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MAGAZINE NOTES

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

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

 **Science Reporter** Chapter 1 · 2 min read ·

Published: Science Reporter, June 2026 (Indian S&T Breakthroughs feature)

The June issue’s most exam-relevant feature profiles **INCOIS** (Indian National Centre for Ocean Information Services), the Hyderabad-based autonomous body under the **Ministry of Earth Sciences**, and its upgraded **SAMUDRA** mobile platform that turns ocean science into a daily tool for coastal communities.

WHAT SAMUDRA 2.0 DELIVERS

SERVICE	WHAT IT DOES
Hazard alerts	Real-time tsunami, storm surge, high wave and swell-surge warnings
Potential Fishing Zone (PFZ) advisories	Guides fishermen to fish-aggregation zones, cutting fuel and search time
Tuna advisories	Added in SAMUDRA 2.0 for deep-sea fishers
Small-vessel alerts	Safety warnings calibrated for smaller boats

The 2026 upgrade is available in **eight coastal languages** and serves roughly **8 lakh fishermen and coastal stakeholders**.

THE WIDER INCOIS STACK

- **ITEWS** (Indian Tsunami Early Warning Centre), hosted at INCOIS, is a Regional Tsunami Service Provider for the Indian Ocean, serving 25+ nations
- **SIVAS** (Swell-Surge Inundation Vulnerability Advisory System), piloted for the Kerala coast, forecasts the “kallakkadal” swell-surge floods that strike without local weather warning
- **JellyAIIP**, a jellyfish-aggregation portal, helps fishers and coastal power plants avoid swarms

MAINS ANGLE

Why it matters: INCOIS is a case study in science-as-public-service: the same physical oceanography that powers tsunami warnings also raises fisher incomes through PFZ advisories, linking disaster management, the blue economy and livelihood security. **Way forward:** integrate SAMUDRA with the fishers’ KCC and

insurance rails so a swell-surge alert can trigger a no-go-day compensation, and extend SIVAS beyond Kerala to the full kallakkadal-prone coast.

★ FACTS CORNER — KNOWLEDGE PEDIA

INCOIS:

Indian National Centre for Ocean Information Services; Ministry of Earth Sciences; Hyderabad

Hosts the Indian Tsunami Early Warning Centre (ITEWS), a Regional Tsunami Service Provider

PLATFORMS:

SAMUDRA 2.0 (2026): hazard alerts + PFZ + tuna + small-vessel alerts; 8 coastal languages; ~8 lakh users

SIVAS: swell-surge (kallakkadal) advisory, Kerala pilot; JellyAIIP: jellyfish aggregation

World Environment Day June 5; World Day of the Oceans June 8

Sources: [Science Reporter / CSIR-NIScPR](#), [INCOIS](#)



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