

# Tropical Cyclone Initiation

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## Introduction

- Hurricanes can be dangerous especially if they make landfall, but also to ships out in sea.
- The point of this research is to determine how accurate percentages from the NHC are to predict the chances of storms become more organized and forming into tropical cyclones.

## How the data was created

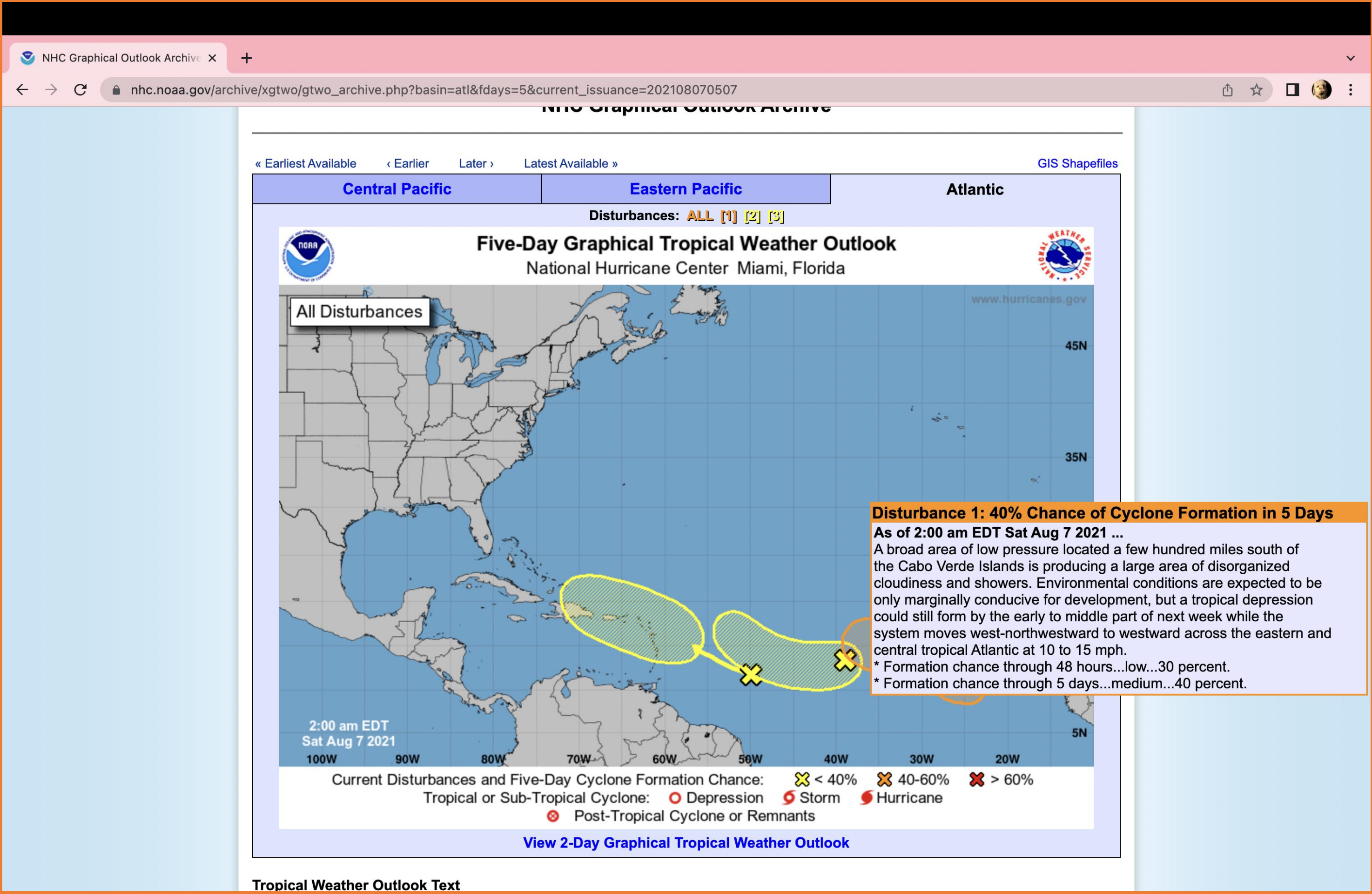
- Doing the 2022-2023 hurricane seasons, hover over each storm and record the percentage of each storm developing within 5 days.
- This was done for every 6 hours that the NHC made an observation.
- Storms were kept track of to make sure there is no error.
- If the storm doesn’t develop, gone was written.
- If the storm does develop record when it is a depression, write the number, when it becomes a storm or subtropical storm, write the name of the storm. When it becomes a post tropical storm and/or remnants, that was written.
- For each disturbance that was, the highest percentage throughout that disturbance to form within five days was recorded.
- Once the storm dissipated, gone was written.

## Future Work

- Look at more storms that had a good chance of forming into at least a Tropical depression, but didn’t form.
- Do more Atlantic hurricane season and work on the Pacific and Indian Ocean

## Storm Percentage Recording example

7	28-May	8:00 AM	Disturbance	gone	20 %		
8		2:00 PM			20 %		
9		8:00 PM			20 %		
10	29-May	2:00 AM			30 %		
11		8:00 AM			30 %		
12		2:00 PM			30 %		
13		8:00 PM			30 %		
14	30-May	2:00 AM			40 %		
15		8:00 AM			40 %		
16		2:00 PM			50 %		
17	31-May	8:00 PM			60 %		
18		2:00 AM			60 %		
19		8:00 AM			70 %		
20		2:00 PM			70 %		
21		8:00 PM			70 %		
22	1-Jun	2:00 AM		Disturbance	10 %		
23		8:00 AM			10 %		
24		2:00 PM			10 %		
25		8:00 PM			10 %		
26	2-Jun	2:00 AM			10 %		
27		8:00 AM			0 %		
28		2:00 PM			0 %		
29		8:00 PM		gone			
30	3-Jun	2:00 AM			90 %		
31		8:00 AM			90 %		
32		2:00 PM		Disturbance	10 %		
33		8:00 PM			10 %		
34	4-Jun	2:00 AM			10 %		
35		8:00 AM			0 %		
36		2:00 PM		gone	%		
37		8:00 PM			90 %		
38	5-Jun	2:00 AM			90 %		
39		8:00 AM	Alex		45 kn		
40		2:00 PM			50 kn		
41		8:00 PM			55 kn		
42		2:00 AM			60 kn		
43		8:00 AM			55 kn		
44		2:00 PM			55 kn		
45		8:00 PM	Post tropical		50 kn		



## Results (so far)

