



#### **06 December 2023**

#### **National and International News**

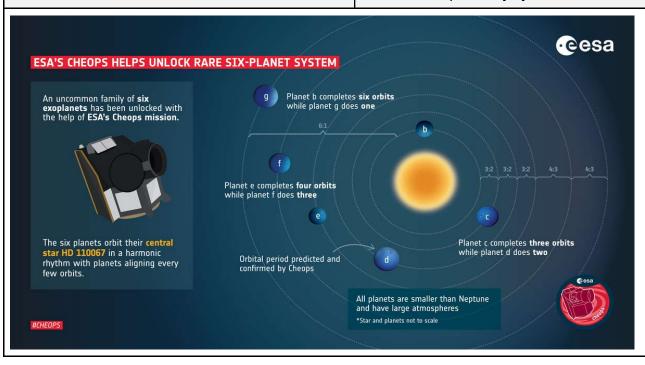
## Six exoplanets found orbiting a nearby bright star

#### Context

 Six exoplanets orbiting around a nearby bright star (HD 110067) in the Coma Berenices constellation has been discovered.

#### **Key points**

- HD 110067 is the bright star in the Coma Berenices constellation (around 100 light-years away), which is visible from Earth's Northern Hemisphere
- The masses of the planets and estimated densities are relatively low
- The low densities could be explained by large, hydrogen-rich atmospheres.
- All six planets are in resonant orbits, in which the planets exert regular forces on each other as they orbit
- This feature suggests that the system remains practically unchanged since its birth, at least four billion years ago.
- Scientific Significance: Enhances understanding of exoplanetary systems.



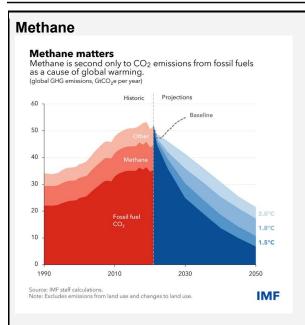




Visa-free entry to Indian citizens	<ul> <li>Malaysia has become the latest country to extend the advantage of visa-free travel to Indian citizens.</li> <li>The facility will be extended to Indian travellers till December 31, 2024 and will be valid for 30 days from the date of entry.</li> <li>Key points</li> <li>The initiative is aimed at ensuring hassle-free travel for Indians who have emerged as one of the major tourist groups visiting Malaysia in the recent past.</li> <li>At present there are around 26 countries that extend visa-free entry to Indian citizens for various reasons.</li> </ul>
One-third of all 2022 suicides were of daily wage earners, farmers, says NCRB report	Context India reported a total of over 1.7 lakh suicides in 2022, nearly one-third of whom were daily wage earners, agricultural labourers, and farmers, according to the National Crime Record Bureau's (NCRB) Accidental Deaths and Suicides in India (ADSI) 2022 report
	<ul> <li>The suicide data published in the ADSI-2022 report showed that the maximum suicides in the year were reported from Maharashtra (22,746), Tamil Nadu (19,834), Madhya Pradesh (15,386), Karnataka (13,606), Kerala (10,162), and Telangana (9,980).</li> <li>Apart from daily wage earners, and agricultural workers and farmers, the ADSI data showed that 9.6% of the suicides in 2022 were of persons who were self-employed or salaried professionals.</li> <li>This was followed by unemployed persons, who comprise 9.2% of all suicides reported in India in 2022.</li> <li>Among all suicides reported in the year, over 12,000 were of students.</li> </ul>







#### Context

At the ongoing COP-28 climate talks in the United Arab Emirates, a group of well-endowed philanthropic bodies, including the **Sequoia Climate Foundation and the Bezos Earth Fund**, announced that they would collectively invest **\$450 million in** solutions to tackle methane emissions.

#### **About**

- Methane is an organic compound.
- Its molecule consists of carbon and four hydrogen atoms (CH4).
- It's in the news of late because of its character as a potent climate pollutant.
- Methane has a greater global warming potential (GWP) than carbon dioxide.
- However, while carbon dioxide lasts for several decades at a time in the atmosphere before breaking down, methane breaks down in a matter of years. That is, it's a short-lived climate pollutant.
- Its sources include cattle-farming, landfills, wastewater treatment facilities, rice cultivation, and some industrial processes.

#### What is GWP?

- The GWP is a measure of the warming caused by a substance relative to that due to the same mass of carbon dioxide; the GWP100 measures this over a century at a time.
- If carbon dioxide has a GWP100 of 1, methane is 28, nitrous oxide is 265, and sulphur hexafluoride is 23,500.

#### **RS passes Post Office Bill**

#### Context

The Rajya Sabha passed the Post Office Bill, which repeals and replaces the **Post Office Act of 1898.** 

#### **Key points**

- The bill will ensure the effective functioning of the postal department as a messenger service and as a provider of banking facilities.
- **Section 9 of** the Bill gives the power to intercept, open or detain any item or deliver item to customs authority by the post office officials.
- The provisions empowering any officer to intercept, open or detain any postal item in the interest of the security of the State is also a concern that giving such a free hand to officers will harm the right to privacy.





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