

November - 25

TNPSC BITS

- ❖ Dr SS Badrinath, founder and chairman of Sankara Nethralaya, one of India's biggest charitable eye hospitals was passed away recently at Chennai.
- ❖ The Tamil Nadu government has registered the Tamil Nadu Zoo Foundation under Section 8 of the Companies Act, 2013 as part of a recent initiative to transform government societies into companies.
- ❖ The first ever Global Fisheries Conference India 2023 was held at Science City in Ahmedabad.
- ❖ India and Australia held 2+2 Ministerial Dialogue to step up defence cooperation and deepen the strategic relationship in sectors such as critical minerals and trade and investment.
- ❖ Every year, World Hello Day is celebrated on November 21.

TAMIL NADU

Crop loan 2023



- ❖ The Tamil Nadu government will give ₹14,000 crop loan to farmers through co-operative societies.
- ❖ ₹1,500 crore allocated for other allied activities such as goat rearing, dairying, poultry and fisheries, in 2023-24.

- ❖ In 2022-23 kharif marketing season, 27.23 lakh tonnes of paddy were procured from 3,73 lakh farmers and ₹5,778 was disbursed so far.

NATIONAL

Tantalum deposit



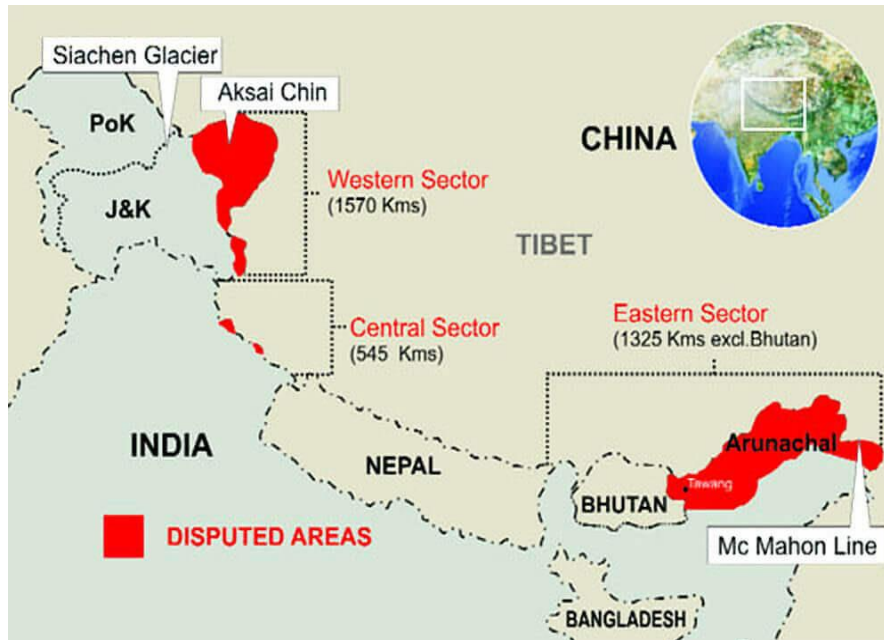
- ❖ Researchers from IIT Ropar, Punjab, has discovered the presence of a rare metal called Tantalum, in the Sutlej River.
- ❖ Tantalum is widely used in electronics and semiconductors.
- ❖ Tantalum is a rare metal and is grey, heavy, very hard, and is known for being one of the most corrosion-resistant metals.
- ❖ It can be stretched, pulled and drawn into a thin wire or thread without breaking.
- ❖ It has an extremely high melting point.
- ❖ Tantalum was discovered first by a Swedish scientist named Anders Gustaf Ekenberg in 1802.

INTERNATIONAL

30 Years of India-China Border Agreement

- ❖ Thirty years ago, officials from both sides signed the Border Peace and Tranquillity Agreement (BPTA).

- ❖ The treaty named as “Agreement on the Maintenance of Peace and Tranquility along the Line of Actual Control (LAC) in the India-China Border Areas”.
- ❖ This was the first time both sides legally commit to respecting the status quo and reduce the risk of an unplanned confrontation.
- ❖ It committed both sides to respecting the status quo, reducing the risk of unplanned confrontations, and minimizing military forces along the LAC.
- ❖ The LAC separates Indian-controlled territory from Chinese-controlled territory.
- ❖ It is divided into three sectors:
 - Eastern Sector (Arunachal Pradesh and Sikkim)
 - Middle Sector (Uttarakhand and Himachal Pradesh)
 - Western Sector (Ladakh).



SCIENCE AND TECHNOLOGY

Melting Moon Dust

- ❖ Lunar dust is composed of volcanic rock and dark Gray in colour.
- ❖ It poses hazards to space exploration due to its sharp-edged particles and adhesive properties.
- ❖ By harnessing concentrated sunlight through large lenses, researchers successfully melted lunar dust into solid rock slabs, creating tiles.

- ❖ These tiles could interlock to create solid surfaces across extensive lunar soil areas for use in constructing roads and landing pads.



Igla-S anti-aircraft missiles



- ❖ Russia has signed a contract to supply the Igla-S hand-held anti-aircraft missiles to India and allow its production under licence.
- ❖ The Igla-S is a man-portable air defence system (MANPADS) that can be fired by an individual or crew to bring down an enemy aircraft.
- ❖ The hand-held defence system has a capability of bringing down low flying aircraft.
- ❖ It can also identify and neutralise air targets such as cruise missiles and drones.

- ❖ Russia accounted for 45% of India's arms imports between 2018 and 2022, with France providing 29% and the United States 11%.

ENVIRONMENT

Kadalundi mudflat shrink

- ❖ Kadalundi, on the south-west coast in Kerala, had about 8 hectares of nutrient-rich inter-tidal mudflats in the early 2000s.
- ❖ Now, the expanse of mudflats in the estuary of the Kadalundipuzha river has reduced to just about 1 hectare.
- ❖ This too is gradually being covered with sand, depriving prey to thousands of shorebirds that migrate from colder climes in winter to Kadalundi village in Kozhikode district.
- ❖ Kadalundi is in the global map as a prominent destination of migrant shorebirds.



REPORTS AND INDICES





State of the Cryosphere 2023 Report

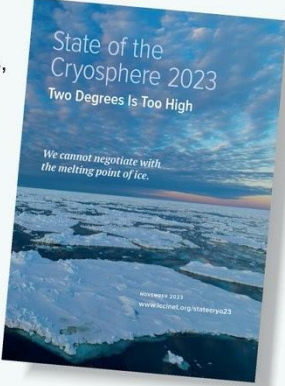
- ❖ International Cryosphere Climate Initiative released this report.
- ❖ The current temperature rise of 1.2°C affects many glaciers of the northern Andes, East Africa, and Indonesia are disappearing rapidly.
- ❖ Swiss glaciers lost 10 per cent of their remaining ice over just two years.
- ❖ Sea ice around Antarctica hit an all-time low summer and winter record this year.
- ❖ Water temperatures in parts of the Arctic and North Atlantic were 4-6°C higher than normal.

- ❖ The atmospheric carbon dioxide concentrations were 50 per cent above pre-industrial levels in 2023.
- ❖ At 424 parts per million, CO₂ concentration was higher than at any point in at least three million years.
- ❖ Earth's ice sheets lost 7,560 billion tonnes of ice between 1992 and 2022.
- ❖ Ice sheets in Greenland and parts of Antarctica could contribute between 12-20 metres of sea-level rise at 2°C.

State of the Cryosphere 2023

Two Degrees Is Too High

-  2°C is too high to prevent dangerous, irreversible, global impacts from the Earth's cryosphere
-  Preface by the President of Chile and the Prime Minister of Iceland
-  Reviewed and supported by over 65 leading cryosphere scientists
-  We cannot negotiate with the melting point of ice



STATES

Best State in Inland Fisheries



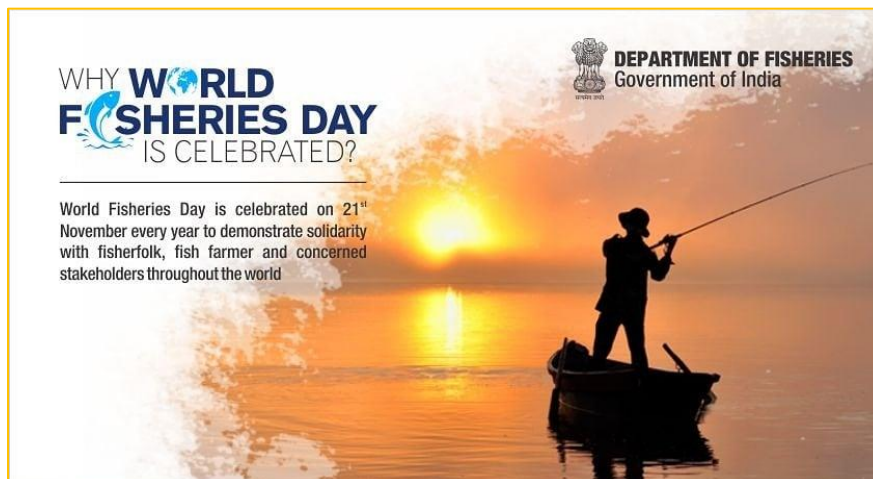
- ❖ Uttar Pradesh was honored with the Best State-Inland Fisheries Award at the Global Fisheries Conference 2023.

- ❖ The state's impressive fish production growth was reaching over 9.1 lakh metric tonnes this year.
- ❖ This was 8 lakh metric tonnes in the previous year.
- ❖ Fish seed production has seen a significant rise from around 27,128 lakh metric tonnes to approximately 36,187 lakh metric tonnes.

IMPORTANT DAYS

World Fisheries Day 2023 - November 21

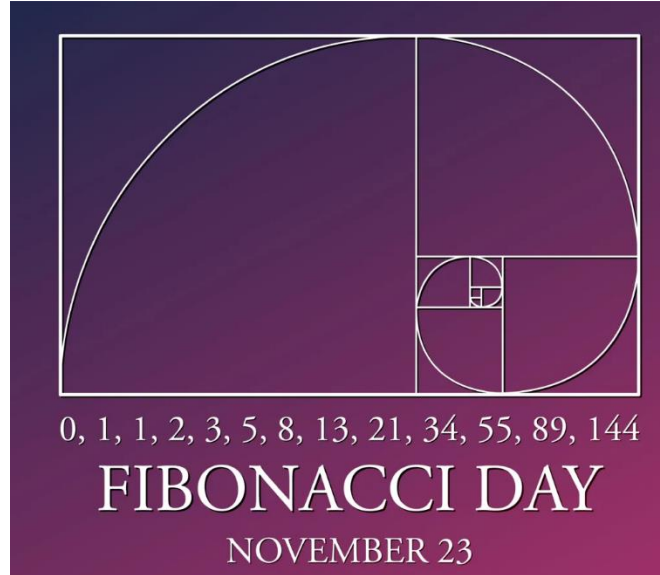
- ❖ This day aims to demonstrate solidarity with all fisher folk, fish farmers and concerned stakeholders throughout the world.
- ❖ It started in 1997 where “World Forum of Fish Harvesters & Fish Workers” met at New Delhi.
- ❖ This event is leading to formation of “World Fisheries Forum” with representatives from 18 countries.
- ❖ They have signed a declaration advocating for a global mandate of sustainable fishing practices and policies.
- ❖ The event aims to draw attention to overfishing, habitat destruction and other serious threats to the sustainability of our marine and freshwater resources.



Fibonacci Day 2023 - November 23

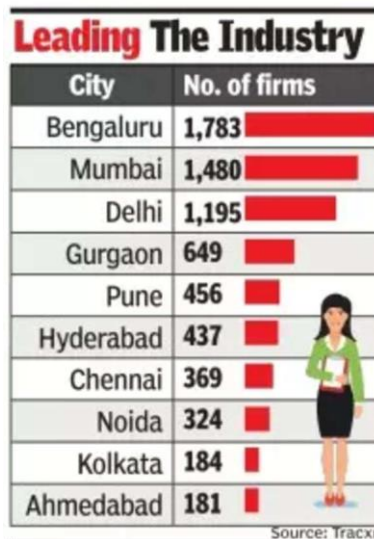
- ❖ November 23 is celebrated as Fibonacci day because when the date is written in the mm/dd format (11/23).
- ❖ The digits in the date form a Fibonacci sequence: 1,1,2,3.

- ❖ Fibonacci sequence is a series of numbers where a number is the sum of the two numbers before it.
- ❖ The Fibonacci sequence was introduced to the West by Italian mathematician Leonardo Fibonacci in his book “Liber Abaci” in 1202.



MISCELLANEOUS

Women-Led Startups



- ❖ Bengaluru is home to 1,783 women-led startups followed by Mumbai and Delhi at 1,480 and 1,195 respectively.



- ❖ Noida, Kolkata, and Ahmedabad, took the eighth, ninth and tenth spots, with 324, 184 and 181 women-led startups.
- ❖ India's startup ecosystem is the third-largest hub globally after the US and China.
- ❖ India has more than 61,400 startups.

