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Environment

Estimation of Carbon Stock in Mangrove Eco-system

- **Conducted by –** *Forest Survey of India (FSI)* under Ministry of Environment, Forest and Climate Change.
- **Coverage –** Across *all 12 states and Union Territories* where mangrove forests are found.
- **Significance –** It aids in planning of *Mangrove Initiative for Shoreline Habitats & Tangible Incomes (MISHTI) scheme*.

Mangrove Initiative for Shoreline Habitats & Tangible Incomes (MISHTI) scheme

- **Launched on –** 5th June, 2023 on the occasion of World Environment Day by *Ministry of Environment, Forest & Climate Change.*
- **Aim –** To envisage the restoration of mangroves spreading *across 9 states and 3 union territories.*
- **Time period –** 5 years commencing 2023-24 onwards.
- **Primary focus –** *Sundarbans delta, Hooghly estuary* in West Bengal, and other bay parts of the country.
- **Financial assistance –** To local communities to undertake mangrove plantation activities.

Ban On Import of Waste Tyres

- **Notified under –** Hazardous and Other Wastes (Management and Transboundary Movement) (HOWM) Rules, 2016, Environment (Protection) Act, 1986.
- **Nodal ministry –** Ministry of Environment, Forest and Climate Change.
- **Aim –** To ensure safe storage, treatment and disposal of hazardous and other wastes in an environmentally sound manner.

Security

Expansion of NavIC-based Early Warning System

- Navigation with Indian Constellation (NavIC) based early warning services for major natural disasters.
- **Nodal Ministry –** Ministry of Earth Sciences.
- **Operationalised under –** Common Alerting Protocol Based Integrated Alert System (SACHET).
- **Coverage –** Indian Territory and surrounding *1500 km of Indian borders.*

SACHET National Disaster Alert Portal

- **Aim –** *Real-time dissemination of early warning* through multiple means of technology using geo-intelligence.
- **Administered by –** National Disaster Management Authority(NDMA).
- **Languages –** Currently available 12 Indian languages.
- **Recognized by –** India Meteorological Department, Central Water Commission, Indian National Centre for Ocean Information Services, Defence Geoinformatics Research Establishment, Forest Survey of India & various State Disaster Management Authorities.

C-Flood Unified Inundation Forecasting System

- It is a *web-based C-Flood platform*.
- **Launched by –** Ministry of Jal Shakti.
- **Aim –** To provide *2 days advance inundation forecasts* up to village level in the form of inundation maps and water level predictions.
- **Features –** Advanced *2D hydrodynamic modelling* with extent and depth information.
- *Unified inundation information system* integrating flood modelling outputs from national and regional agencies for all river basins.
- **3 categories of flood alerts –** *Yellow, Orange and Red* based on the inundation depth.

Science

Exploration of Polymetallic Nodules (PMN)

- **PMN –** It is also called manganese nodules, are rock concretions formed of concentric layers of *iron and manganese hydroxides* around a core.
- It encompasses precious metals like *copper, nickel and cobalt*.
- **Signed in –** 2002, in the *Central Indian Ocean Basin.*
- **Signed between –** Ministry of Earth Sciences (MoES), India with International Seabed Authority (ISA).

Exploration of Polymetallic Sulphides (PMS)

- PMS deposits are rich sources of metals such as *copper, zinc, iron, gold, and silver,* found on the ocean floor.
- **Formation –** These deposits occur in regions where *hot, mineral-rich fluids* from the Earth's mantle are expelled into the ocean, leading to the precipitation of metal sulphides.
- **Signed in** – 2016, in an allocated area of 10,000 sq. km. in *South-West Indian Ocean Ridge*.
- **Signed between –** Ministry of Earth Sciences (MoES) with International Seabed Authority (ISA).

Li-Ion Battery Recycling Technology

- **Indigenously developed by –** Centre for Material for Electronics Technology (C-MET).
- **Nodal ministry –** Ministry of Electronics and Information Technology (MeitY).
- **Umbrella programme –** Mission Lifestyle for the Environment (LiFE) under the "Promote circularity campaign."

Miscellaneous

Mission Mausam vs Project Mausam

Mission Mausam	Project Mausam
Launched in – 2025, by Ministry of Earth Sciences	**Launched in –** 2014, by Ministry of Culture
Aim – To make "weather-ready and climate-smart" nation. To know more click here.	**Aim –** To revitalize cultural link and maritime history of Indian ocean.

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