Cody Dunne
Northeastern University

Design Rules of Thumb

Feel free to interrupt with questions!

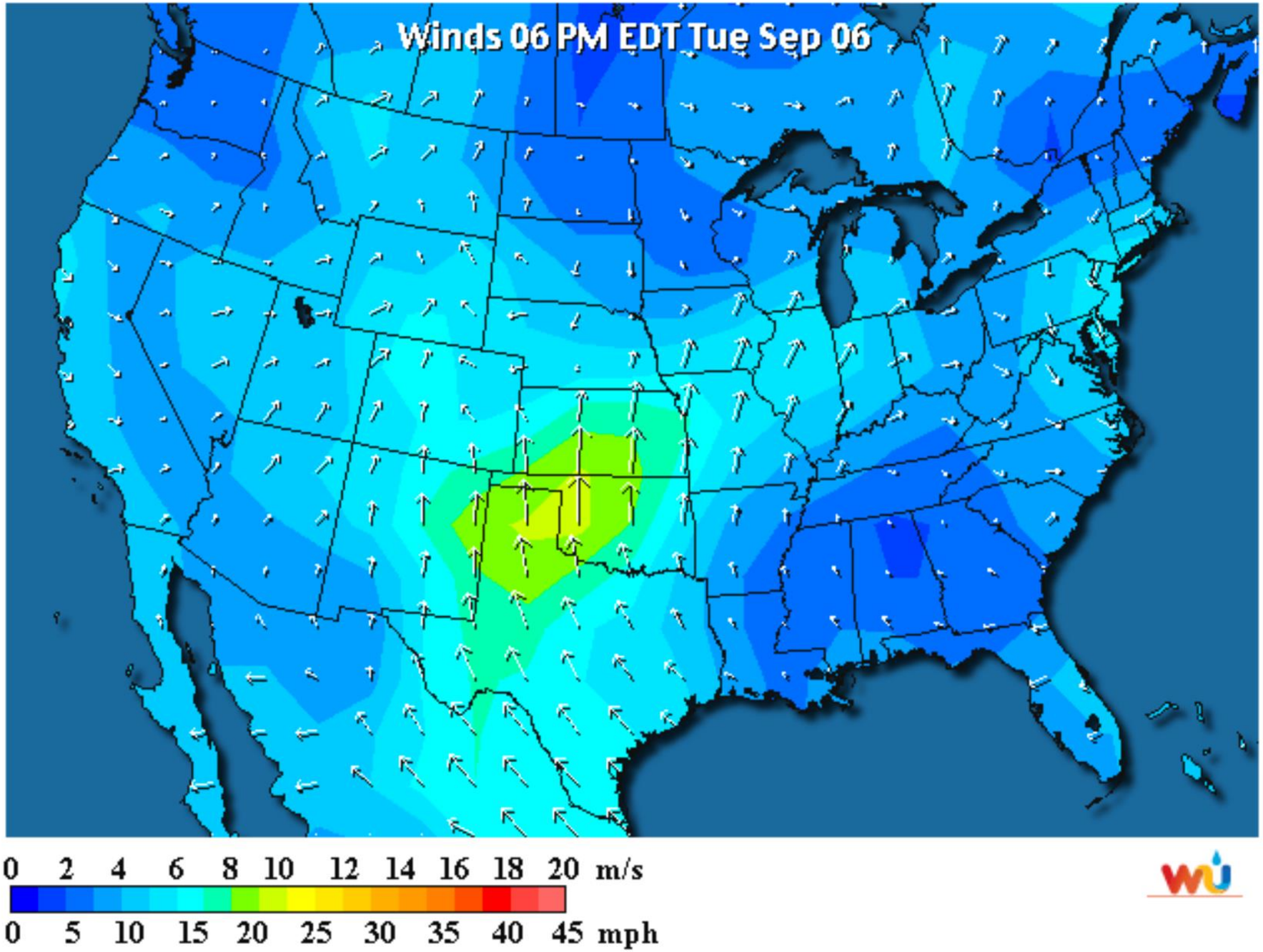
Checking In

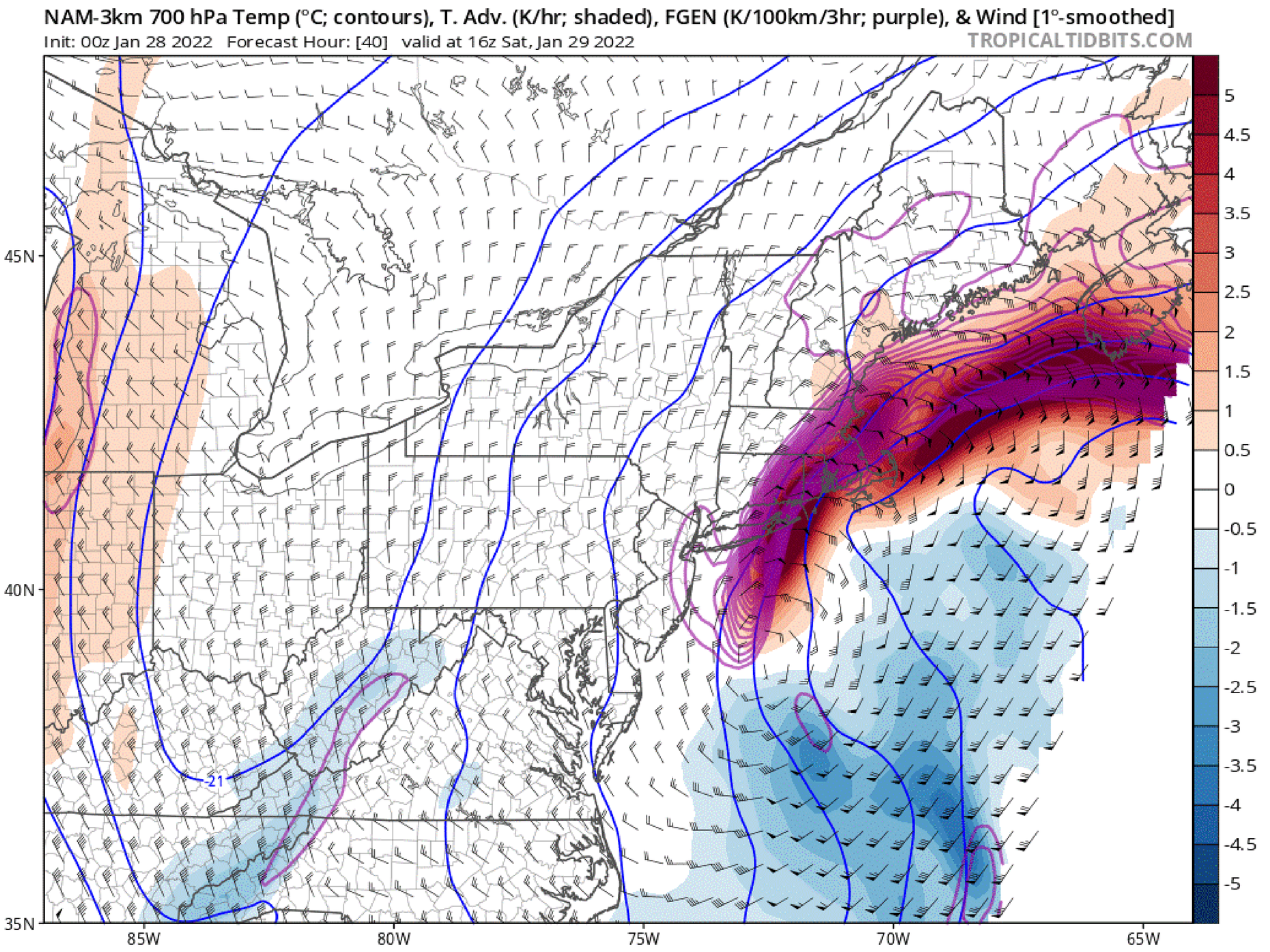
READING QUIZ

6 min

Hall of Fame or Hall of Shame

Prof. Krzystzof Gajos


Winds 06 PM EDT Tue Sep 06
0 2 4 6 8 10 12 14 16 18 20 m/s
0 5 10 15 20 25 30 35 40 45 mph

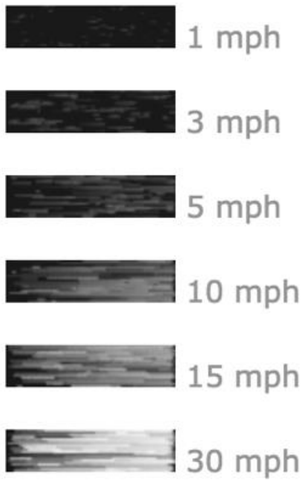

NAM-3km 700 hPa Temp (°C; contours), T. Adv. (K/hr; shaded), FGEN (K/100km/3hr; purple), & Wind [1°-smoothed]
Init: 00z Jan 28 2022 Forecast Hour: [40] valid at 16z Sat, Jan 29 2022
TROPICALTIDBITS.COM
45N
40N
35N
85W
80W
75W
70W
65W
-21
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5

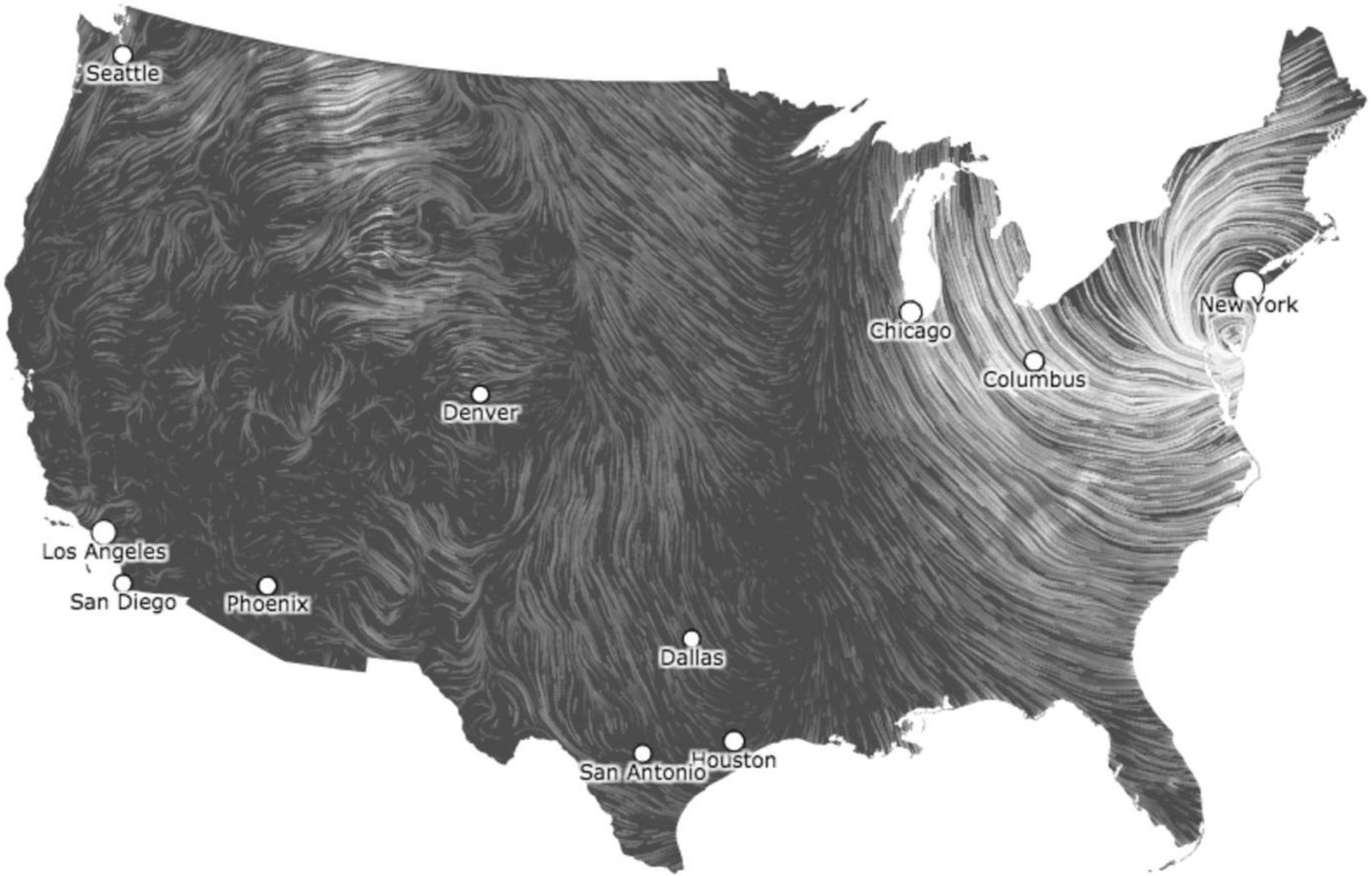
wind map

past patterns <previous next>

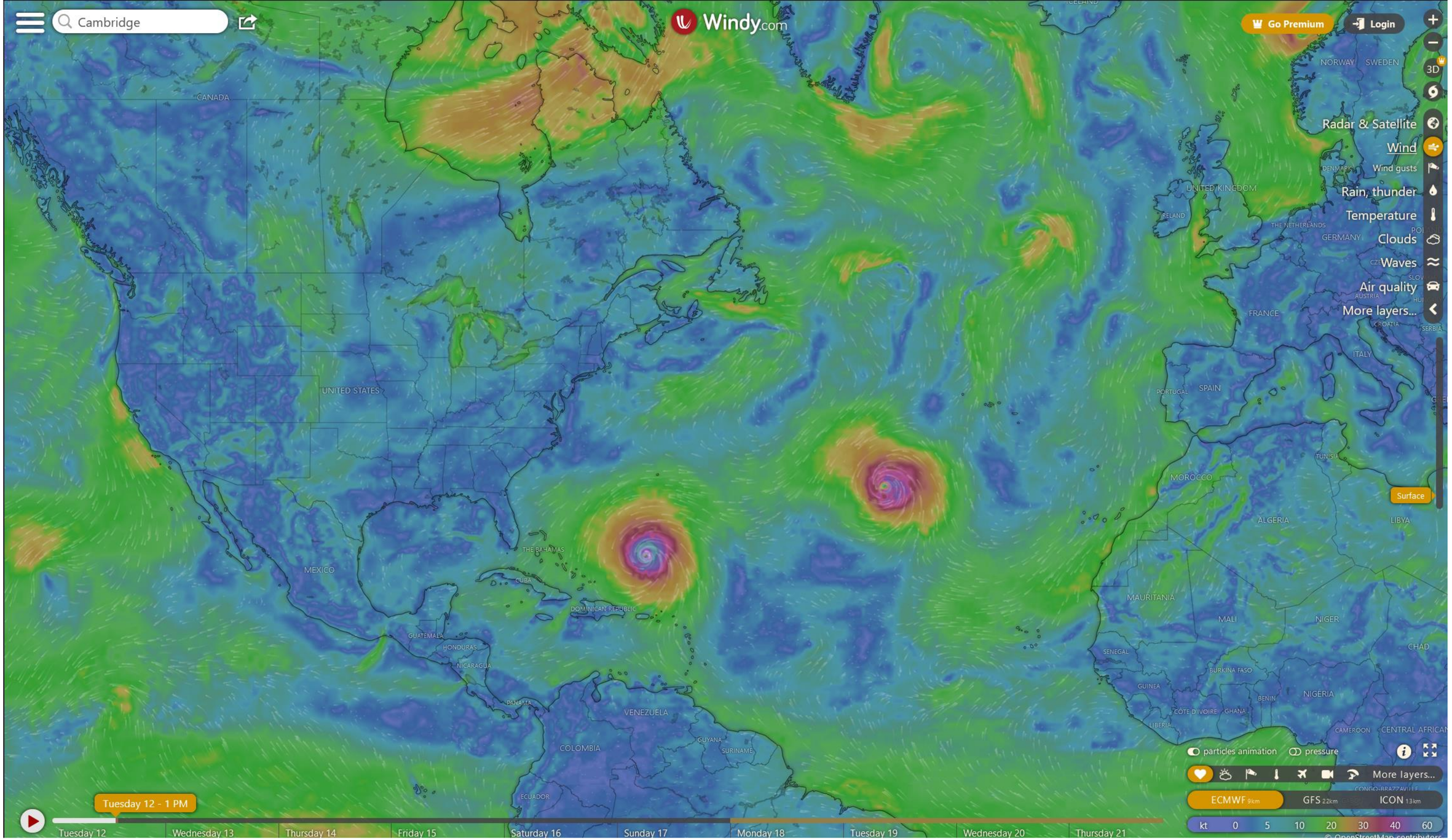
October 29, 2012
8:59 pm EST
(time of forecast download)

top speed: **45.1 mph**
average: **9.4 mph**



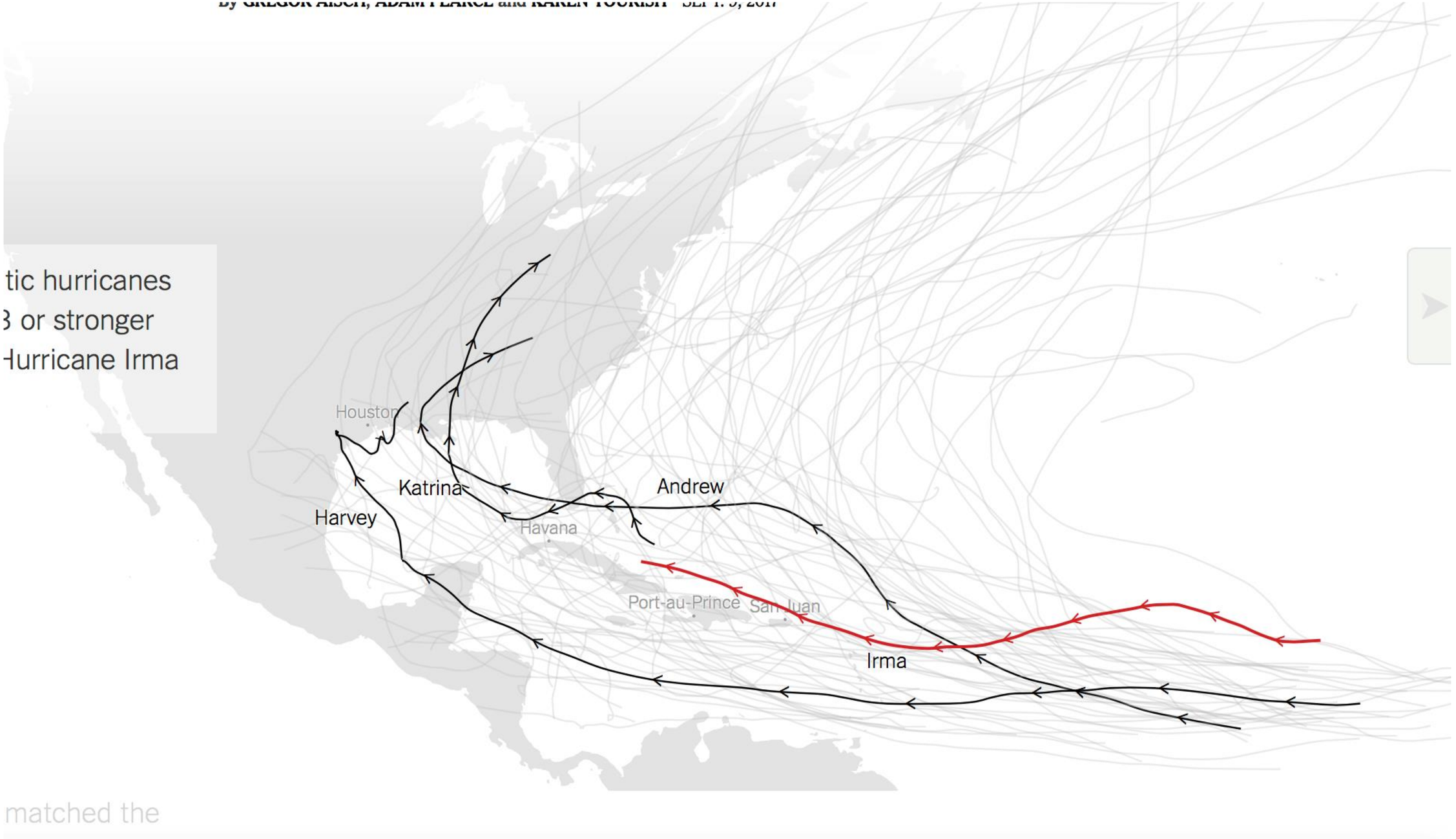


http://hint.fm/wind/gallery/oct-29.js.html

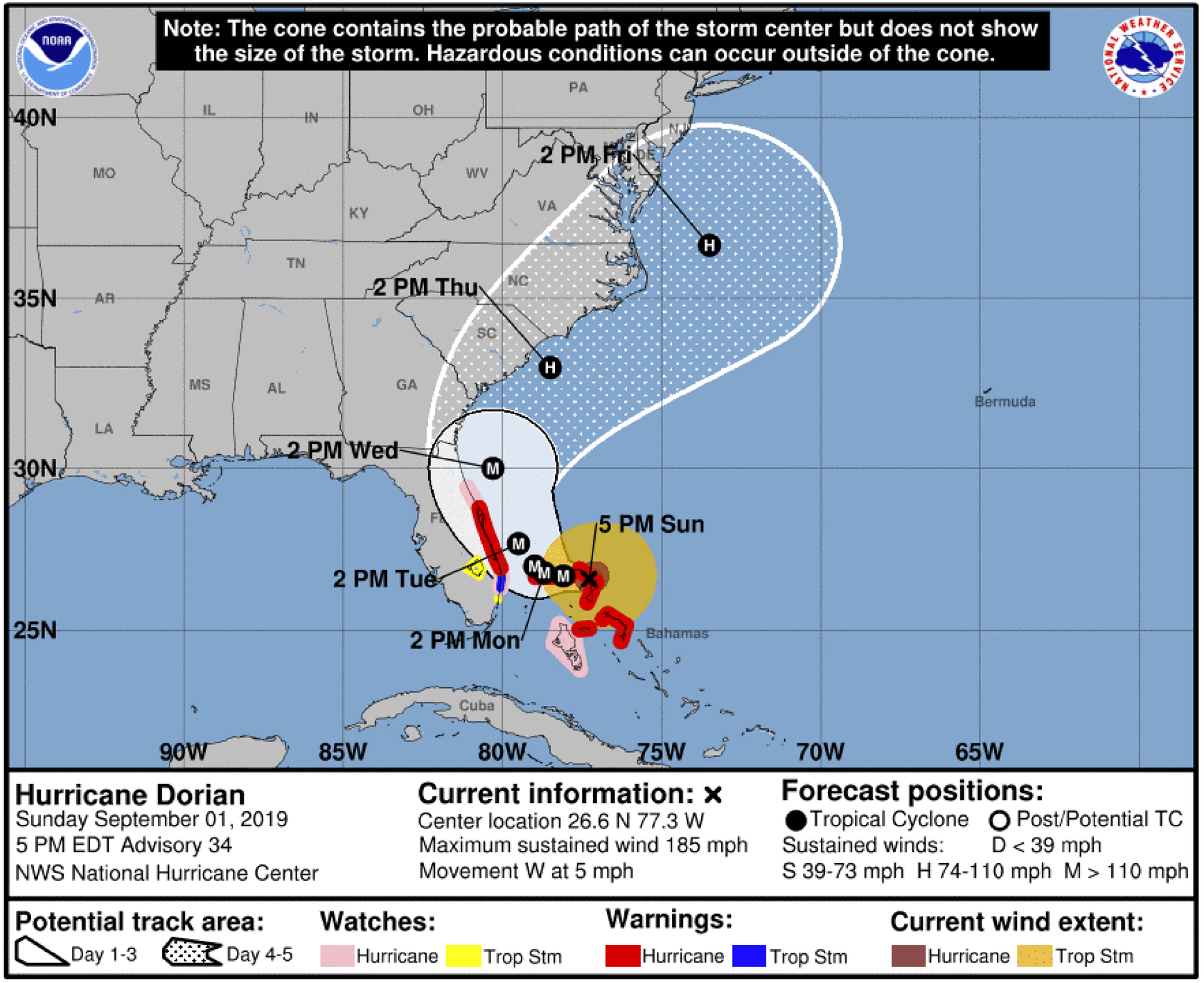


https://www.windy.com/?2023091312%2C37.091%2C-57.131%2C4=

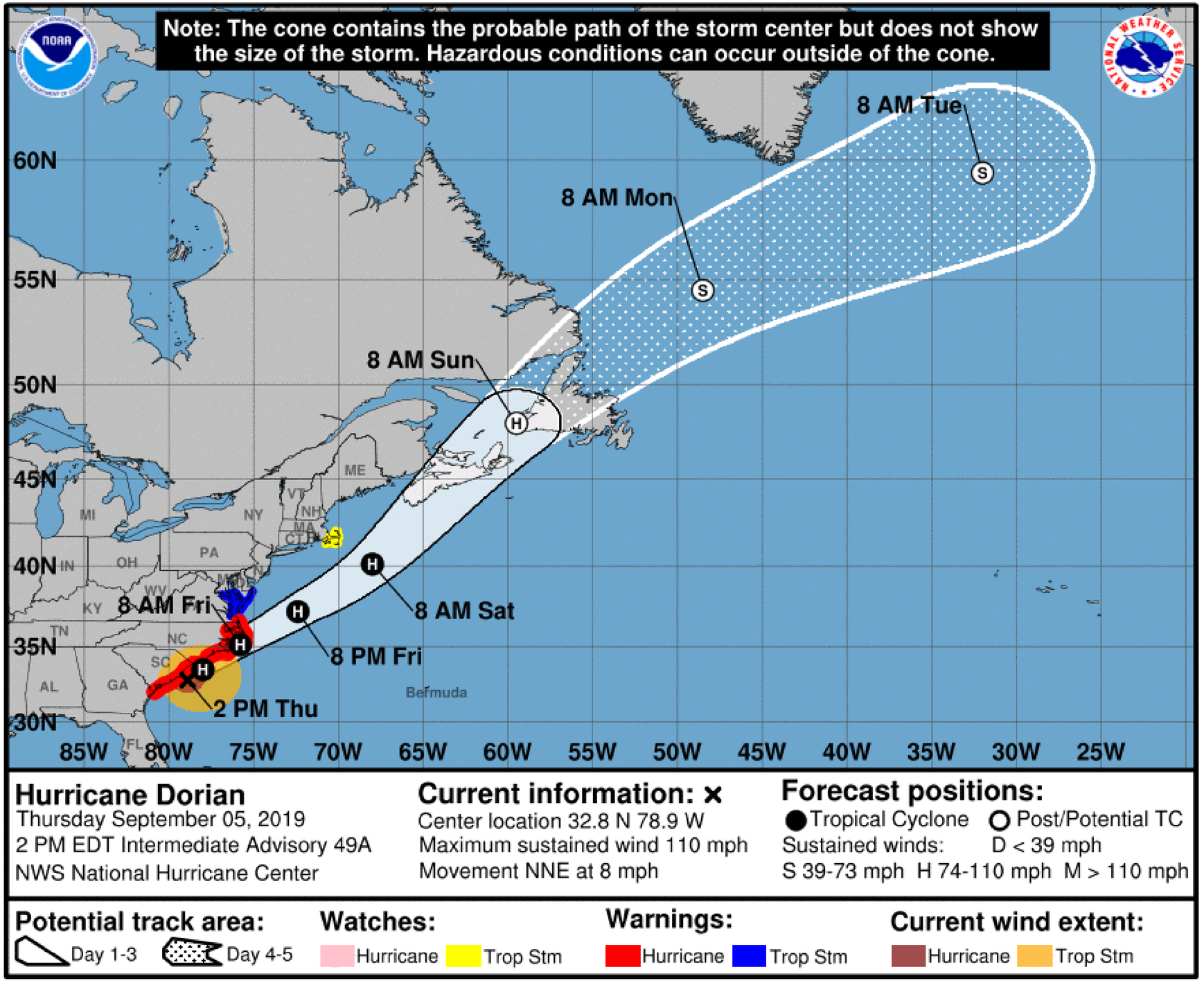
Matthew Kolosick - https://twitter.com/blkahn/status/905141924939649024/photo/1



Kathryn Busemeyer - https://www.nytimes.com/interactive/2017/09/09/us/hurricane-irma-records.html

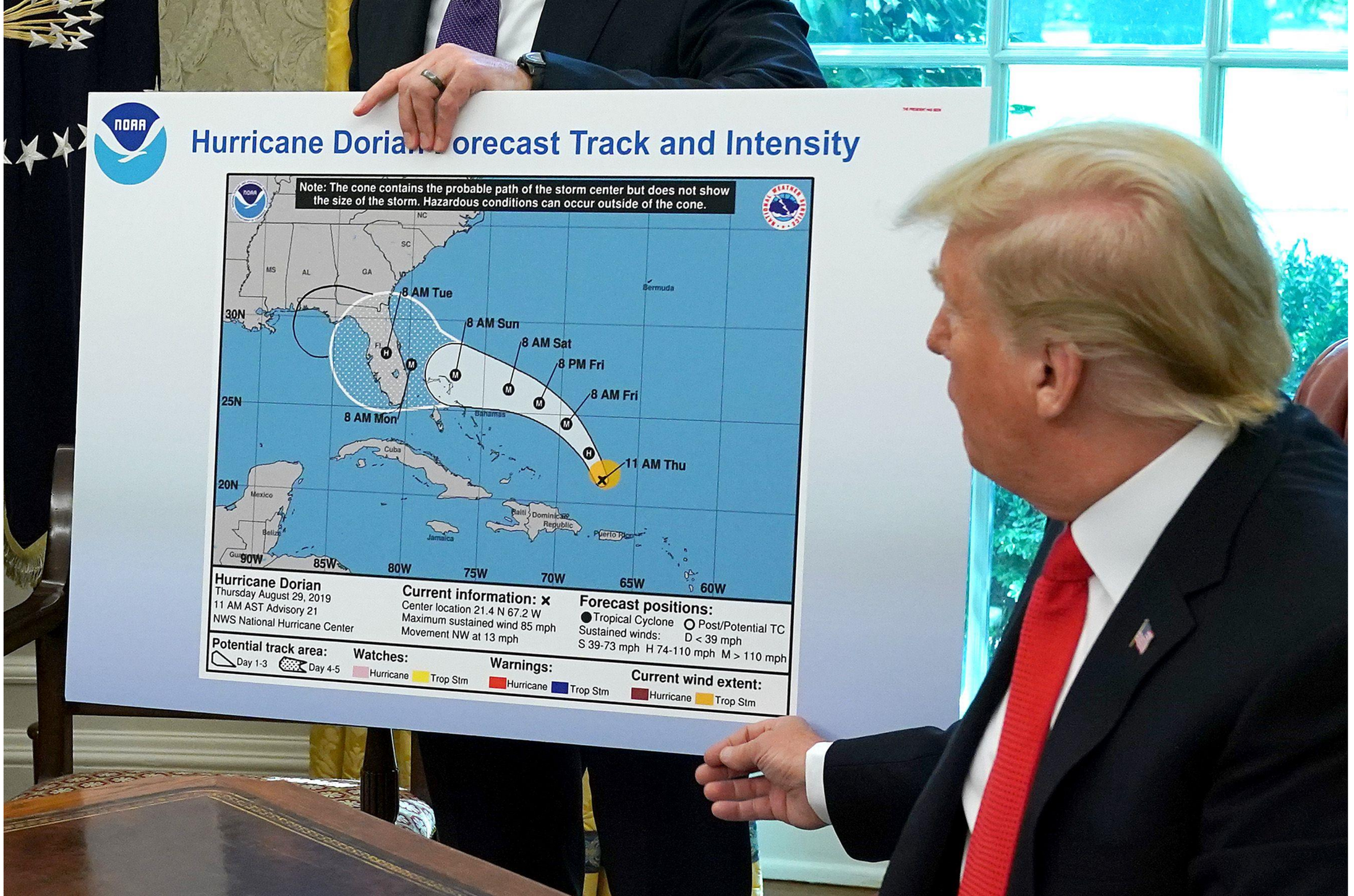


https://www.nhc.noaa.gov/refresh/graphics_at5+shtml/155815.shtml?cone#contents



https://www.nhc.noaa.gov/refresh/graphics_at5+shtml/155815.shtml?cone#contents

Hurricane Dorian Forecast Track and Intensity
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.
NOAA
8 AM Tue
8 AM Sun
8 AM Sat
8 PM Fri
8 AM Fri
11 AM Thu
Bermuda
Bahamas
Haiti
Dominican Republic
Puerto Rico
Jamaica
30N
75W
70W
65W
60W
Forecast positions:
Tropical Cyclone
Post/Potential TC
D < 39 mph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NC
SC
MS
AL
GA
FL
Bermuda
30N
25N
20N
8 AM Tue
8 AM Sun
8 AM Sat
8 PM Fri
8 AM Fri
8 AM Mon
11 AM Thu
Bahamas
Cuba
Mexico
Belize
Jamaica
Haiti
Dominican Republic
Puerto Rico
90W
85W
80W
75W
70W
65W
60W
Hurricane Dorian
Thursday August 29, 2019
11 AM AST Advisory 21
NWS National Hurricane Center
Current information:
Center location 21.4 N 67.2 W
Maximum sustained wind 85 mph
Movement NW at 13 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
Day 4-5
Watches:
Hurricane
Trop Stm
Warnings:
Hurricane
Trop Stm
Current wind extent:
Hurricane
Trop Stm

Opinion

Those Hurricane Maps Don't Mean What You Think They Mean

We use hurricane forecasts to warn people. Why do we misinterpret them so often?

By Alberto Cairo

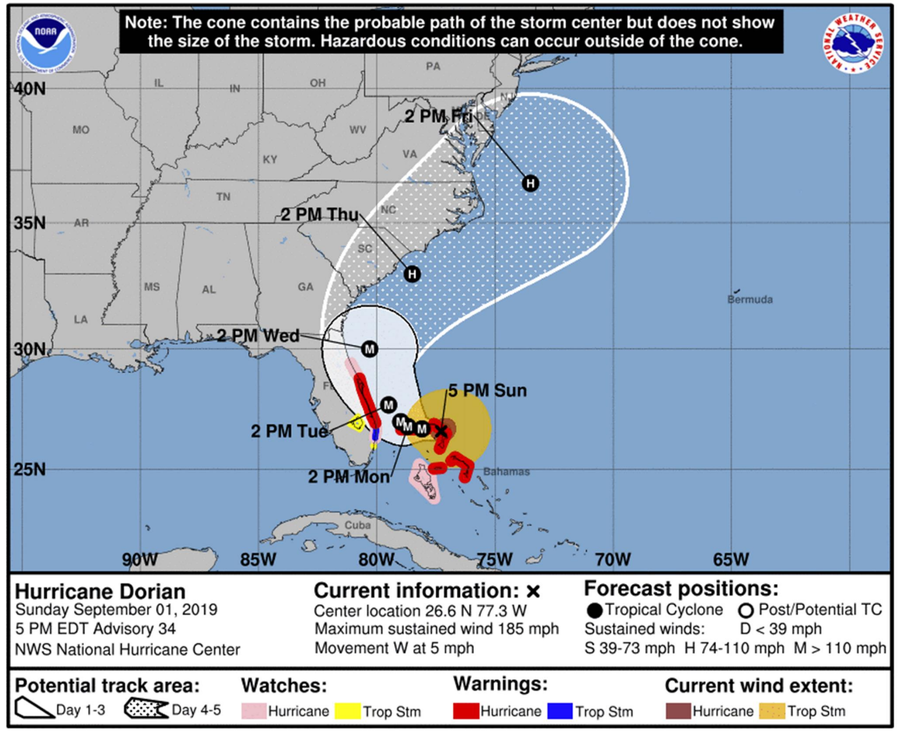
With Tala Schlossberg

https://www.nytimes.com/interactive/2019/08/29/opinion/hurricane-dorian-forecast-map.html

In-Class Redesign — Hurricane Funnels

41 min

https://neu-ds-4200-f23.github.io/in-class/hurricane-funnels/



https://www.nhc.noaa.gov/refresh/graphics_at5+shtml/155815.shtml?cone#contents

For Next Time

neu-ds-4200-f23.github.io/schedule/

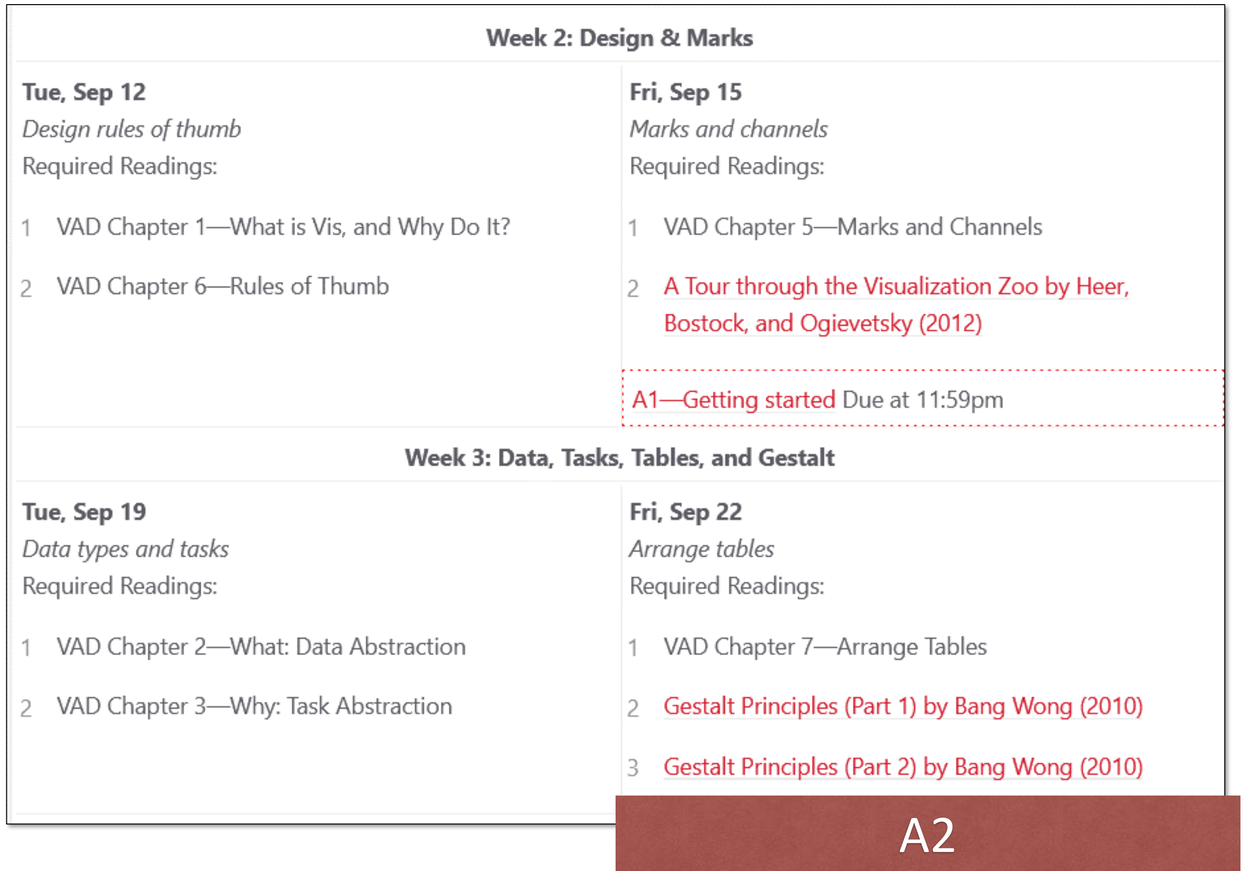
Look at the upcoming assignments and deadlines

- Textbook, Readings, & Reading Quizzes—Variable days
- In-Class Activities—If due, they are due 11:59pm the same day as class
- MIDTERM EXAM Oct 20

Everyday Required Supplies:

- 5+ colors of pen or marker
- White paper
- Laptop and charger

Use Slack for general questions, email codydunne-and-tas@ccs.neu.edu for questions specific to you.



Week 2: Design & Marks

Tue, Sep 12
Design rules of thumb
Required Readings:

1. VAD Chapter 1—What is Vis, and Why Do It?
2. VAD Chapter 6—Rules of Thumb

Fri, Sep 15
Marks and channels
Required Readings:

1. VAD Chapter 5—Marks and Channels
2. A Tour through the Visualization Zoo by Heer, Bostock, and Ogievetsky (2012)

A1—Getting started Due at 11:59pm

Week 3: Data, Tasks, Tables, and Gestalt

Tue, Sep 19
Data types and tasks
Required Readings:

1. VAD Chapter 2—What: Data Abstraction
2. VAD Chapter 3—Why: Task Abstraction

Fri, Sep 22
Arrange tables
Required Readings:

1. VAD Chapter 7—Arrange Tables
2. Gestalt Principles (Part 1) by Bang Wong (2010)
3. Gestalt Principles (Part 2) by Bang Wong (2010)

A2