



28 June 2024

National and International News

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



	<p>Reduction.</p> <ul style="list-style-type: none"> • 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).
NASA's Juno probe	<p>Why in the news?</p> <ul style="list-style-type: none"> • NASA's Juno probe has made new findings about Jupiter's moon Io. • These findings provide a more comprehensive view of the distribution of lava lakes on Io. • The research highlights the extensive presence of lava lakes across the moon's surface. <p>About NASA's Juno probe:</p> <ul style="list-style-type: none"> • Acronym: JUNO stands for Jupiter Near-Polar Orbiter. • Type: NASA spacecraft designed to orbit Jupiter. • Launch Details: Launched by Atlas V rocket. • Date: August 5, 2011. • Main Goal: Understand Jupiter's origins and its changes over time. • Mission Details: <ul style="list-style-type: none"> ○ Probing beneath Jupiter's dense clouds. ○ First orbiter to closely observe Jupiter's poles. ○ Solar-powered spacecraft. • Exploring Jupiter's moons: Ganymede, Europa, and Io.
ABHYAS	<p>Why in the news?</p> <ul style="list-style-type: none"> • 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. <p>About ABHYAS:</p> <ul style="list-style-type: none"> • Design and Development: <ul style="list-style-type: none"> ○ Designed by DRDO's Aeronautical Development Establishment, Bengaluru. ○ Developed through Production Agencies: Hindustan Aeronautics Limited and Larsen & Toubro. • Features: <ul style="list-style-type: none"> ○ Provides a realistic threat scenario for weapon systems practice. ○ Autonomous flying capability with autopilot. ○ Records data during flight for post-flight analysis. • Components: <ul style="list-style-type: none"> ○ Booster designed by Advanced Systems Laboratory. ○ Navigation system by Research Centre Imarat.
Mainland serow	<p>Why in the news?</p> <ul style="list-style-type: none"> • A team of scientists recorded a lone mainland serow



Daily Current Affairs Encyclopedia



(*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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