

Protecting Sea Turtles

What is the issue?

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The rising death toll of sea turtles call for integrated conservation measures to protect the protectors of marine ecosystem.

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How diverse are sea turtles in India?

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• There are five species of sea turtles in Indian waters:

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- 1. Leatherback

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- 2. Loggerhead \n
- 3. Hawksbill
- ∖n 4. Green

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5. Olive Ridley

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- The turtle breeding season is usually between November and December. \slashn
- E.g. Olive Ridley nests between December and April along the Chennai-Kancheepuram coastline in Tamil Nadu.
- The eastern coastline is the feeding area for Olive Ridley, juvenile Hawksbills and Green turtles.

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 Off-shore waters are also migratory routes for the Olive Ridley while moving towards beaches in Andhra Pradesh and Odisha.
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What is the significance?

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- Sea turtles, especially the leatherback, keep jellyfish under control. \n
- The Green turtle feeds on sea grass beds.

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• Turtle populations could improve **seagrass ecosystem** health by removing

seagrass biomass and preventing sediment formation.

- By cropping the grass, they provide a nursery for numerous species of fish, shellfish and crustaceans.
- The Hawksbill feeds on sponges in the coral reef ecosystem and opens up crevices for other marine life to live in. \n
- Turtles are also transporters of nutrients and energy to coastal areas. \n
- Unhatched eggs, eggshells and fluids help foster decomposers and create much needed **fertilizer** in sandy beaches.
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What are the threats?

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- In India, sea turtles are protected under the Indian Wildlife Protection Act of 1972, under the Schedule I Part II.
- Despite this legal protection they face grave threats. $\ensuremath{\sc n}$
- By catch is one such example, which is the name given to ocean animals that are unintentionally caught by fishing gear. $\$
- Notably, high number of dead turtles washing up ashore is recorded each year.

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- Thousands of sea turtles are accidentally captured, injured or killed. $\space{\space{1.5}n}$
- The mechanised boats, trawl nets and gill nets operated and used by commercial fishermen are the major causes. \n
- The heavy toll of injuries and deaths occurs when turtles begin migrating. $\ensuremath{\sc n}$
- It could be to their nesting grounds on beaches or fishing areas that are their feeding grounds.

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How are the protective measures working?

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- Limits Under current regulations, mechanised trawl boats have operation limitations ranging from 5 to 8 kms in different states. \n
- They include Andhra Pradesh, Tamil Nadu and Odisha. \n
- There are also limitations on use of nets, especially those designed for bigger ones like ray fish, during the turtle breeding season.
- However, the enforcement and monitoring of these limits and regulations are weak.

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- **TEDs** Turtle Excluder Devices (TEDs) are two-dimensional net inserts with large escape openings for turtles. \n
- By law, trawlers meant for shrimp fishing are required to be fitted with TEDs, in India.

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- If used correctly, TEDs have been found to reduce turtle captures by 90%; but the practice is very less. \n
- Closed Seasons There are closed seasons for certain types of fishing vessels, at different times in different states.
- Trawlers and motorised craft with an engine output greater than 25 hp are banned during this period.

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- Unfortunately, none of these closed seasons takes into account the sea turtle nesting season that falls between January and April. \n

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What is the way forward?

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- Declining turtle populations in general, signify the declining role of turtles in maintaining the health of the marine ecosystem. \n
- Integrated conservation measures are needed to rebuild their populations to healthy levels.
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- Proper law enforcement and monitoring by the respective fisheries

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departments, marine police and Indian Coast Guard are essential. \n

- All trawl boats should be fitted with a vessel monitoring system traceable by the Coast Guard.
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- Areas where sea turtles forage and congregate need to be identified. $\space{\space{1.5}n}$
- Additional seasonal closures need to be implemented within these areas. $\ensuremath{\sc n}$
- Ongoing work to have new fishing nets and gear that reduce the amount of bycatch while fishing should be encouraged further. \n

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Source: The Hindu

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