

## UPSC Daily Current Affairs| One Liners 25-08-2025

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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** - 5<sup>th</sup> 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

<b>Mission Mausam</b>	<b>Project Mausam</b>
<b>Launched in</b> - 2025, by Ministry of Earth Sciences	<b>Launched in</b> - 2014, by Ministry of Culture
<b>Aim</b> - To make "weather-ready and climate-smart" nation. To know more click <a href="#">here</a> .	<b>Aim</b> - To revitalize cultural link and maritime history of Indian ocean.