

It - accelerated warming in recent yrs. Discuss Env. & Socio-eo. impacts.

India-Ocean is the warmest big thing on the world. This now threatened by ~~un~~ increased warming causing damage across different fronts.

Accelerated warming

* The average sea-surface temperature has increased to 28°C.

* The ocean is warming at a rate of 1.8°C to 3.8°C / decade from 2020-2100,

* The number of marine heatwave events to see a rise from 20 / year to 220 to 250 / year

This will have unprecedented impacts across domains.

Environment stripped

The warming of ~~Indian~~ ocean

will take a toll on the coastal reef ecosystem, help forests and secured cultivation.

The warm ocean will be a conducive centre for the formation of destructive tropical cyclones.

Social Impact

Indian ocean borders 40 countries.

The thermal expansion caused by the ocean can submerge the low lying areas.

It will result in erratic south west monsoon and reduced fish catch.

Economic Impact

Destruction of infrastructure along the coast in the event of strong cyclones. The secondary infrastructure damages crops.

A co-ordinate approach to reduce emissions and build disaster resilient structures are the need of the hour.