

KSG: NEWSPAPER CRUX

18TH SEPTEMBER 2022

NEWSPAPER HIGHLIGHT

Fishing gear makes up most of the large plastic debris in the 'North Pacific garbage patch', an area of the ocean where currents converge and an estimated 80,000 tonnes of plastic have accumulated. One third of the identified things in a survey of more than 6,000 floating items came from Japan — possibly in part because of the tsunami that hit the country in 2011.

Swirling around the planet's equator, the rings of Saturn are a dead give away that the planet is spinning at a tilt. The belted giant rotates at a 26.7 degree angle relative to the plane in which it orbits the sun. Astronomers have suspected that this tilt comes from gravitational interactions with Neptune, as Saturn's tilt precesses at nearly the same rate as the orbit of Neptune. But a new modelling study by astronomers has found that, while the two planets may have once been in sync, Saturn has since escaped Neptune's pull. The researchers propose in a study (Science) that Saturn, which today hosts 83 moons, once harboured one more, an extra satellite that they name Chrysalis. Together with its siblings, Chrysalis orbited Saturn for several billion years, tugging on the planet in a way that kept its tilt.

As the world's climate undergoes change, the ability of existing species to hold on to their biogeographic niches may be altered. This has an important bearing on agriculture, as practices and crop choices that have worked well for centuries may no longer be ideal. Factors that are altered by such changes include the availability of food and nutrients, occurrence of predators and competing species. Non-living, or abiotic factors also affect ecological niches. These include temperature, amount of available light, soil moisture, and so on.

An experiment carried out by the University of Oxford researchers combines two unique and one can say even mindboggling discoveries, namely, high precision atomic clocks and quantum entanglement, to achieve two atomic clocks that are "entangled." This means the inherent uncertainty in measuring their frequencies simultaneously is highly reduced. While this is a proof of concept experiment, it has the potential for use in probing dark matter, precision geodesy and other such applications. The two node

IRAN TO JOIN SCO

1. Iran has signed a MoU to become a permanent member of the Shanghai Cooperation Organisation (SCO) at India Summit 2023. Iran seeks to become the member of SCO to overcome economic isolation imposed by U.S. sanctions. In 2021, the SCO decided to start the accession process of Iran to the SCO as a full member, and Egypt, Qatar as well as Saudi Arabia became dialogue partners.

2. Shanghai Cooperation Organisation - The Shanghai Cooperation Organisation is a central Asian security body dominated by Russia and China. It is an intergovernmental organization formed in 2001, as a talking shop for Russia, China and ex-Soviet states in Central Asia.

3. In 2017, it expanded to include India and Pakistan with a view to playing a bigger role as counterweight to Western influence in the region. Since its inception, the SCO has mainly focused on Regional security issues, Its fight against regional terrorism, Ethnic separatism and Religious extremism. To date, the SCO's priorities also include regional development.

4. **Members - Russia, China, the Kyrgyz Republic, Kazakhstan, Tajikistan, Uzbekistan, India and Pakistan Before the inception of SCO, Kazakhstan, China, Kyrgyzstan, Russia and Tajikistan were members of the Shanghai Five.**

5. Observer Countries - Afghanistan, Belarus, Iran, and Mongolia Dialogue Partners - Armenia, Azerbaijan, Cambodia, Nepal, Sri Lanka and Turkey Significance - The SCO is the world's largest regional organisation consisting of 40% of the world's population and 30% of global gross domestic product (GDP). The SCO has been an observer in the UN General Assembly since 2005. India will take over as chair of the Shanghai Cooperation Organisation in 2023.

ANNABHAU SATHE

1. Maharashtra's Deputy Chief Minister unveiled a statue of Annabhau Sathe at the All-Russia State Library for Foreign Literature in Moscow. Tukaram Bhaurao Sathe or Annabhau Sathe was born in a Dalit family in 1920 in Maharashtra's Wategaon village. He is known as the Lok Shahir (means people's balladeer). During his days at the Matunga Labour Camp, he got to know R B More, an associate of Dr Babasaheb Ambedkar in the 'Chavdar Lake' satyagraha at Mahad, and joined the labour study circle. 2. Literary Work - Sathe formed Dalit Yuvak Sangh, a cultural group and started writing poems on workers' protests, agitations. The group would translate the Russian work of Maxim Gorky, Anton Chekhov, Leo Tolstoy, Ivan Turgenev into Marathi. Sathe used folk music like 'powada' (ballad) and the 'lavani' folk dance of Maharashtra to further popularise his work. In 1939, he wrote his first ballad 'Spanish Povada'.

3. His 'Bungalchi Hak' (Bengal's Call) on the Bengal famine was translated into Bengali and later presented at London's Royal Theatre. He dedicated his famous novel Fakira to Dr Ambedkar. Labour struggle - In 1934, he participated in a workers' strike under the leadership of Lal Bawta Mill Workers Union in Mumbai. In 1943, he along with Amar Sheikh and Datta Gavhankar, formed the Lal Bawta Kala Pathak that presented programmes on caste atrocities, class conflict, and workers' rights across Maharashtra.

4. In 1943, he helped forming the Indian Peoples Theatre Association (IPTA). He became its national president in 1949. His Russian Connection - Sathe's work was immensely inspired by the Russian revolution and the Communist ideology (Marxism).

5. He was a member of the Communist Party of India (CPI). He was featured among the authors from India whose work was translated in Russian. Sathe was immensely inspired by Gorky's 'The Mother'. Marathi poet Baburao Bagul called Sathe the Maxim Gorky of Maharashtra.

SC ON SEPARATE DOMICILE FOR A STATE

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DELHI: VIJAY NAGAR 9717380832 & OLD RAJENDER NAGAR 9811293743 | JAIPUR: 8290800441 | PATNA: 7463950774 | RANCHI: 9939982007
BENGALURU: KORMANGALA 7619166663 & CHANDRA LAYOUT 7619136662 | BHOPAL: 7509975361 | INDORE: 7314977441 | IMPHAL: 9650245599
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network that they build is extendable to more nodes, the researchers write, in an article on this work published in Nature recently.

Scientists in Australia have unearthed preserved fossilised hearts and other organs of ancient armoured fish in a discovery that provides insight into the evolution of the bodies of vertebrates — including humans. The researchers on Thursday described the heart in fish called placoderms that inhabited a tropical reef about 380 million years ago during the Devonian Period. The fossils were 250 million years older than any previously known fish heart.

The death rate from monkeypox in nonendemic countries is lower than expected — about 0.04% compared with the 1–3% reported during outbreaks caused by a similar viral strain in West Africa. Although people experience fewer lesions than in past outbreaks, they seem likely to appear on sensitive mucosal tissues.

The tiny translucent jellyfish can revert to an immature polyp state and revive itself again and again — making it immortal. Researchers have now sequenced the jellyfish's genome. The genes associated with DNA storage are highly expressed in adult jellyfish, but reduced in polyps. However, genes linked to pluripotency are increasingly expressed as the jellyfish reverted.

Small trials are sparking fresh enthusiasm for induced pluripotent stem (iPS) cell research. iPS cells are adult cells that have been coaxed into an embryonic-like state and can develop into any cell type in the body. The studies involved repairing the cornea and treating heart diseases, macular degeneration and Parkinson's disease.

Prime Minister Narendra Modi released a coalition of cheetahs into the Kuno National Park in Madhya Pradesh on Saturday. Eight animals — including five females — were flown from Windhoek, Namibia, to Gwalior, followed by a helicopter ride to the grasslands of Kuno Palpur. Mr. Modi released three of them. The cheetahs will be released in specially designed enclosures where they will live for a month and begin a lifetime of acclimatisation to Indian prey and forest conditions.

1.The Supreme Court of India has said that there is no separate domicile for a State. This judgment was given when the SC was dealing with an appeal filed by Telangana against a High Court judgment regarding the Andhra Pradesh State Reorganisation Act, 2014. The HC upheld an officer's claim to be posted in Telangana and not Andhra Pradesh post the bifurcation of the State under the Andhra Pradesh Reorganisation Act in 2014.

2.The SC said that the Andhra Pradesh State Reorganisation Act, 2014 or any other guidelines cannot take away from citizens the right to reside and settle in any part of the country. It observed that there is only one domicile, that is, the domicile of the country and there is no separate domicile for a State. Under the Constitution, India is a Union of States.

3.Every part of every State is an integral and inseparable part of India. The SC continued that it is true that when a State is divided and the employees and officers of the State government have to be allotted to the two States. Such allocation has to be done based of the rules and regulations and by guidelines. However, such rules, regulations and guidelines have to be construed harmoniously with the fundamental rights of the Constitution.

4.**Article 1 of Indian Constitution India shall be a Union of States. The States shall mean the States for the time being specified in Parts I, II and III of the First Schedule. The territory of India shall comprise- The territories of the States;** The territories for the time being specified in Part IV of the First Schedule; and Such other territories as may be acquired.

GREEN FINS HUB

1.The United Nations Environmental Programme (UNEP), along with UK-based charity Reef-World Foundation, recently launched the Green Fins Hub, a global digital platform they said would give sustainable marine tourism a 'major boost'.

2.The platform will help diving and snorkelling operators worldwide to make simple, cost-efficient changes to their daily practices by utilising tried and tested solutions.

3.It would also help them keep track of their annual improvements and communicate with their communities and customers.

URBAN WASTEWATER SCENARIO IN INDIA

1.India and Denmark have launched a whitepaper which aims to holistically capture the current status of wastewater treatment in India and potential pathways for future treatment structures, co-creation, and collaborations.

2.**It comes under Green Strategic Partnership (2020) which aimed at active collaboration between two countries on – Green Hydrogen, Renewable Energy and Wastewater management. Also, Atal Innovation Mission- ICDK Water Innovation Challenge in India was implemented under it.**

3.Steps taken by government: Formed an integrated ministry in the name of Jal Shakti in 2019 Government have committed investments of more than \$140 billion by 2024 in the water sector.

4.At least 10% of the funds are contributed by the community in every program ensuring community ownership and participation.

E-BAL NIDAN PORTAL

1.The portal for complaint management for violation of child rights, E-Baal Nidan has been revamped by NCPCR (National Commission for protection of Child Rights) Previously, NCPCR had launched a "CiSS application" under the Baal Swaraj portal to help in the rehabilitation process of Children in Street Situations. (CiSS).

2.About NCPCR: Set up in March 2007 under the Commission for Protection of Child Rights Act, 2005. It works under the administrative control of the Ministry of Women & Child Development. Definition: The Child is defined as a person in the 0 to 18 years age group.

3.The Commission's Mandate is to ensure that all Laws, Policies, Programmes, and Administrative Mechanisms are in consonance with the Child Rights perspective as enshrined in the Constitution of India and also the UN Convention on the Rights

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For the third time in three months, China blocked a joint India-U.S. attempt to put a Pakistan based terrorist on the UN Security Council's 1267 list, placing a hold on the proposal to add Lashkare Taiba 'commander' Sajid Mir, who is wanted for the 26/11 Mumbai terror attacks, as well as attacks in the U.S. and Denmark. Mir is presently lodged in a Pakistan jail after being convicted of terror financing at a hurried trial earlier this year.

of the Child.

After over 30 years, culture and cinema are all set to receive a big push in Kashmir Valley thanks to Chennai based entertainment start-up JadooZ. The company is opening two mini theatres in Pulwama and Shopian on Sunday. Lieutenant-Governor of Jammu and Kashmir Manoj Sinha will be unveiling the screens.