

# **Mass Nesting of Olive Ridley Turtles**

**Source: DTE** 

### Why in News?

The <u>Olive Ridley turtles</u> are expected to return in large numbers to the **Rushikulya River mouth in Odisha** for their <u>mass nesting</u>, a vital occurrence for the conservation of this species.



## What are Key Facts About Olive Ridley Turtles?

- Scientific Classification:
  - Scientific Name: Lepidochelys olivacea
  - Class: Reptilia
  - Family: Cheloniidae
- Appearance: Olive ridley turtles are an olive or grayish-green with a heart-shaped carapace (top shell).
  - They closely resemble **Kemp's ridleys** (primarily found in the Gulf of Mexico) and are the **smallest sea turtles.** Their size and shape vary by region, with the largest found in West Africa.
- Habitat and Distribution: Found in the tropical regions of the <u>Pacific, Indian</u>, and <u>Atlantic</u>
   Oceans. Inhabits both pelagic (open ocean) and coastal waters.
  - Major nesting sites in India: Rushikulya, Gahirmatha, Devi River mouth in Odisha, and the Andaman Islands.
    - Gahirmatha marine sanctuary is recognised as the largest known mass

nesting rookery for Olive Ridley sea turtles in the world.



- Reproduction: Olive ridley turtles are famous for arribada (Spanish for "arrival"), a unique mass nesting behavior where thousands of females nest simultaneously.
  - From September, they travel 9,000 km from the Pacific to the Indian seas. After mating, males retreat, and females nest from December to March.
    - Females nest 1-3 times per season, laying around 100 eggs per clutch.
    - The sex of hatchlings is determined by nest temperature.
- Diet and Behavior: Like all sea turtle species, except the herbivorous Green
  Turtle, the Olive Ridley is an omnivore, eating jellyfish, snails, crabs, prawns, algae, and small
  fish.
  - Migrate long distances between feeding and nesting sites.
- Protection Status:
  - Wildlife Protection Act, 1972: Schedule 1
  - **IUCN Red List:** Vulnerable
  - CITES: Appendix I
- Threats: Bycatch in fishing gear (trawls, gillnets, longlines).
  - Poaching and egg harvesting for human consumption.
  - Habitat loss from coastal development, plastic ingestion, and marine pollution, along with rising temperatures and sea levels, threaten olive ridley turtles by disrupting nesting sites and food sources.
- Conservation Initiatives:
  - Operation Olivia: <u>Indian Coast Guard</u> initiative (since the 1980s) to protect nesting turtles and prevent illegal trawling.
  - **Turtle Excluder Devices (TEDs)**: Odisha mandates TEDs in trawls(cone-shaped net) to prevent accidental deaths.
  - **Tagging**: Olive Ridley turtles are tagged with non-corrosive metal tags to track their movements and safeguard their habitats.

#### Note:

Indian biologist **Shailendra Singh** has been honored with the <u>Behler Turtle Conservation Award</u> (considered as the the "<u>Nobel Prize</u>" of turtle conservation) for saving **three critically endangered turtle species** (<u>Northern River Terrapin</u>, <u>Red-crowned Roofed Turtle</u>) <u>Black Softshell Turtle</u>)

from extinction.



## Rushikulya River

- The Rushikulya River originates from the Rushyamala hills in the Eastern Ghats, Kandhamal district, Odisha and flows southeast into the **Bay of Bengal.** 
  - Its prominent tributaries include Padma, Boringanalla, Joro, Badanadi, Baghua,
     Dhanei, and Ghodhado. The river has no delta at its mouth.

**UPSC Civil Services Examination, Previous Year Questions (PYQs)** 

#### **Prelims**

### Q. Which one of the following is the national aquatic animal of India? (2015)

- (a) Saltwater crocodile
- (b) Olive ridley turtle
- (c) Gangetic dolphin
- (d) Gharial

Ans: C

### Q. Consider the following statements: (2019)

- 1. Some species of turtles are herbivores.
- 2. Some species of fish are herbivores.
- 3. Some species of marine mammals are herbivores.
- 4. Some species of snakes are viviparous.

## Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 2, 3 and 4 only
- (c) 2 and 4 only
- (d) 1, 2, 3 and 4

Ans: (d)

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