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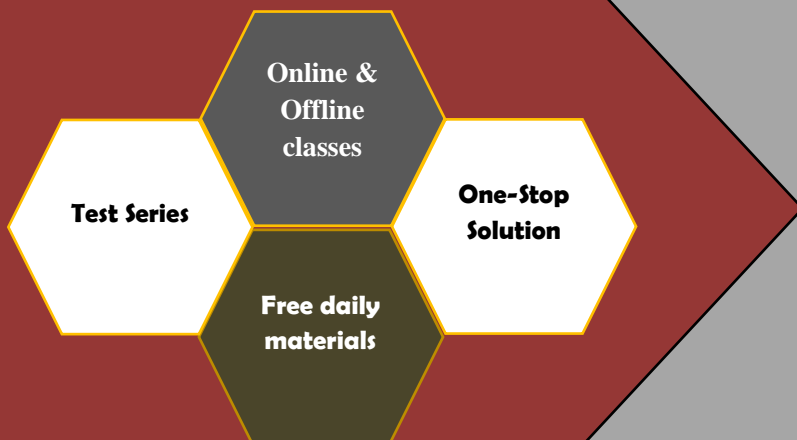
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Earth's Black Box

Notes for civil services preparation



UPSC

General Studies

Earth's Black Box

Australian scientists and artists are going to **make black box of the planet** to hold the world accountable for their actions by creating a black box of the planet.

▪ About:

- The box will be constructed in **Tasmania, an Australian island** state off the south coast.
- It will be made with **3-inch thick steel and covered with solar panels**.
- It will **operate much like a plane's flight recorder**, which records an aircraft's final moments before crashing.
- The storage drives **inside Earth's Black Box** are designed to **last for around 30 to 50 years**.
- The black box will be **around the size of a city-bus**, and inside there will be **storage drives that record climate change conversations** and also atmospheric carbon dioxide levels and average temperatures.

▪ Types of Data Collection by the Box:

- Two different types of data will be collected and stored inside the monolith.
 - It will collect **climate-change-related data** like land and sea temperature measurements, **species extinction**, energy consumption, human population, **ocean acidification**, and atmospheric CO₂ levels.
 - It will collect contextual data, like newspaper headlines and trending stories, key news stories and social media posts.

▪ Reason for choosing the Tasmania:

- Tasmania was chosen for its **relative geopolitical and environmental safety**, and the monolith will be designed to be **resilient against threats** including **cyclones, earthquakes** and, with its sloped walls, attacks by vandals.

▪ Significance:

- Black box will **actually help in preventing a major climate change catastrophe**.
 - **Climate change is one of the gravest threats humanity faces and is exacerbating economic and health inequalities**, increasing the frequency and intensity of natural disasters and threatening the world's food supply.