



मराठी

29 June 2024

National and International News

<p><b>Rhisotope Project</b></p>	<p><b>Why in the news?</b></p> <ul style="list-style-type: none"><li>● <b>South African scientists</b> have <b>injected radioactive material</b> into <b>live rhinoceros horns</b> as part of the <b>Rhisotope Project</b> to help curb poaching.</li></ul> <p><b>About Rhisotope Project:</b></p> <ul style="list-style-type: none"><li>● <b>Initiation:</b> The project started in <b>2021</b> in <b>South Africa</b>.</li><li>● <b>Objective:</b> To <b>make rhinoceros horns easier to detect at border posts</b> and render them useless for human consumption.</li><li>● <b>Implementation:</b><ul style="list-style-type: none"><li>○ <b>Two tiny radioactive chips</b> are inserted into the horns of 20 rhinos.</li><li>○ The <b>low-dose radioactive material is detectable by radiation sensors</b> at international borders without harming the animals or the environment.</li></ul></li><li>● <b>Duration:</b> The radioactive material lasts for five years, offering a cost-effective solution compared to dehorning every 18 months.</li><li>● <b>Context:</b> <b>South Africa</b>, home to the <b>majority of the world's rhinos</b>, is <b>battling a poaching crisis</b> driven by demand from Asia for traditional medicine.</li></ul>
<p><b>Bhuvan Panchayat (Ver. 4.0) and National Database for Emergency Management (NDEM Ver. 5.0)</b></p>	<p><b>Why in the news?</b></p> <ul style="list-style-type: none"><li>● The <b>Union Minister of State (Independent Charge) for Science and Technology</b> will launch <b>two geoportals: Bhuvan Panchayat (Ver. 4.0)</b> and the <b>National Database for Emergency Management (NDEM Ver. 5.0)</b>.</li></ul> <p><b>About Bhuvan Panchayat (Ver. 4.0):</b></p> <ul style="list-style-type: none"><li>● <b>Platform Purpose:</b> An <b>online geospatial data and services dissemination platform</b> supporting the integration and <b>utilization of space-based information in governance</b> and research initiatives, including spatial <b>planning up to the Gram Panchayat level</b>.</li><li>● <b>Developed By:</b> This WebGIS platform is developed by <b>National Remote Sensing Centre (NRSC), ISRO</b>.</li></ul>



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	<p><b>About NDEM Ver. 5.0:</b></p> <ul style="list-style-type: none"><li>● Provides a comprehensive, uniform, multi-scale geospatial database for the entire country for situational assessment and effective decision-making during disasters/emergency situations.</li><li>● Acts as a national-level geo-portal offering space-based information, combined with DSS tools and services from disaster forecasting organizations, to address all natural disasters in all phases for effective Disaster Risk Reduction.</li><li>● Functions as a Disaster Recovery and Data Provider node for the Integrated Control Room for Emergency Response (ICR-ER) being established by the Ministry of Home Affairs (MHA).</li></ul>
<p>NASA's Juno probe</p>	<p><b>Why in the news?</b></p> <ul style="list-style-type: none"><li>● NASA's Juno probe has made new findings about Jupiter's moon Io.</li><li>● These findings provide a more comprehensive view of the distribution of lava lakes on Io.</li><li>● The research highlights the extensive presence of lava lakes across the moon's surface.</li></ul> <p><b>About NASA's Juno probe:</b></p> <ul style="list-style-type: none"><li>● <b>Acronym:</b> JUNO stands for Jupiter Near-Polar Orbiter.</li><li>● <b>Type:</b> NASA spacecraft designed to orbit Jupiter.</li><li>● <b>Launch Details:</b> Launched by Atlas V rocket.</li><li>● <b>Date:</b> August 5, 2011.</li><li>● <b>Main Goal:</b> Understand Jupiter's origins and its changes over time.</li><li>● <b>Mission Details:</b><ul style="list-style-type: none"><li>○ Probing beneath Jupiter's dense clouds.</li><li>○ First orbiter to closely observe Jupiter's poles.</li><li>○ Solar-powered spacecraft.</li></ul></li><li>● <b>Exploring Jupiter's moons:</b> Ganymede, Europa, and Io.</li></ul>



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ADDAPEDIA

## Daily Current Affairs Encyclopedia

### ABHYAS

#### Why in the news?

- The **Defence Research and Development Organisation (DRDO)** recently **completed** six consecutive **developmental trials of the High-Speed Expendable Aerial Target (HEAT) 'ABHYAS'** in Chandipur, Odisha.

#### About ABHYAS:

- **Design and Development:**
  - **Designed by DRDO's** Aeronautical Development Establishment, Bengaluru.
  - **Developed through Production Agencies: Hindustan Aeronautics Limited and Larsen & Toubro.**
- **Features:**
  - **Provides a realistic threat scenario** for weapon systems practice.
  - **Autonomous flying capability** with autopilot.
  - **Records data during flight for post-flight analysis.**
- **Components:**
  - Booster designed by Advanced Systems Laboratory.
  - Navigation system by Research Centre Imarat.



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### Mainland serow



### Why in the news?

- A team of scientists recorded a **lone mainland serow (Capricornis sumatraensis thar)** at an elevation of 96 metres above mean sea level in **Raimona National Park**, western **Assam**.

### About Mainland serow:

- **Mammal Characteristics:** Appears between a goat and an antelope.
- **Habitat:**
  - **Altitudes:** 200-3,000 metres.
  - **Distribution:** Across the **India-Bhutan border** in **Phibsoo Wildlife Sanctuary** and the **Royal Manas National Park** in the Himalayan region.
- **Species:**
  - Mainland serow.
  - Japanese serow.
  - Red serow (found in eastern India, Bangladesh, and Myanmar).
  - Taiwan or Formosan serow.
- **Conservation Status:**
  - **IUCN:** **Vulnerable**.
  - **CITES:** Appendix I.

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