



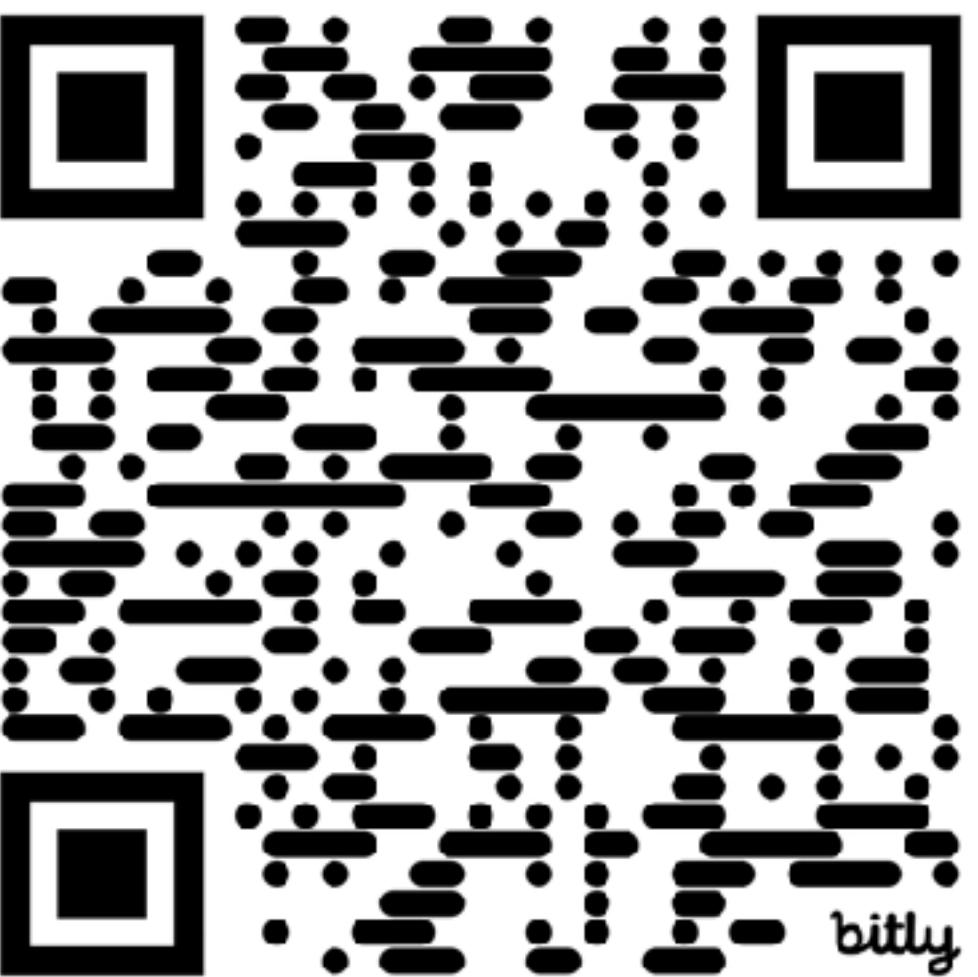
**ONA** | **25**

NEW ORLEANS | SEPTEMBER 10-13

# Understanding and Using Hurricane Data

JOHN KEEFE  
Weather Editor, The New York Times

DATA & TIP SHEET  
[bit.ly/hurricane-data](http://bit.ly/hurricane-data)



# Today

A tour of hurricane data and maps

Where to find hurricane data

Making a map with Datawrapper

Doing deeper analysis with Python

# Today

A tour of hurricane data and maps (generally nerdy)

Where to find hurricane data (a little more nerdy)

Making a map with Datawrapper (map nerdy)

Doing deeper analysis with Python (super nerdy)

## When a tropical storm forms ...

Where is it going?

Where it is now?

How strong will it get?

When might it get here?

What danger is ahead?

# When a tropical storm forms ...

Where is it going?

Where it is now?

How strong will it get?

When might it get here?

What danger is ahead?

Where has it been?

What has happened historically?

**A tour of  
hurricane data and maps**

[Home](#)[Mobile Site](#)[Text Version](#)[RSS](#)[Local Forecast](#)

Enter City, St or ZIP code

[Go](#)

# NATIONAL HURRICANE CENTER and CENTRAL PACIFIC HURRICANE CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

[ANALYSES & FORECASTS](#)[DATA & TOOLS](#)[EDUCATIONAL RESOURCES](#)[ARCHIVES](#)[ABOUT](#)[SEARCH](#)**Top News of the Day... [view past news](#)**

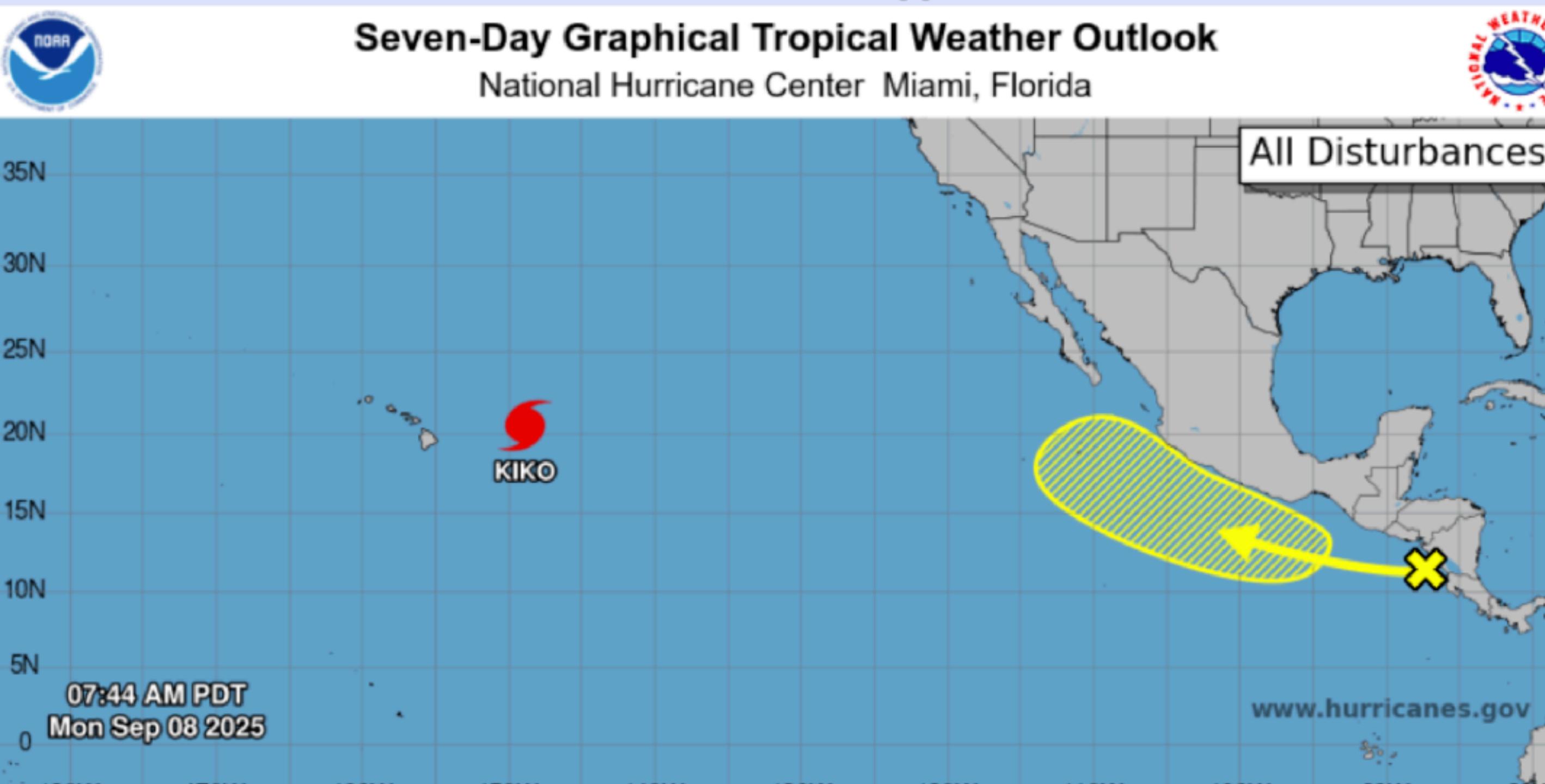
Last update Mon, 08 Sep 2025 16:20:09 UTC

- **NHC issuing advisories for the Central Pacific on Hurricane Kiko**
- Key messages regarding Hurricane Kiko (en Español: Mensajes Claves)
- NOAA prediction remains on track for above-normal Atlantic hurricane season
- National Hurricane Center Products and Services Update for 2025 Hurricane Season

[Central Pacific](#)[Eastern Pacific](#)[Atlantic](#)Disturbances: **ALL [1]**

## Seven-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

Current Disturbances and Seven-Day Cyclone Formation Chance: X < 40% X 40-60% X > 60%Tropical or Sub-Tropical Cyclone: ● Depression ● Storm ● Hurricane● Post-Tropical Cyclone or Remnants

nhc.noaa.gov

# Definitions

**tropical disturbance** clusters of storms

**tropical depression** more organized

sustained winds of 38 m.p.h

advisories issued

data available

“name” like “Potential Tropical Cyclone Twelve”

**tropical storm** sustained winds of 39 m.p.h. or more

it gets a name

**hurricanes** sustained winds at 74 m.p.h. or more

categories 1-5

**major hurricane** category 3, 4 or 5

# Central North Pacific (140°W to 180°)

[Tropical Weather Outlook \(en Español\\*\)](#)

200 AM HST Mon Sep 08 2025

## Hurricane Kiko

[Satellite](#) | [Buoys](#) | [Grids](#) | [Storm Archive](#)

**...KIKO NOW A CATEGORY 1 HURRICANE... ...FORECAST TO PASS NORTH OF THE HAWAIIAN ISLANDS LATER THIS WEEK BRINGING SURF AND RIP CURRENT IMPACTS TO PORTIONS OF THE ISLANDS...**

**5:00 AM HST Mon Sep 08**

Location: 20.3°N 148.8°W  
Moving: WNW at 15 mph  
Min pressure: 984 mb  
Max sustained: 85 mph

[Public Advisory #34](#)  
500 AM HST

[Forecast Advisory #34](#)  
1500 UTC

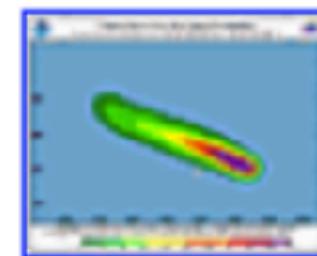
[Forecast Discussion #34](#)  
500 AM HST

[Wind Speed Probabilities #34](#)  
1500 UTC

**Productos en español:**  
[\(más información\)](#)

[Aviso Publico](#)

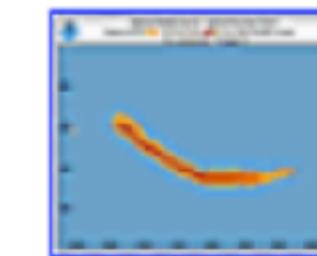
[Pronóstico Discusión](#)



[Wind Speed Probabilities](#)



[Arrival Time of Winds](#)



[Wind History](#)



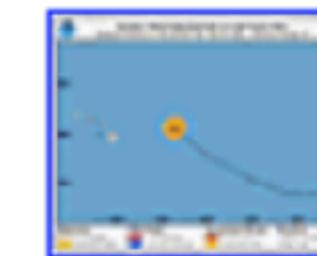
[Warnings/Cone Interactive Map](#)



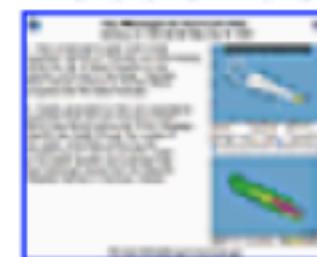
[Warnings/Cone Static Images](#)



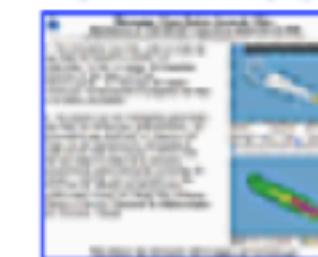
[Experimental Cone](#)



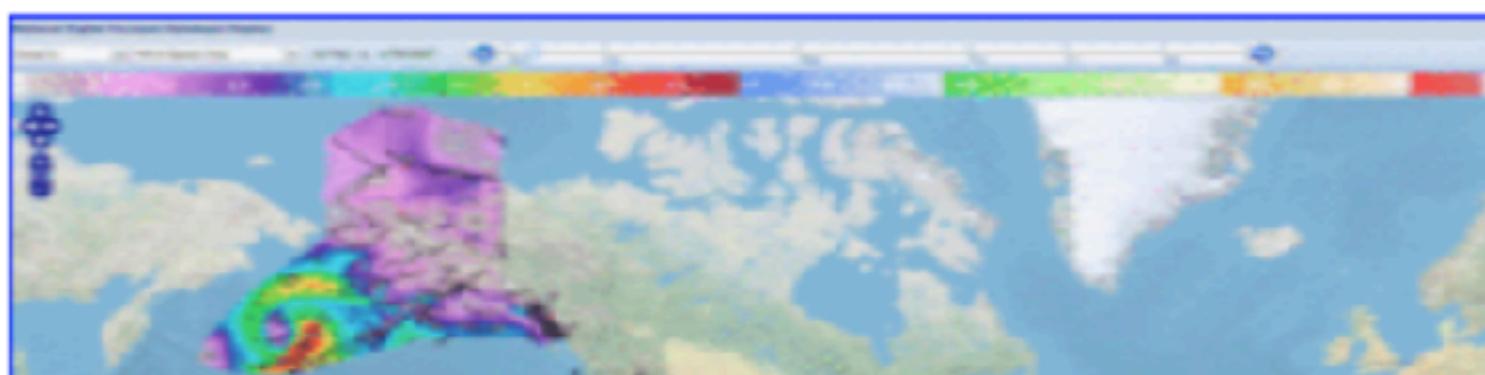
[Warnings and Surface Wind](#)



[Key Messages](#)

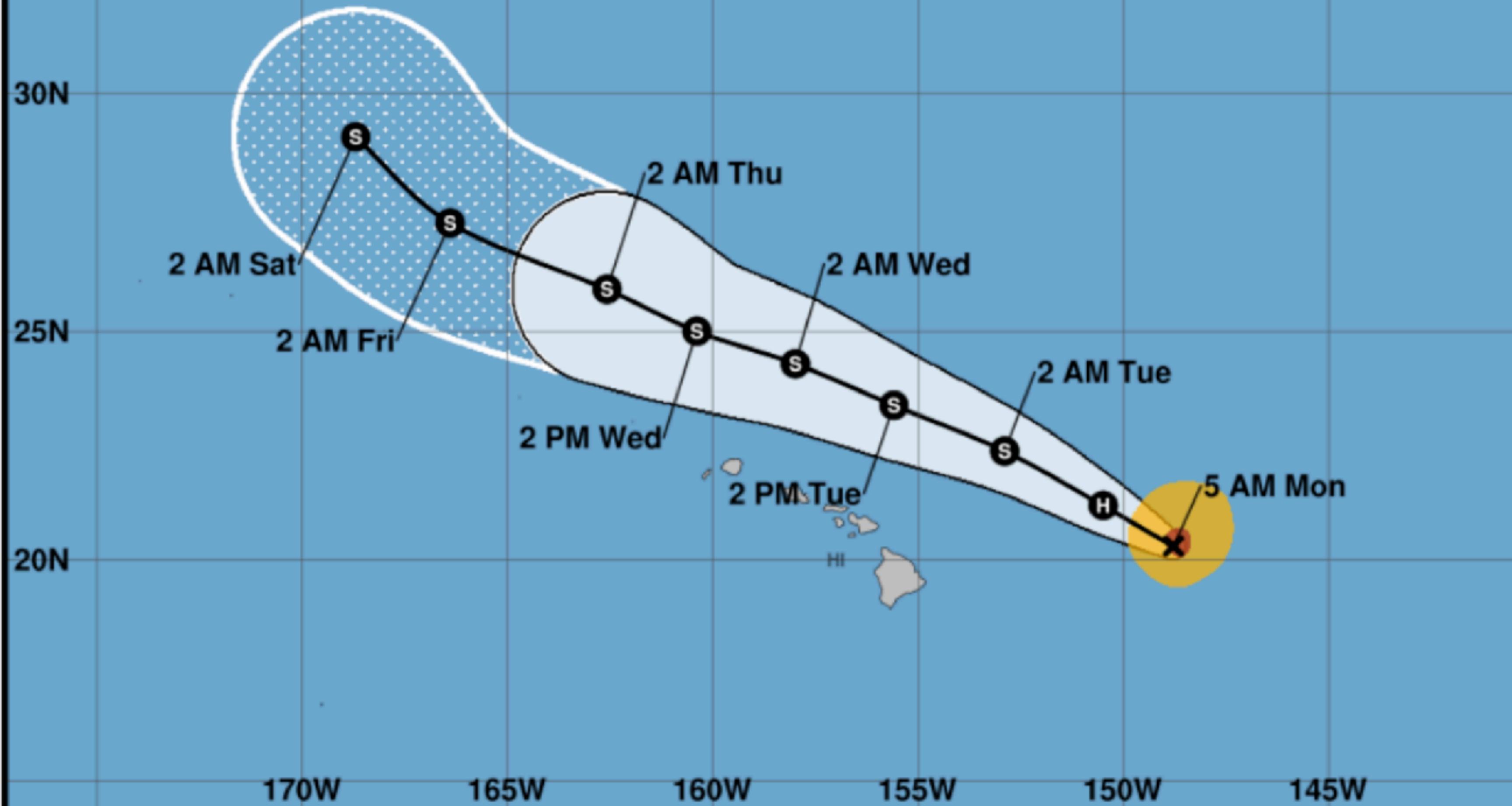


[Mensajes Claves](#)





Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



### Hurricane Kiko

Monday September 08, 2025

5 AM HST Advisory 34

NWS National Hurricane Center

### Current information: **X**

Center location 20.3 N 148.8 W

Maximum sustained wind 85 mph

Movement WNW at 15 mph

### Forecast positions:

● Tropical Cyclone ○ Post/Potential TC

Sustained winds: D < 39 mph

S 39-73 mph H 74-110 mph M > 110 mph

### Potential track area:



Day 1-3

### Watches:



Day 4-5

### Warnings:



Hurricane Trop Stm

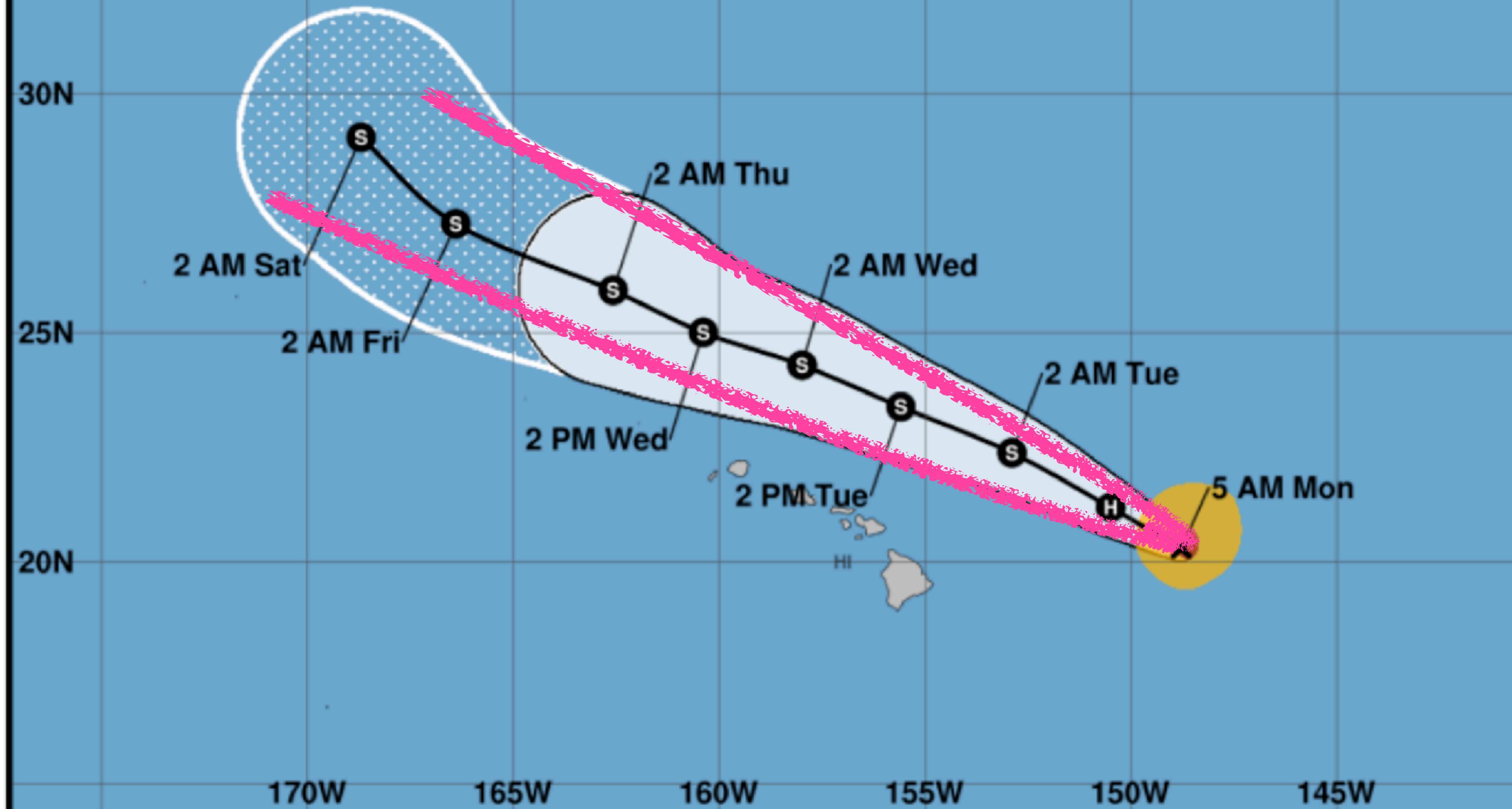
### Current wind field estimate:



Hurricane Trop Stm



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



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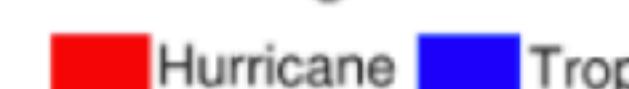
### Potential track area:



### Watches:



### Warnings:

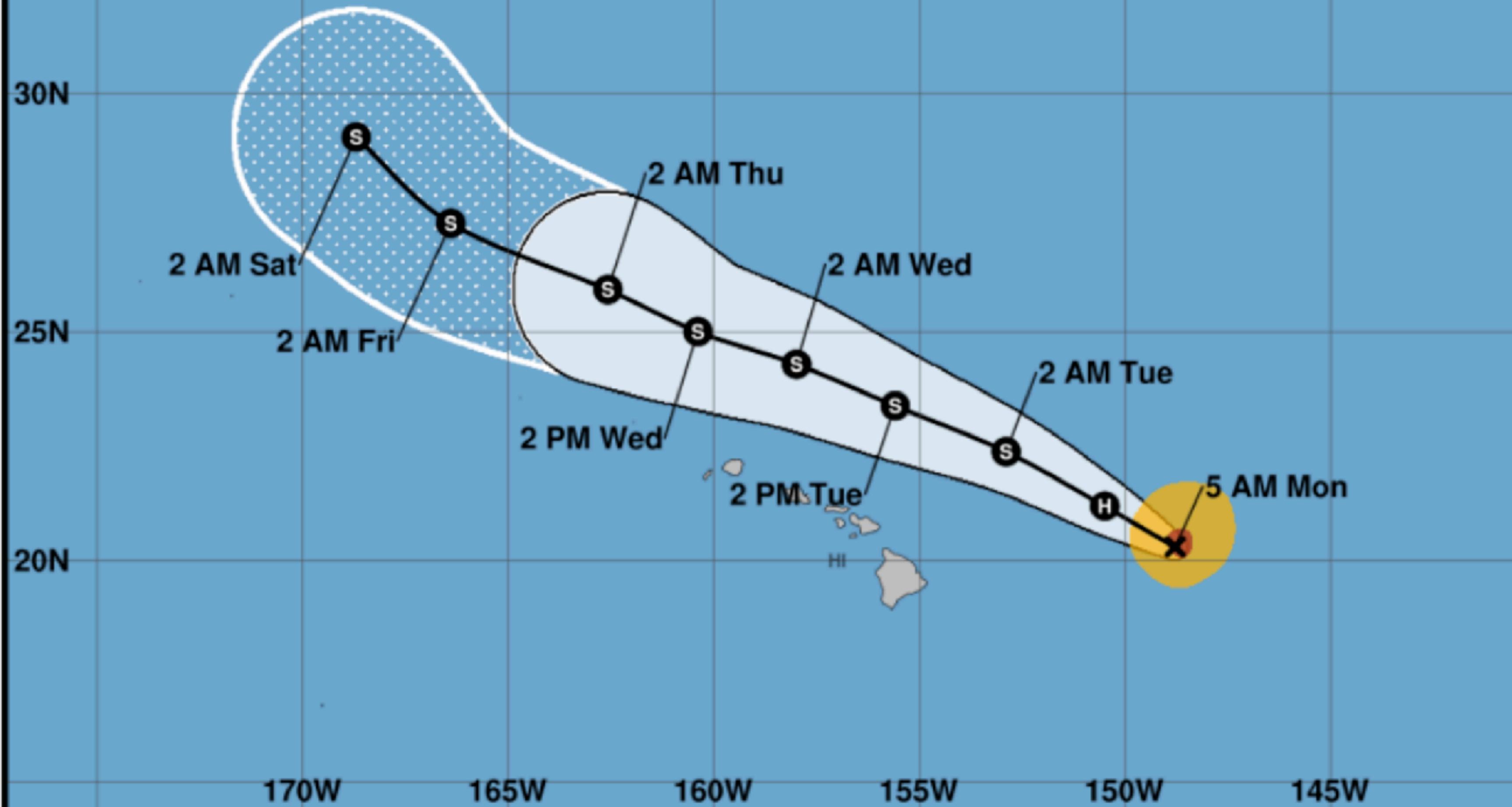


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Day 1-3

### Watches:



Day 4-5

### Warnings:



Hurricane Trop Stm

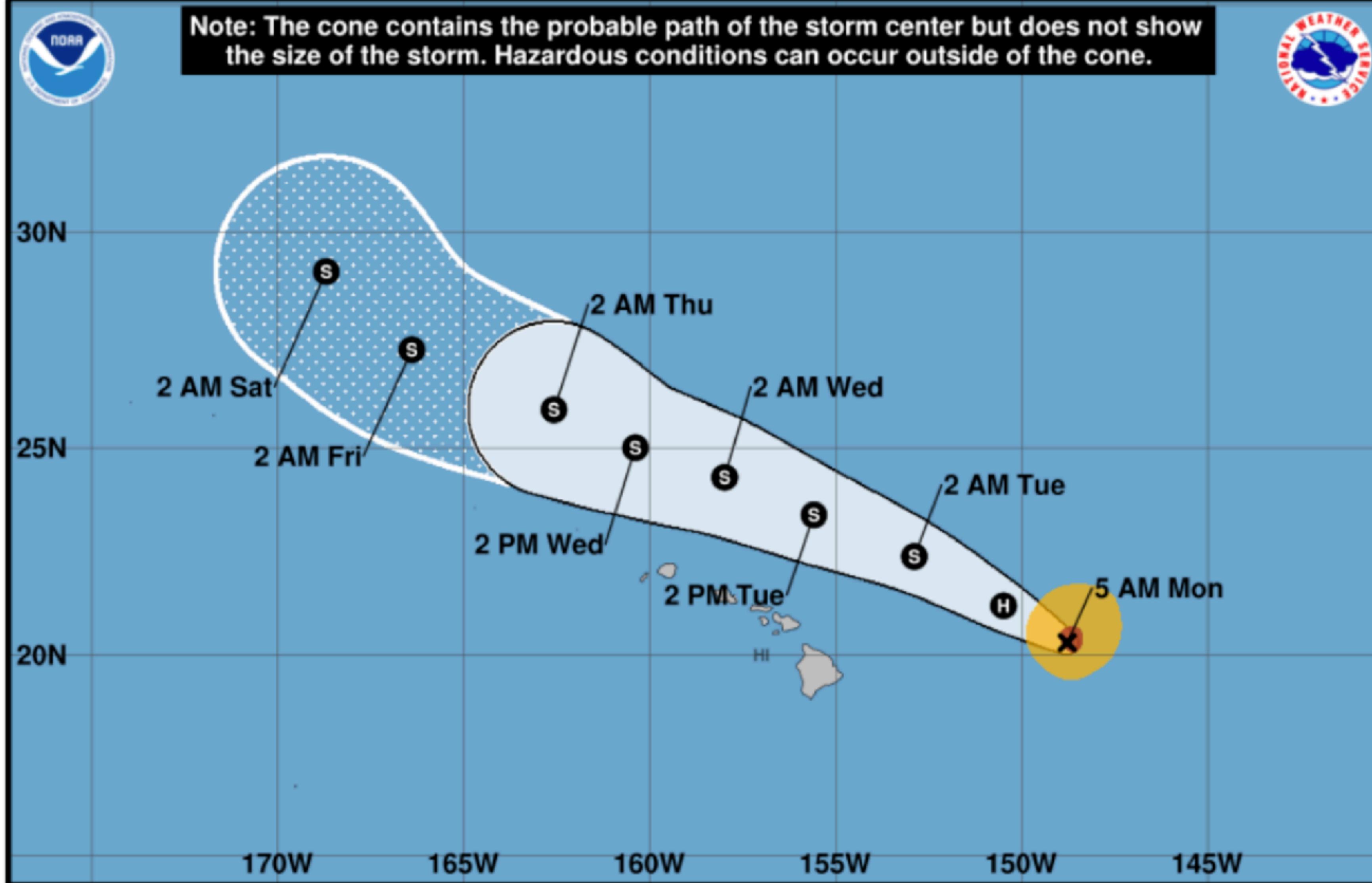
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Hurricane Trop Stm



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



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NWS National Hurricane Center

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Day 1-3

### Watches:



Day 4-5

### Warnings:



Hurricane

### Current wind field estimate:



Trop Stm



Hurricane

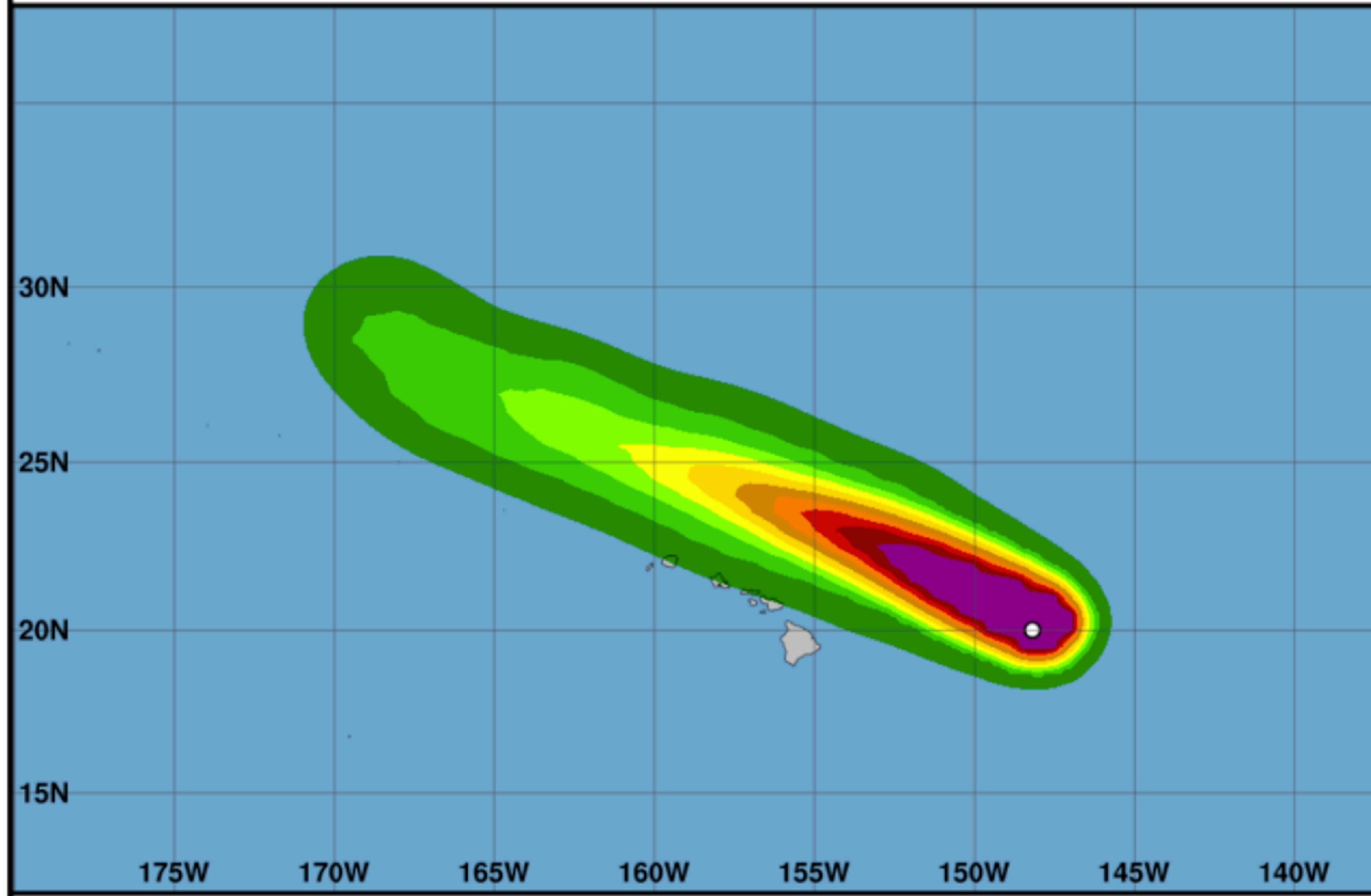


Trop Stm

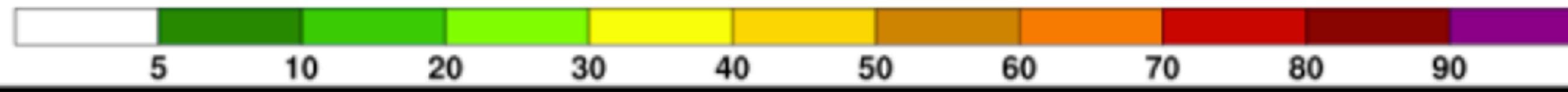


## Tropical-Storm-Force Wind Speed Probabilities

For the 120 hours (5.00 days) from 2 AM HST MON SEP 08 to 2 AM HST SAT SEP 13



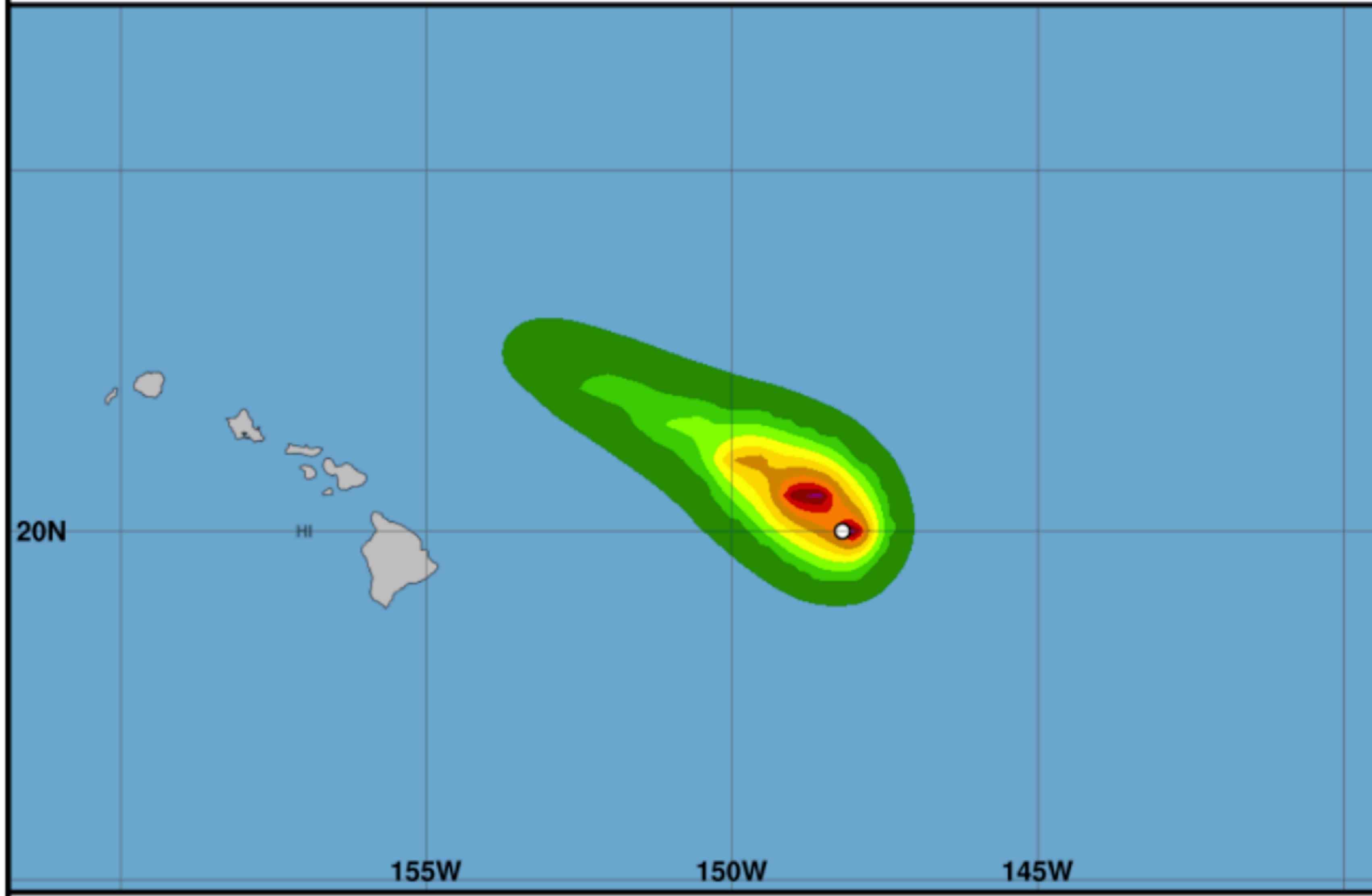
Probability of tropical-storm-force winds (1-minute average  $\geq 39$  mph) from all tropical cyclones  
○ indicates Hurricane Kiko center location at 2 AM HST MON SEP 08, 2025 (Forecast/Advisory #34)





## Hurricane-Force Wind Speed Probabilities

For the 120 hours (5.00 days) from 2 AM HST MON SEP 08 to 2 AM HST SAT SEP 13



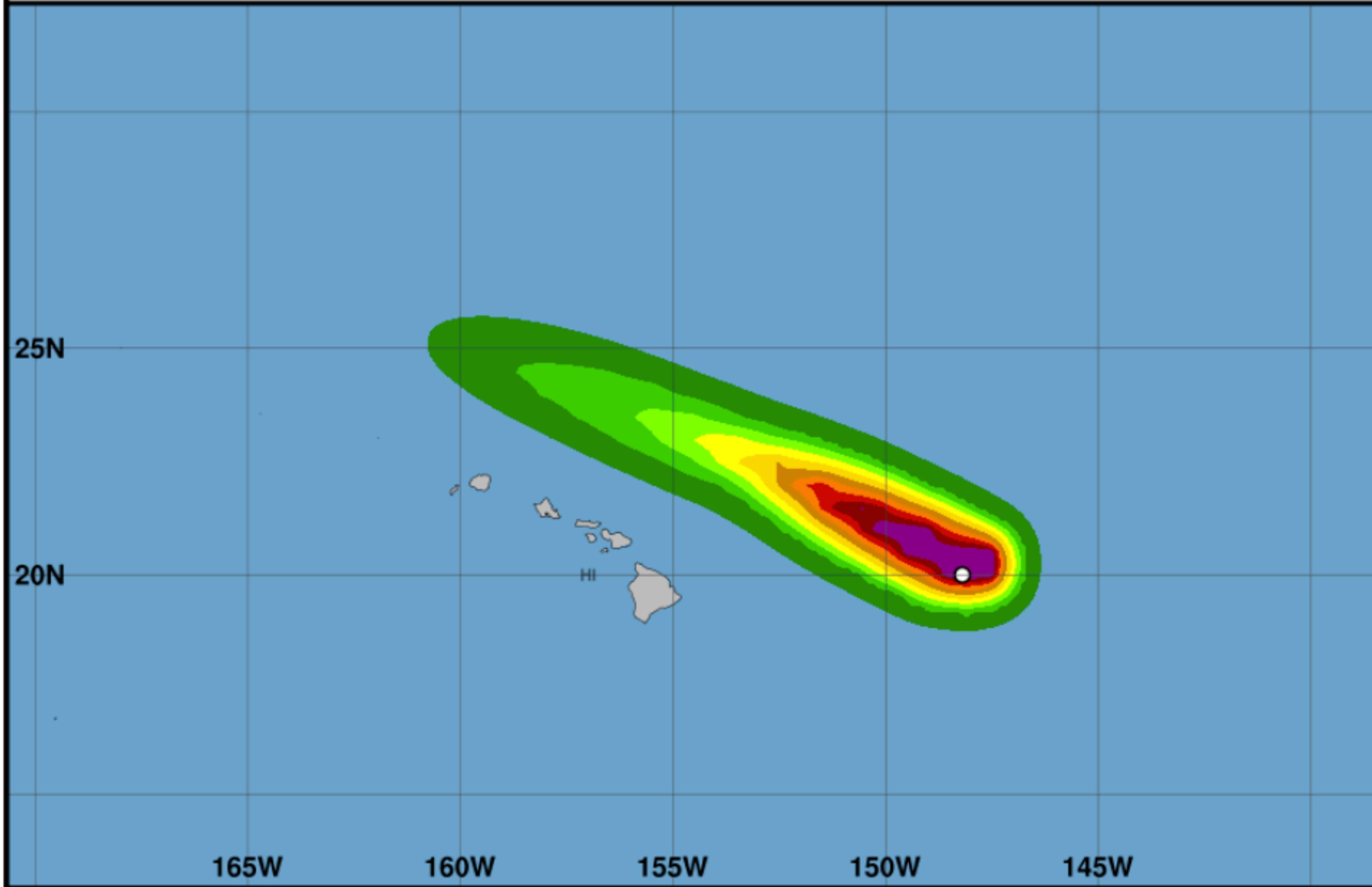
Probability of hurricane-force winds (1-minute average  $\geq 74$  mph) from all tropical cyclones  
O indicates Hurricane Kiko center location at 2 AM HST MON SEP 08, 2025 (Forecast/Advisory #34)





## 50-knot (58 mph) Wind Speed Probabilities

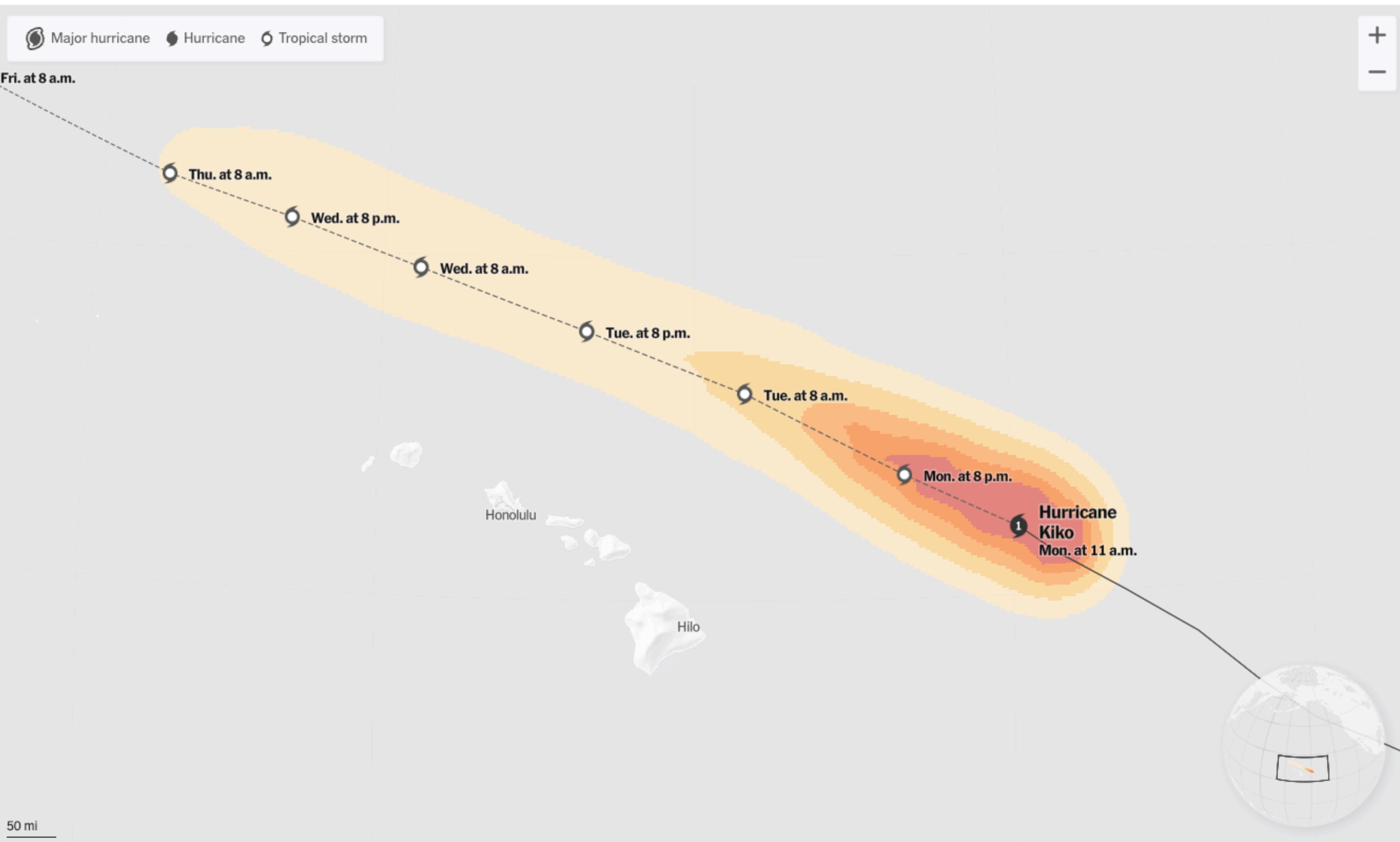
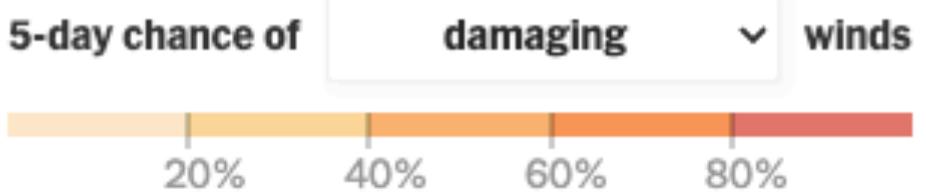
For the 120 hours (5.00 days) from 2 AM HST MON SEP 08 to 2 AM HST SAT SEP 13



Probability of 50-knot (58 mph) winds (1-minute average  $\geq$  58 mph) from all tropical cyclones  
○ indicates Hurricane Kiko center location at 2 AM HST MON SEP 08, 2025 (Forecast/Advisory #34)

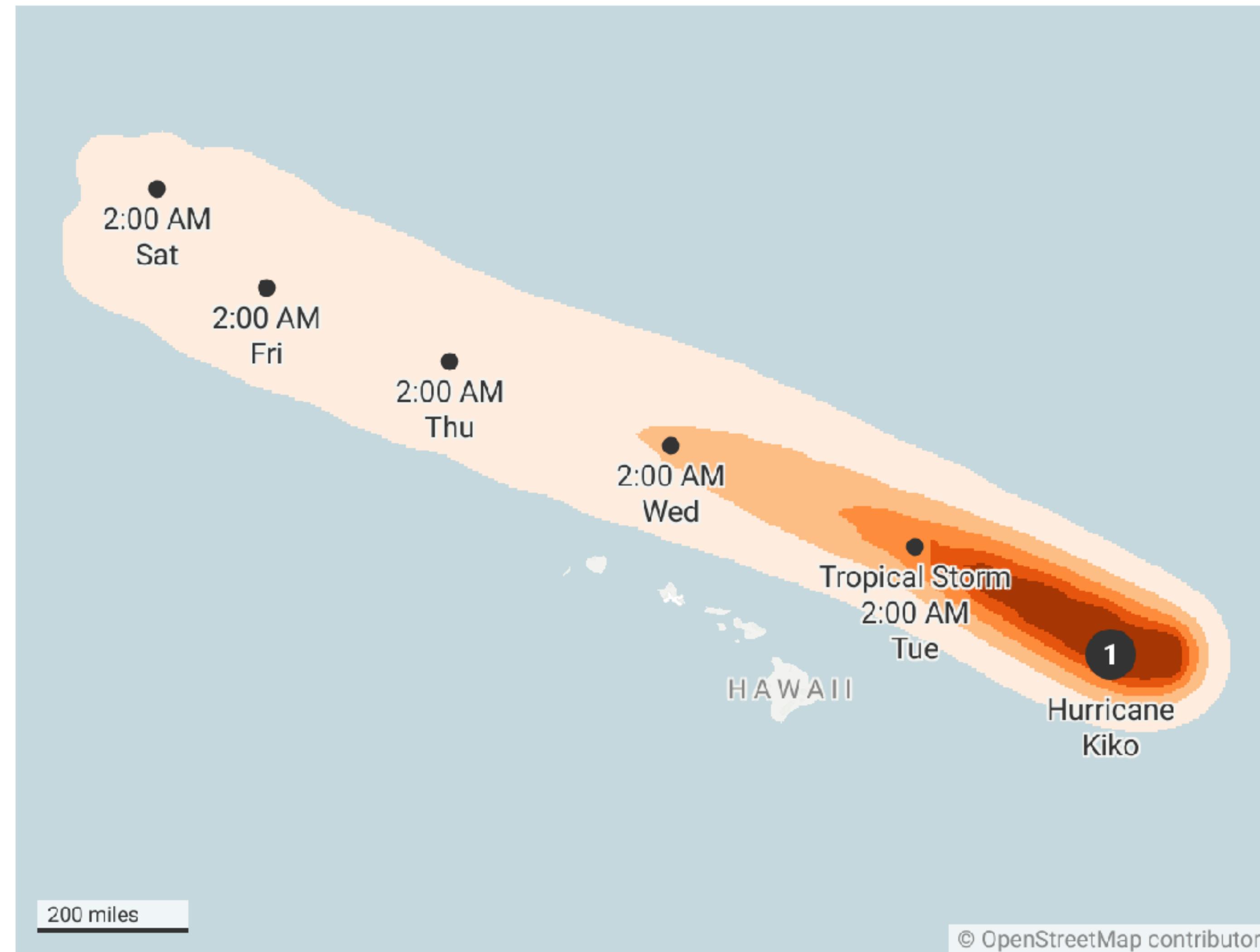


# Forecast wind speeds and direction



# Hurricane Kiko expected to pass north of Hawaii

## Chance of damaging winds



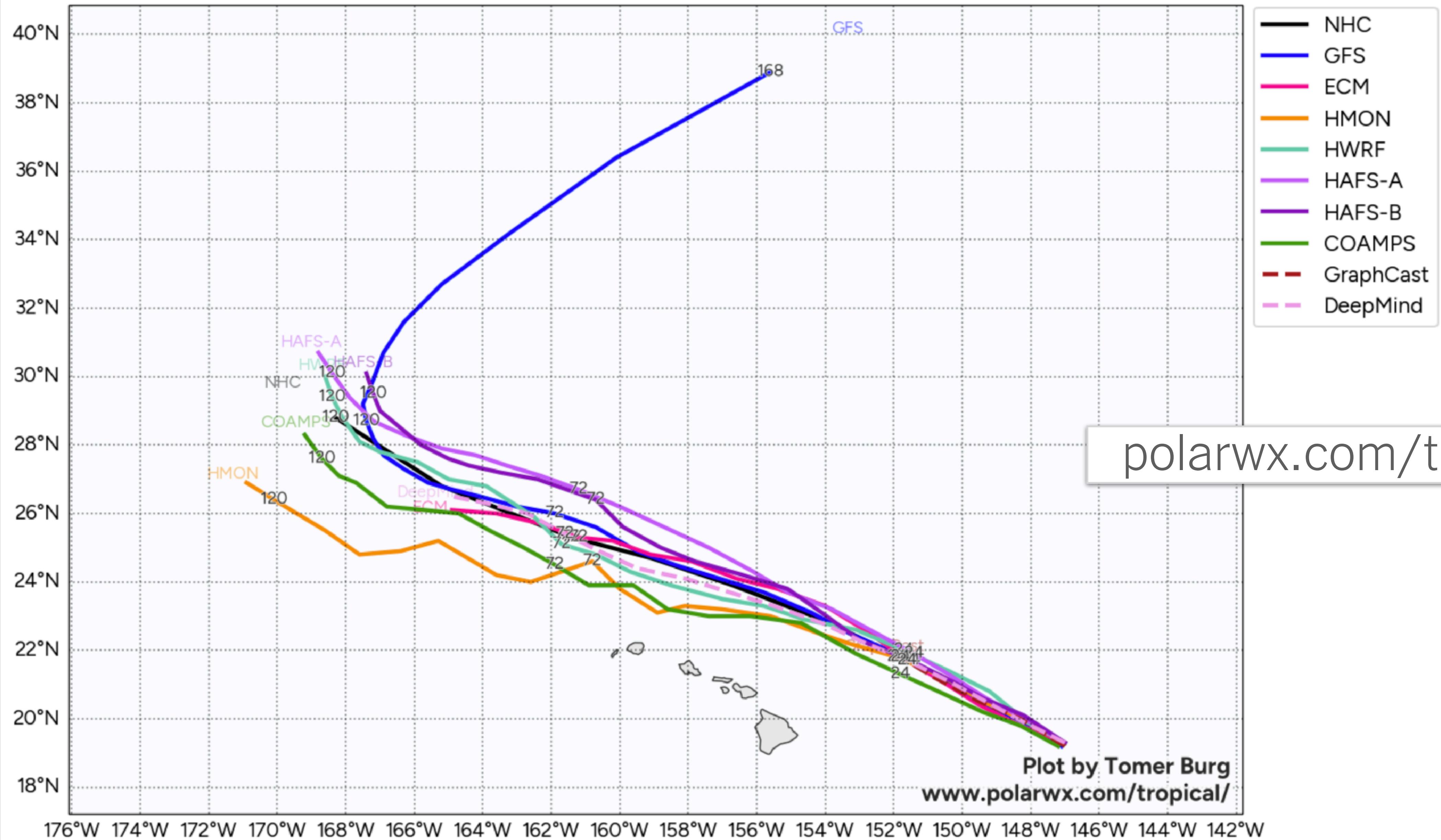
As of 5 a.m. Monday, September 8, 2025. All times Hawaii time.

Map: John Keefe • Source: National Hurricane Center • Created with Datawrapper

# Hurricane Kiko • Deterministic Model Tracks

Raw model tracks (late arriving)

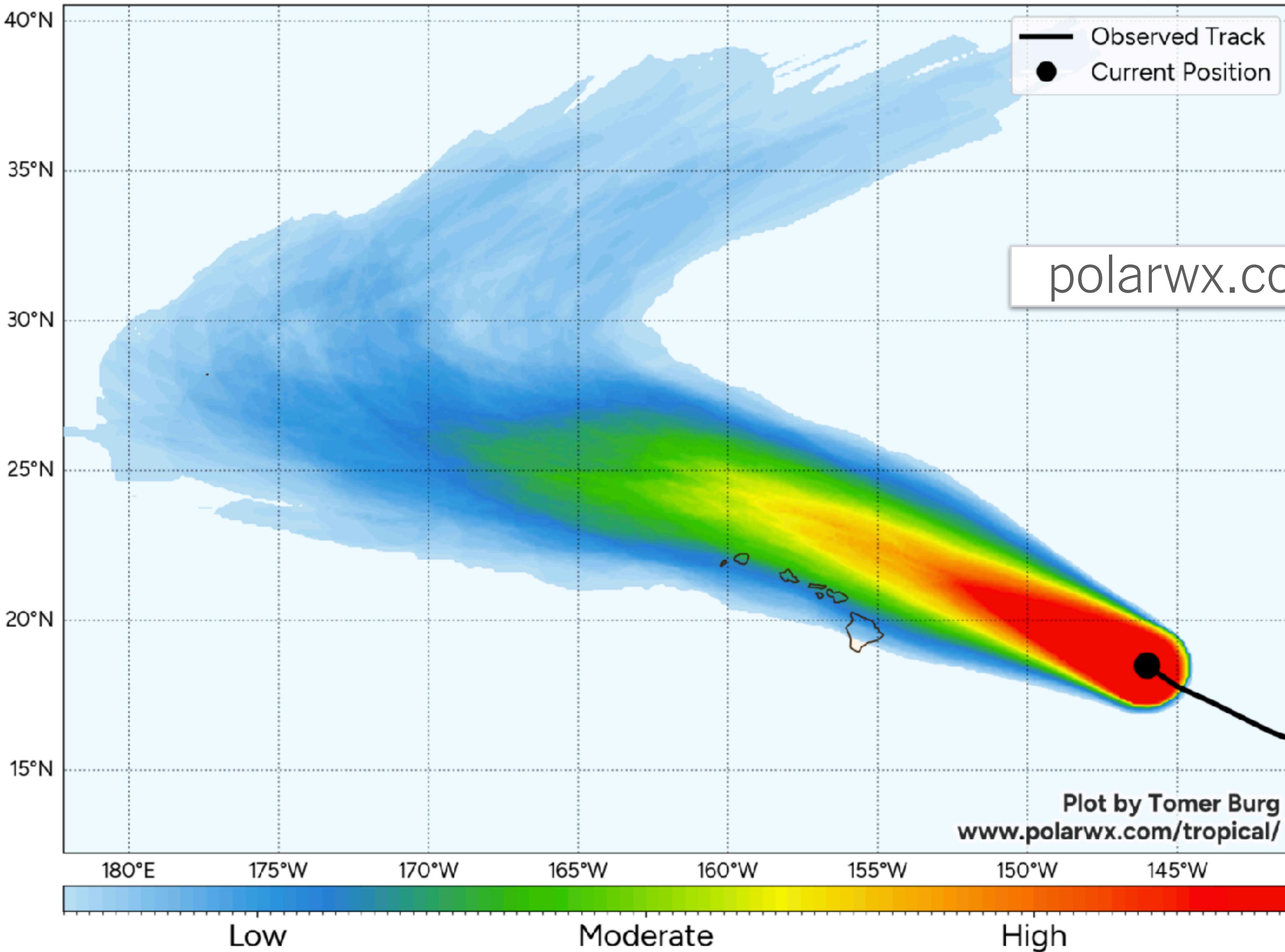
Initialized: 0600 UTC 08 September 2025



# Hurricane Kiko • Multi-model Ensemble (EPS + UKMET + GEFS + CMC)

Probability of center location within 150-km

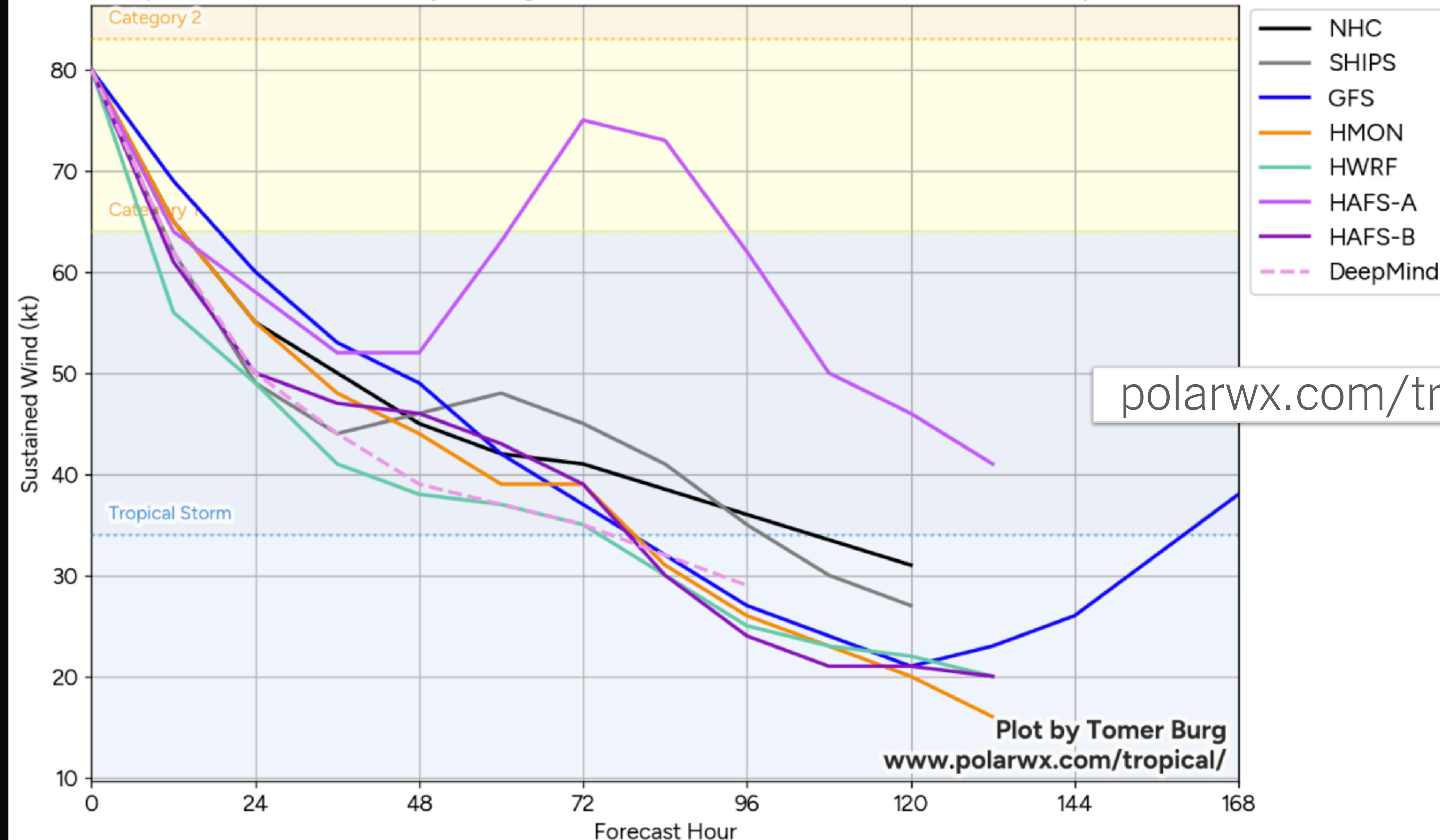
Initialized: 0000 UTC 08 September 2025



# Hurricane Kiko • Model Forecast Intensity (kt)

Interpolated model data (early arriving)

Initialized: 1200 UTC 08 September 2025



## Real Time Tropical Cyclones

**Hurricane Kiko**

Category 1 Hurricane

Latest Update • 1500 UTC 8 Sep 2025

Max Wind 75 kt (85 mph)

Min Pres 984 hPa

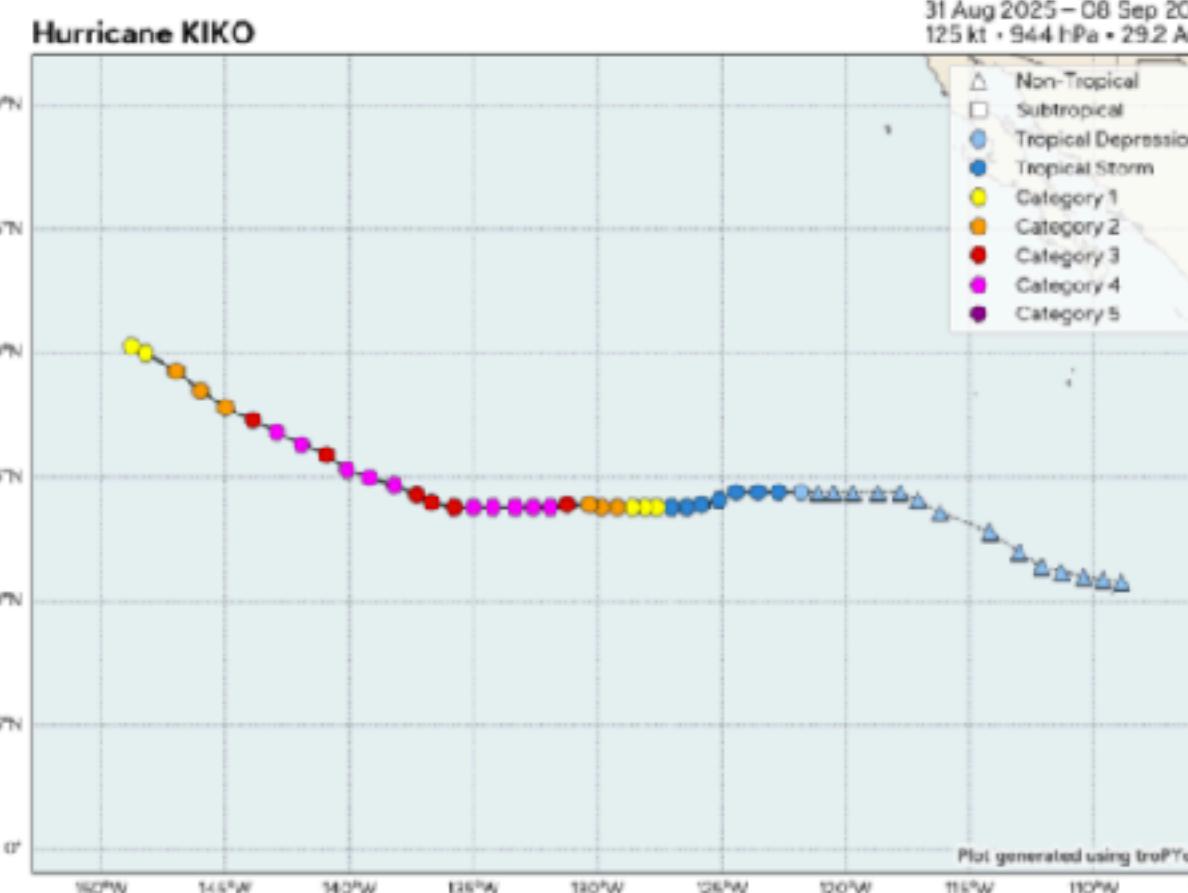
Movement WNW at 15 mph

Select Another Storm

Hurricane Kiko (East Pac.)

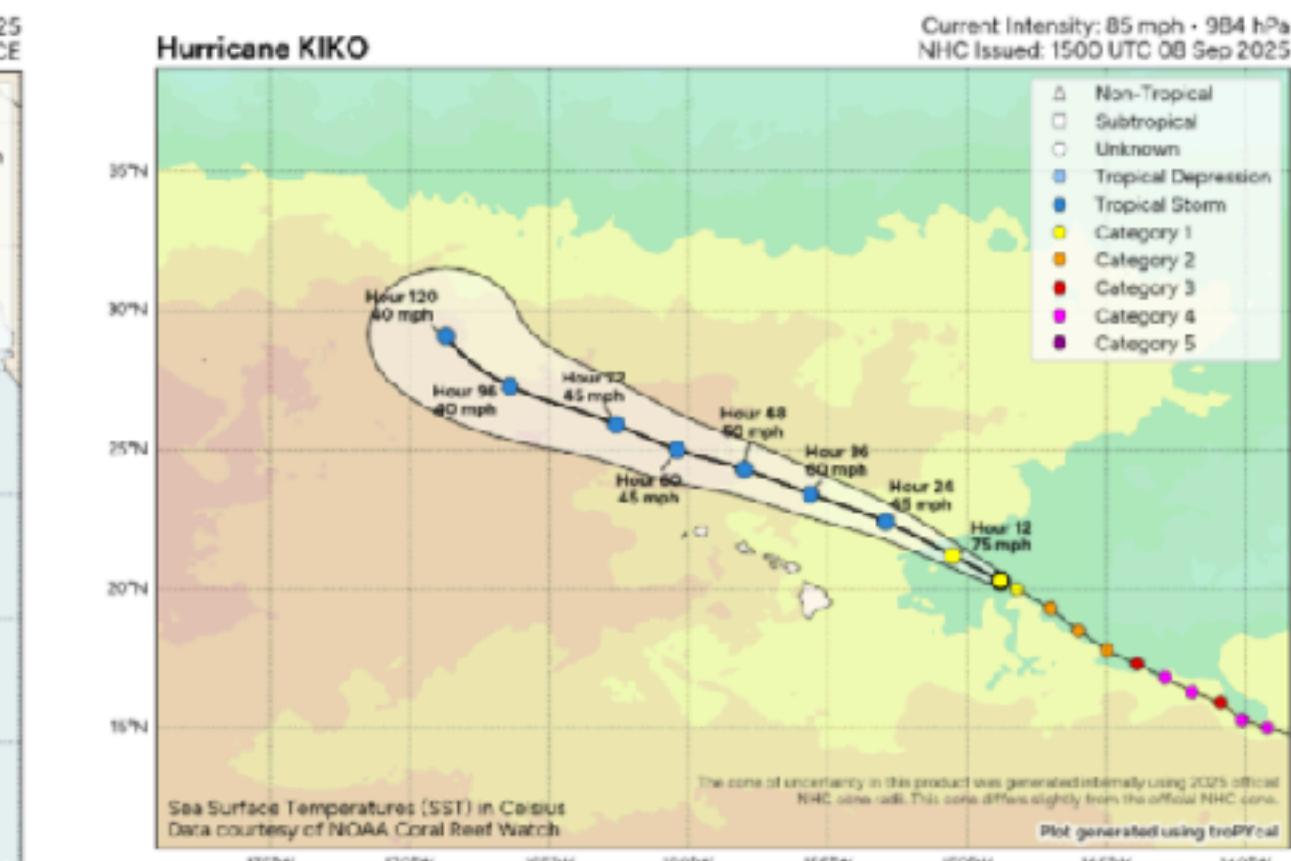
Main Menu Home Forecast Models Ensembles Superensemble Track History

## LATEST STORM INFORMATION



## Track History

View a more detailed breakdown of the past track of this storm.

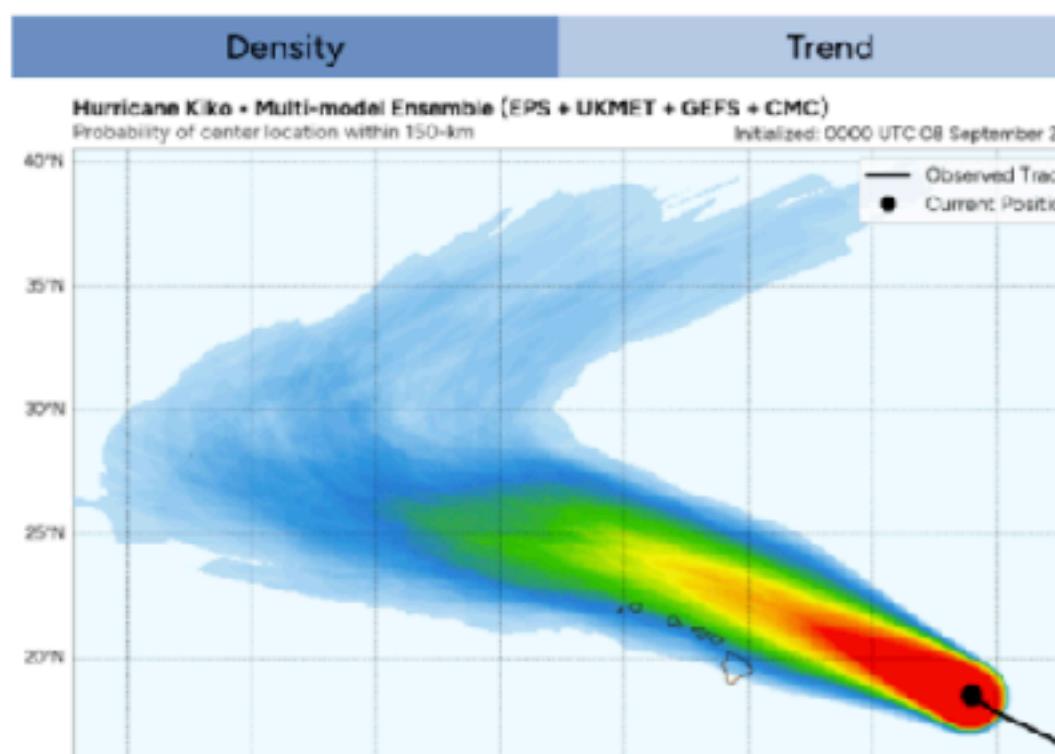
[View Track History](#)

## Storm Forecast

View the forecast for this storm and NHC forecast statistics if available.

[View Forecast](#)

## SUPER-ENSEMBLE GUIDANCE



View the latest probabilistic forecast from this multi-model ensemble consisting of 4 different ensemble suites:

[Superensemble Home Page](#)[Interactive Data Viewer](#)[Ensemble Correlation Matrix](#)

polarwx.com/tropical

2025-09-10  
13:20:21 UTC

(H)ide

Stop (space) < >  
 (L)oop  (R)ock  Re(y)

Speed (↑/↓) 

Zoom (+) Zoom (-) Max (Z)oom

 0° Slid(e)r

(S)atellite GOES-19 (East;...)

Se(c)t or Full Disk

(P)roduct GeoColor (CIRA)

Add (O)verlay Add (O)verlay

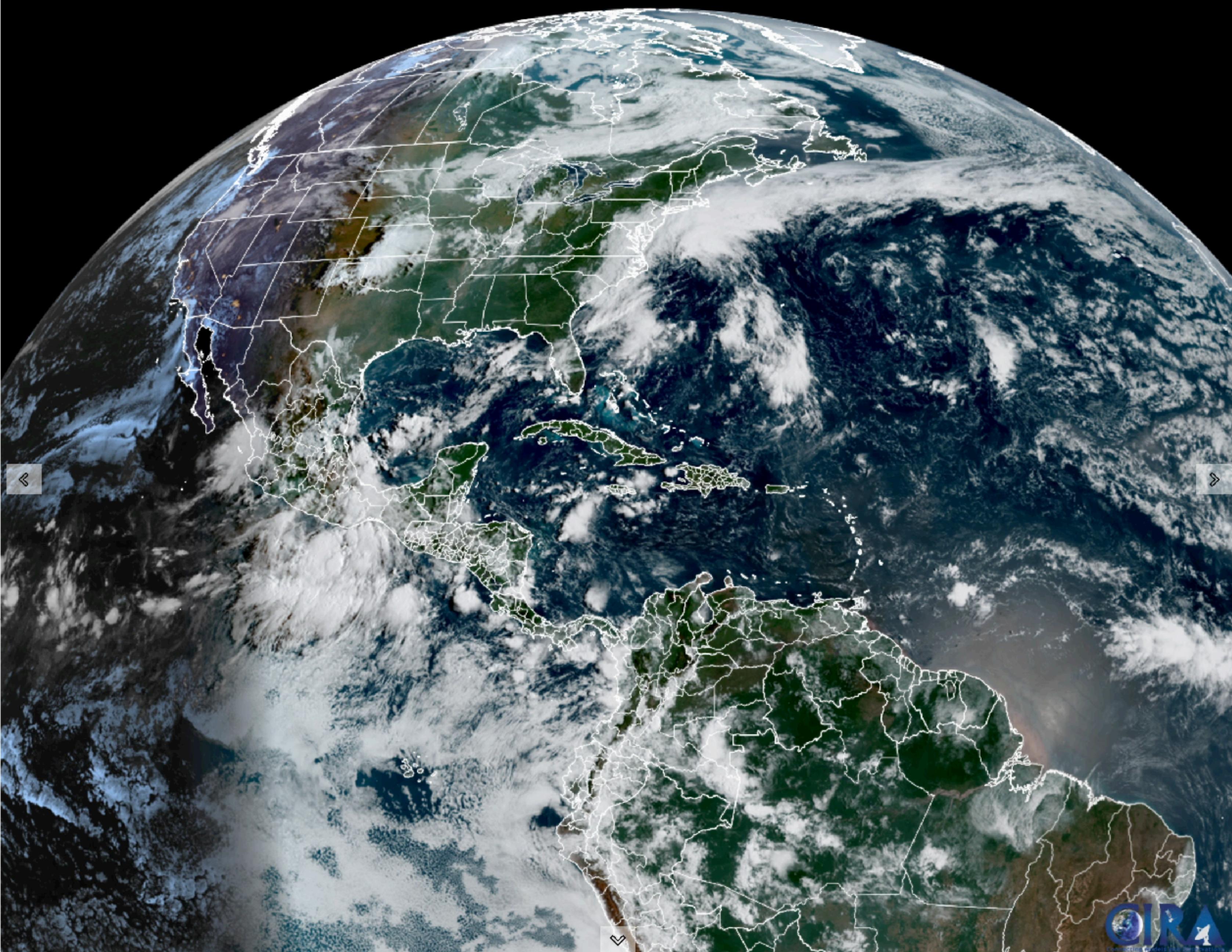
# of (I)mages 12

(T)ime Step 10 min

GeoColor (CIRA)  Hide  Info

Add (M)ap  Lat/Lo(n)

Default Borders  White  Hide

 (A)rchived Imagery(B)egin D...  Begin Ti... End Date...  E...  End Tim... Home (y)  Share (U)RL  Help (?) (Q)uery Lat/Lon  (D)ownload Mouse Dra(w)  Clear Drawin(g)s Follow Feature  Hide  ClearSLIDER by [RAMMB / CIRA @ CSU](#)[Release Notes](#)



# Let's find a hurricane you're interested in.



Search Historical Hurricanes by Location, Name, Year, Zip Code or Basin

LIVE

For live storm tracks, please visit the [National Hurricane Center](#).



## HISTORICAL HURRICANE TRACKS

Q New Orleans, Orleans Parish, Louisiana, USA



MATCHING STORMS

103

SORTED BY

Year (Newest)

CATEGORY

PRESSURE

YEAR

60 NMI

MORE



### HURRICANE FRANCINE 2024

Sep 08, 2024 to Sep 14, 2024



### HURRICANE IDA 2021

Aug 26, 2021 to Sep 04, 2021



### TROPICAL STORM CLAUDETTE 2021

Jun 17, 2021 to Jun 23, 2021



### HURRICANE ZETA 2020

Oct 24, 2020 to Oct 30, 2020



### TROPICAL STORM CRISTOBAL 2020

Jun 01, 2020 to Jun 12, 2020



### EXTRATROPICAL OLGA 2019

Oct 25, 2019 to Oct 27, 2019



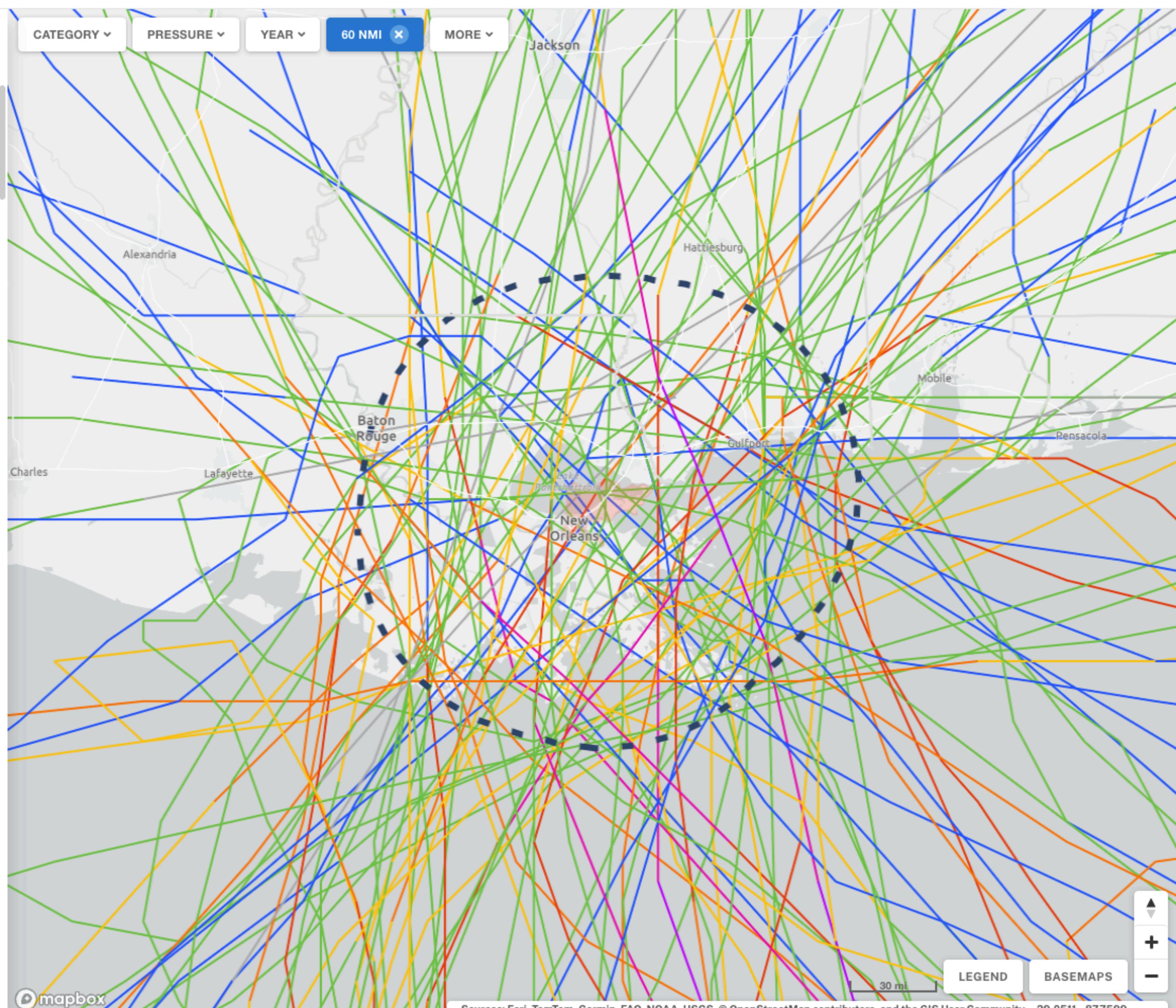
### TROPICAL STORM GORDON 2018

Sep 02, 2018 to Sep 07, 2018



HURRICANE

FILTER BY SEARCH AREA





MATCHING STORMS

SORTED BY

13

Year (Newest)



HURRICANE  
**IDA 2021**

Aug 26, 2021 to Sep 04, 2021



HURRICANE  
**ZETA 2020**

Oct 24, 2020 to Oct 30, 2020



HURRICANE  
**KATRINA 2005**

Aug 23, 2005 to Aug 31, 2005



HURRICANE  
**ELENA 1985**

Aug 28, 1985 to Sep 04, 1985



HURRICANE  
**CAMILLE 1969**

Aug 14, 1969 to Aug 22, 1969



HURRICANE  
**BETSY 1965**

Aug 27, 1965 to Sep 13, 1965



HURRICANE  
**UNNAMED 1926**

Aug 20, 1926 to Aug 27, 1926



HURRICANE

FILTER BY SEARCH AREA



MAJOR HURRICANES

PRESSURE

YEAR

60 NMI

MORE

### Storm Categories

The categories shown are based on the [Saffir-Simpson Hurricane Wind Scale](#).

Category 5

Category 4

Category 3

Category 2

Category 1

Tropical Storm

Tropical Depression

Extratropical

mapbox

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

0.0000, 0.0000



LEGEND BASEMAPS



MATCHING STORMS

13

SORTED BY

Year (Newest)

MAJOR HURRICANES

PRESSURE

YEAR

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MORE



HURRICANE  
**IDA 2021**

Aug 26, 2021 to Sep 04, 2021



HURRICANE  
**ZETA 2020**

Oct 24, 2020 to Oct 30, 2020



HURRICANE  
**KATRINA 2005**

Aug 23, 2005 to Aug 31, 2005



HURRICANE  
**ELENA 1985**

Aug 28, 1985 to Sep 04, 1985



HURRICANE  
**CAMILLE 1969**

Aug 14, 1969 to Aug 22, 1969



HURRICANE  
**BETSY 1965**

Aug 27, 1965 to Sep 13, 1965

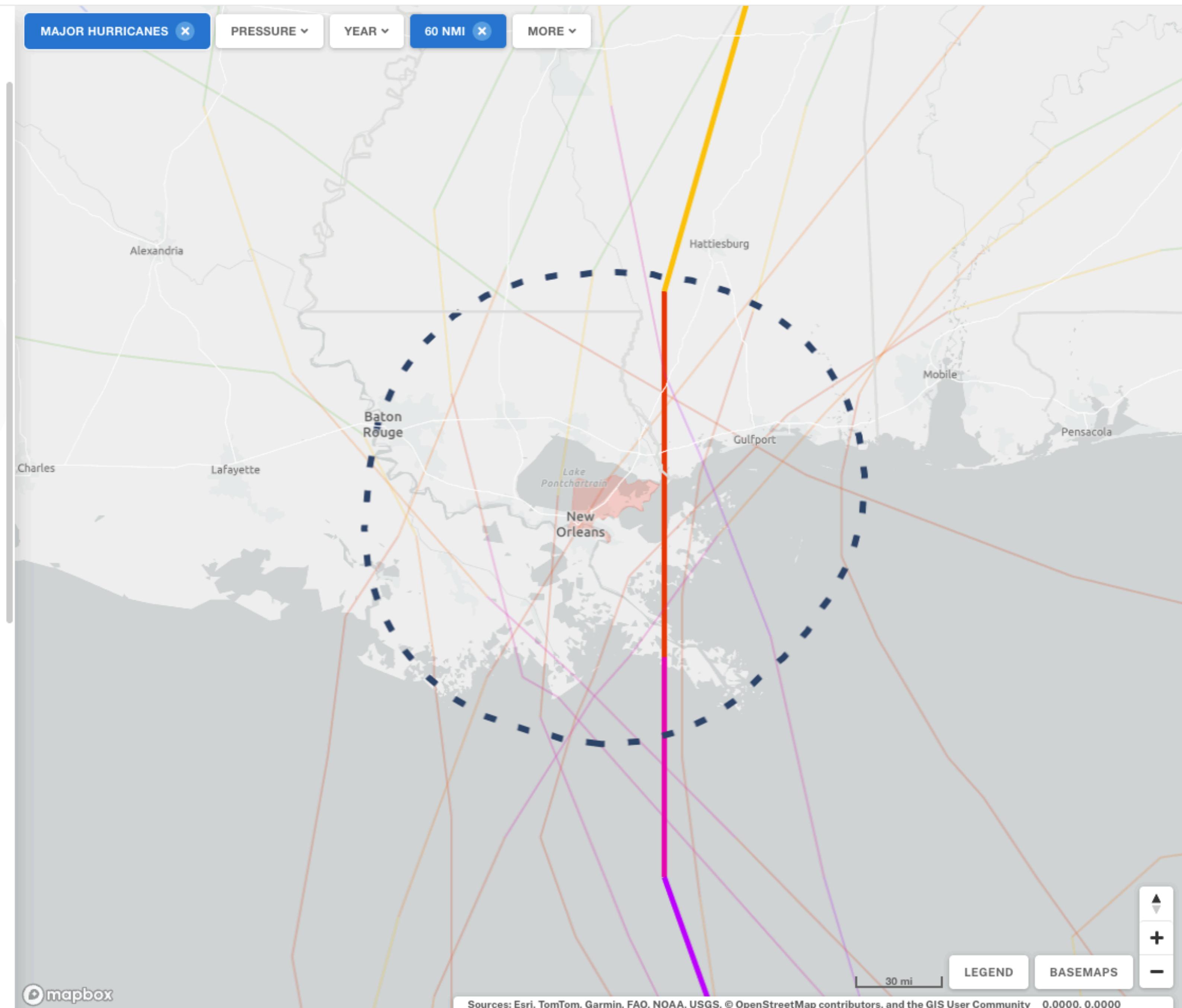


HURRICANE  
**UNNAMED 1926**

Aug 20, 1926 to Aug 27, 1926



FILTER BY SEARCH AREA





## KATRINA 2005

Aug 23, 2005 to Aug 31, 2005

### OVERVIEW

### DETAILS

#### LIFETIME STATISTICS

**H5**

Maximum Category

**150**

Maximum Wind Speed (kt)

**902**

Minimum Pressure (mb)

#### SEARCH AREA STATISTICS

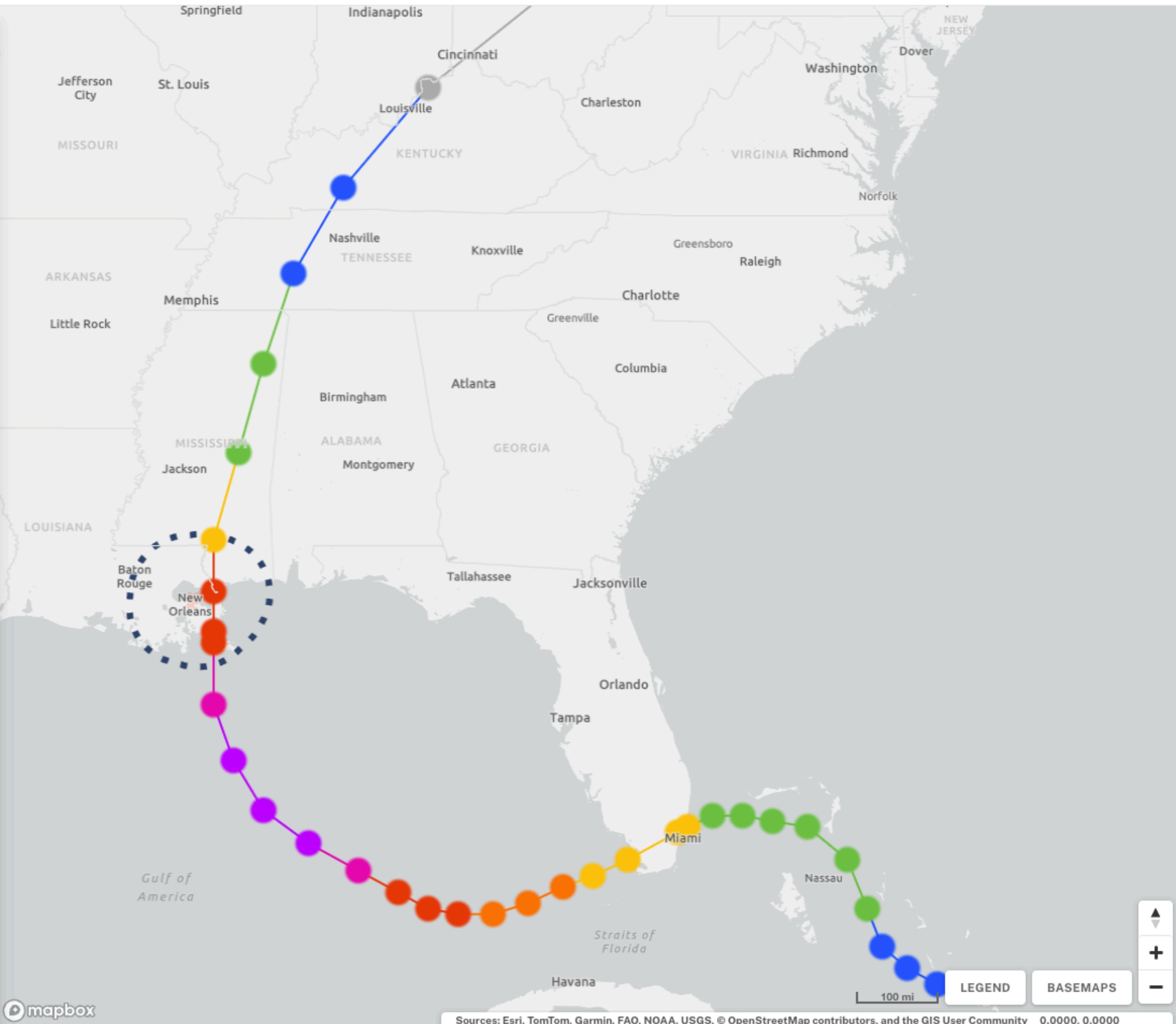
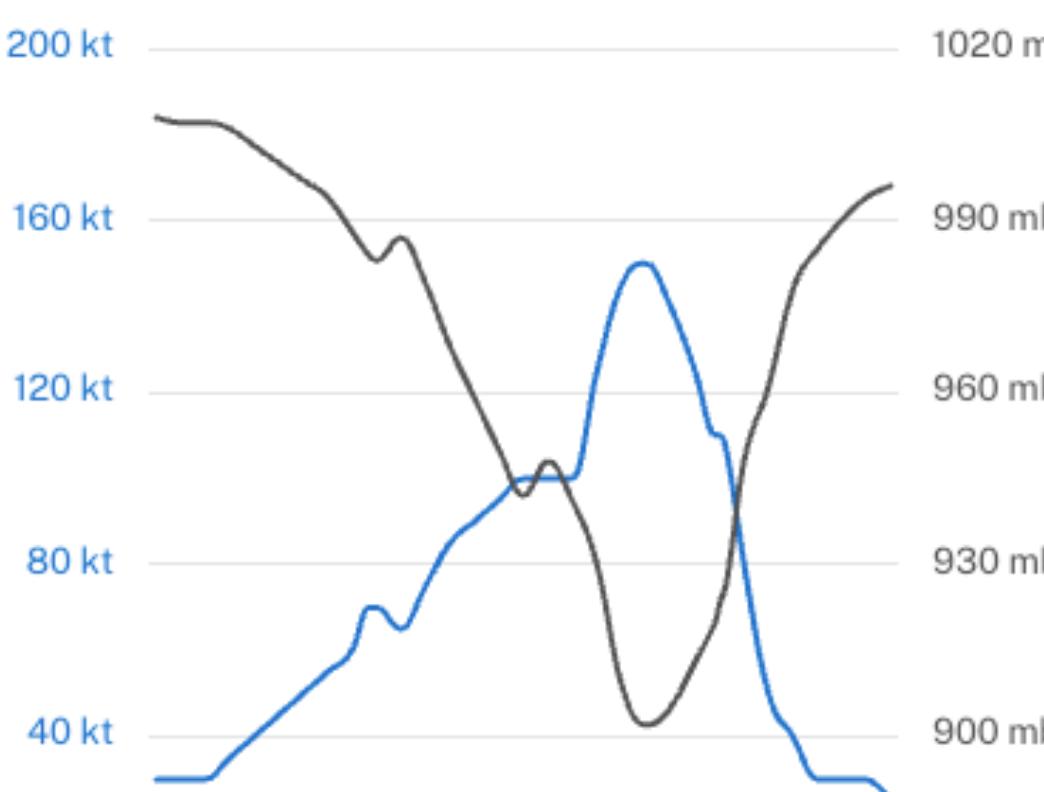
**H4**

Maximum Category

**913.0**

Minimum Pressure (mb)

#### WIND AND PRESSURE

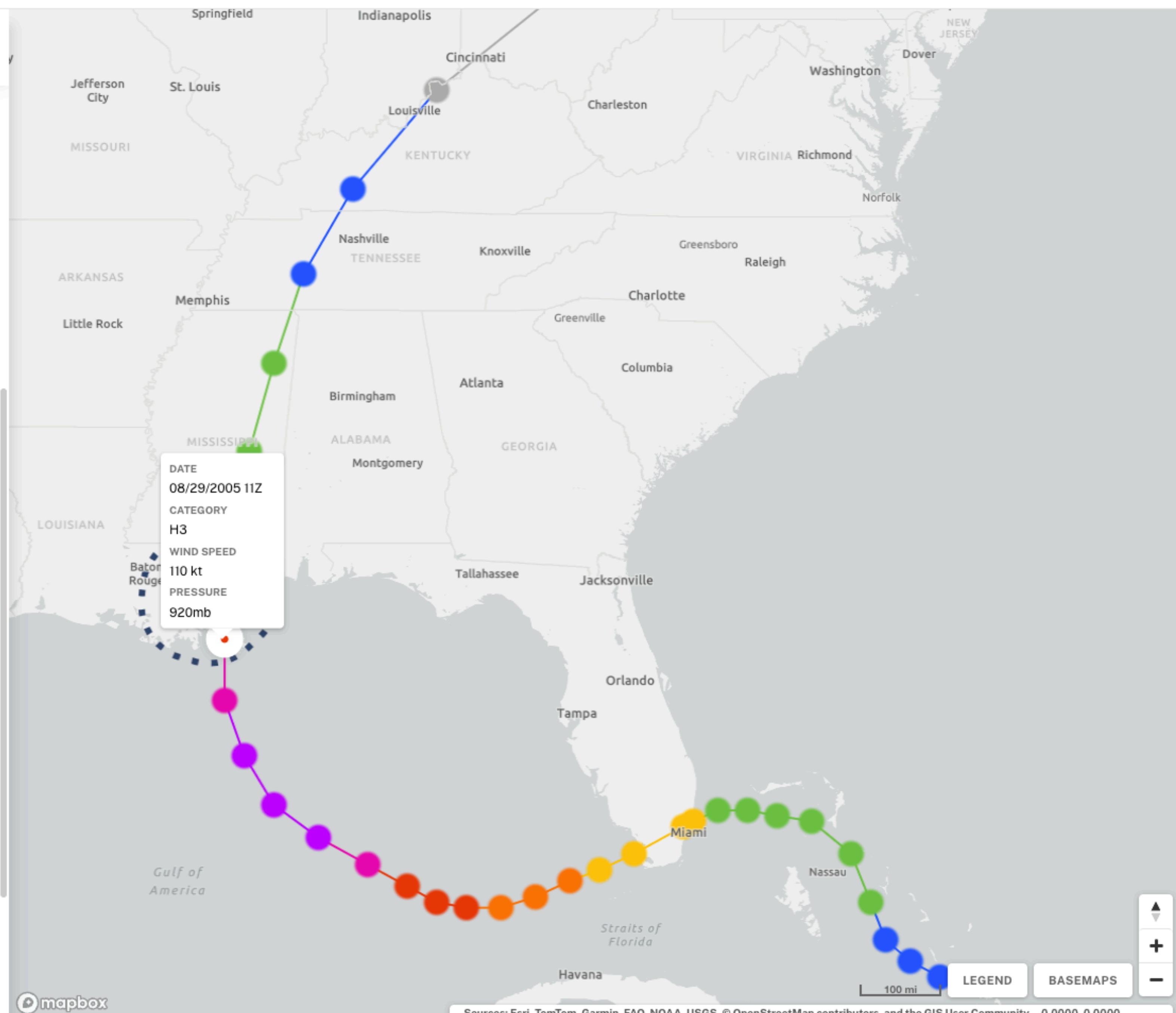




## ← KATRINA 2005



08/25/2005 00Z	1000.0	45	TS
08/25/2005 06Z	997.0	50	TS
08/25/2005 12Z	994.0	55	TS
08/25/2005 18Z	988.0	60	TS
08/25/2005 22Z	984.0	70	H1
08/26/2005 00Z	983.0	70	H1
08/26/2005 06Z	987.0	65	H1
08/26/2005 12Z	979.0	75	H1
08/26/2005 18Z	968.0	85	H2
08/27/2005 00Z	959.0	90	H2
08/27/2005 06Z	950.0	95	H2
08/27/2005 12Z	942.0	100	H3
08/27/2005 18Z	948.0	100	H3
08/28/2005 00Z	941.0	100	H3
08/28/2005 06Z	930.0	125	H4
08/28/2005 12Z	909.0	145	H5
08/28/2005 18Z	902.0	150	H5
08/29/2005 00Z	905.0	140	H5
08/29/2005 06Z	913.0	125	H4
<b>08/29/2005 11Z</b>	<b>920.0</b>	<b>110</b>	<b>H3</b>
08/29/2005 12Z	923.0	110	H3
08/29/2005 14Z	928.0	105	H3
08/29/2005 18Z	948.0	80	H1
08/30/2005 00Z	961.0	50	TS





MATCHING STORMS

13

SORTED BY

Year (Newest)

MAJOR HURRICANES

PRESSURE

YEAR

60 NMI

MORE



HURRICANE  
**IDA 2021**

Aug 26, 2021 to Sep 04, 2021



HURRICANE  
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Oct 24, 2020 to Oct 30, 2020



HURRICANE  
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Aug 23, 2005 to Aug 31, 2005



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Aug 28, 1985 to Sep 04, 1985



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HURRICANE  
**BETSY 1965**

Aug 27, 1965 to Sep 13, 1965

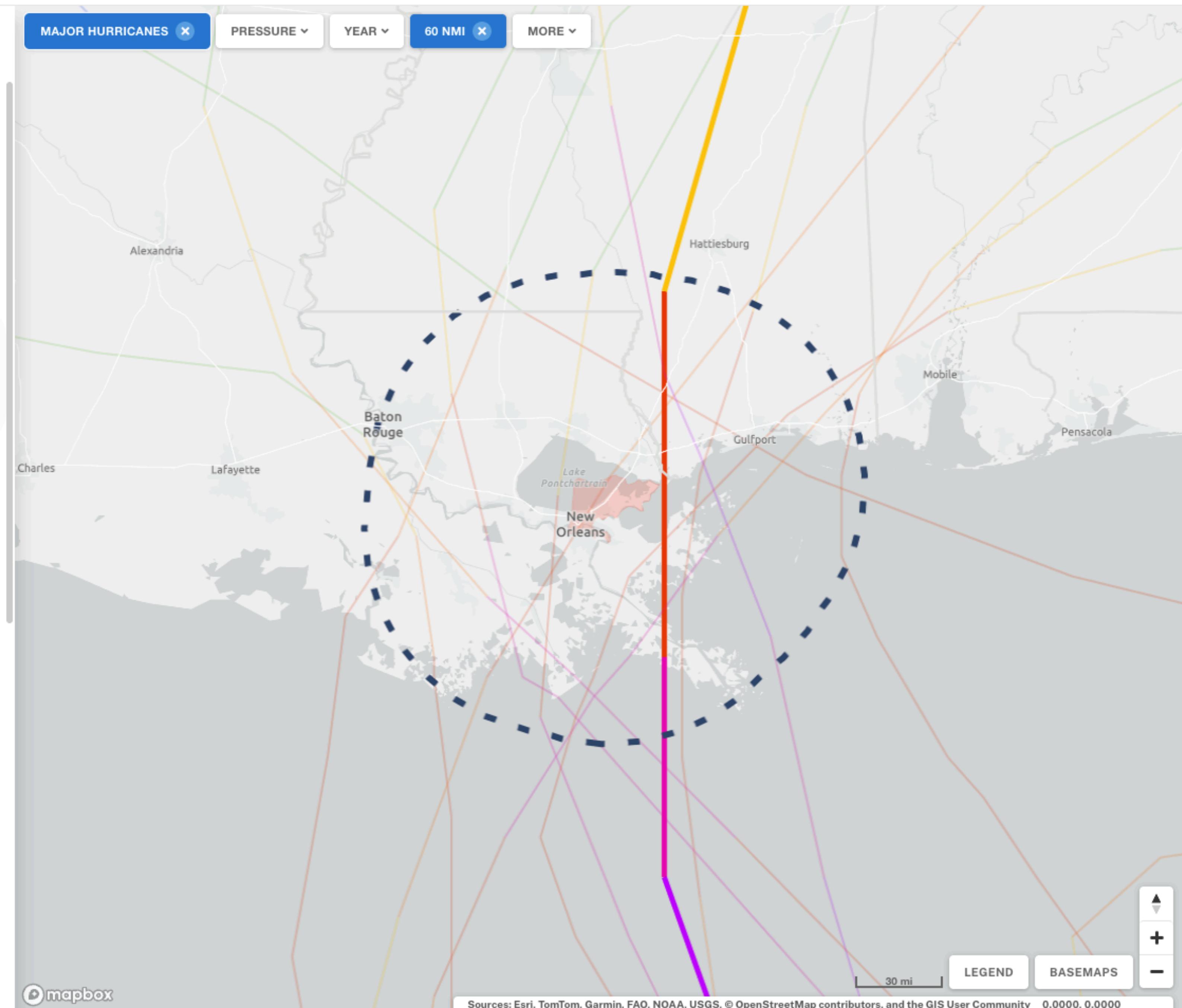


HURRICANE  
**UNNAMED 1926**

Aug 20, 1926 to Aug 27, 1926



FILTER BY SEARCH AREA





MATCHING STORMS

SORTED BY

1

Year (Newest)



### HURRICANE CAMILLE 1969

Aug 14, 1969 to Aug 22, 1969

H5

PRESSURE

YEAR

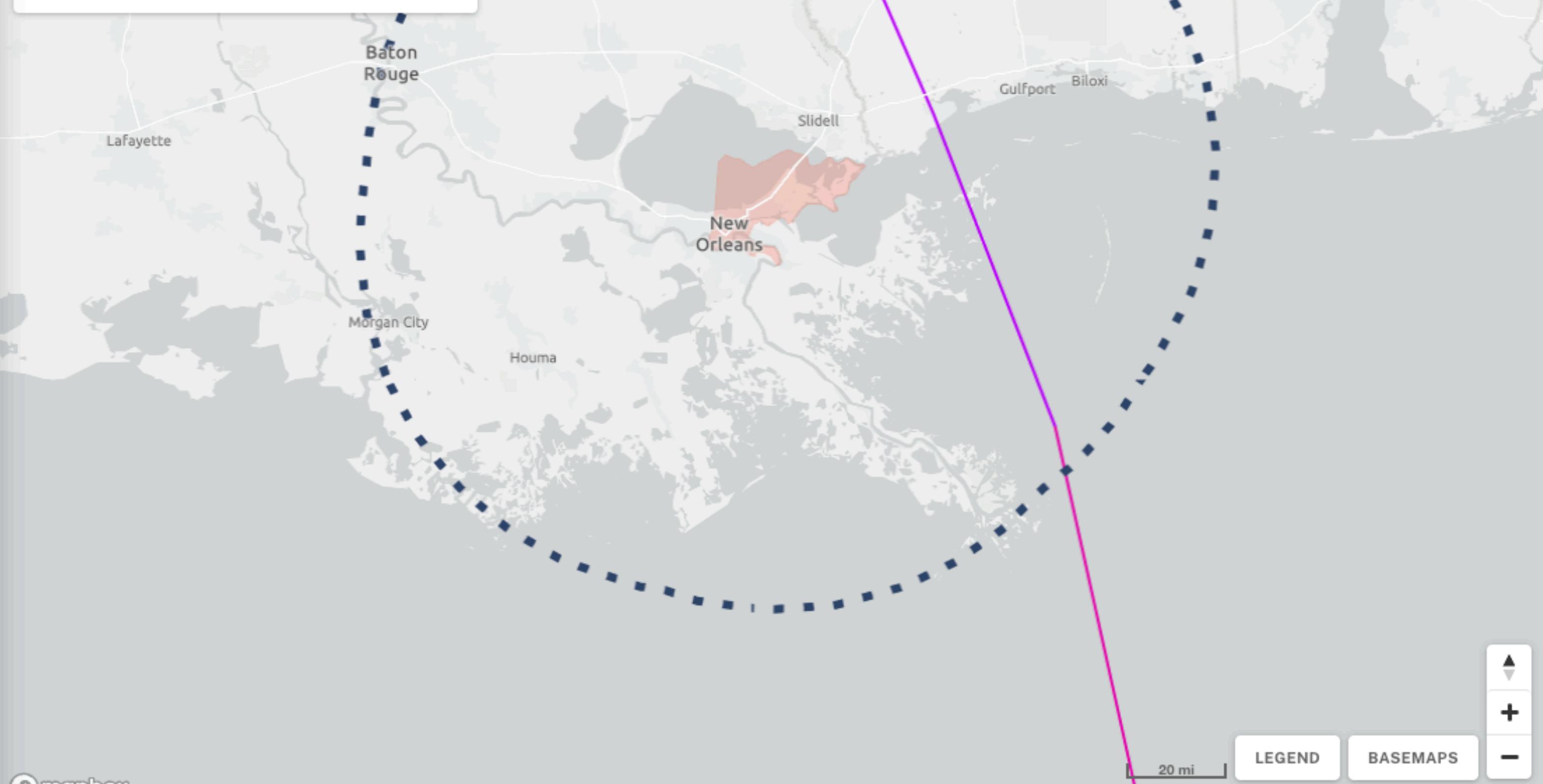
60 NMI

MORE

#### Storm Categories

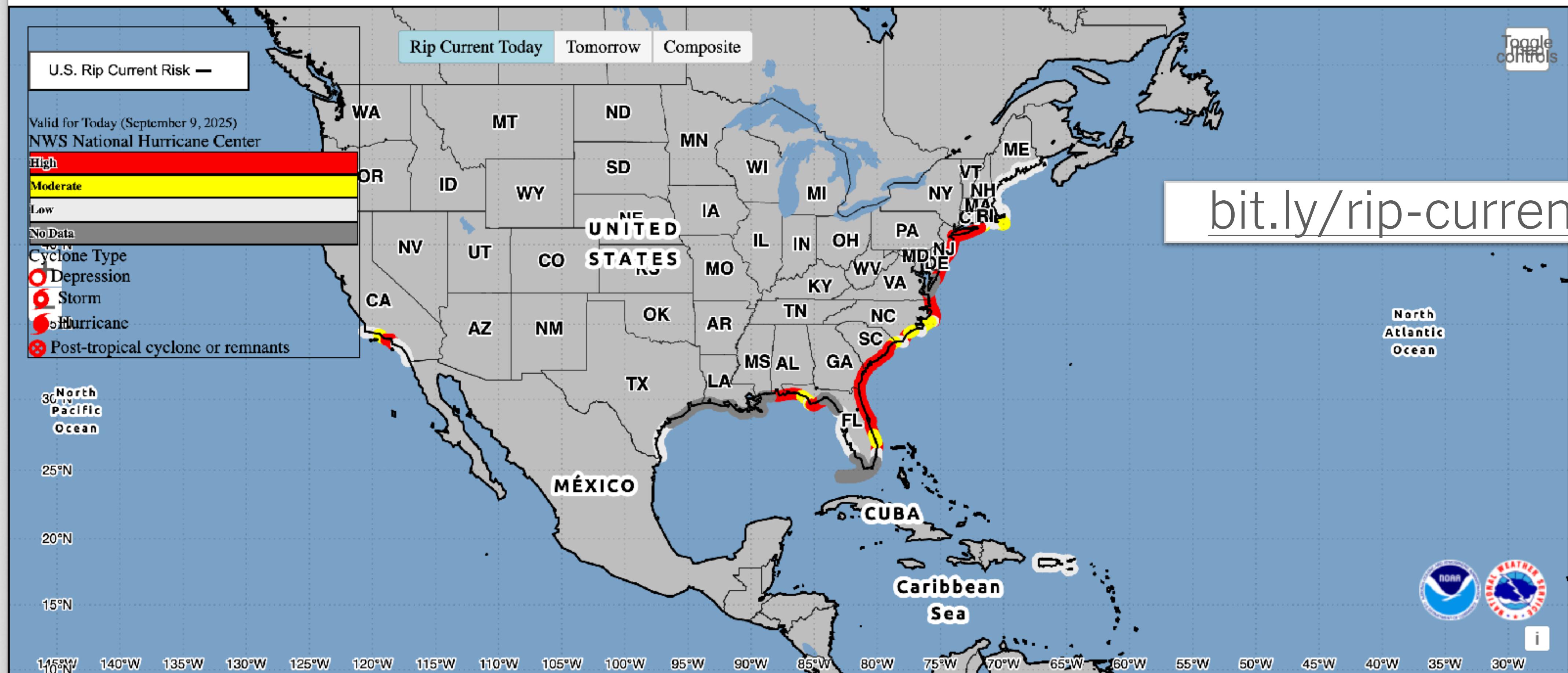
The categories shown are based on the [Saffir-Simpson Hurricane Wind Scale](#).

- Category 5
- Category 4
- Category 3
- Category 2
- Category 1
- Tropical Storm
- Tropical Depression
- Extratropical



FILTER BY SEARCH AREA

## Rip Currents



**Note:** Rip current risk information displayed on the viewer may not always be associated with an active tropical cyclone.

However, beachgoers should be careful at all times when the rip current risk is elevated, regardless of the presence of an active tropical cyclone.

# What do the colors mean?

HIGH

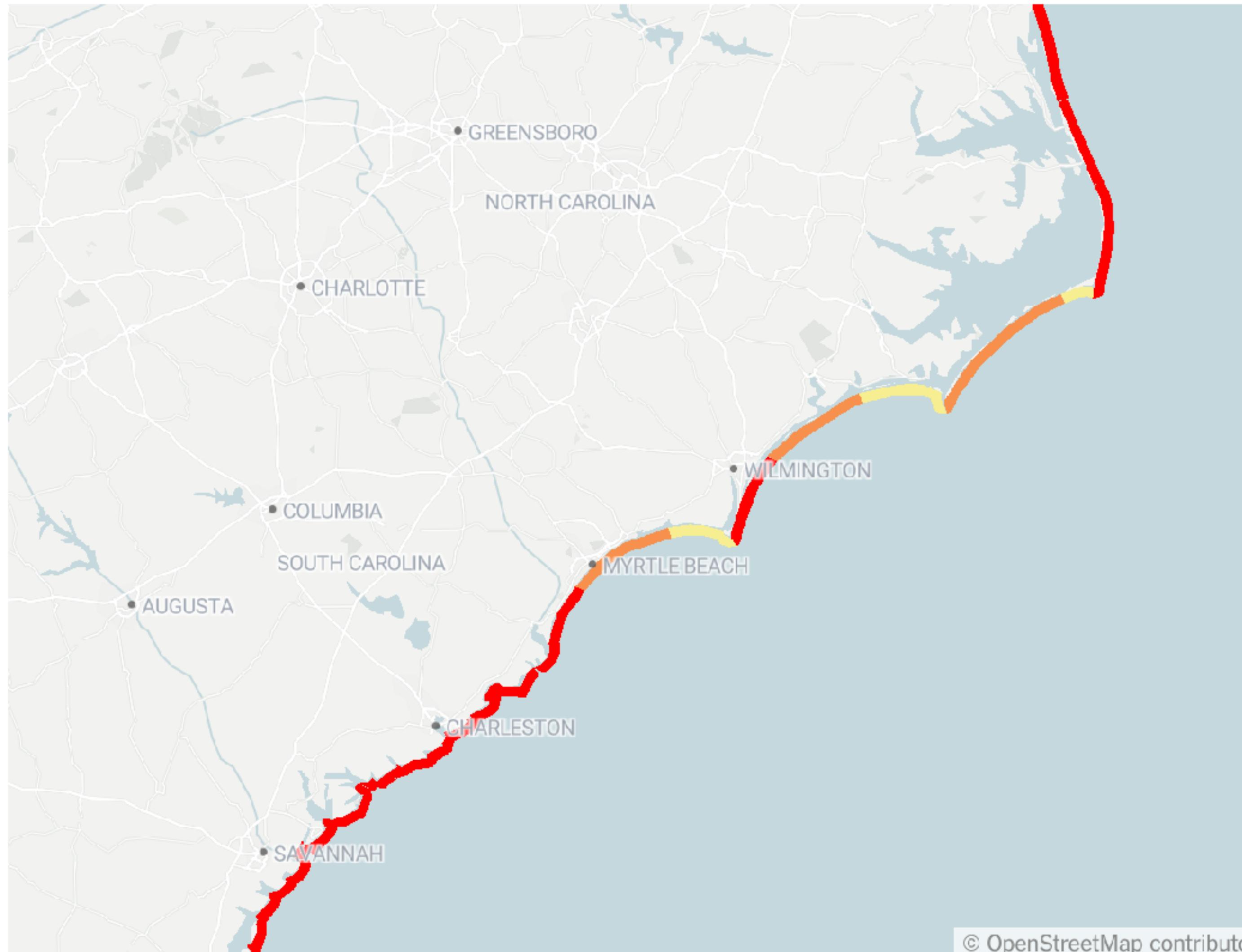
Risk of Rip Currents is High.

Life-threatening rip currents are likely. Swimming conditions are unsafe for all levels of swimmers. Stay out of the water. Always follow advice from the local beach patrol and flag warning systems.

MODERATE

# Rip current risk

For Tuesday, September 9, 2025.



High risk



Moderate risk



Low risk

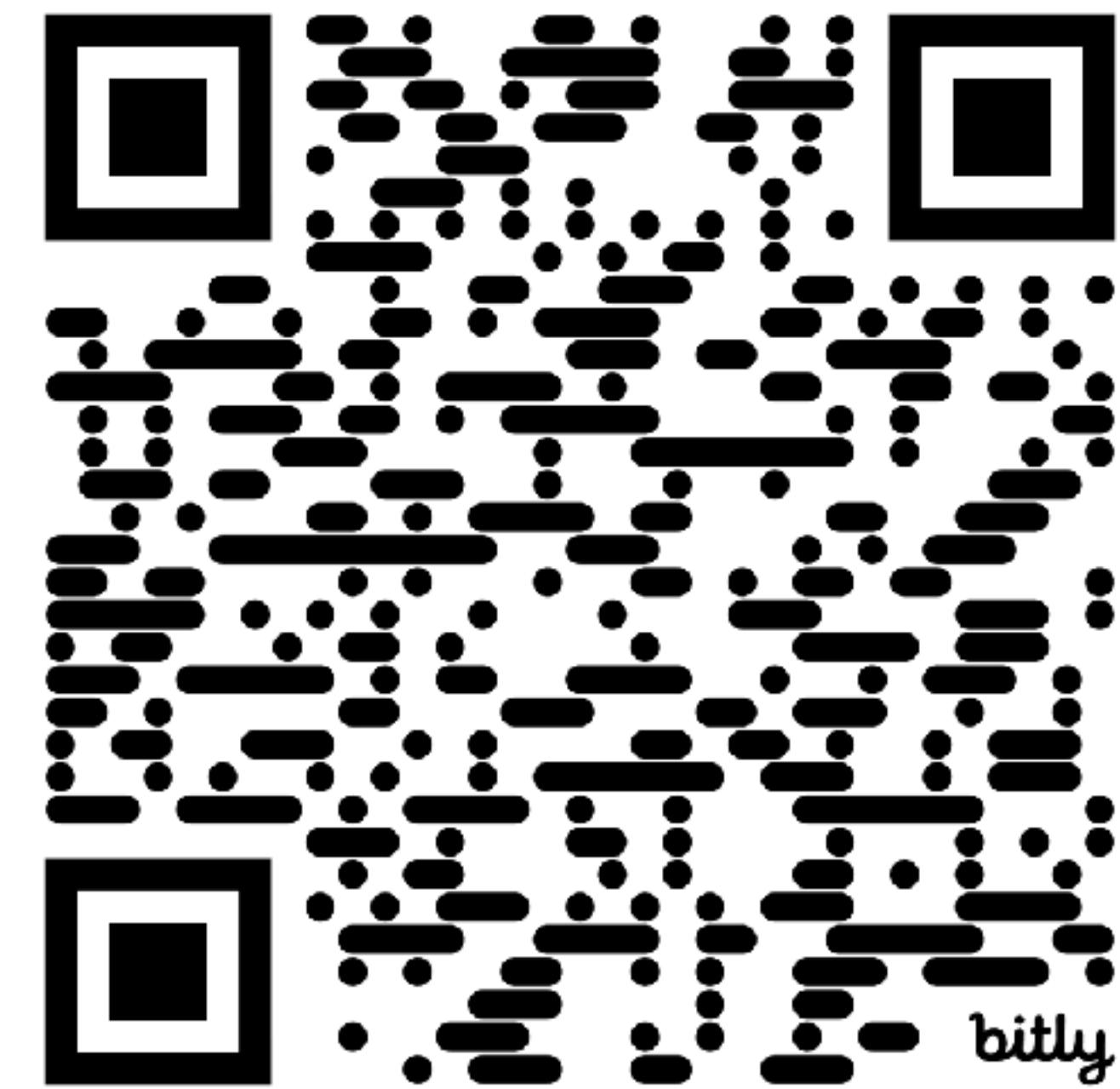


No data

# **Finding hurricane data**

## Data & Tip Sheet

[bit.ly/hurricane-data](https://bit.ly/hurricane-data)





# NATIONAL HURRICANE CENTER and CENTRAL PACIFIC HURRICANE CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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## NHC Data in GIS Formats

nhc.noaa.gov/gis

[Satellite](#) | [Radar](#) | [Aircraft Recon](#) | [GIS Data](#) | [Analysis Tools](#)

### Data & Products

Please note these GIS datasets are provided as a convenience to users. Support for these data may not always be available or timely in nature. For issues directly related to the datasets below, please [contact us](#).

As of Mon, 08 Sep 2025 19:48:48 UTC				
	Atlantic	Eastern Pacific	Central Pacific	Archive
<b>Advisory Forecast Track, Cone of Uncertainty, and Watches/Warnings<sup>‡</sup></b>  Sample Shapefiles: <a href="#">Irma Example</a> Sample KMZ: <a href="#">Cone</a>   <a href="#">Track</a>   <a href="#">Warnings</a>	No current data	Hurricane Kiko: <a href="#">[shp]</a> KMZ: <a href="#">[Cone]</a> <a href="#">[Track]</a> <a href="#">[Warnings]</a>	No current data	<a href="#">Year</a> ▾
<b>Advisory Wind Field and Forecast Wind Radii<sup>‡</sup></b>  Sample Shapefiles: <a href="#">Irma Example</a> Sample KMZ: <a href="#">Initial Radii</a>   <a href="#">Forecast Radii</a>	No current data	Hurricane Kiko: <a href="#">[shp]</a> KMZ: <a href="#">[Initial Radii]</a> <a href="#">[Forecast Radii]</a>	No current data	<a href="#">Year</a> ▾
<b>Preliminary Best Track<sup>‡</sup></b> Note: Final Best Tracks <a href="#">available here</a>  Sample Shapefiles: <a href="#">Irma Example</a> Sample KMZ: <a href="#">Past Track</a>	No current data	Hurricane Kiko: <a href="#">[shp]</a> <a href="#">[kmz]</a>	No current data	<a href="#">Year</a> ▾
<b>Arrival Time of Tropical Storm Force Winds</b>  Sample KMZ: <a href="#">Earliest Reasonable</a>   <a href="#">Most Likely</a>	Hurricane Kiko: KMZ: <a href="#">[Earliest Reasonable]</a> <a href="#">[Most Likely]</a>  GRIB2 data: <a href="#">via HTTPS</a>			<a href="#">Year</a> ▾
<b>Graphical Tropical Weather Outlook<sup>†</sup></b>  <a href="#">Sample Shapefile</a>	Outlook areas (if any): <a href="#">[shp]</a> KMZ: <a href="#">[Atlantic]</a> <a href="#">[East Pacific]</a> <a href="#">[Central Pacific]</a>		Atlantic, E Pacific, C Pacific	
<b>Wind Speed Probabilities<sup>‡*</sup></b>  Sample Shapefiles: <a href="#">Polygons</a>   <a href="#">Points</a> Sample KMZ: <a href="#">34 kt</a>   <a href="#">50 kt</a>   <a href="#">64 kt</a>	Points: <a href="#">[shp]</a> Polygons: <a href="#">[shp]</a> - kmz <a href="#">[34kt]</a> <a href="#">[50kt]</a> <a href="#">[64kt]</a> GRIB1 and GRIB2 data: <a href="#">via HTTPS</a> <a href="#">via FTP</a>			<a href="#">Year</a> ▾
<b>Probabilistic Storm Surge<sup>‡*</sup></b>	No current data	N/A	N/A	<a href="#">Year</a> ▾

# Current Storms

[www.nhc.noaa.gov/CurrentStorms.json](http://www.nhc.noaa.gov/CurrentStorms.json)

```
{
  "activeStorms": [
    {
      "id": "ep112025",
      "binNumber": "CP4",
      "name": "Kiko",
      "classification": "HU",
      "intensity": "75",
      "pressure": "984",
      "latitude": "20.3N",
      "longitude": "148.8W",
      "latitudeNumeric": 20.3,
      "longitudeNumeric": -148.8,
      "movementDir": 300,
      "movementSpeed": 15,
      "lastUpdate": "2025-09-08T15:00:00.000Z",
      "publicAdvisory": {
        "advNum": "034",
        "issuance": "2025-09-08T15:00:00.000Z",
        "fileUpdateTime": "2025-09-08T14:43:54",
        "url": "https://www.nhc.noaa.gov/text/H
      },
      "forecastAdvisory": {
        "advNum": "034",
        "issuance": "2025-09-08T15:00:00.000Z",
        "fileUpdateTime": "2025-09-08T14:43:24",
        "url": "https://www.nhc.noaa.gov/text/H
      },
      "windSpeedProbabilities": {
        "advNum": "034",
        "issuance": "2025-09-08T15:00:00.000Z",
        "fileUpdateTime": "2025-09-08T14:44:23",
        "url": "https://www.nhc.noaa.gov/text/H
      }
    }
  ]
}
```

```
"windSpeedProbabilities": {  
    "advNum": "034",  
    "issuance": "2025-09-08T15:00:00.000Z",  
    "fileUpdateTime": "2025-09-08T14:44:23.967Z",  
    "url": "https://www.nhc.noaa.gov/text/HFOPWSCP4.shtml"  
},  
"forecastDiscussion": {  
    "advNum": "034",  
    "issuance": "2025-09-08T15:00:00.000Z",  
    "fileUpdateTime": "2025-09-08T14:45:57.022Z",  
    "url": "https://www.nhc.noaa.gov/text/HFOTCDCP4.shtml"  
},  
"forecastGraphics": {  
    "advNum": "034",  
    "issuance": "2025-09-08T15:00:00.000Z",  
    "fileUpdateTime": "2025-09-08T14:43:54.336Z",  
    "url": "https://www.nhc.noaa.gov/graphics_cp4.shtml"  
},  
"forecastTrack": {  
    "advNum": "034",  
    "issuance": "2025-09-08T15:00:00.000Z",  
    "fileUpdateTime": "2025-09-08T14:47:25.401Z",  
    "zipFile": "https://www.nhc.noaa.gov/gis/forecast/archive/ep112025_5day_034.zip",  
    "kmzFile": "https://www.nhc.noaa.gov/storm_graphics/api/EP112025_034adv_TRACK.kmz"  
},  
"windWatchesWarnings": null,
```

```
"bestTrackGIS": {
    "issuance": "2025-09-08T15:00:00.000Z",
    "fileUpdateTime": "2025-09-08T14:47:37.373Z",
    "zipFile": "https://www.nhc.noaa.gov/gis/best_track/ep112025_best_track.zip",
    "kmzFile": "https://www.nhc.noaa.gov/gis/best_track/ep112025_best_track.kmz"
},
"earliestArrivalTimeTSWindsGIS": {
    "advNum": "034",
    "issuance": "2025-09-08T15:00:00.000Z",
    "fileUpdateTime": "2025-09-08T14:47:20.195Z",
    "kmzFile": "https://www.nhc.noaa.gov/storm_graphics/api/EP112025_034adv_earliest_reasonable_toa_34.kmz"
},
"mostLikelyTimeTSWindsGIS": {
    "advNum": "034",
    "issuance": "2025-09-08T15:00:00.000Z",
    "fileUpdateTime": "2025-09-08T14:47:22.670Z",
    "kmzFile": "https://www.nhc.noaa.gov/storm_graphics/api/EP112025_034adv_most_likely_toa_34.kmz"
},
"windSpeedProbabilitiesGIS": {
    "issuance": "2025-09-08T12:00:00.000Z",
    "fileUpdateTime": "2025-09-08T15:21:40.351Z",
    "zipFile5km": "https://www.nhc.noaa.gov/gis/forecast/archive/2025090812_wsp_120hr5km.zip",
    "zipFile10p5deg": "https://www.nhc.noaa.gov/gis/forecast/archive/2025090812_wsp_120hrhalfdeg.zip",
    "kmzFile34kt": "https://www.nhc.noaa.gov/gis/forecast/archive/2025090812_wsp34knt120hr_5km.kmz",
    "kmzFile50kt": "https://www.nhc.noaa.gov/gis/forecast/archive/2025090812_wsp50knt120hr_5km.kmz",
    "kmzFile64kt": "https://www.nhc.noaa.gov/gis/forecast/archive/2025090812_wsp64knt120hr_5km.kmz"
},
"stormSurgeWatchWarningGIS": null,
"potentialStormSurgeFloodingGIS": null,
"peakSurgeKML": null
}
```

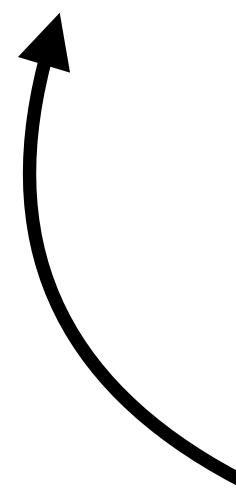
Let's look at some of these files

Using [mapshaper.org](http://mapshaper.org)

**Let's make a map**

## Latest Rip Current Data

[bit.ly/rip-current-data](https://bit.ly/rip-current-data)



Save this file to your computer

Then open [datawrapper.de](https://datawrapper.de)

# **A deeper analysis**

# Using “Tropycal”

[bit.ly/hurricane-data-python](https://bit.ly/hurricane-data-python)

The screenshot shows a Google Colab notebook titled "Hurricane Data Demo". The notebook interface includes a toolbar with file operations, a search bar, and tabs for "Commands", "Code", "Text", and "Run all". The code area contains the following steps:

- [1] `!pip install tropycal  
!pip install cartopy`
- [2] `import tropycal.tracks as tracks  
import datetime as dt  
import cartopy.crs as ccrs`

A section titled "Hurricane Data Demo" is expanded, containing a description: "This is a little walk-through of the "tropycal" python package. [Here is the documentation](#)".

A section titled "Storm Tracks" is expanded, containing a note: "From the [documentation](#): "HURDAT data is not available for the most recent hurricane today, the "include\_btk" flag would need to be set to True, which reads in preliminary data from the National Hurricane Center's Best Track database." Below this, the following code is shown:

- [4] `hurdat_atl = tracks.TrackDataset(basin='north_atlantic', source='hurdat2')`
- [5] `storm = hurdat_atl.get_storm('lee', 2023)`
- [6] `storm.plot()`

A section titled "Model Ensembles" is partially visible at the bottom.



**Thank you!**