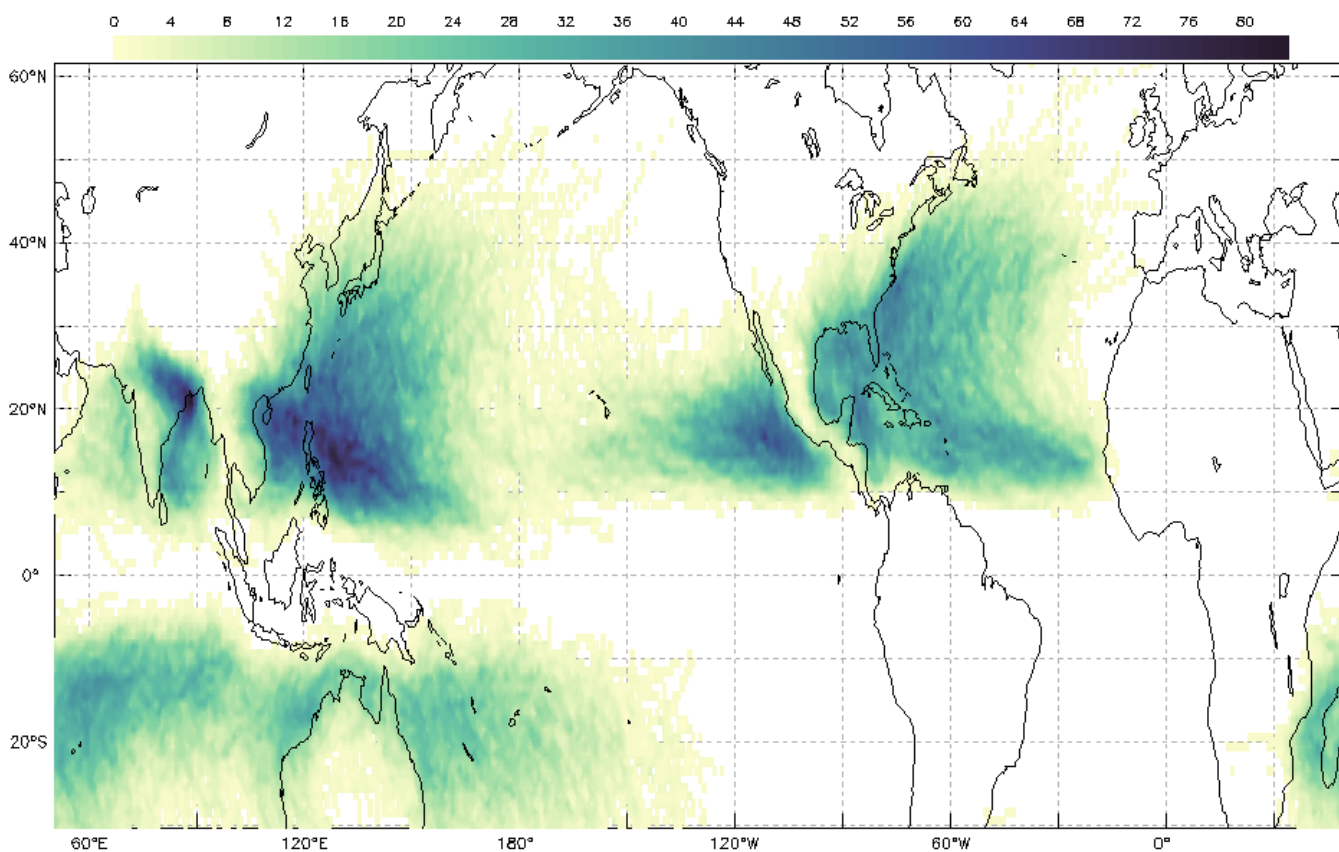


My NASA Data - Mini Lesson/Activity

Tropical Cyclone Counts Model



Student Directions

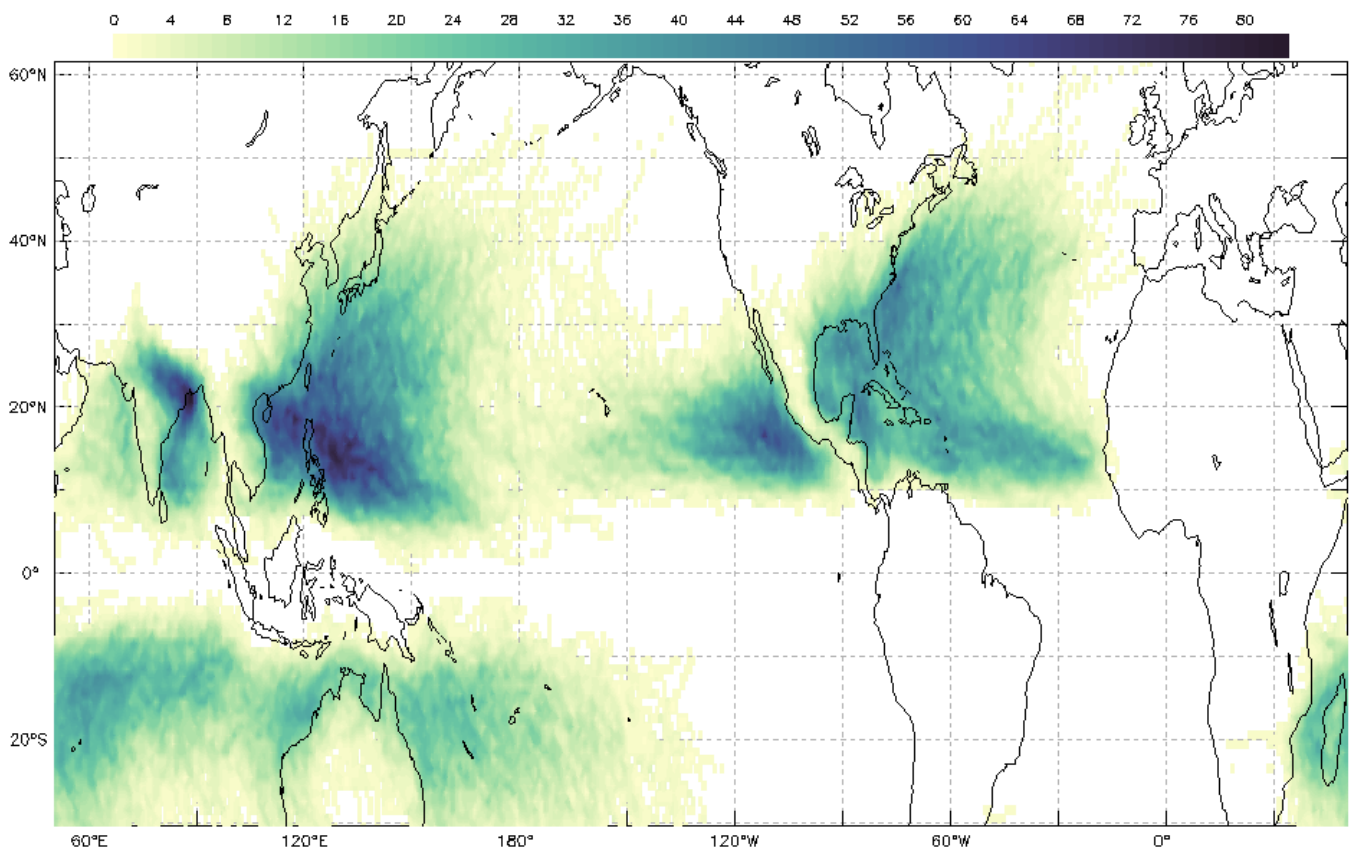
Background

Tropical cyclones are sometimes called *hurricanes* or *typhoons*. They are large storms with strong wind that form over water and can travel over land. That means they can have an impact on bodies of water, the atmosphere and land.

Scientists use maps to model tropical storms. The image below is a model that shows how many hurricanes have been in each location from 1842 – 2018. It is from the My NASA Data [Earth System Data Explorer](#). Maps, like this one, show changes in different locations. In this mini lesson, you will examine a map with data and answer questions.

DATASET: Tropical Cyclones
VARIABLE: Number of Tropical Cyclones (1842 - 2018) (dimensionless (count))

LAS 8./Ferret 7.5 NOAA/PMEL



[Tropical Cyclone Counts Map Image](https://mydasdata.larc.nasa.gov/sites/default/files/2020-04/Tropical%20Cyclone%20Counts%20Yellow%20to%20Blue%20thumbnail_0.png) - Darker colors show more tropical cyclones.

https://mydasdata.larc.nasa.gov/sites/default/files/2020-04/Tropical%20Cyclone%20Counts%20Yellow%20to%20Blue%20thumbnail_0.png

Steps

Use the [Tropical Cyclone Counts Map Image](https://mydasdata.larc.nasa.gov/sites/default/files/2020-04/Tropical%20Cyclone%20Counts%20Yellow%20to%20Blue%20thumbnail_0.png) to answer the questions. Check with your instructor on how to submit your answers.

1. What does the information on the map show?
2. What do the dark colors on the map represent?
3. Point to a spot on the map that is not white. How many tropical cyclones, or hurricanes, have there been at that spot between 1842 and 2018?
4. Where do the most hurricanes form?
5. What do you notice about the image?
6. What questions do you have about the image?

Teachers, these mini lessons/student activities are perfect "warm up" tasks that can be used as a hook, bell ringer, exit slip, etc. They take less than a class period to complete. Learn more on the "[My NASA Data What are Mini Lessons?](#)" page.

Teachers who are interested in receiving the answer key, please complete the [Teacher Key Request and Verification Form](#). We verify that requestors are teachers prior to sending access to the answer

keys as we've had many students try to pass as teachers to gain access.

My NASA Data Visualization Tool

- [Earth System Data Explorer](#)