

# AS205:Ocean Dynamics(Assignment 1)

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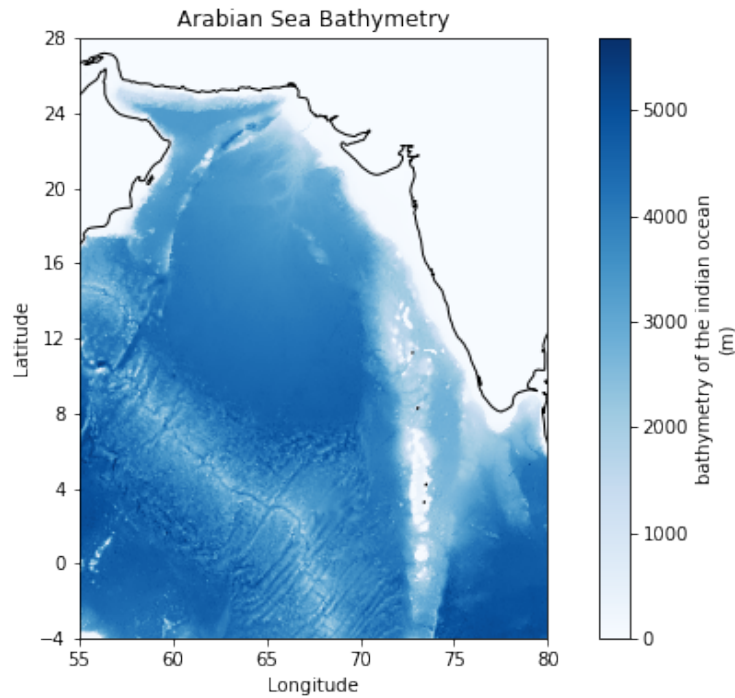
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## 1 Bathymetry of North Indian Ocean

We describe the bathymetric features of the North Indian Ocean specifically the Arabian Sea and the Bay of Bengal. We use the ETOPO dataset.

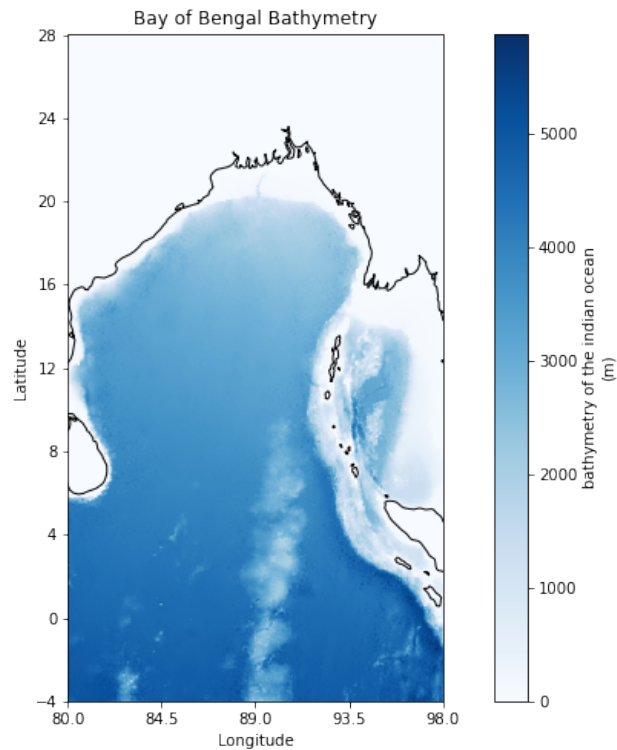
## 2 North Indian Ocean

### 2.1 Arabian Sea



- The Arabian Sea is the western marginal sea of the North Indian Ocean.
- It is enclosed by the Indian subcontinent in the east and Africa in the west.
- The Gulf of Eden and Gulf of Suez are located to the west of Arabian Sea.
- The Mid-ocean ridge runs in the North-West to South-East direction in the middle of the Arabian Sea.
- The continental shelf of Indian subcontinent is a prominent feature in the east.
- The Lakshadweep island shelf is also prominent, located South-West of India. It is also a part of the Chagos-Laccadive ridge.

## 2.2 Bay of Bengal



- The Bay of Bengal is the eastern marginal sea of the North Indian Ocean.
- It is enclosed by India to the west and the Indochinese peninsula.
- It is connected to the Pacific Ocean to the east by Strait of Malaga near the Andaman Sea.
- The eastern side has more prominent continental shelf than the western side.
- The interior of the Bay of Bengal has nearly uniform abyssal depth of roughly around 4000-5000m.
- The ninety-east ridge is located in the southern Bay of Bengal around 89.0 E longitude and reaching upto 4 N latitude.