortwave trough diving southward over the east-central U.S. is expected to weaken the western portion of the ridge, causing Irma to turn poleward. The dynamical model guidance is in good agreement through 72 hours, but there is increasing spread thereafter.

The HWRF, UKMET, and ECMWF show a more southerly track and a sharper turn around day 5, while the GFS is farther north and east late in the period. The NHC track is near a consensus of these models and close to the HFIP corrected consensus.

Users are reminded to not focus on the exact forecast track, especially at the longer ranges, since the average NHC track errors are about 175 and 225 statute

miles at days 4 and 5, respectively.

KEY MESSAGES:

1. Irma is a potentially catastrophic category 5 hurricane and will bring life-threatening wind, storm surge, and rainfall hazards to portions of the northeastern Leeward Islands tonight and tomorrow.

These hazards will spread into the Virgin Islands and Puerto Rico tomorrow.

Preparations should be rushed to completion before the arrival of tropical-storm force winds tomorrow morning in Virgin Islands and Puerto Rico.

2. A hurricane warning is in effect for the northern coast of the Dominican Republic, with hurricane watches for Haiti, the southeastern Bahamas and the Turks and Caicos.

Irma is likely to bring dangerous wind, storm surge, and rainfall to these areas from Wednesday night through Friday.

3. Irma could directly affect the remainder of the Bahamas and Cuba as an extremely dangerous major hurricane later this week. Residents in these areas should monitor the progress of Irma and listen to advice given by officials.

4. The chance of direct impacts from Irma beginning later this week and this weekend from wind, storm surge, and rainfall continues to increase in the Florida Keys and portions of the Florida Peninsula.

However, it is too soon to specify the timing and magnitude of these impacts.

FORECAST POSITIONS AND MAX WINDS INIT 05/2100Z 17.1N 59.8W 160 KT 185 MPH 12H 06/0600Z 17.6N 61.8W 155 KT 180 MPH 24H 06/1800Z 18.5N 64.6W 150 KT 175 MPH 36H 07/0600Z 19.5N 67.3W 145 KT 165 MPH 48H 07/1800Z 20.4N 70.1W 140 KT 160 MPH 72H 08/1800Z 21.6N 75.3W 135 KT 155 MPH 96H 09/1800Z 22.7N 79.3W 125 KT 145 MPH 120H 10/1800Z 24.4N 81.5W 120 KT 140 MPH

\$\$ Forecaster Brown

NNNN

<u>http://wxweb.meteostar.com/models/noaaport_loop.php?PATH=/</u> <u>var/www/leads_images/satellite/SYS/COMP/</u>



https://wattsupwiththat.com/2017/09/07/beauty-and-the-beastshurricanes-katia-irma-and-jose-in-one-spectacular-image/

NOAA GOES-16 18:30 UTC 09-07-2017



WUW





https://twitter.com/RyanMaue/status/880480054689628160

http://policlimate.com/tropical/



http://weather.rap.ucar.edu/upper/upaCNTR_500.gif

500 mb rawinsonde data 12z Tue 05 Sep 2017

500 mb Heights (dm) / Temperature (°C) / Humidity (%)

0-hour analysis valid 1200 UTC Tue 05 Sep 2017 RAP (12z 05 Sep) 588 -\$ 591 B 591

80

90

(percent)

70

Black lines:

Contours of the HEIGHT of the 500 millibar surface

594 = 5940 Meters 588 = 5880 Meters

Dotted Lines:

Temperatures at 500 millibars.

http://weather.rap.ucar.edu/upper/upaCNTR_500.gif

500 mb rawinsonde data 12z Sun 10 Sep 2017

500 mb Heights (dm) / Temperature (°C) / Humidity (%)

0-hour analysis valid 1200 UTC Sun 10 Sep 2017 RAP (12z 10 Sep) H21 356 Uh20 561 17 584 UII 158 588 6<u>/</u> 589 र्£ 587 **₄** 591 589 -7-591 (-8, 59) (71 127 127 -91 590 10 588 588-5 590 -3 587 -3 585

Black lines:

Contours of the HEIGHT of the 500 millibar surface

594 = 5940 Meters 588 = 5880 Meters

Dotted Lines:

Temperatures at 500 millibars.

80

70

(percent)

90

Surface weather observations are plotted on a map in this stylistic manner:





http://weather.rap.ucar.edu/surface/displaySfc.php?region=abq&endDate=20100315& endTime=-1&duration=0



Page generated from http://weather.rap.ucar.edu/surface/ at Tue, 5 Sep 2017 22:49:33 UTC.

http://weather.rap.ucar.edu/surface/



Surface plots from other internet sources

Local Weat

http://weather.rap.ucar.edu/surface/displaySfc.php?region=lws&endDate=20170905&en dTime=-1&duration=0

Forest Fire Smoke was the source of the Red Station Plots

Surface visibility was less than 3 miles.



http://weather.rap.ucar.edu/surface/displaySfc.php?region=alb&endDate=20170905&end Time=-1&duration=0



Low clouds were the reason for the red station symbols at KBHB and KRKD.

Rain and embedded thunderstorms were bringing low clouds and low visibilities the area. https://radar.weather.gov/ ridge/radar.php?product= NCR&rid=gyx&loop=yes

Portland ME, Weather Radar shows the embedded rainshowers and thunderstorms.

NWS Portland, ME

Composite Reflectivity





http://weather.rap.ucar.edu/upper/epz.gif Skew-T Log P diagram



The Skew-T allows easy calculation of dozens of thermodynamic variables





http://forecast.weather.gov/product.php?site=NWS&issuedby=EPZ&product=AFD&format =CI&version=1&glossary=1

TORR	National Weather Service National Head National Weather Service							
ALC: NOT	Home	Site Map	News	Organization	Search for:	-		
Local forecast by "City, St" or Zip	Area Fore	e cast Discussio NWS	n			_		
Code City, St Go	Current V Versions:	/ersion <u>Previou</u> 1 <u>2 3 4 5 6 7 8 9</u>	<u>is Version Te</u> 10 11 12 13 1	ext Only Print Produ	ict List Glossary Off			
Feeds	000 FXUS64 KE AFDEPZ	SPZ 052133						
	Area Forecast Discussion National Weather Service El Paso Tx/Santa Teresa MM 333 PM MDT Tue Sep 5 2017							
	.SYNOPSIS High pres New Mexic from thur mountains Arizona, initially possibly	.SYNOPSIS High pressure over the Great Basin will slowly drift east to over New Mexico Thursday. This will keep much of the Borderland free from thunderstorms, though a slight risk will continue over the mountains. By Monday and Tuesday the ridge drifts back over Arizona, bringing northerly flow back to our area. This will initially bring some thunderstorms to the mountains and the possibly to the lowlands Wednesday and Thursday.						

.DISCUSSION... Not much change to the big picture weather pattern. We are still stuck in the pattern of the upper high over the Great <u>Basin</u> inhibiting most or all <u>convection</u> over the <u>CWA</u>.

Weak backdoor cool <u>front</u> did move west through much of the area this morning. It briefly produced low clouds over the east slopes of the Sacs and now looks to have added enough low level <u>moisture</u> for fairly significant <u>cu</u> fields. <u>Inversion</u> at mid levels still looks to be <u>capping cu</u> from any growth. EPZ morning <u>sounding</u> showed strong <u>cap</u> around 600 <u>mb</u>.

Remains of Lidia will be incorporated into Pacific <u>trough</u> and move slowly toward the California coast. This will begin a slow movement of our upper <u>ridge</u> over New Mexico Thursday and then over western Texas Friday.

This will <u>likely</u> strengthen the mid level <u>cap</u> though also allow some tropical <u>moisture</u> out near the Arizona border. Hence, kept <u>POPs</u> out of the east through the weekend, but put low <u>POPS</u> out west with the added <u>moisture</u>

. The hazy, smokey conditions of the past several days should diminish. By Sunday and Monday the affects of <u>Hurricane</u> Irma will be felt tangentially. As it nears Florida, it will block the Pacific <u>trough</u>/Texas <u>ridge</u> from moving any further east. In fact the couple are forced back west.

By Monday the <u>flow</u> turns northerly with the <u>ridge</u> to our west. This could bring a few thunderstorms back to the mountains.

.PRELIMINARY POINT TEMPS/POPS								
El Paso	67	89	66	91 /	0	0	0	0
Sierra Blanca	61	85	60	88 /	0	0	0	0
Las Cruces	62	87	61	89 /	0	0	0	0
Alamogordo	60	86	61	89 /	0	0	0	0
Cloudcroft	44	66	47	69 /	10	20	20	20
Truth or Consequences	62	87	64	88 /	0	0	10	10
Silver City	57	84	58	86 /	10	20	20	20
Deming	62	88	61	90 /	0	0	0	0
Lordsburg	64	89	61	91 /	0	0	0	0
West El Paso <u>Metro</u>	67	88	65	90 /	0	0	0	0
Dell City	61	87	59	91 /	0	0	0	10
Fort Hancock	64	90	62	91 /	0	0	0	0
Loma Linda	60	84	61	88 /	0	0	0	0
Fabens	65	89	63	91 /	0	0	0	0
Santa Teresa	64	88	63	90 /	0	0	0	0
White Sands HQ	61	86	62	89 /	0	0	0	0
Jornada Range	57	87	58	90 /	0	0	0	0
Hatch	62	88	61	90 /	0	0	0	0
Columbus	64	89	61	90 /	0	0	0	0
Orogrande	63	86	64	89 /	0	0	0	0
Mayhill	46	74	52	79 /	10	20	20	20
Mescalero	49	76	52	81 /	10	20	20	20
Timberon	48	72	51	78 /	10	20	20	20
Winston	50	82	49	83 /	10	20	20	20
Hillsboro	58	87	58	90 /	10	20	20	20
Spaceport	56	87	60	89 /	0	0	0	0
Lake Roberts	49	82	47	85 /	10	20	20	20
Hurley	56	86	59	88 /	10	20	20	20
Cliff	49	89	50	89 /	10	10	10	10

<u>GFS</u> shows <u>moisture</u> and <u>instability</u> returning to all zones on Tuesday and Wednesday, so the lowlands could see a <u>thunderstorm</u> or two.

AVIATION...Valid 06/00Z-07/00Z... P6SM FEW-SCT100-120 through 18z then <u>SCT</u>-BKN090-110. <u>Isolated</u> -<u>TSRA</u> BKN060-080 possible mainly over area mountains until 03Z and again after 18Z. Winds mainly E to SE 5-15KTS with some higher gusts possible on western mountain slopes between 03Z and 12Z. && .

FIRE WEATHER... Weak back door cold <u>front</u> moving through region at this time but it will not have much affect on temperatures, especially western zones.
There will be an increase in low level <u>moisture</u> behind <u>front</u> which will increase precipitation chances, mainly over area mountains for the next few days.

Expect relative humidities to rise into the 20s for the lowlands with 30s and 40s in area mountains. There will be some gusty winds through tonight, especially far west and western mountain slopes, but decrease after sunrise tomorrow. Vent rates will be falling into the <u>fair</u> to good categories for the next couple of days.

EPZ WATCHES/WARNINGS/ADVISORIES <u>NM</u>...None. TX...None. \$\$

Hefner/Grzywacz

http://mesowest.utah.edu/cgi-bin/droman/mesomap.cgi?profile_id=JX655ma974JSm69



http://mesowest.utah.edu/cgi-bin/droman/mesomap.cgi?profile_id=JX655ma974JSm69

