



## CC4. Extreme weather patterns activity

### Climate Change and Hurricanes Group

**Part 1:** Look at the hurricane maps provided and identify any trends you see in how hurricanes develop. In your groups, identify any patterns.

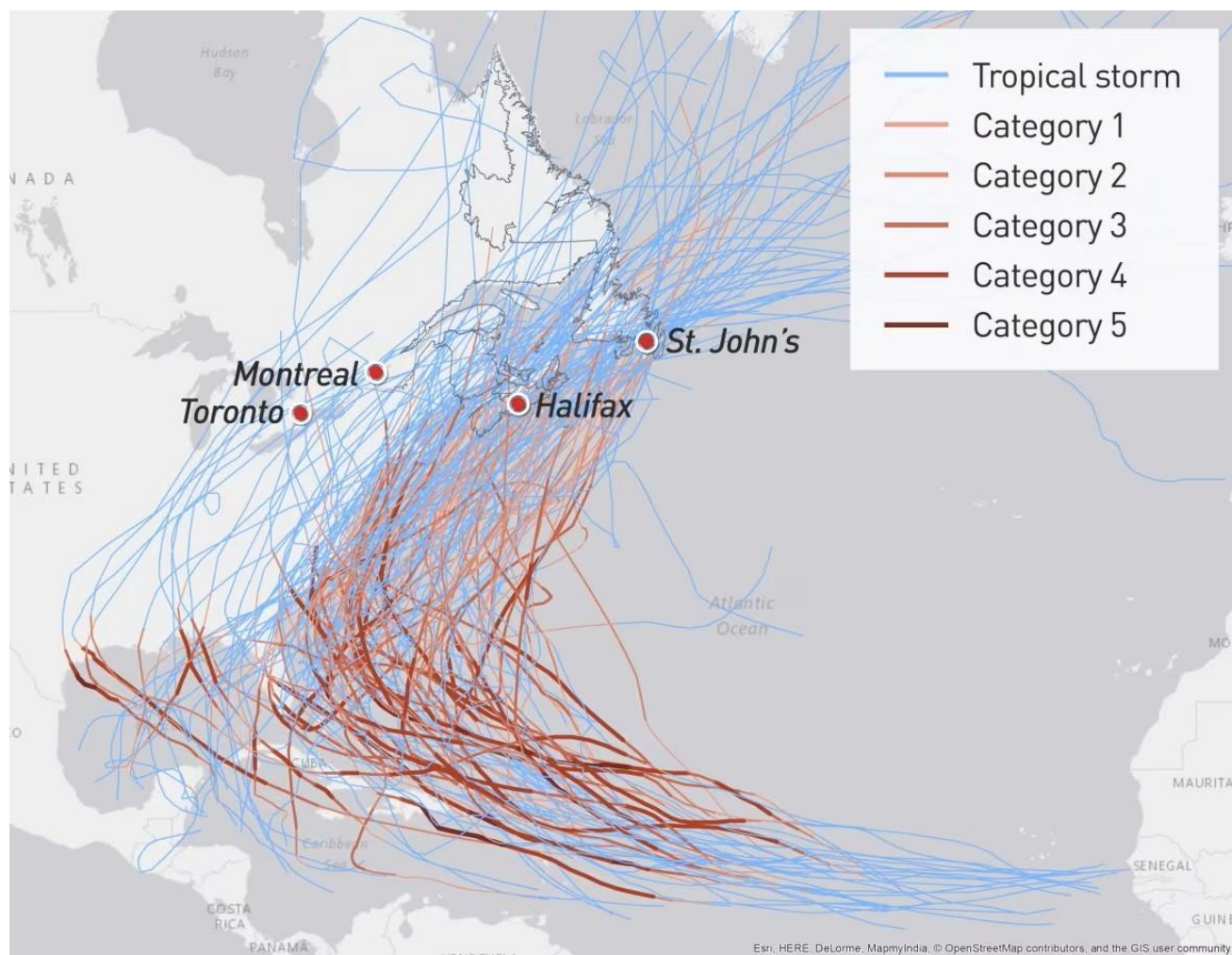
**Part 2:** Read through the hurricanes fact sheet and create a poster to warn the public about how climate change is going to impact hurricanes. You can cut out the hurricane maps provided to use on your poster.

*Your poster should include:*

- The routes of hurricanes that have hit the Cayman Islands over the last 30 years.
- Identify any patterns your group found and think about why this might be the case.
- Identify where hurricanes are created.
- What consequences is climate change having on hurricanes and what might we see in the future?
- How is climate change's effect on hurricanes going to affect the social, economic, and environmental aspects of the Cayman Islands?

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### Part 1:



⚠ Notice that many tropical storms are formed in the Caribbean region before they grow into hurricanes and hit the US and Canada.

What patterns do you see here in this hurricane tracking map?

Where are these hurricanes forming?

These are the paths of 163 hurricanes that have passed over Canada between 1900 and 2014, according to the U.S. National Oceanic and Atmosphere Administration. (Earl Cabuhat/CBC)



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Data from NOAA Historical Hurricane Tracker and the Cayman National Weather Service.

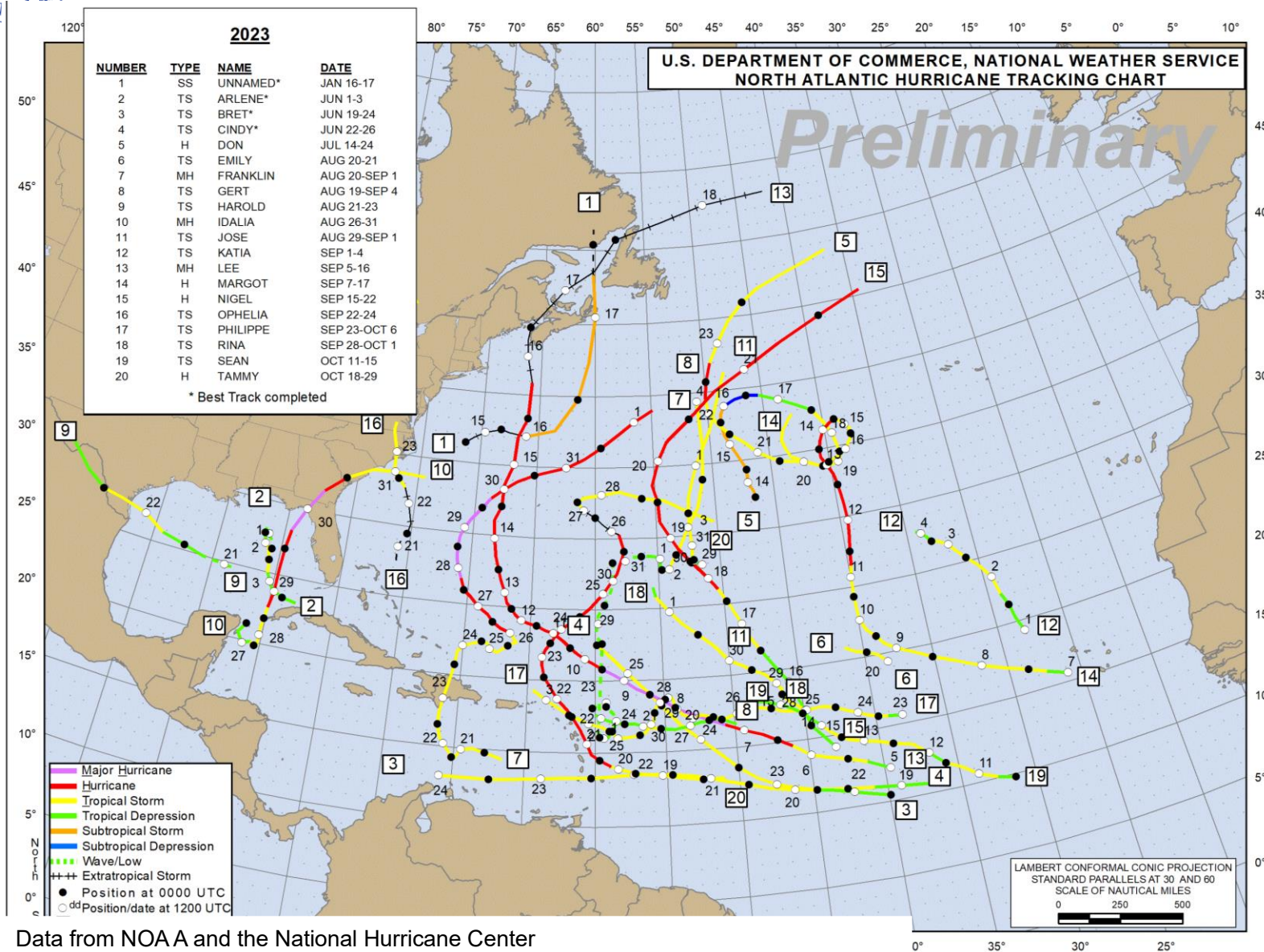


These are the routes of the hurricanes that have hit the Cayman Islands over the past 30 years. What patterns do you see?





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This is a map of all of the hurricanes in 2023.

What patterns do you see?



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### Part 2:

Now it's time to create a poster warning the public about climate change and the impacts of climate change. Read through the fact sheet and cut out the graphs above to use on your posters.

*Your poster should include:*

- The routes of hurricanes that have hit the Cayman Islands over the last 30 years.
- Identify any patterns your group found and think about why this might be the case.
- Include an explanation about where hurricanes are created.
- Point out what impact climate change has on hurricanes and what might we see in the future.
- How is climate change's effect on hurricanes going to affect the social, economic, and environmental aspects of the Cayman Islands?