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DAILY CURRENT AFFAIRS



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S.NO.	TOPIC
1.	Historic transoceanic expedition
2.	Fastest warming continent "Europe"
3.	Tax Treaty Protocol
4.	International Labour Organization's warning about climate change
5.	Meta Unveils Llama 3

HISTORIC TRANSOCEANIC EXPEDITION

TAG: GS Paper III- **Internal Security.**

- ❖ **Context:** The news highlights the successful return of INSV Tarini, led by two female officers, from a historic ocean journey, showing the Indian Navy's support for gender equality.

Additional Information:

- ❖ The INSV Tarini, an Indian Naval Sailing Vessel, completed a historic transoceanic expedition of nearly two months.
- ❖ The expedition was led by two Indian Navy women officers, Lieutenant Commander Dilna K. and Lieutenant Commander Roopa A., marking a significant achievement as the first such feat from India.
- ❖ Renowned circumnavigator and mentor Commander Abhilash Tomy (Retd) flagged off the expedition from Goa on February 28.
- ❖ After 22 days of navigating through the Indian Ocean, the INSV Tarini arrived at Port Louis, Mauritius, on March 21, promoting goodwill between India and Mauritius.
- ❖ Departing from Port Louis on March 30, the officers faced challenges like heavy winds and rough seas during their return journey.
- ❖ The successful expedition underscores the Indian Navy's commitment to gender equality and empowering women in maritime roles.
- ❖ The officers are now preparing for their next expedition, Sagar Parikrama-IV, a circumnavigation of the globe scheduled to commence in September.
- ❖ The INSV Tarini was warmly welcomed back by naval personnel and families at INS Mandovi in Goa on Sunday.

Important Stats:

- **Indian Army:** Currently, over 7000 women are serving in the Indian Army which started inducting women in 1992 where they were commissioned for five years.
- **Indian Navy:** The induction of women as officers in the Indian Navy commenced in the year 1991. The strength of women officers in the Indian Navy as of March 2023, is 748 including Medical and Dental officers. In December 2019, Sub-lieutenant Shubhangi Swaroop made history by becoming the first woman pilot for the Indian Navy, with a role in flying the Dornier 228 surveillance aircraft.
- **Indian Air Force:** In the Indian Air Force, he said recruitment officers in the force is gender neutral. By September 2020, there were 1,875 female officers in various roles, including combat and support. In 2015, combat roles for women as fighter pilots were opened up and in May 2019, Bhawana Kanth became the first woman fighter pilot qualified for



FASTEST WARMING CONTINENT "EUROPE":

TAG: GS Paper III- Environment.

- ❖ **Context:** The report underscores the concerning trend of warming in Europe, where temperatures are increasing at a rate twice that of the global average, presenting risks to public health, glaciers, and economic stability.

Additional information:

- ❖ Europe is experiencing rapid warming, with temperatures rising at twice the global average, posing risks to human health, glaciers, and economic activities.
- ❖ Transitioning to renewable energy sources like wind, solar, and hydroelectric power could help mitigate the effects of climate change.
- ❖ By 2022, Europe had already generated 43% of its electricity from renewables, surpassing fossil fuels for the second consecutive year.
- ❖ Current temperatures in Europe are 2.3 degrees Celsius higher than pre-industrial levels, compared to the global increase of 1.3 degrees Celsius.
- ❖ Climate extremes such as heatwaves, wildfires, and glacier ice loss are intensifying, leading to health issues and economic losses.
- ❖ March 2023 marked the 10th consecutive month of record high temperatures in Europe.
- ❖ The report highlights increasing death tolls from heat-related incidents and estimates economic losses from weather- and climate-related events at over 13.4 billion euros in 2023.
- ❖ Glacier ice loss in the Alps has reached about 10% over the last two years due to high temperatures and extreme weather events.





TAX TREATY PROTOCOL

TAG: GS Paper II- International Relations, Bilateral Relations.

- ❖ **Context:** Mauritius is yet to ratify the tax treaty protocol which amends the Mauritius-India Double Taxation Avoidance Agreement (DTAA) to comply with international standards.

Additional information:

- ❖ The Mauritius Revenue Authority (MRA) clarified that the protocol amending the Mauritius-India Double Taxation Avoidance Agreement (DTAA) has not been ratified yet.
- ❖ This clarification comes in response to recent statements by Indian Income-Tax authorities on social media suggesting that the protocol is awaiting ratification.
- ❖ Once both countries ratify and officially announce the protocol, it will amend the DTAA, and its implementation will start after the later of these notifications.
- ❖ Before ratification, stakeholders will receive clarifications regarding the amendments to the Mauritius-India DTAA.
- ❖ The amended DTAA, signed on March 7, introduces a principal purpose test (PPT) to ensure that treaty benefits only apply to transactions with genuine purposes.
- ❖ There is uncertainty about how the PPT will be applied to investments made before the protocol's ratification, requiring clarification from tax authorities.

About Double Taxation Avoidance Agreement (DTAA):

- ❖ The Double Taxation Avoidance Agreement (DTAA) is a deal between two countries to stop people from getting taxed twice on the same money in both places.
- ❖ It helps international trade and investment by stopping double taxation, which encourages businesses to work across borders.
- ❖ The DTAA sets out rules for how each country can tax different kinds of money, like dividends, interest, royalties, and profits from selling stuff.
- ❖ It also says who counts as a resident in each country, what counts as a permanent business location, and how to solve tax disputes between governments.
- ❖ Sometimes, the DTAA makes the tax rates lower or lets people avoid paying taxes on certain types of money to encourage investing and stop tax dodging.
- ❖ Countries work out DTAA deals together, using model agreements from groups like the OECD or the UN.
- ❖ The DTAA helps out taxpayers, especially companies and people who do business across borders, by making it clear how much tax they owe.
- ❖ It also helps countries work together better by sorting out tax issues and making sure everyone gets treated fairly when it comes to taxes.



INTERNATIONAL LABOUR ORGANIZATION'S WARNING ABOUT CLIMATE CHANGE

TAG: GS Paper III- Environment, Environmental Pollution and Degradation.

- ❖ **Context:** The news brings attention to a warning from the International Labour Organization (ILO) of the United Nations about the health risks to workers around the world due to climate change.

Additional information:

- ❖ The International Labour Organization (ILO) warns of health risks to workers due to climate change.
- ❖ Workers, especially in hot climates, face hazards like extreme heat, UV radiation, air pollution, vector-borne diseases, and exposure to agrochemicals.
- ❖ In 2020, over 2.4 billion workers (more than 70% of the global workforce) were exposed to excessive heat.
- ❖ Exposed worker numbers have increased by 35% over two decades, with a significant rise since 2000.
- ❖ Annually, about 23 million work-related injuries from excessive heat are reported, leading to roughly 19,000 deaths.
- ❖ Over 26 million people suffer from chronic kidney disease linked to workplace heat stress.
- ❖ Climate change also contributes to various health issues among workers, including cancer, cardiovascular diseases, respiratory illnesses, kidney dysfunction, and mental health problems.
- ❖ Workers face risks from ultraviolet radiation, workplace pollution, pesticides, and vector-borne diseases, resulting in thousands of deaths yearly.
- ❖ The ILO stresses the need to incorporate occupational safety and health considerations into climate change responses.
- ❖ It calls for new laws or revisions to existing legislation to protect workers.

About International Labor Organisation:

- ❖ The International Labour Organization (ILO) is a special group of the United Nations that works on labor problems.
- ❖ It started in 1919 and is based in Geneva, Switzerland.
- ❖ The ILO wants to make sure everyone is treated fairly and has their human and work rights respected all over the world.
- ❖ They make rules for work that countries are encouraged to follow.
- ❖ These rules cover things like child labor, forced work, unfair treatment, pay, hours, and safety at work.
- ❖ They help countries learn how to follow these rules.
- ❖ The ILO works with governments, businesses, and workers to make decisions.
- ❖ They study the job market around the world and tell people what they find.
- ❖ The ILO helps make rules for work in countries around the world.
- ❖ They team up with other groups to make sure everyone can have a good job and be treated fairly.



META UNVEILS LLAMA 3

TAG: GS Paper III- **Science and Technology.**

- ❖ **Context:** Meta introduces Llama 3 an Enhanced AI-Language Model Offers Innovations in Virtual Support.

Additional information:

❖ Features:

- ☛ Llama 3 is an upgrade from Llama 2, with improvements in how it learns before and after training. There are two versions of the models: basic and instruction-tuned.
- ☛ The instruction-tuned ones are better for specific tasks, especially for making AI chatbots that can talk to people.
- ☛ Llama 3 can handle longer pieces of text, up to 8,000 words, which means it can understand more complex inputs and interact with users better than before.
- ☛ This bigger capacity allows it to understand a wider range of things people say and give more detailed answers.

❖ Performance:

- ☛ Meta says Llama 3 is a lot better than Llama 2. It's especially good at thinking, writing code, and following instructions.
- ☛ They claim their models with 8 billion and 70 billion parameters do better than other AI models that anyone can use.
- ☛ In tests comparing it to other AIs like Google's Gemma 7B and Mistral's Mistral 7B, Llama 3 did better in understanding language, answering questions, speaking different languages, solving math problems, and writing code.

❖ Potential Use Cases:

- ☛ Like other chatbots, Llama 3 can write all sorts of text, like poems, code, scripts, and music.
- ☛ It's also good at summarizing facts and translating languages, so it could be used in many different areas, like making content, understanding languages, and finding information.

What is LLM?

- ❖ A large language model (LLM) is a computer program that understands and generates text, among other tasks.
- ❖ LLMs are trained on large amounts of data, which is why they're called "large."
- ❖ They use a type of machine learning called deep learning, specifically a neural network called a transformer model.
- ❖ In simpler terms, LLMs are smart programs that learn from many examples to understand human language and complex data.
- ❖ They often learn from data gathered from the internet, but sometimes programmers use specific, curated data sets for better learning.
- ❖ LLMs use deep learning to understand how letters, words, and sentences work together in language.
- ❖ Deep learning helps LLMs recognize patterns in text without needing human guidance.
- ❖ After learning the basics, LLMs can be further trained for specific tasks through fine-tuning or prompt-tuning.
- ❖ Examples of tasks include answering questions, generating responses, or translating text between languages.