



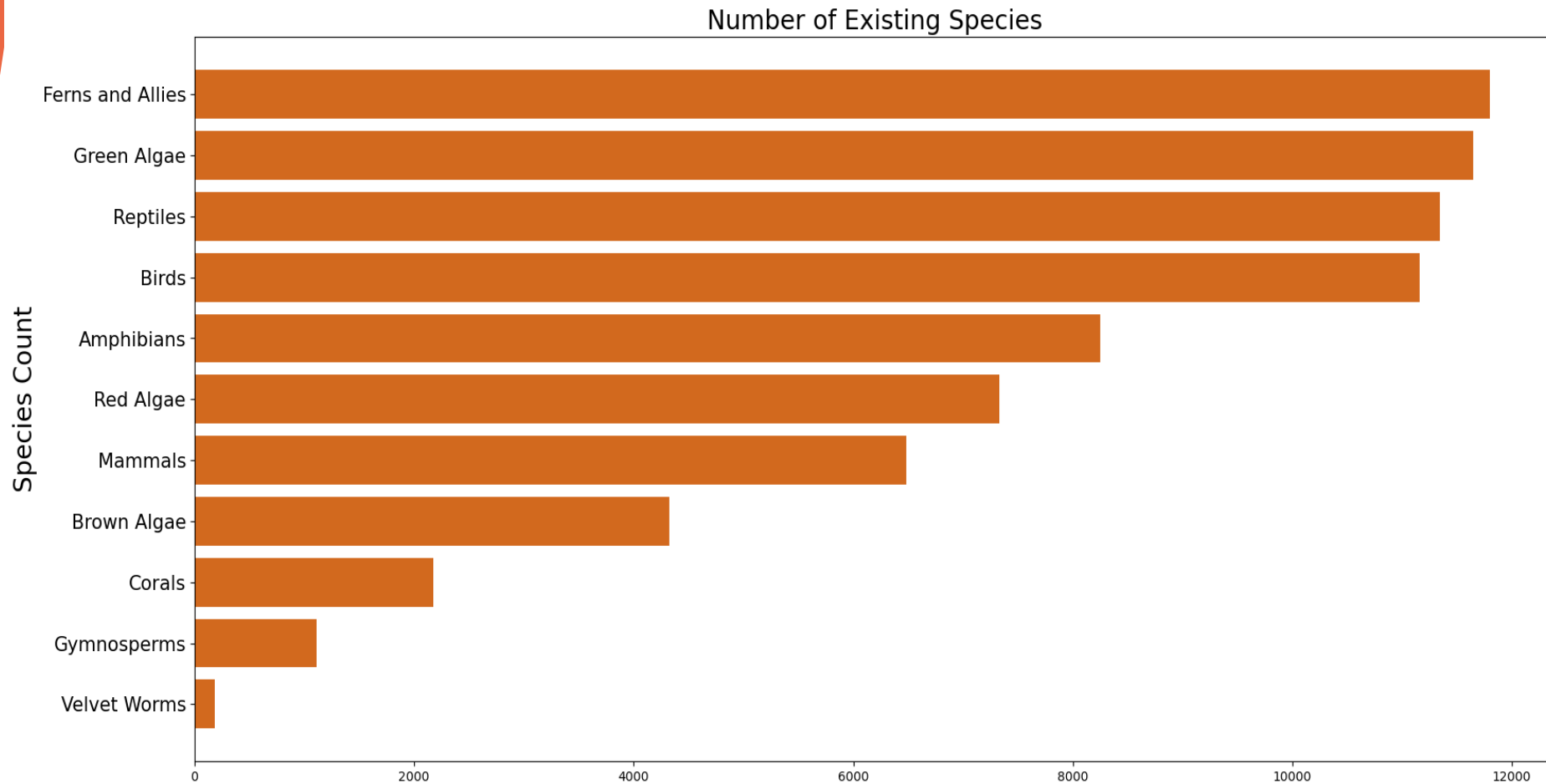
Coral Bleaching: A Brief History and Overview of Catalysts and Effects

What is coral bleaching?

- ❑ When corals are stressed by changes in conditions such as temperature, light, or nutrients, they expel the symbiotic algae living in their tissues, causing them to turn completely white.

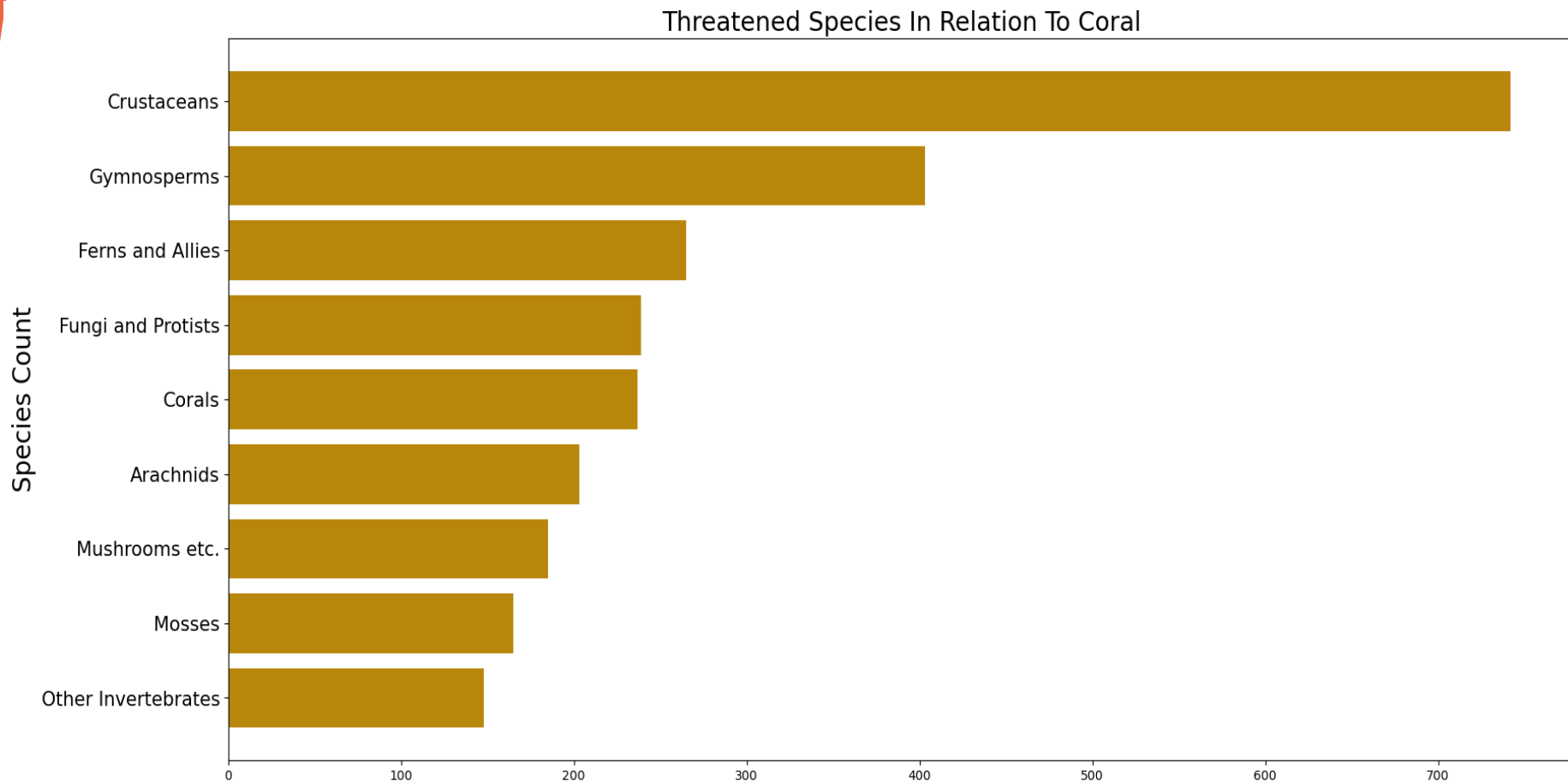
What are the main driving forces that cause coral bleaching to occur?

- ❑ Global Warming
- ❑ Weather Events
- ❑ Changing Water Temperatures
- ❑ Ocean Acidification
- ❑ Pollution

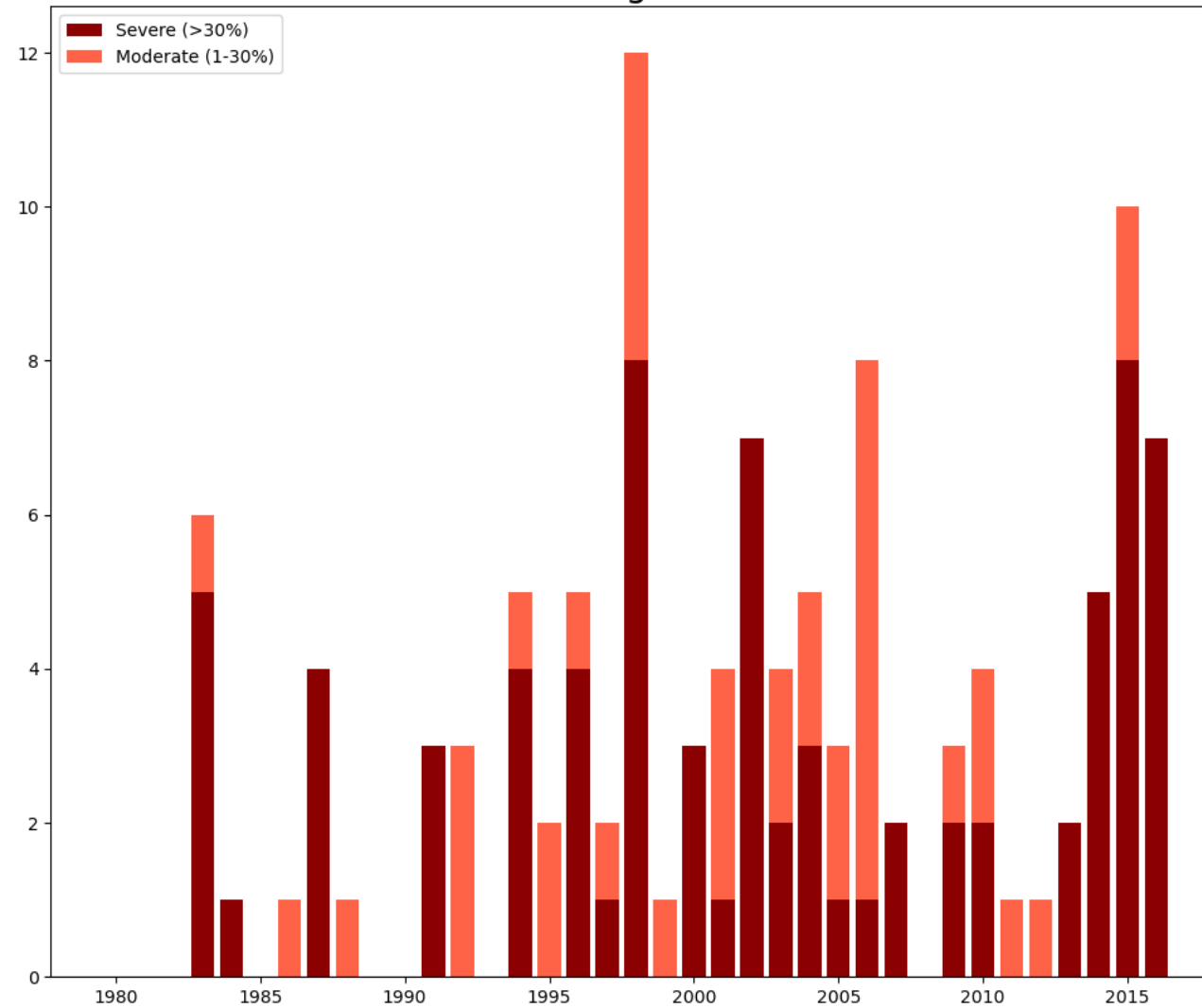


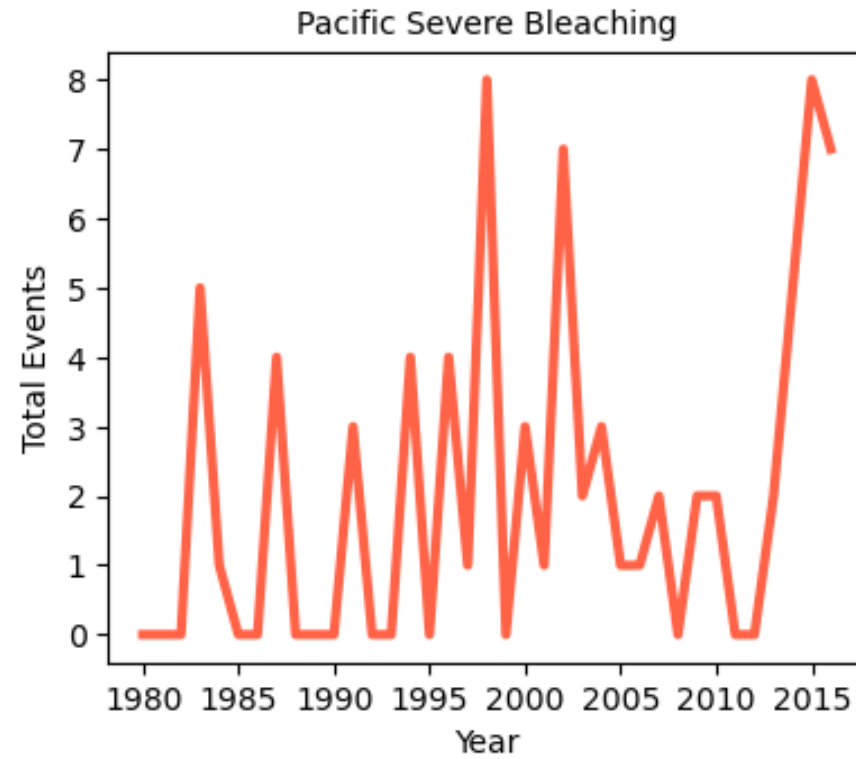
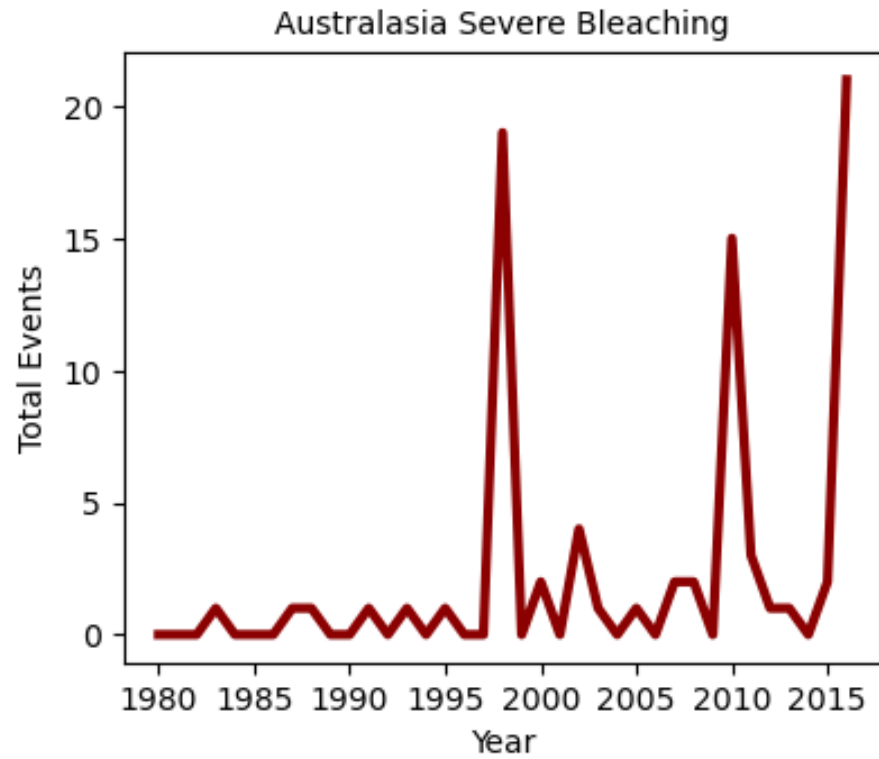
How relevant is coral to other species?

Coral threat levels



Worldwide Bleaching Events: 1980-2015

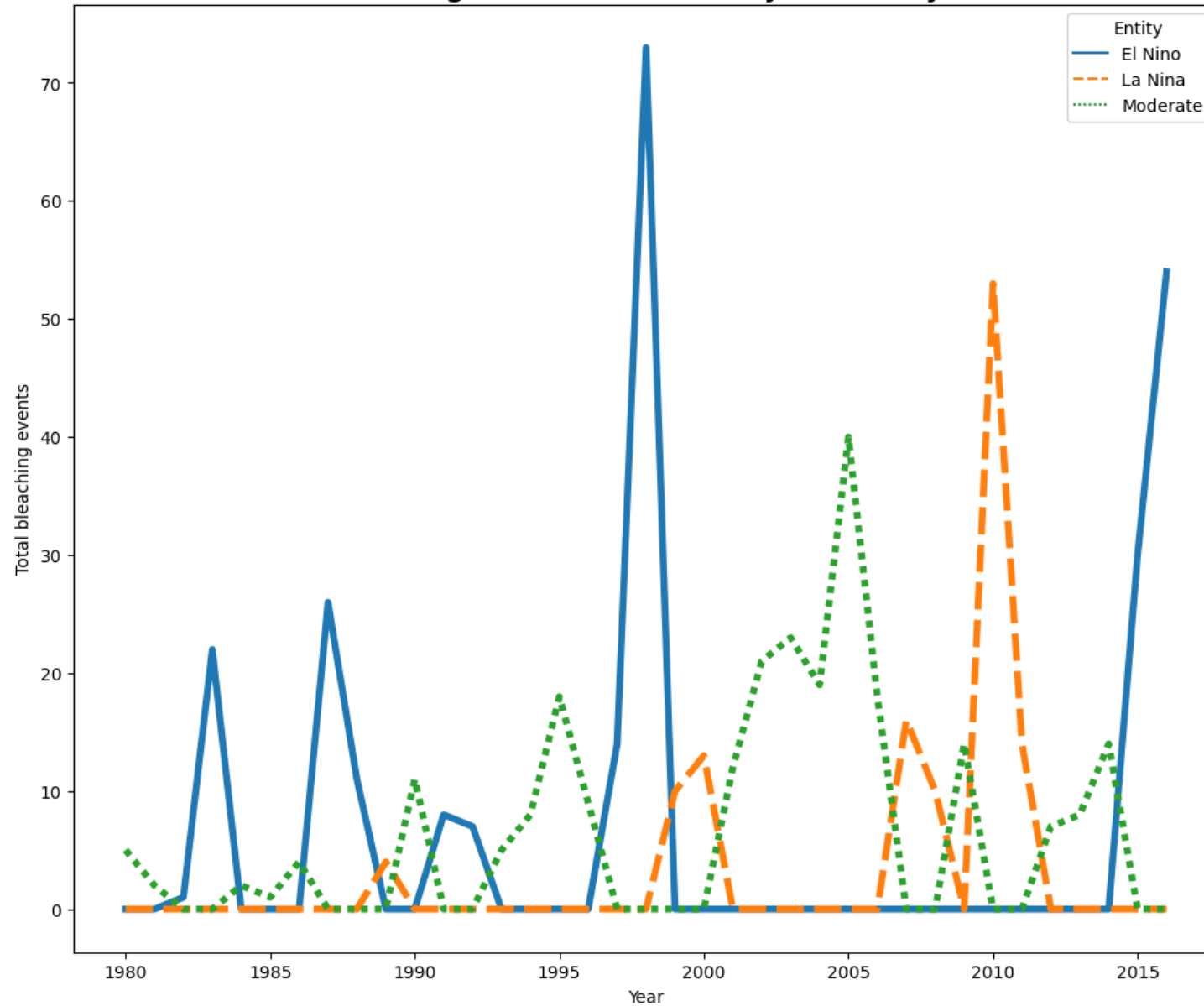


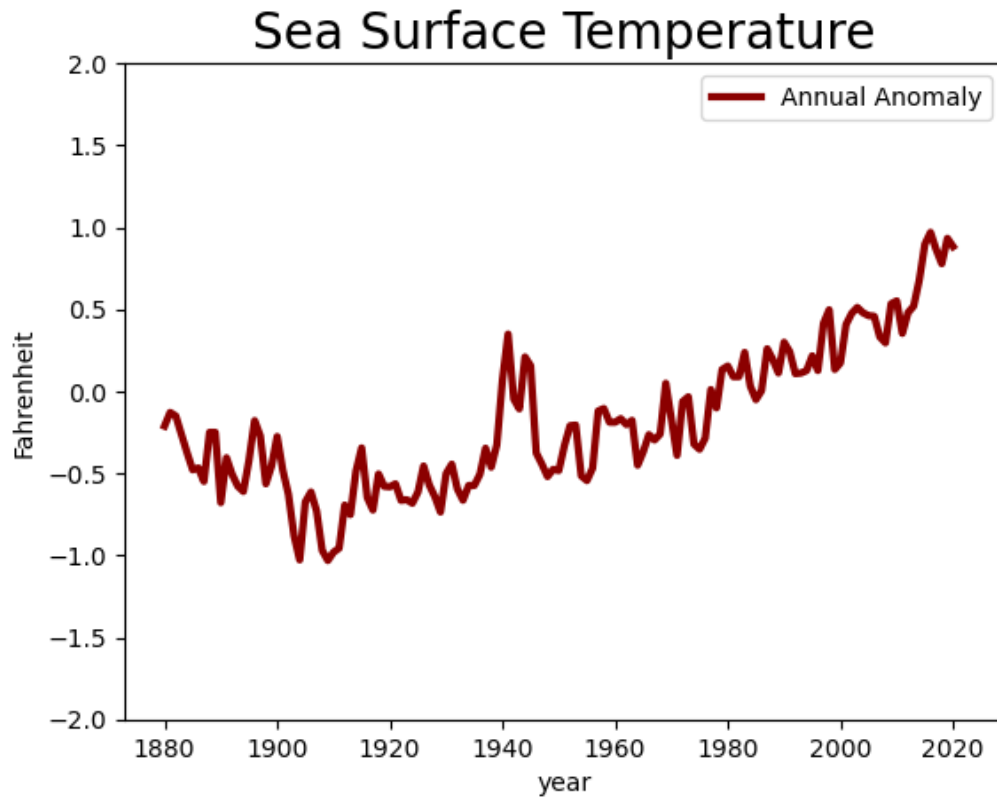


Australasia & Pacific

Weather Events

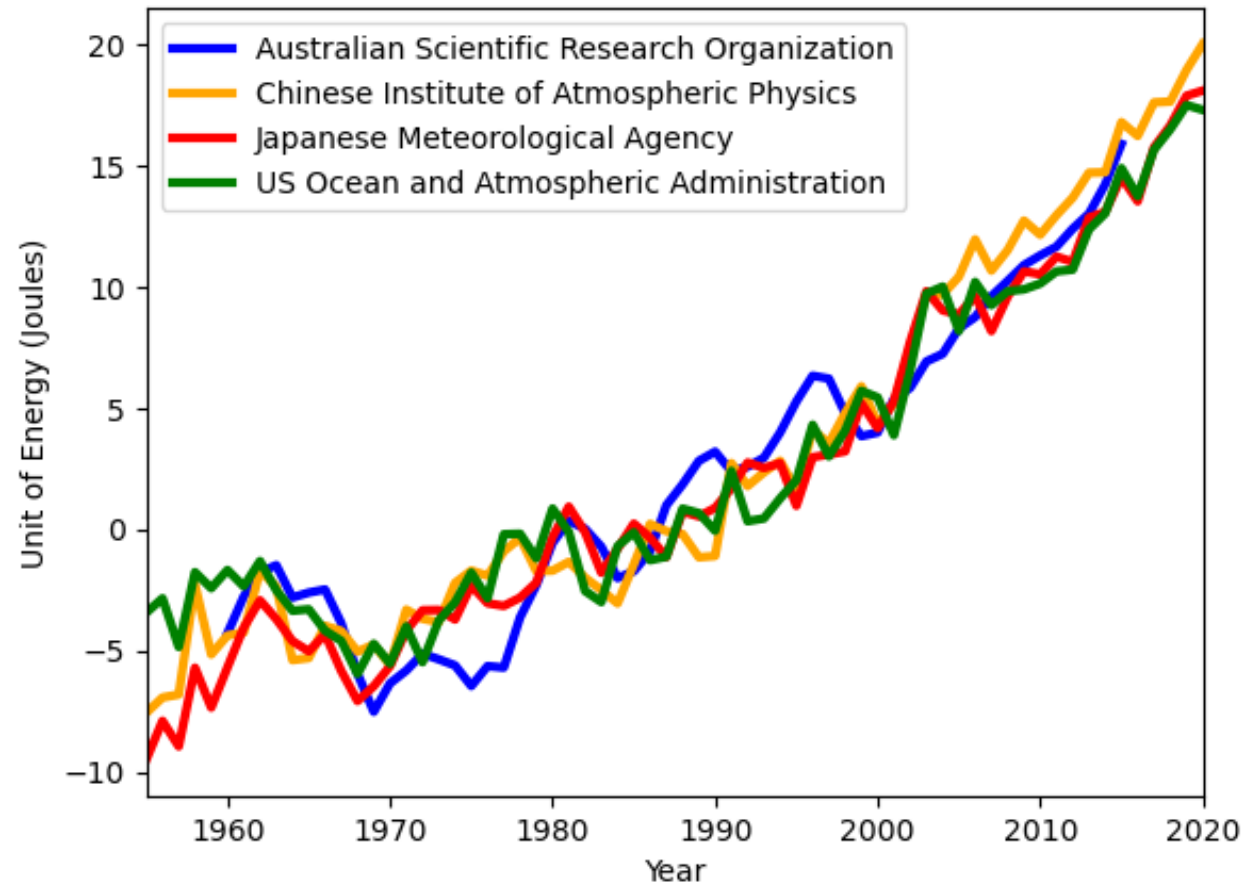
Bleaching Events Caused by ENSO Cycle



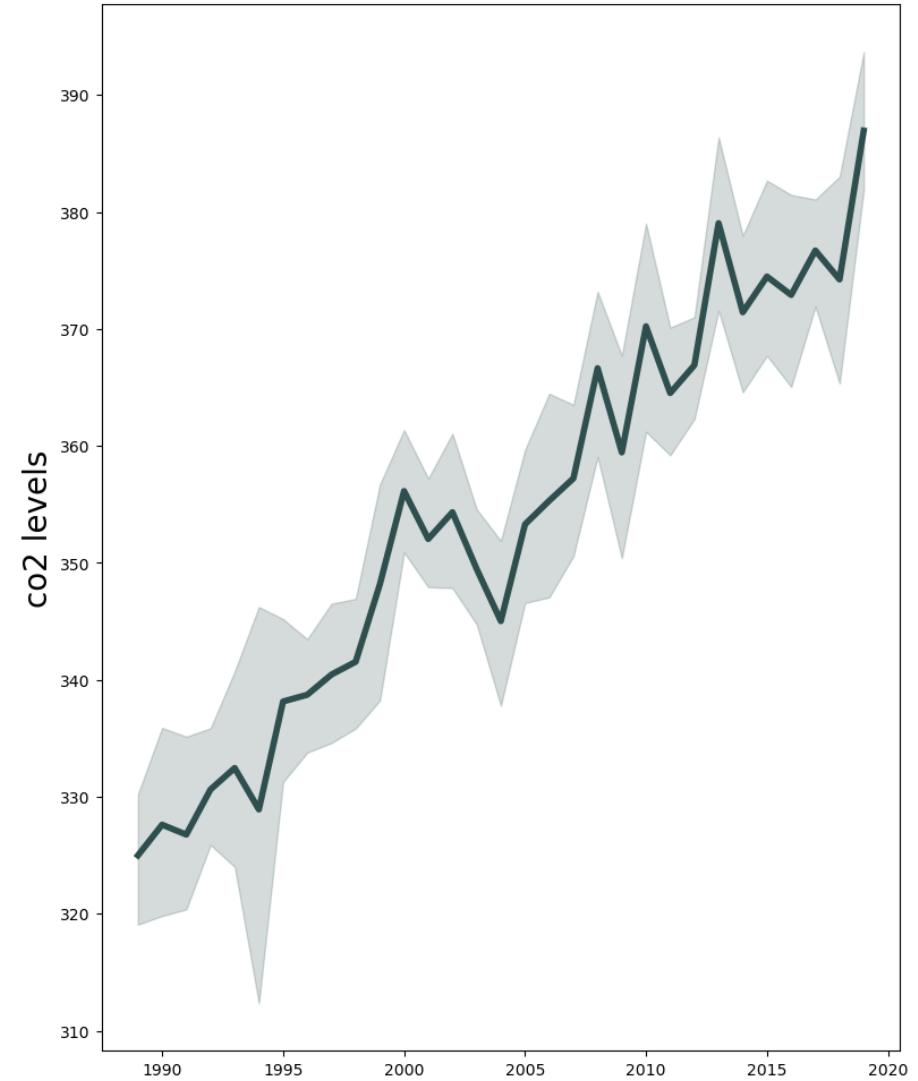
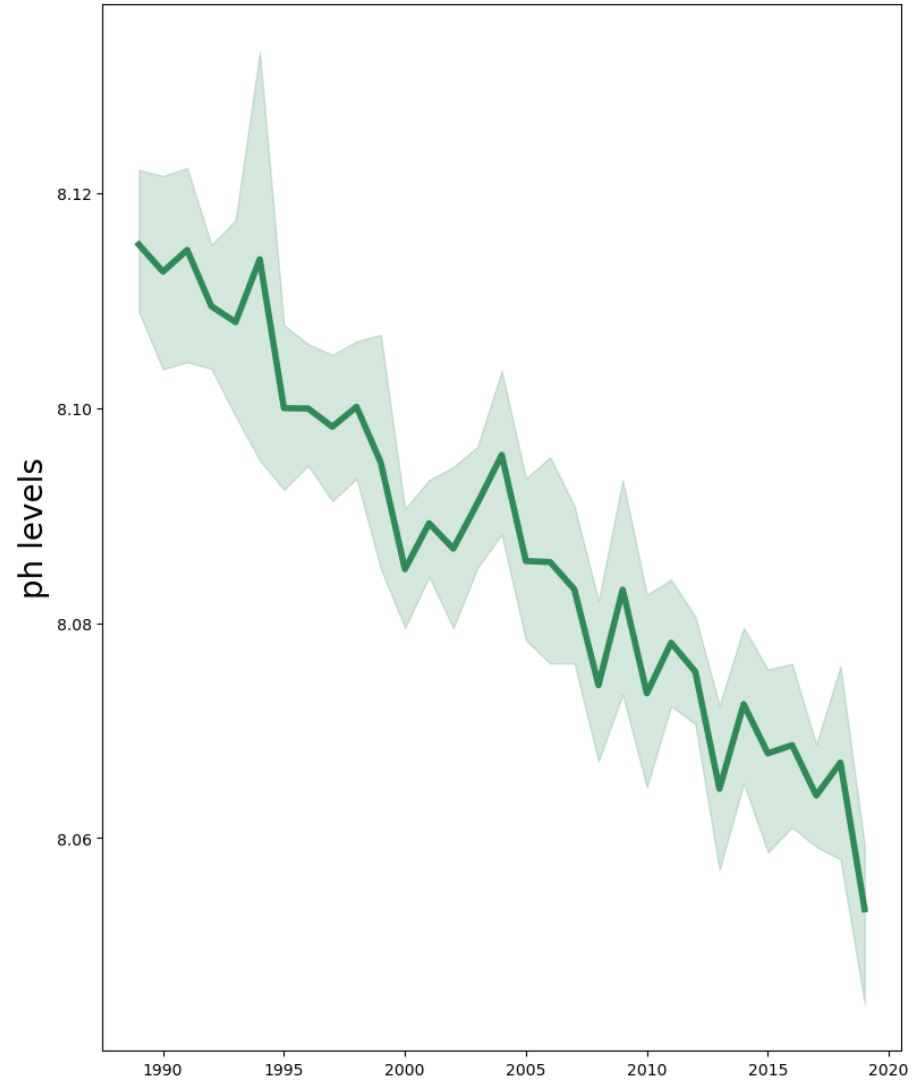


Changing
Water
Temperatures

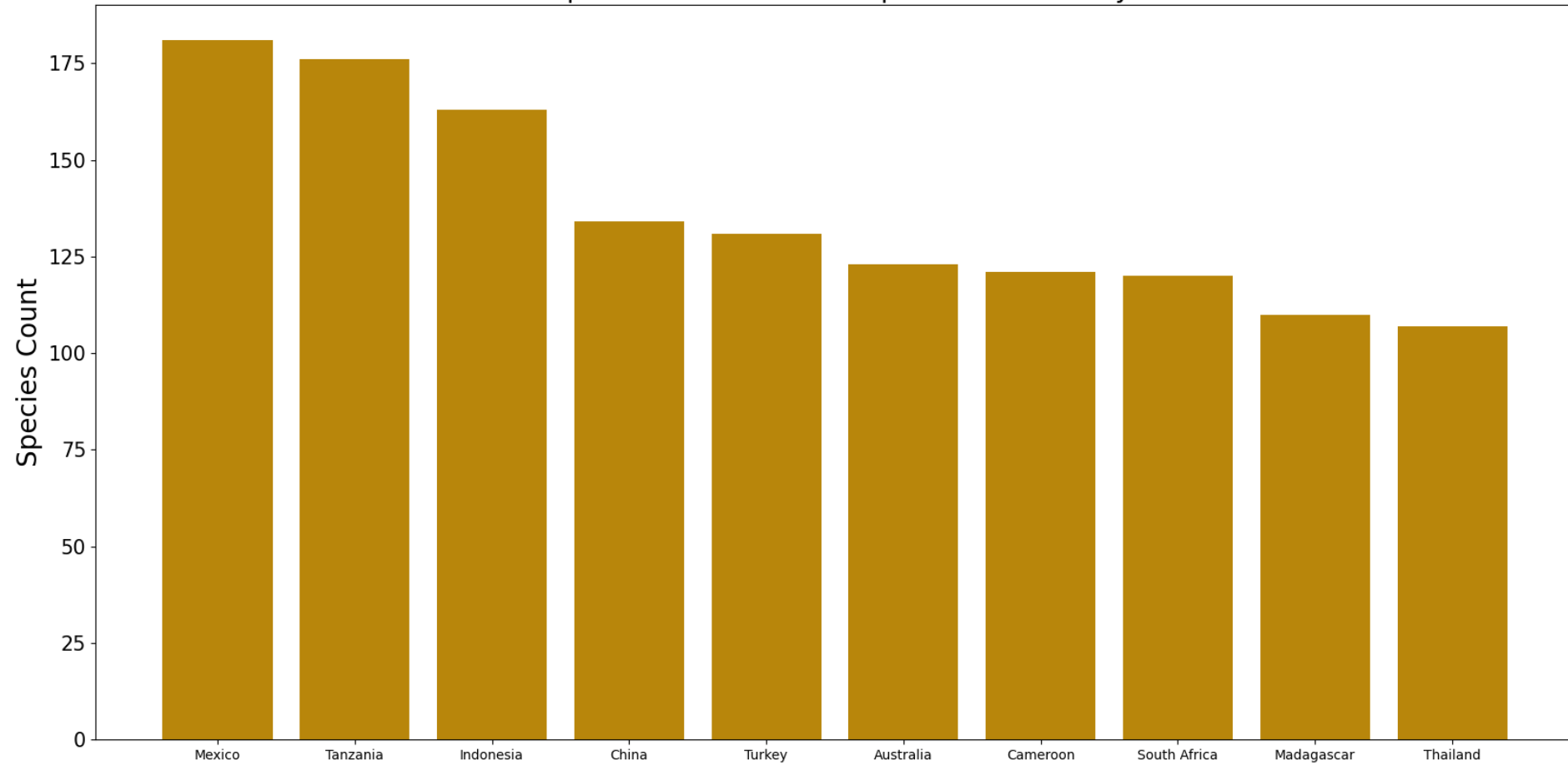
Ocean Heat Temperature Trend Records: Top 700 Meters



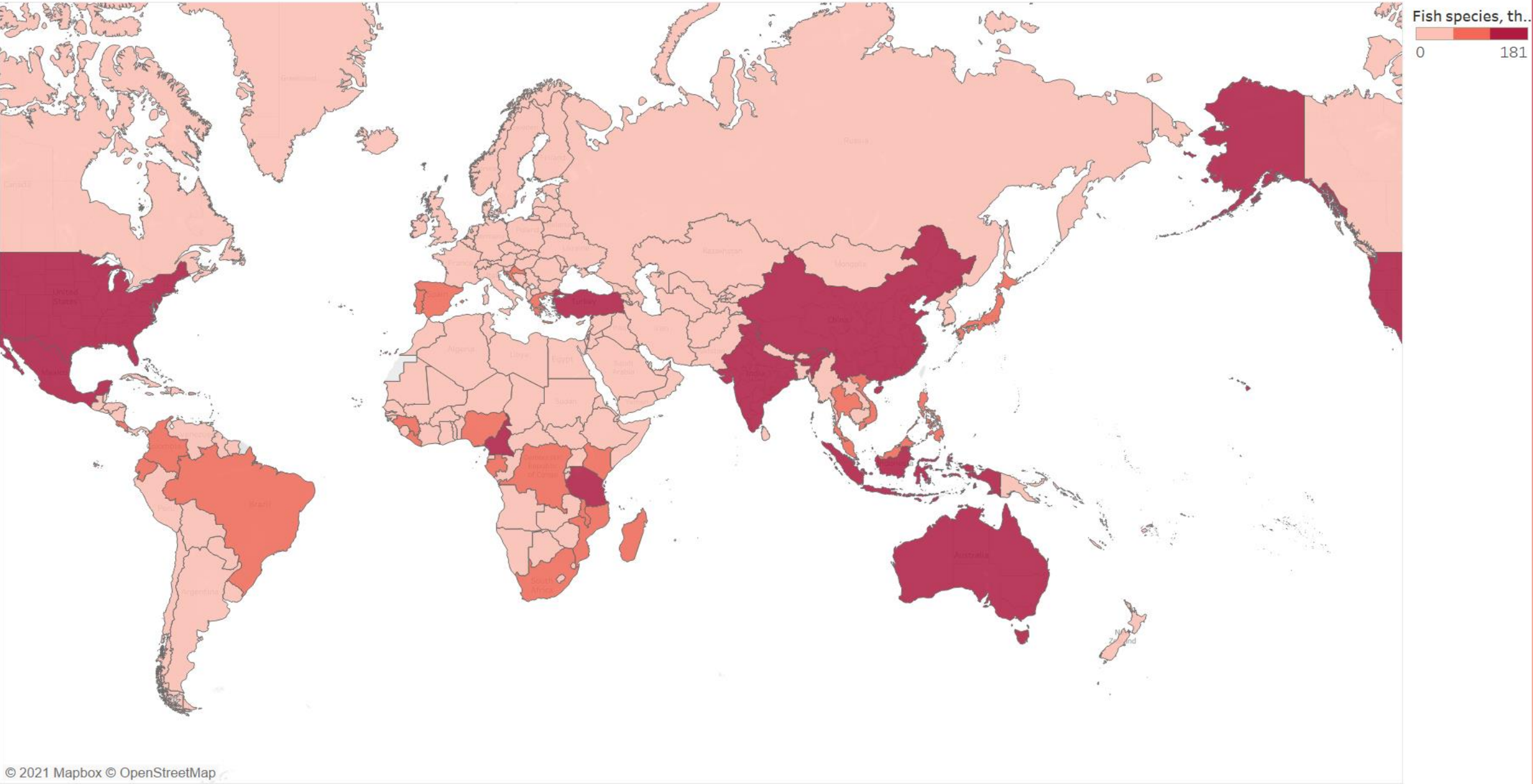
Ocean Acidity



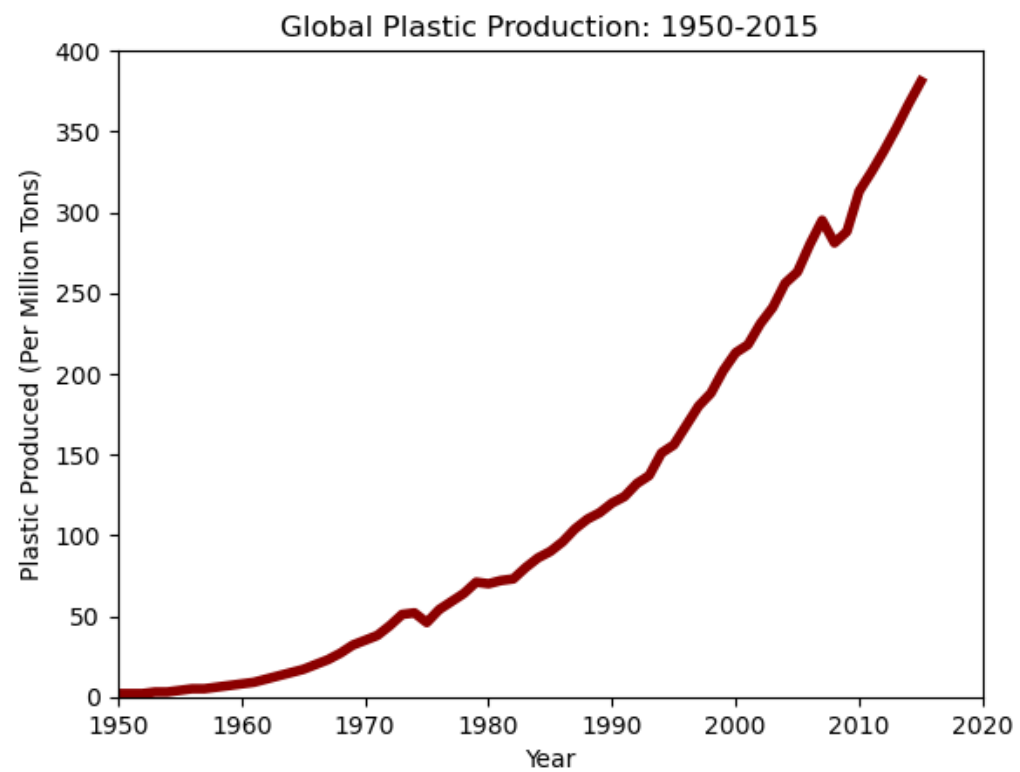
Top 10: Threatened Fish Species Per Country



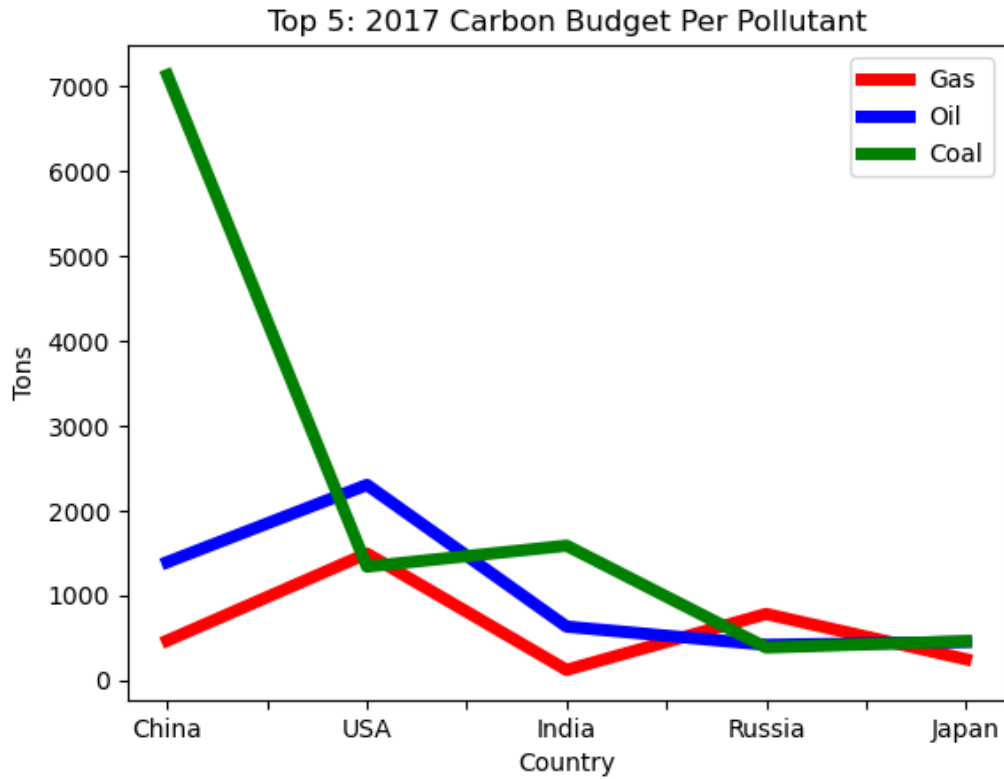
Fish Threatened Map



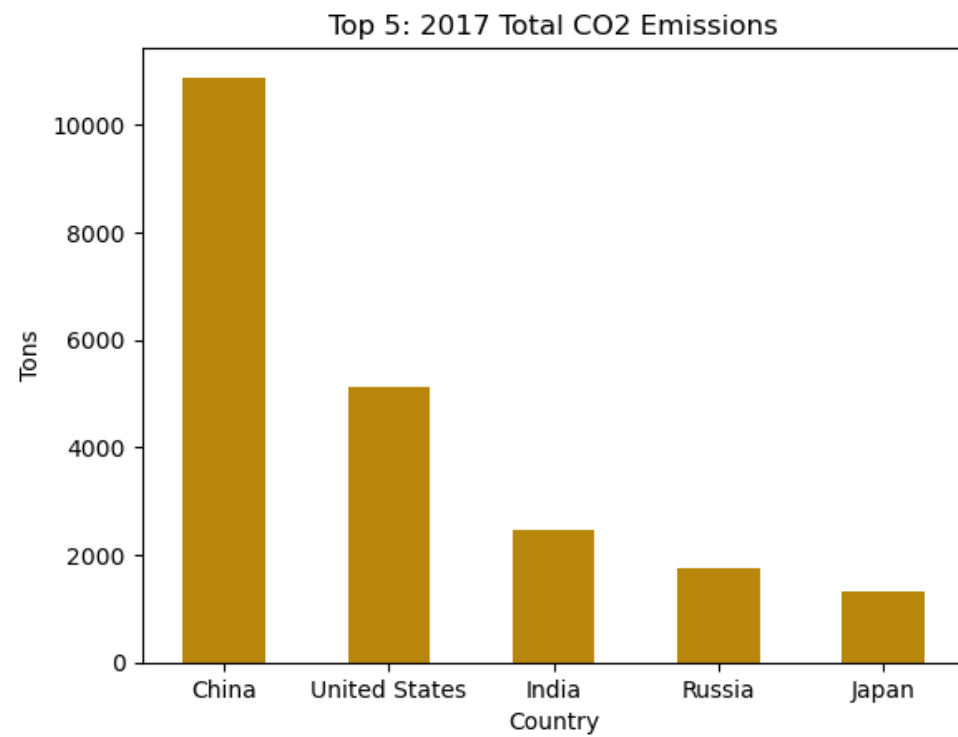
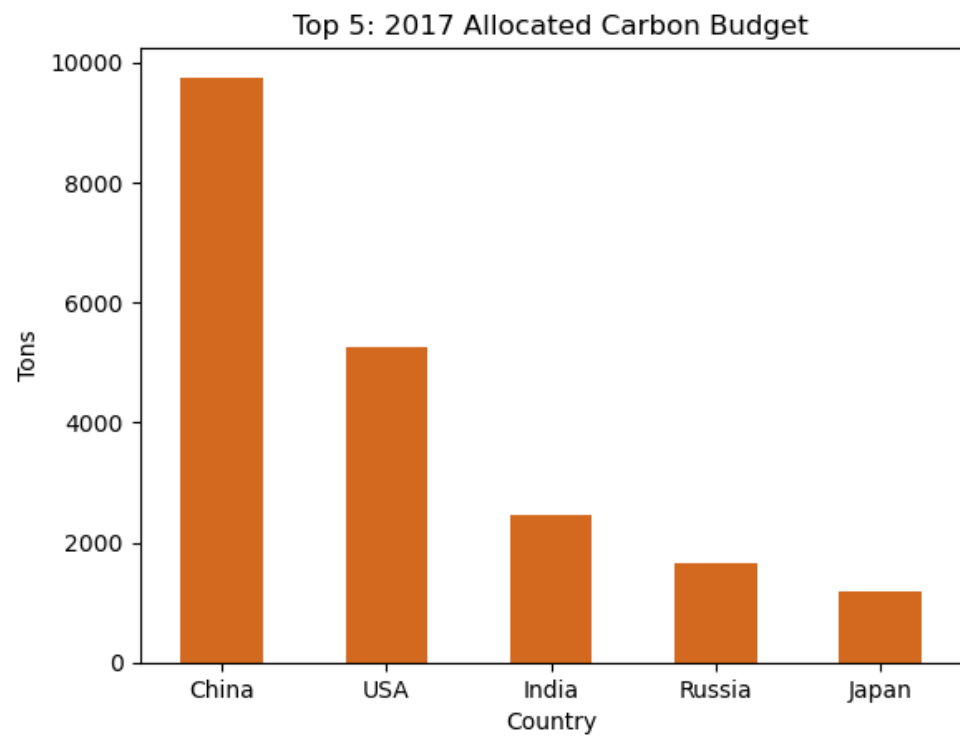
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Fish species, threatened. Details are shown for Entity. The view is filtered on sum of Fish species, threatened, which includes everything.



Pollution



C02 Emissions Budget



References

- ❑ [Coral Reefs - Our World in Data](#)
- ❑ [Fish - Our World in Data](#)
- ❑ [Extinctions - Our World in Data](#)
- ❑ [Climate Change Indicators: Sea Surface Temperature | Climate Change Indicators in the United States | US EPA](#)
- ❑ [Climate Change Indicators: Ocean Heat | Climate Change Indicators in the United States | US EPA](#)
- ❑ [Climate Change Indicators: Ocean Acidity | Climate Change Indicators in the United States | US EPA](#)
- ❑ [List of countries by carbon dioxide emissions - Wikipedia](#)
- ❑ [What is coral bleaching? \(noaa.gov\)](#)
- ❑ [Carbon Budget \(globalcarbonproject.org\)](#)
- ❑ [Coral Bleaching - Great Barrier Reef Foundation](#)