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FINAL ASSIGNMENT

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I chose the Horn of Africa, in the East African Rift, as my location. The reason I chose this location is that its coasts are washed by the Red Sea and the Indian Ocean, and its mainland is the fourth-largest peninsula in the world [1]. It is also a place of great geopolitical importance because of its Southern boundary, the Red Sea. It is also a vital oil trade checkpoint with much vessel traffic from the Middle East [2][3].

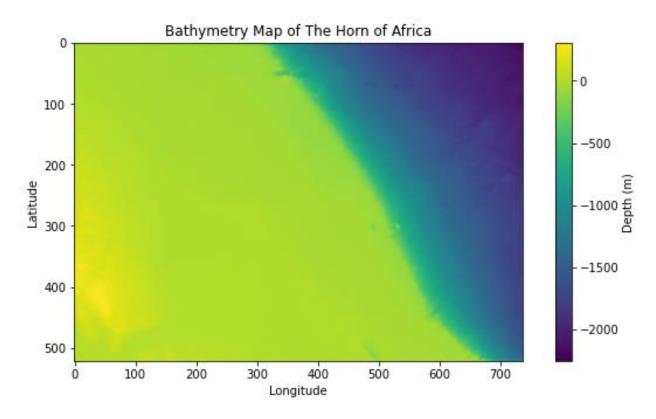


Figure 1. Bathymetric map of the Horn of Africa in the East African Rift.

 <sup>&</sup>quot;Three important oil trade chokepoints are located around the Arabian Peninsula - U.S. Energy Information Administration (EIA)". www.eia.gov. Retrieved 6 April 2024.

 <sup>&</sup>quot;Red Sea chokepoints are critical for international oil and natural gas flows - U.S. Energy Information Administration (EIA)". www.eia.gov. Retrieved 6 April 2024.

<sup>3. &</sup>quot;Horn of Africa | Countries, Map, & Facts | Britannica". www.britannica.com. Retrieved 6 April 2024.

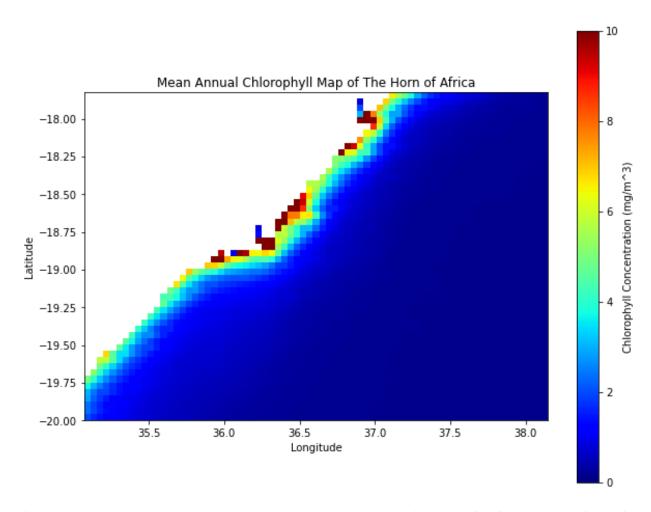


Figure 2. Mean annual chlorophyll-a levels along the Horn of Africa coastline in the East African Rift

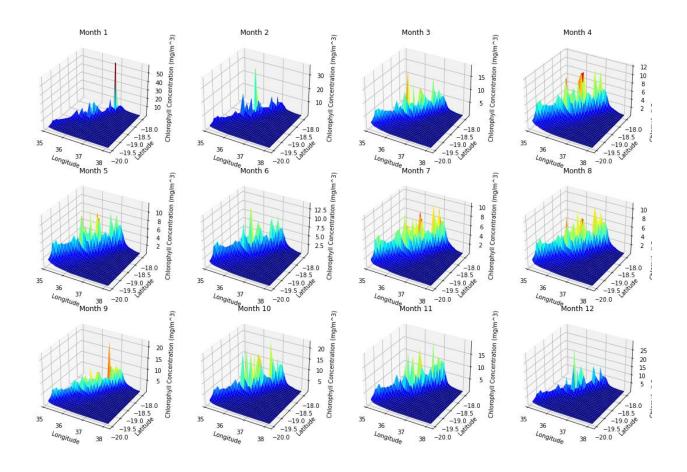


Figure 3. Representation of the annual chlorophyll-a concentration levels (mg/m³) along the coastline of the Horn of Africa in the East African Rift,

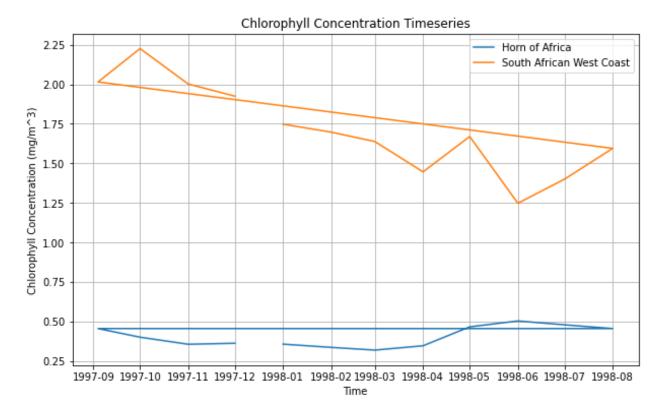


Figure 4. A time-series representation of the mean seasonal cycle of the entire region in the Horn of Africa in the East African Rift compared with a point in the Benguela region along South Africa's West Coast, looking at chlorophyll-a concentrations (mg/m³).