



THE TIMES OF INDIA

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TODAY'S EDITION

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► Teens digging on fast food and living with obesity. Gen Y debates if fast food joints should be held responsible or not
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► PSG wait in anticipation for Messi's joining after a tearful adieu to Barcelona
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STUDENT EDITION
WEDNESDAY, AUGUST 11, 2021

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Earth to cross critical temp rise limit in next 20 years: IPCC

THE HEAT IS ON!



At a time when the world is trying to keep the global average temperature rise within the 1.5 degree Celsius mark by the end of the century, the UN's Intergovernmental Panel on Climate Change (IPCC) has dropped a bombshell in its latest report, projecting that the global temperature is expected to reach or exceed 1.5°C of warming over the next 20 years under all scenarios. Meanwhile, South India could get 40% more rain due to global warming, IPCC warns



ENERGY BUDGET CAUSING WARMING

- The balance between the incoming and outgoing energy is known as Earth's energy budget. Our climate is determined by these energy flows. When the amount of energy coming in is more than the energy going out, the planet warms up
- Virtually, all the energy in the Earth's climate system comes from the sun. Only a tiny fraction is conducted upward from the Earth's interior
- However, the imbalance of energy flows due to the accumulation of greenhouse gases like carbon dioxide in the air is causing the problem

WHAT WILL HAPPEN IF TEMP CONTINUES TO RISE?

1 COASTAL REGIONS AND ISLANDS UNDERWATER: Sea level rises are 'irreversible' for hundreds or perhaps thousands of years, the report warned. Sea levels could rise by around 2m by the end of this century and 5m by 2150, leading to more flooding, the displacement of millions of people and a loss of land for food growing. In India, it may lead to coastal flooding in low-lying areas such as Mumbai, Chennai, Kochi, Kolkata, Surat and Visakhapatnam



2 AN ICE-FREE ARCTIC: The Arctic is likely to be 'practically sea ice-free' in September at least once before 2050, UN scientists said

3 EXTREME WEATHER COMMONPLACE: It is 'virtually certain' that

heatwaves, flooding and droughts will become more frequent and intense across the world. Hot extremes have become more prevalent since the 1950s, while cold events have become less frequent and less severe

4 DRAMATIC LOSS OF SEA-LIFE: The Earth's oceans will continue to warm and become more acidic, killing coral reefs and harming infant cod, blue mussels, starfish and sea urchins

HOW EARTH GOT ITS OXYGEN-RICH ATMOSPHERE



DECODED

In an interesting study, scientists have revealed that the slowdown of Earth's rotation 2.4 billion years ago may have sparked the growth of oxygen on the planet. Earth's slowed rotation resulted in continuous daylight that kick-started bacteria into producing large amounts of oxygen, they added.

1 According to scientists, about 2.4 billion years ago, there was so little oxygen in the Earth's atmosphere that it could barely be measured, so no animal or plant life like we know could live

2 Instead, microbes breathed in carbon dioxide, and cyanobacteria produced oxygen in the earliest form of photosynthesis

3 That oxygen burst allowed plants and animals to evolve, with other plants now joining in the oxygen-making party

A JOINT VENTURE TOWARDS A SAFER ONLINE WORLD

■ The partnership seeks to create a safe environment for children online and offline. It aims to improve children's resilience and capacity to access the digital world safely, increase awareness on violence against children and its impact on children, families, and communities, as well as increase skills of communities and frontline workers to better prevent and respond to violence

■ The year-long initiative will include a nation-wide social media awareness campaign, and capacity building for 100,000 schoolchildren on online safety, digital literacy, and psycho-social support



TECHAWAY

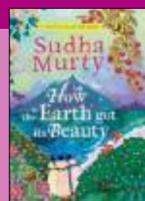
UNICEF India and Facebook have launched a joint initiative on ending violence against children with a special focus on online safety...

Murty's new book tells kids about beauty of Earth



Popular children's author Sudha Murty has come out with a beginners guide on the extraordinary stories about Earth. 'How the Earth Got its Beauty', published by Penguin Random House imprint Puffin, has illustrations by Priyanka Pachpande.

► Recommended for children aged between five and eight years, the book features striking full-colour artworks.



It prods kids to observe and appreciate the natural beauty all around us

► Murty got the idea for the book during one of her travels, when she began to think about the artist who "made this delightful chaos". In her own words, this story came to her in a flash

BOOK



PRIDE OF India



BANDRA-WORLI SEALINK
The Bandra-Worli Sealink in Mumbai has steel wires equal to the Earth's circumference. It took a total of 2,57,00,000 man hours for completion, and also weighs as much as 50,000 African elephants

FACTOID \$2 MILLION

Price of a vintage Super Mario Bros video game that was sold recently, breaking the record for the most-expensive video game sale that was set just weeks ago. The 1985 game, made for Nintendo's original console, has never been opened – a rarity for old video games, said Rob Petrozzo, one of the founders of the collectibles site, Rally. An anonymous buyer purchased it, he said.



A 1987 Legend of Zelda game cartridge that sold for \$870,000 in early July was considered a record, until a 1996 Super Mario 64 game went for \$1.56 million just days later

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SPECIAL WEEKENDER ISSUE
A week-long celebration of India's Independence starts on our website from Monday, August 9. Please do share it with your students.

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