

State of the Climate on Latin America and the Caribbean 2020: WMO

Why in News

Recently, the World Meteorological Organization (WMO) has released a report on the impacts of climate change and extreme weather in Latin America and the Caribbean.

- 2020 was a year of unprecedented heatwaves, droughts, forest fires, cyclones and food **insecurity** for the region.
- The Intergovernmental Panel on Climate Change in its sixth assessment report had highlighted the impact of climate change on the Indian Subcontinent.

World Meteorological Organization

- About:
- vision • It is an intergovernmental organization with a membership of 192 Member States and Territories. India is a member.
 - It originated from the International Meteorological Organization (IMO), which was established after the 1873 Vienna International Meteorological Congress.
- Establishment:
 - Established by the ratification of the WMO Convention on 23rd March 1950, WMO became the specialized agency of the **United Nations** for meteorology (weather and climate), operational hydrology and related geophysical sciences.
- Headquarters:
 - Geneva, Switzerland.
- Reports released by WMO:
 - State of the Global Climate
 - Greenhouse Gas Bulletin

Key Points

- Rise in Temperature:
 - 2020 was among the three warmest years in Central America and the Caribbean and the second warmest year in South America.
 - Sea surface temperature in the Tropical North Atlantic Ocean was significantly warmer than normal throughout the year.
 - Severe heat waves dominated the region through most of the year, with temperatures soaring above 40°C several days in a row.
- Intense Rainfall:

- Intense rainfall resulted in **landslides**, floods **and** flash floods in the rural as well as urban areas of Central and South America towards the end of 2020.
- Forest Fires and Cyclones:
 - **Deforestation** has only increased in the last four years due to **clearing for cattle pasture and degradation from fires.**
 - Deforestation in the <u>Amazon River Basin</u>, which stretches across nine countries in South America and stores 10% of global carbon, has already led to a decline in its ability to regulate climate.
 - The Atlantic basin **recorded as many as 30 cyclones in 2020** the highest so far in a single year.
- Impact:
 - Extreme weather events affected over 8 million people across Central America, exacerbating food insecurity in countries already crippled by economic shocks, <u>Covid-19</u> restrictions, and conflict.
- Suggestions:
 - Hazard-specific monitoring systems such as <u>FAO's</u> Agricultural Stress Index System (ASIS) is an example of a useful tool to allow governments to issue early warning alerts for specific sectors like agriculture.
 - Develop Early Warning Systems (EWS) and contingency plans.
 - Early warning systems were underdeveloped in the region, particularly in South America.
 - **Planting of the** <u>mangroves</u>, an ecosystem of which can help sequester three-four times more carbon than most forests.
 - Area under mangrove plantation declined 20% between 2001 and 2018 in the region.
 - **Greater political commitment and more financial support** is needed to strengthen EWS and operational weather, climate and hydrological services to support risk management and adaptation.

Latin America and Caribbean (LAC) Region

- About:
 - Latin America is generally understood to consist of the entire continent of South America in addition to Mexico, Central America, and the islands of the Caribbean.
 It encompasses 33 countries.
- Geographical Features:
 - Amazon River, Caribbean Sea, Gulf of Mexico, Pacific Ocean, Panama Canal, Andes Mountains, Sierra Madre Mountains, and Atacama Desert.
- Major Economic Blocs:
 - **MERCOSUR:** The Southern Common Market consists of five countries in southern Latin America: Argentina, Brazil, Paraguay, Uruguay and Venezuela.
 - CARICOM: The Caribbean Community consisting of 19 island groups: Antigua and Barbuda, the Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Haiti, Jamaica, Montserrat, St. Kitts and Nevis, Saint Lucia, St. Vincent and the Grenadines, Suriname, and Trinidad and Tobago.
 - **CAN:** The Andean Community consists of four countries: Bolivia, Colombia, Ecuador and Peru.
 - **SICA:** The Central American Integration System consisting of seven countries: Belize, Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica and Panama.

Physical Features of Latin America



Source: DTE

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