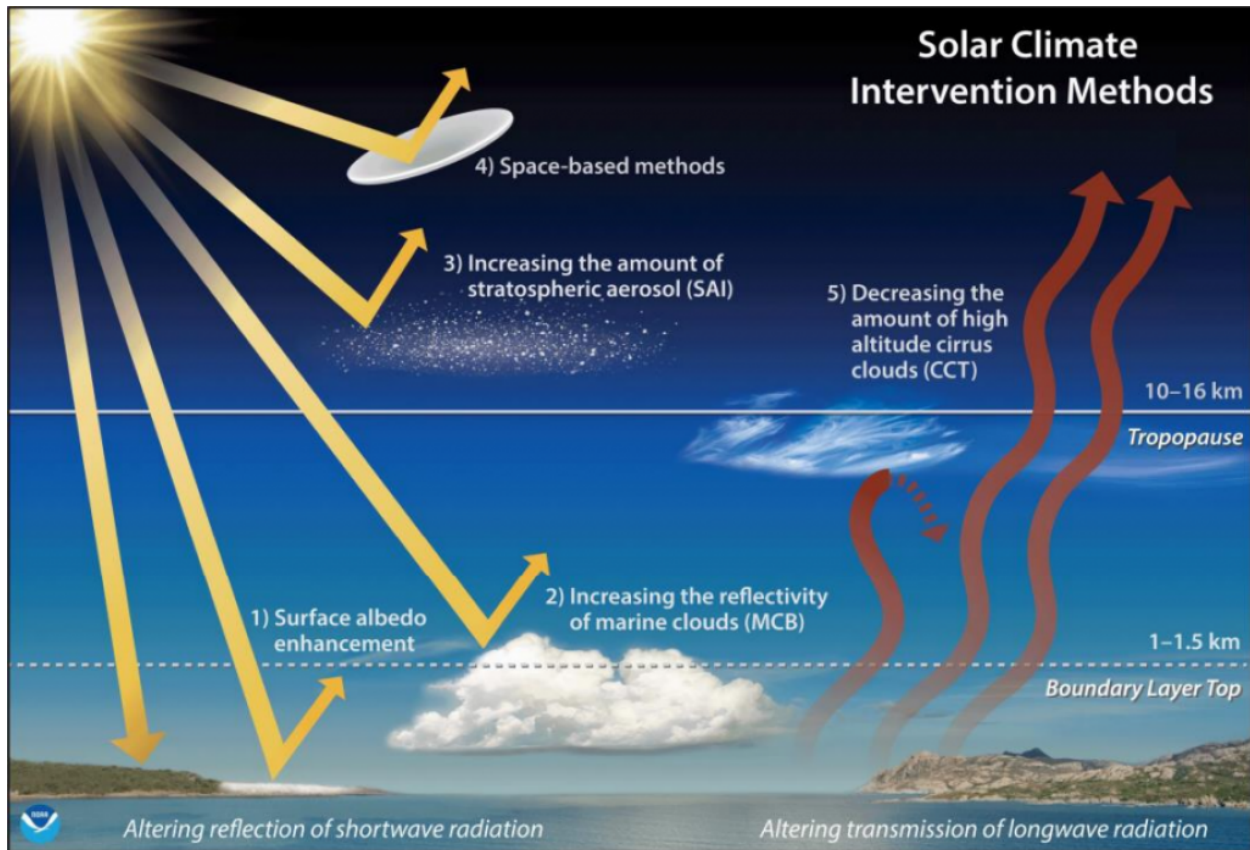


1. Solar Geo Engineering



Topic: Environment and Ecology

In News: White House has released a report on Solar Geo-Engineering (SGE) to study how blocking sunlight can aide in climate change.

More on the Topic

- Solar geo engineering refers to proposed approaches to cool the Earth by reflecting solar radiation back to space.
- The two main approaches being researched are stratospheric aerosol injection (SAI) and marine cloud brightening (MCB).

Stratospheric Aerosol Injection:

- In effect, SAI simulates what happens during large volcanic eruptions, when volcanoes emit small particles into the upper atmosphere (called the stratosphere).
- These particles reflect sunlight and lead to cooling for as long as they remain in the stratosphere, which may be up to a few years after injection.
- By injecting sulfate or other aerosol particles into the stratosphere, SAI would mimic the cooling effect of a large volcanic eruption's effect of lower global temperatures.



- If ever deployed, SAI would have global impacts, reducing temperatures and altering precipitation patterns across the planet.

Marine Cloud Brightening:

- MCB would involve spraying sea salt into low-lying marine clouds to enhance their brightness and reflectivity in order to increase regional-scale cooling.

Pros of Geo Engineering:

- **It aims to actively reverse Climate damage:** When it comes to climate change, methods like emissions reduction and forest conservation serve as forms of mitigation, but they do not actively reverse damage done by human behavior. Proponents of geoengineering argue that the technology could offer a true reversal.
- **Its results could be rapid.** It could lower average temperatures on the planet faster than could be achieved by changing human behaviors.

Disadvantages of Geo engineering:

- **It introduces unknown climate risks.** Geoengineering projects could alter Earth systems in unintended ways.
- It may be **financially unfeasible.**

Source: DTE

2. Bharat 6G Alliance



Topic: Economy

In News: The government has launched the Bharat 6G alliance to drive innovation and collaboration in next-generation wireless technology.

More on the Topic:

- Bharat 6G Alliance (B6GA) is a collaborative platform consisting of **public and private companies, academia, research institutions, and standards development organizations.**
- According to the government, Bharat 6G Alliance will **forge coalitions and synergies with other 6G Global Alliances.**



- The primary objective of it is to understand the business and societal needs of 6G beyond technical requirements, foster consensus on these needs, and promote high-impact open research and development (R&D) initiatives.
- B6GA aims **to bring together Indian startups, companies, and the manufacturing ecosystem** to establish consortia that drive the design, development and deployment of 6G technologies in India.

Funding for 6G technology projects:

- To support the advancement of 6G technology, the government has allocated a grant of 240.51 crores through **the Telecom Technology Development Fund scheme.**

About TTDF:

- TTDF aims to fund R&D in rural-specific communication technology applications and form synergies among academia, start-ups, research institutes, and the industry to build and develop the telecom ecosystem.
- The scheme entails grants to **Indian entities to encourage and induct indigenous technologies tailor-made to meet domestic needs.**

Source: DTE

3. The Colombo Security Conclave

Topic: International Relations



In News: Scientists from Bangladesh, and Mauritius have embarked on board India's research vessel 'Sagar Nidhi' to participate in a joint ocean expedition under the framework of the Colombo Security Conclave (CSC).

More on the Topic:

- Colombo Security Conclave (CSC), held at the National Security Advisor (NSA)-level, the CSC brings together India, Sri Lanka, Maldives, and Mauritius, along with Bangladesh and the Seychelles as observers.
- CSC was initiated in 2011 by India, Maldives, and Sri Lanka.
- Mauritius was added as a member, with Bangladesh and Seychelles as observers in 2021. Secretariat is Colombo, Sri Lanka.
- The CSC's remit includes **maritime security, countering terrorism, and cybersecurity**.
- The small group provides an opportunity for India to address **its own strategic concerns in the Indian Ocean** while providing an opportunity for the island and littoral nations to address their own challenges.

Source: Hindu

4. Orkney Island

Topic: Geography



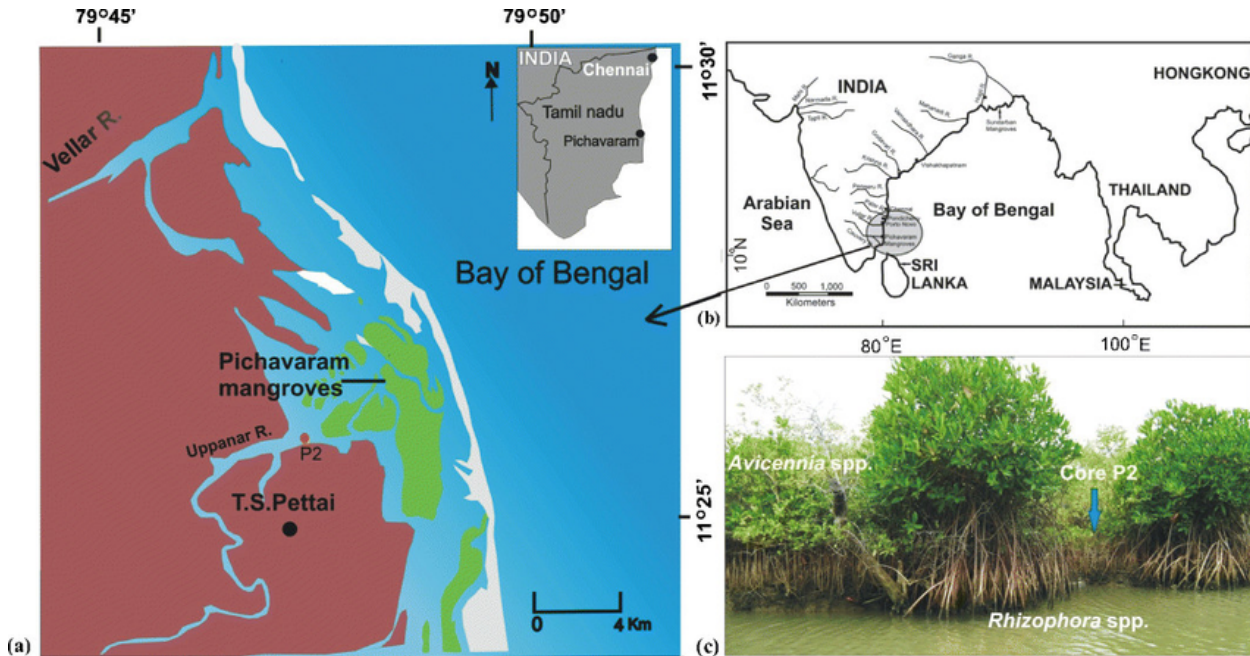
In News: Orkney Islands has proposed its intent to split from U.K. and become a self-governing territory of Norway.

More on the Topic:

- Orkney is an archipelago off the northeastern coast of Scotland. The islands encompass Neolithic sites, tall sandstone cliffs and seal colonies.
- It was under Norwegian and Danish rule until late 15th century after which it came under Scotland.
- It houses four UNESCO world heritage sites namely – Skara Brae, Ring of Brodgar, Standing Stones of Stenness, and Maeshowe chambered tomb.

Source: FE

5. Pichavaram Mangroves



Topic: Environment and Ecology

In News: The Tamil Nadu Forest Department has drawn up a comprehensive plan for the rehabilitation of coastal habitats by creating bio-shields, and restoring degraded mangroves in Pichavaram.

More on the Topic:

- The Pichavaram mangroves are among the most productive ecosystems in the State, and are a storehouse of biodiversity, supporting 840 species of flora and fauna.
- It is separated from the Bay of Bengal by a sand bar.

6. Alluri Sitarama Raju

Topic: Personalities in News



In News: President Droupadi Murmu has attended the closing ceremony of the 125th year celebrations of Alluri Sitarama Raju.

More on the Topic:

- Alluri Sitarama Raju launched the Rampa rebellion in 1922, which was also referred to as “Manyam Veerudu”.
- Alluri Sitarama Raju’s revolt against the British gained momentum after he opposed the strict implementation of the Madras Forest Act, 1882 that makes the life of tribal people miserable by prohibiting them from **Podu cultivation** (age-old-cultivation by the tribal where they cannot use the cultivation process of the plains).
- By believing in the armed struggle, Alluri Sitarama **Raju led raids on police stations** in order to seize ammunition and firearms in broad daylight.
- After seizing the arms and ammunition, he left a note in the police station mentioning the details of the items taken.



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- His relentless and selfless struggle in protecting the livelihood of the tribal from the British rulers has gained their admiration and respect.
- The British police arrested him in 1924, and was later shot dead by them.

Source: Hindu

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