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A1 Global warming refers to increase in global temperature due to increased Greenhouse Gas emissions, both from natural & anthropogenic sources.

It has negative impact on earth's ecosystems including corals. (marine organisms & polyp having symbiotic relation with algae).

⇒ Impacts of Global Warming on Corals:-

a) Coral Bleaching due to high sea temperature:-
There has been rising sea temperature due to global warming. Corals require temperature around 27°C for growth & sustenance. Ex. Bay of Bengal (Andaman & Nicobar islands), bleaching in Maldives.

b) Extreme events:- Increase in its intensity causing heavy ~~rain~~ rainfall & severe cyclones which damage corals. Corals don't grow in freshwater

c) Rise in sea level:- Corals grow upto the limit where there is adequate sunlight (for photosynthesis). Rising sea levels causing bleaching of corals at bottom.

d) Ocean Acidification :- Due to increased CO_2 emissions, there has been increased uptake of CO_2 by water (ocean), leading to formation of carbonic acid.

- Acidification causing mass coral bleaching. Ex. Great Barrier Reef in Australia, due to high CO_2 emissions from coal there.

The need of the hour is global cooperation & coordination to limit global emissions, by strictly following INDCs & abiding to Paris Climate Change Agreement.
If done effectively, corals can be restored back.