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Science Reporter June 2026 - Game-Changer Environmental Technologies

1 June 2026 ·

SCIENCE & TECH

ENVIRONMENT

GS1

GS3

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Science Reporter June 2026 - Game-Changer Environmental Technologies



Science Reporter

June 2026 (Vol 63, No. 6)

GS1

GS3



Science Reporter

CSIR · Monthly

EDITION

June 2026 (Vol 63, No. 6)

MAINS:

GS Paper 1

GS Paper 3

Science Reporter's June 2026 issue (CSIR-NIScPR, Vol 63) is a World Environment Day issue led by “**Game-Changer Environmental Technologies**” by Shakunt Pandey, with the highest-yield UPSC feature being INCOIS's upgraded ocean-information app, plus pieces on ocean health, earthworms, bird magneto-navigation, threatened trees and nuclear winter.

ARTICLES IN THIS ISSUE

- ❶ **Game-Changer Environmental Technologies** (lead feature) - the tech toolkit for restoration and monitoring
- ❷ **Healthy Oceans for our Healthy Future** - ocean health and the blue economy
- ❸ **Unsung Warriors of Mankind: The Vital Role of Earthworms** - soil regeneration
- ❹ **The Winged Magneto-navigators** - how birds use Earth's magnetic field
- ❺ **INCOIS Navigates the Oceans with a Revolutionary App** - the SAMUDRA 2.0 platform
- ❻ **Ecology and Conservation of Paris polyphylla** - a threatened Himalayan medicinal herb
- ❼ **Nuclear Winter: An Emerging Apocalypse** - climatic effects of nuclear war
- ❽ **Remembering Rachel Carson** - the patron saint of the environmental movement
- ❾ Plus: silent trees on the brink, glowworm predation, carnivorous-plants quiz

KEY CONCEPTS

TERM	MEANING
INCOIS	Indian National Centre for Ocean Information Services, under the Ministry of Earth Sciences, Hyderabad
SAMUDRA app / PFZ	INCOIS ocean-alert platform; Potential Fishing Zone advisories guide fishermen
SIVAS	Swell-Surge Inundation Vulnerability Advisory System (Kerala pilot)
Magnetoreception	Animals sensing Earth's magnetic field for navigation
Paris polyphylla	Himalayan medicinal herb (Satuwa) with steroidal saponins
Nuclear winter	Global cooling from stratospheric soot after nuclear firestorms
Silent Spring (1962)	Rachel Carson's book on DDT that launched modern environmentalism

PRELIMS POINTERS

- World Environment Day: June 5; World Day of the Oceans: June 8
- INCOIS is under the Ministry of Earth Sciences, Hyderabad, and hosts the Indian Tsunami Early Warning Centre
- SAMUDRA 2.0 (2026) is available in eight coastal languages and adds tuna advisories and small-vessel alerts
- PFZ advisories direct fishermen to fish-aggregation zones, saving fuel and time
- Rachel Carson's Silent Spring (1962) targeted DDT and spurred the US EPA's creation
- Migratory birds use magnetoreception (cryptochrome proteins and magnetite)

UPSC GS RELEVANCE

- **GS3:** environmental technology, ocean services and disaster management, biodiversity
- **GS1:** geography (oceans, blue economy)

1 Chapters in this Edition

1

INCOIS and the SAMUDRA App: Ocean Intelligence for 8 Lakh Fishers



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