# UPSC Daily Current Affairs| One Liners 22-04-2025

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### History, Art and Culture

**Karnataka Village-Level Antiquities Survey**

*Recently, Karnataka has become the 1st Indian state to complete a comprehensive village-level antiquities survey.*

• **First-of-its-Kind Documentation** – The state's Department of Archaeology is surveying 119 taluks for detailed antiquities documentation.
• **Geo-tagging for Heritage Tracking** – The survey includes geo-tagging inscriptions, sculptures, and monuments for precise location-based records.
• **Expanding Protected Monuments List** – A proposal to add 110 monuments to the protected list is underway, with a future goal of protecting 1,000 more.
• **Addressing Conservation Challenges** – Karnataka faces resource and coordination hurdles in protecting its over 25,000 monuments.
• **CSR Initiatives for Monument Upkeep** – The 'Adopt a Monument' initiative seeks corporate social responsibility (CSR) funding for heritage conservation.

### Geography

**Davis Strait Proto-Microcontinent**

*Davis Strait proto-microcontinent, a hidden landmass has been found beneath the icy waters of the Davis Strait recently.*

• It is a newly identified submerged microcontinent located in the Davis Strait, lies between Canada's Baffin Island and Greenland.
• **Thickness** – Ranging from 19 to 24 km.
• **Bordered by** – 2 narrow bands of thinner continental crust measuring 15 to 17 km.
• These bands serve as a separation from the mainland of Greenland and Baffin Island.
• **Geological formation** – Its formation linked to the tectonic evolution of the strait.
• Millions of years ago, the tectonic plates beneath the 2 islands shifted, leading to a reconfiguration of the Earth's crust.
• This process resulted in the development of a substantial continental crust beneath the ocean, which is now recognized as a newly discovered primitive microcontinent.

## South Eastern Coalfield Limited (SECl)

*Recently, SECL is set to be the 1st coal PSU in India to adopt innovative paste fill technology for underground mining.*

• **Agreement for Singhali Mine** – SECL has signed a ₹7040 crore agreement with TMC Mineral Resources Private Limited to implement this technology in the Singhali underground coal mine in Korba.

• **Paste Fill Technology Explained** – This eco-friendly method involves filling mined-out voids with a paste made from fly ash, crushed overburden, cement, water, and binding chemicals, eliminating the need for surface land acquisition.

• **Environmental and Safety Benefits** – Paste filling prevents land subsidence, ensures mine stability, and promotes waste recycling by utilizing industrial byproducts. This is crucial for the densely populated area above the Singhali mine.

• **Revitalizing the Singhali Mine** – Approved in 1989, the Singhali mine with 8.45 million tonnes of reserves can now proceed with large-scale production (8.4 million tonnes over 25 years) without surface disruption.

• **A Landmark for Sustainable Mining** – This initiative marks a significant step towards green mining in India, enhancing coal production while minimizing environmental impact and potentially paving the way for similar applications in other constrained underground mines.

# Social Issues

## Harare Declaration

*Recently, Climate and Health Africa Conference (CHAC) 2024 in Zimbabwe concluded with the adoption of the Harare Declaration.*

• It is a collective African commitment to tackle the health impacts of climate change.

• **Aim** – To recognize climate change as a health emergency and strengthen Africa's role in climate and health responses.

• **Fostering Collaboration** – It promotes collaboration among governments, researchers, civil society, and communities.

• **Features** – Upgrading infrastructure, training health workers, and improving healthcare delivery.

• It emphasizes investing in research, surveillance, and the inclusion of local and traditional knowledge.

# International Relations and Issues

## US Airstrikes Near Hodeidah Port

*Recently, UN Special Envoy for Yemen, Hans Grundberg, has voiced serious concern regarding US airstrikes in the vicinity of the Houthi-controlled Ras Isa fuel port near Hodeidah.*

• **Ras Isa** – It is a Key Oil Export Hub, primarily known for its facilities dedicated to oil exports.

• **Located in** – Yemen's Red Sea coast.

• **Role** – It plays a significant role in Yemen's maritime trade and crucial for the country's energy export sector.

• **Hodeidah** – A key port city situated on Yemen's western coast.

• **Features** – It serves as a critical hub for importing essential goods and humanitarian aid into Yemen.

• Its strategic importance lies in controlling access to the Red Sea, making it a major focus in the ongoing conflict.

# Environment

## Gandhi Sagar Wildlife Sanctuary (GSWS)

*GSWS in Madhya Pradesh will be the 2nd relocation site for African cheetahs after Kuno National Park (KNP).*

• **Cheetah Relocation** – 2 male cheetahs, Prabhas and Pavak, will be moved from KNP to GSWS as part of India's cheetah reintroduction project.
• **GSWS** – Declared in 1974 and expanded to 362 sq km, the Chambal River bisects it. It's also recognized as an IBA.
• **Located in** – Northwestern Madhya Pradesh along the Rajasthan border, falls within the Khathiar-Gir dry deciduous forests.
• **Features** – Northern tropical dry deciduous, dry mixed deciduous, and dry deciduous scrub forests with species like Khair and Tendu.
• **Fauna** – Chinkara, Leopard, Mugger Crocodile, and diverse birdlife.
• **Chambal River's Role** – It flows through GSWS, supporting aquatic biodiversity and shaping the sanctuary's landscape.

# Security

## Exercise Desert Flag-10

*Recently, Indian Air Force (IAF) has deployed a contingent to Al Dhafra Air Base in the UAE for Exercise Desert Flag-10.*

• It is a prestigious multinational air combat exercise, hosted by UAE Air Force.
• **Aim** – To facilitate the exchange of operational knowledge and best practices among participating air forces.
• **Participation** – It includes contingents from eleven other nations, fostering a rich training environment.
• **IAF Aircraft Deployment** – It includes combat-proven MiG-29 fighter jets and Jaguar strike aircraft, showcasing diverse capabilities.
• **Enhancing Global Military Cooperation** – India's participation underscores its commitment to strengthening military ties and operational readiness through international collaboration.
• **Exercise Desert Flag-10** – It emphasizes complex and diverse fighter engagements simulating realistic combat scenarios.

# Science

## Enzymes & Co-enzymes

• **Enzymes** – They are proteins that catalyse reactions in a cell, making metabolism efficient.
• For efficient functioning, many enzymes require some molecules as cofactors.
• These helper molecules are called coenzymes.
• **Coenzymes** – They are naturally occurring organic molecules that bind to and support the activity of enzymes.

# Miscellaneous

## World Creativity and Innovation Day (WCID)

*Recently, WCID observed annually on April 21st, designated by the UN, highlights the vital role of creativity and innovation in human development.*

• **UN Recognition** – On April 27, 2017, the UN officially recognized April 21st as WCID, linking it to the 2030 Sustainable Development Agenda.
• **Importance for SDGs** – It underscores how creative and innovative approaches are crucial for achieving the ambitious Sustainable Development Goals.
• **Founded by** – Marci Segal in 2001.
• **Aim** – To encourage positive community impact through creative thinking.
• **Features** – The day encompasses creative problem-solving, driving economic, social, and sustainable development transformations.
• **Driving Global Progress** – It emphasizes human creativity as a key asset for developing sustainable solutions to complex global challenges.

## World Liver Day, 2025

*Recently, World Liver Day observed annually on April 19th, emphasizes the importance of liver health and disease prevention.*

• **Theme** – Food is Medicine.
• It underscores the powerful impact of nutrition on liver health and healing.
• The day serves as a global reminder that informed food choices are powerful tools in preventing liver diseases.
• **Liver's Role** – As the largest internal organ, the liver performs over 500 crucial functions essential for life.
• **Functions** – These include detoxification, aiding digestion, regulating blood sugar, and producing vital proteins.
• A balanced diet and conscious lifestyle choices are key to enhancing liver function and resilience.

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