

Mangrove ecosystems at risk

As half of the world's mangrove ecosystems teeter on the brink of collapse, a recent study by the International Union for Conservation of Nature issues a sobering wake-up call

ALF of the world's mangrove ecosystems are at risk of collapse due to climate change, deforestation and pollution, according to a study published recently.

The International Union for Conservation of Nature (IUCN), known for its red list of threatened species, has, for the first time, taken stock of the world's mangroves, evaluating 36 different regions.

IUCN director-general Grethel Aguilar said the assessment "highlights the urgent need for coordinated conservation of mangroves — crucial habitats for millions in vulnerable communities worldwide".

Mangroves are trees or shrubs that grow mainly in seawater or brackish

water along coastlines and tidal rivers, in equatorial climes.

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Released on the International Day for Biodiversity, IUCN said its findings show that "50 per cent of the mangrove ecosystems assessed are worryingly at risk of collapse" — categorised as either vulnerable, endangered or critically endangered.

According to the assessment, at least 20 per cent were already at severe risk of collapse.

Mangroves are threatened by deforestation, development, pollution, and dam construction. However, the risk is increasing because of the rise in sea levels, as well as the greater frequency of severe storms, which are associated with climate change.

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Disastrous for Man and nature

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ALARMING OUTCOME

Around 15 per cent of the world's coasts are covered by mangroves, which is roughly a blanket of about 150,000 square kilometres. Climate change threatens a third of mangrove ecosystems assessed, due to rising sea levels.

According to estimates, the way things are going at the current rate, at least a quarter of the global area of mangroves is expected to be submerged in the next 50 years. ILICN said

The northwest Atlantic Ocean, the northern Indian Ocean, the Red Sea, the South China Sea, and the Gulf of Aden coasts are expected to be particularly severely affected.

"Mangrove ecosystems are exceptional in their ability to provide essential services to people, including coastal disaster risk reduction, carbon storage and sequestration, and support for fisheries," said Angela Andrade, their of the IUCN commission on ecosystem management, adding solemnty. "Their loss stands to be disastrous for nature and people across the clothe."

CALL FOR ACTION

The study said looking after mangroves was essential for mitigating the effects of climate change, with healthy ecosystems coping better with sea-level rise and providing inland protection from the effects of sovere shows.

Without significant improvement by 2050, climate change and rising sea levels will lead to the loss of 1.8 billion tonnes of carbon stored in mangroves.

Mangroves currently store nearly 11 billion tonnes of carbon — almost three times the amount of carbon stored by tropical forests of the same size.

Maintaining good sediment circulation and allowing mangroves to expand inland will help them cope with sea-level rise, according to IUCN.

It also called for the restoration of mangroves which have already disappeared.











