

# Report on Climate Indicators & Sustainable Development: WMO

### Why in News

Recently, the <u>World Meteorological Organization (WMO)</u> has published a new report on **Climate Indicators and Sustainable Development: Demonstrating the Interconnections.** 

- WMO studied seven climate indicators carbon dioxide (CO<sub>2</sub>) concentration, temperature,
  ocean acidification and heat, sea ice extent, glacier melt and sea-level rise.
- Its release coincides with the <u>United Nations General Assembly</u> annual session and the opening in September 2021 of the <u>Sustainable Development Goals (SDGs)</u> Action Zone, which is dedicated to accelerating action on the SDGs.



## **Key Points**

- Aim:
  - To **contribute to the sustainable development agenda** and to inspire leaders to take bolder climate action.
- Importance:
  - In the face of ongoing <u>climate change</u>, poverty, inequality and environmental degradation, <u>understanding the connections between climate and international</u> development is a matter of urgency.
  - Increasing temperatures will result in global and regional changes, leading to shifts in rainfall patterns and agricultural seasons. The intensification of <u>El Niño</u> events is

also generating more droughts and floods.

#### • Rising CO<sub>2</sub> Concentration:

- The rising concentration of CO<sub>2</sub> will impact all of the 17 United Nations-mandated
- Rising CO<sub>2</sub> concentration due to human activities is a key driver of global climate change.

#### Impact on SDGs:

- Rising CO<sub>2</sub> concentration and increasing global temperatures, if left unchecked, would negatively impact efforts to combat climate change under the SDG 13.
  - This, in turn, would pose a significant threat to the achievement of the 16 SDGs other than SDG 13, by 2030.
- This would happen because uncontrolled rising CO<sub>2</sub> emissions would be **indirectly** responsible for risks related to the remaining six climate indicators, namely temperature, ocean acidification and heat, sea ice extent, glacier melt and sea-level rise.
- For instance, rising concentrations of CO<sub>2</sub> in the atmosphere will lead to reductions in **nutrient content, affecting food security** or the SDG indicator 2.1.2.
  - This would affect the global goal on tackling poverty, SDG 1, as well.
- Rising CO<sub>2</sub> in water would cause **ocean acidification**, directly affecting SDG indicator 14.3.1 which addresses marine acidity.
- Both food insecurity and loss of livelihood may drive conflicts related to resource management, thus threatening regional peace and stability (SDG 16.1).
- Extreme events attributed to rising temperature affect rainfall patterns and groundwater availability, which leads to a higher risk of water scarcity, directly affecting SDG 6 on access to water and specially the targets. The Vision

#### Suggestions:

- To mitigate climate risks, the WMO recommended to work on:
  - Improved education (SDG 4)
  - Global partnerships (SDG 17)
  - Sustainable consumption (SDG 12)



#### **Source: DTE**

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