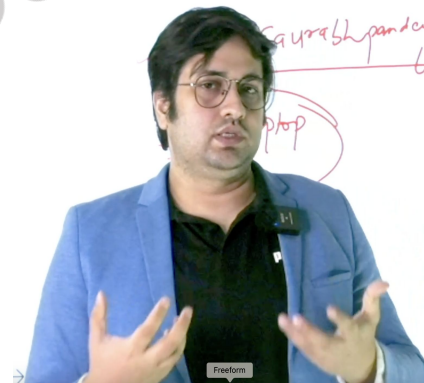


Topics - MINDS MAPS included (Daily current affairs 15th th March 2025



- CORONAL MASS EJECTION
- AVGC XR SECTOR
- UNCTAD:
- Mapping - GOLAN HEIGHT
- MAPPING - SUCHIATE RIVER
- MAINS



By saurabh Pandey



THE HINDU

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**By saurabh
pandey sir**

Aditya-L1 mission: scientists observe a flareless coronal mass ejection

Hemanth C.S.
BENGALURU

Scientists from the Indian Institute of Astrophysics (IIA) have reported observations of a flareless coronal mass ejection (CME) from the solar atmosphere with the Visible Emission Line Coronagraph (VELC) instrument onboard Aditya-L1 mission.

The Aditya-L1 mission is India's first scientific mission dedicated to studying the sun and the VELC payload was developed by the Bengaluru-based IIA.

Scientists associated with the IIA said that using the VELC payload, it was possible to observe the corona not only closer to where its base is located in the solar atmosphere, but also obtain data at shorter time intervals compared with other existing coronagraphs in orbit.

The VELC team ob-

served the onset of a CME that erupted from the sun on July 5, 2024, with no association to any flare.

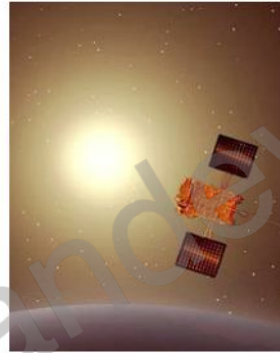
Magnetic instability

They said that the data obtained provide valuable clues to understand and differentiate the magnetic instabilities on the sun that causes the flares and the CMEs.

The results of the study will be appearing soon in the *Astrophysical Journal*, an international peer-reviewed scientific journal.

"Observation of CMEs as and when they originate on the sun and understanding their association with flares is one of the major science goals for VELC, and we are happy that the instrument is doing that," said R. Ramesh, senior professor at the IIA and the principal investigator for the VELC.

Prof. Ramesh added



The Aditya-L1 mission is India's first scientific mission dedicated to studying the sun.

that with the sun approaching the maximum phase of the current solar cycle 25, the CMEs are expected to occur frequently.

Closer monitoring

"Hence, uninterrupted monitoring of the sun with VELC for CMEs is expected to provide valuable data to the Indian and international scientific community. The unique design of VELC

helps to observe the CMEs close to the limb of the solar surface, and their onset time. These advantages facilitate better investigation of the association between CMEs and flares near the solar limb," Prof. Ramesh added.

Flares and CMEs are explosive events in the sun. They are due to magnetic reconnection during which magnetic field lines rearrange.

During a flare, energy is released primarily as electromagnetic radiation from the heated plasma. Compared with flares, the CMEs are massive eruptions of plasma and magnetic field weighing about trillion kilograms that race outwards from the sun through the interplanetary space at speeds up to 3,000 kilometres per second. The association between flares and CMEs is ambiguous till date.

CORONAL MASS EJECTION

Why in NEWS??

☀️ **Aditya-L1 Mission:** India's first scientific mission dedicated to studying the sun, utilizing the VELC instrument developed by the Indian Institute of Astrophysics (IIA).

🔭 **VELC Instrument:** The Visible Emission Line Coronagraph (VELC) allows for closer observation of the solar corona and provides data at shorter intervals than existing coronagraphs.

🌌 **CME Observation:** A coronal mass ejection (CME) was observed on July 5, 2024, with no associated solar flare, highlighting the instrument's capabilities.

⚡ **Magnetic Instabilities:** The data collected helps differentiate between magnetic instabilities that cause flares and CMEs, contributing to a better understanding of solar phenomena.

ANATOMY OF THE SUN

Sunspots

Darker, cooler areas on the photosphere with concentrations of magnetic field

Prominence

Large structure, often many thousands of kilometres in extent

Granulation

Small, short-lived grainy features that cover the Sun, caused by thermal currents rising from below

Chromosphere

Layer above the photosphere, where the density of plasma drops dramatically

Photosphere

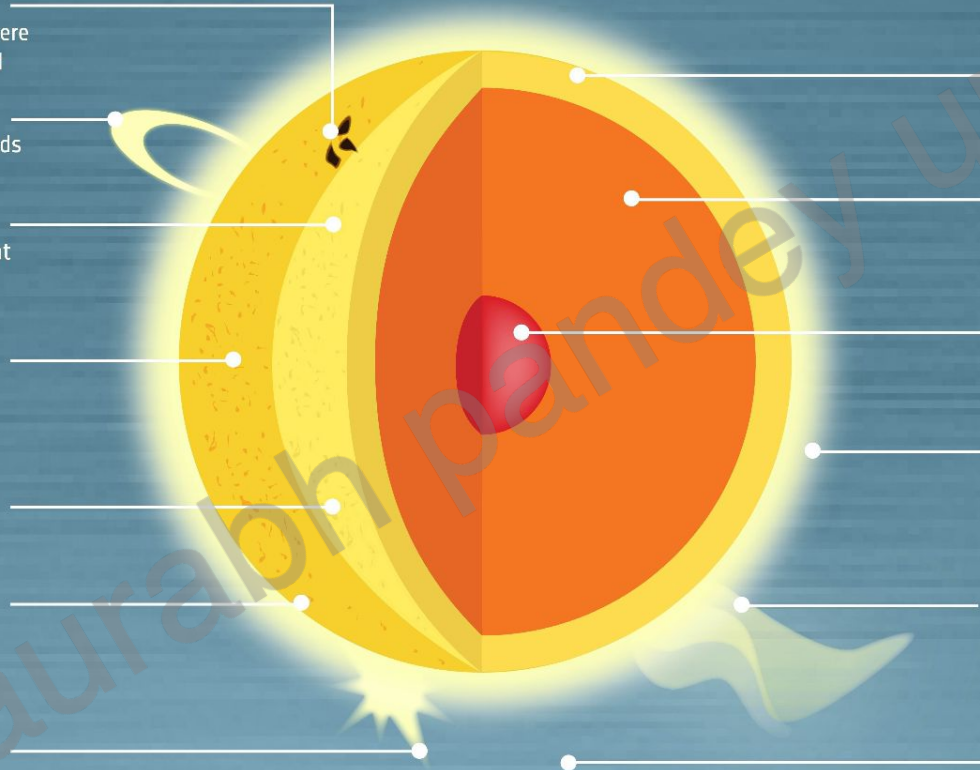
The visible 'surface' of the Sun

Transition region

Thin, irregular layer that separates the relatively cool chromosphere from the much hotter corona

Flare

Sudden release of energy in the form of radiation



Convective zone

Rapid heating of plasma creates currents of heated and cooled gas

Radiative zone

Energy created in the core diffuses slowly through the plasma

Core

Where the Sun generates its energy via thermonuclear reactions

Corona

The Sun's outer atmosphere, which extends millions of kilometres into outer space

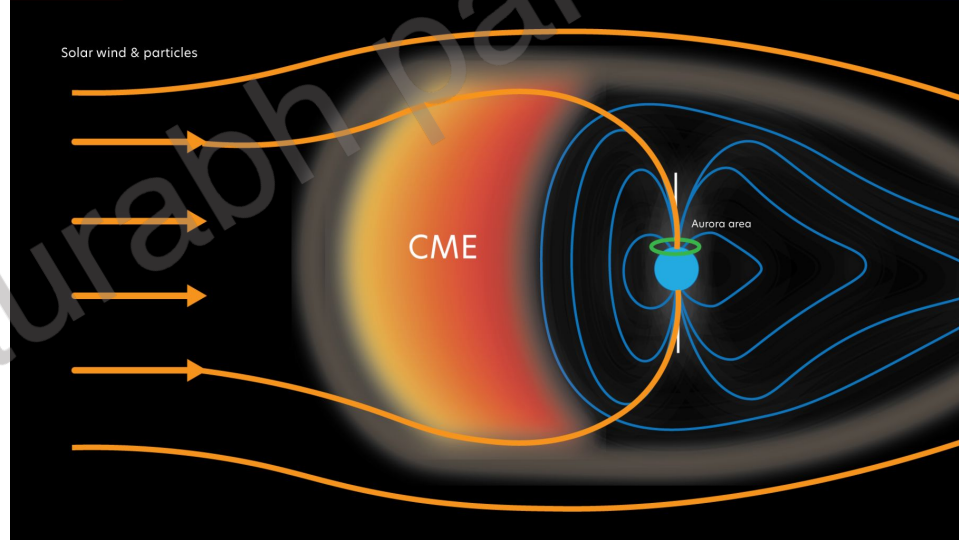
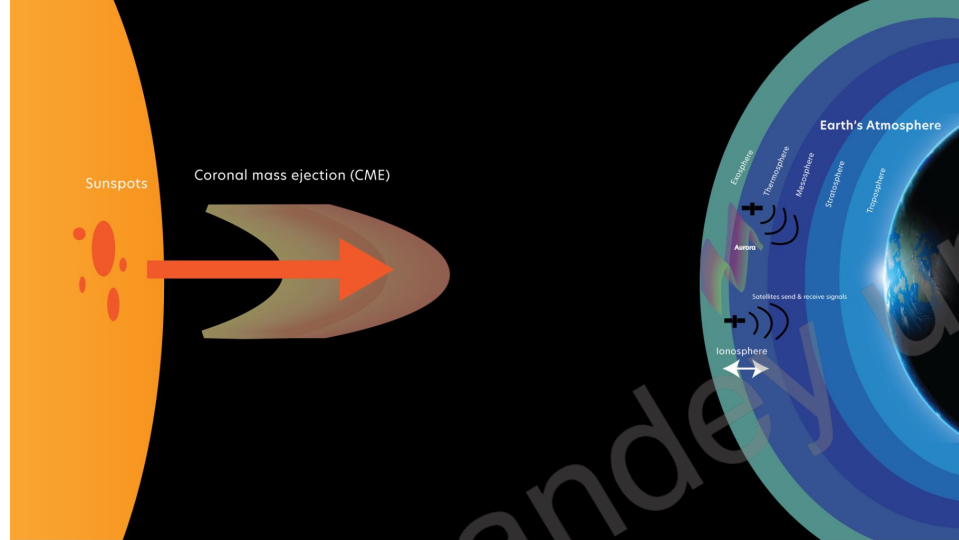
Coronal mass ejection

Vast eruption of billions of tonnes of plasma and accompanying magnetic fields from the Sun's corona

Solar wind

A continuous stream of charged particles released from the corona





What causes coronal mass ejections?

CMEs occur due to the complex interactions of magnetic fields on the Sun's surface.

How often do CMEs occur?

CMEs can happen several times a day, especially during solar maximum periods.

What are the potential dangers of strong CMEs?

Strong CMEs can disrupt satellite communications, power systems, and even endanger astronauts in space.

How can we prepare for geomagnetic storms?

Monitoring solar activity and having contingency plans for power outages can mitigate risks.

Can CMEs affect climate change?

While CMEs can influence short-term weather patterns, their long-term impact on climate change is still debated.

What technologies are most vulnerable to CMEs?

Satellites, GPS systems, and power grids are particularly susceptible to geomagnetic storms.

Are there any benefits to CMEs?

They can create beautiful auroras and provide valuable data for scientific research.

How to track solar activity?

Websites and apps dedicated to space weather provide real-time updates on solar activity.

Will CMEs become more frequent in the future?

Solar cycles dictate CME frequency; thus, activity may increase during solar maximum periods.

What is the difference between a solar flare and a CME?

Solar flares are intense bursts of radiation, while CMEs involve the expulsion of large amounts of plasma and magnetic fields.

TOPIC - AVGC XR SECTOR



The AVGC (Animation, Visual Effects, Gaming, and Comics) XR (Extended Reality) sector is witnessing a transformative phase in India, marked by significant developments that are reshaping its landscape.

Recent News Highlights

Technicolor's Closure: The recent shutdown of Technicolor in Bengaluru has raised concerns about the sustainability of the local AVGC-XR sector, emphasizing the need for strategic developments to fill this void.

Tamil Nadu's Policy Development: The Tamil Nadu government is actively formulating a policy to enhance the AVGC-XR sector, aiming to create a robust ecosystem that fosters growth and job creation.

National Centre of Excellence: The establishment of a National Centre of Excellence (NCoE) in Mumbai is poised to significantly uplift the industry by nurturing talent and innovation, akin to the impact of IITs and IIMs in their fields.

Job Creation in Madhya Pradesh: The Madhya Pradesh government's AVGC-XR policy is projected to generate over 20,000 jobs, with an investment of ₹2,000 crores, showcasing the potential for economic growth within the sector.

Future Directions and Opportunities



The future of the AVGC XR sector in India looks promising, with several key factors contributing to its growth:

Educational Advancements: The establishment of specialized institutions will equip aspiring professionals with the necessary skills to thrive in the creative industries.

Collaborative Efforts: Fostering partnerships among educational institutions, industry leaders, and governmental bodies will enhance resource sharing and innovation.

Global Positioning: By focusing on quality and creativity, the AVGC XR sector can position itself as a formidable global player, drawing international investments and collaborations.

Actions by govts, businesses to shape trade resilience for years: UNCTAD

N. Ravi Kumar
HYDERABAD

Global cooperation and balanced policies are critical to preventing economic fragmentation and safeguarding long-term growth

amid growing trade uncertainty, the UN Conference on Trade and Development (UNCTAD) has said.

While China's stimulus and lower inflation in some regions are likely to support trade, protectionism

and shifting policies in major economies are key risks, UNCTAD said in an update on global trade covering data through early March. The challenge in 2025 will be to prevent global fragmentation – where

nations form isolated trade blocs – while managing policy shifts without undermining long-term growth. Actions taken now by governments and businesses will shape trade resilience for years to come.

UNCTAD: Navigating Global Trade and Development Challenges



Introduction to UNCTAD

- UNCTAD, or the United Nations Conference on Trade and Development, plays a pivotal role in shaping global economic landscapes.
- Established to promote trade and development, UNCTAD serves as a platform for dialogue among countries, especially focusing on developing nations. Its mission is not just about economic growth but fostering sustainable development that is equitable and inclusive.

Global Debt Management Conference



The latest conference on global debt management highlighted the staggering levels of debt faced by many nations, particularly in the developing world. Key points discussed included:

Debt Sustainability: Strategies to ensure that countries can manage their debts without compromising economic growth.

International Collaboration: The need for collaborative efforts between developed and developing nations to create effective debt relief frameworks.

Innovative Solutions: Proposals for innovative financing mechanisms that prioritize sustainable development goals.

Trade Resilience for 2025



As we look towards 2025, global trade resilience has become an essential topic. Several emerging trends indicate how nations are adapting:

Diversification of Supply Chains: Countries are rethinking their supply chains to reduce dependencies and risks.

Digital Trade: The rise of e-commerce and digital services is reshaping trade dynamics.

Sustainability: Increasing emphasis on sustainability in trade practices to combat climate change and promote green technologies

Climate Finance Goals for Developing Countries



UNCTAD is actively working to support developing countries in achieving climate finance goals. Key initiatives include:

Green Financing: Promoting investment in renewable energy and sustainable projects.

Capacity Building: Assisting countries in building the necessary infrastructure to access climate finance.

Policy Advocacy: Advocating for international policies that favor sustainable development financing.

Conclusion

UNCTAD continues to be a beacon for global trade and development, navigating the complexities of modern economic challenges. As we move forward, the focus remains on fostering resilience, sustainability, and equitable growth for all nations

Syrian Druze cross armistice line on Golan Heights for pilgrimage



AP

Dozens of Syrian Druze clerics crossed the armistice line on the Golan Heights into Israel for their first pilgrimage in decades. They are expected to visit the tomb of Nabi Shuaib, in the Galilee — the most important religious site for the Druze. The visit sparked opposition from Syrian Druze. AFP

MAPPING - GOLAN HEIGHTS



Massive surveillance



Guatemalan soldiers patrol the shared border with Mexico as part of the Ring of Fire operation, aiming at strengthening border control, at the mouth of Suchiate River in Ocos, Guatemala on Thursday. AP

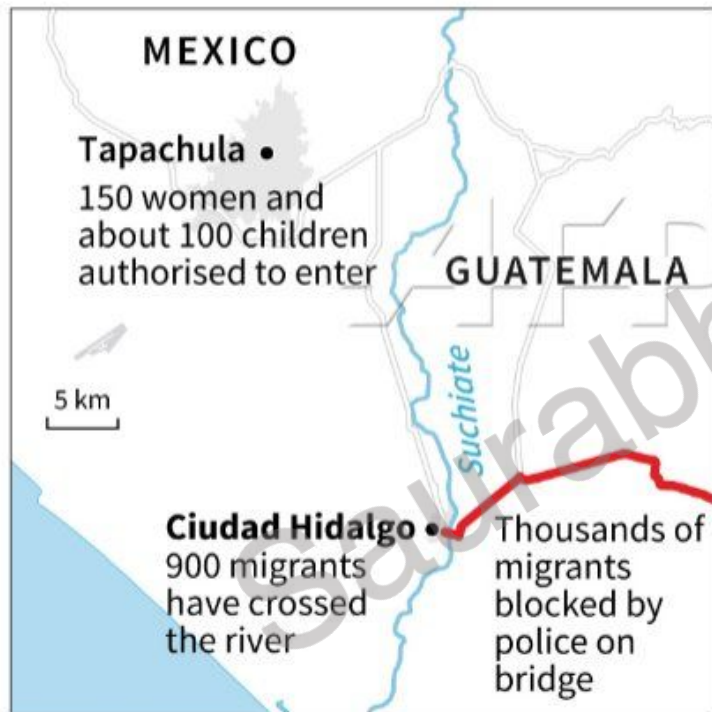
MAPPING - SUCHIATE RIVER





Migrant "caravan" continues towards the United States

Thousands of mostly Honduran migrants have entered Mexico, heading for the US.



Syria's new constitution gives sweeping powers, offers no protection for minority

Agence France-Presse

BEIRUT

Syria's new temporary constitution concentrates power in hands of interim President Abu Mohammad al-Jolani, also known as Ahmed al-Sharaa, and fails to include enough protections for minorities, experts warn. The declaration, signed into law on Thursday, establishes a five-year transitional period and follows the toppling of Bashar al-Assad's repressive government by Islamist-led rebels after nearly 14 years of civil war.

"The constitutional declaration grants absolute powers to the interim President," said Sam Dallah, a constitutional law profes-



Abu Mohammad al-Jolani

sor and former spokesperson for the drafting committee of the 2012 constitution, who left Syria after the outbreak of the civil war.

He said it establishes "a presidential-type regime", where executive power rests with the interim President and the Ministers he appoints, and does not in-

clude a post of Prime Minister.

Under the new framework, elections based on a new constitution will take place only after the transitional period.

According to the temporary constitution, Mr. Jolani "appoints one-third" of the members of the future assembly and forms a committee to select the members of the electoral college that will elect the remaining parliamentarians.

Although the document describes the judiciary as "independent", it gives the interim President the power to appoint members of the Supreme Constitutional Court, the country's highest judicial authority.

"The concentration of powers in the hands of a single person will inevitably lead to the monopolisation of decision-making," the expert warned.

While the constitutional declaration draws heavily from previous constitutions, it no longer includes mention of democracy.

One key change from the previous constitution is that Islamic jurisprudence is now described as "the principal source" of legislation, rather than just "a principal source".

Islam remains the religion of the head of state, Arabic the sole official language and the constitutional declaration offers no guarantees or protections for Syria's minorities.

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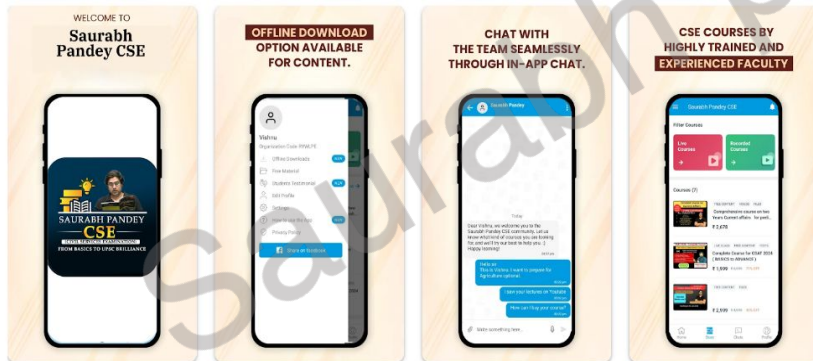
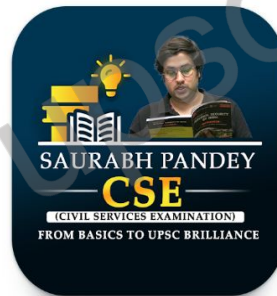
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