

50 YEARS OF EARTH DAY

Climate science and action



Population



Temperature



Foresight

The CMCC observatory on climate policies and futures

climateforesight.eu



CO₂



Climate policy



cmcc

Centro Euro-Mediterraneo sui Cambiamenti Climatici

cmcc.it



3.7 billion



+0.02°C



325.68 ppm

1970

First ever **Earth Day**. On 22 April 20 million Americans join in environmental protest

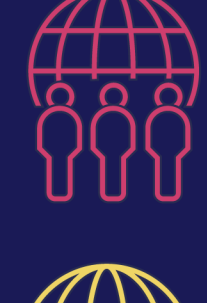


1972

United Nations Environment Programme created at the first **UN Conference on the Human Environment** in Stockholm

1979

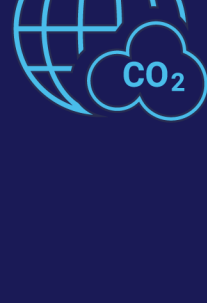
First **World Climate Conference** takes place



4.5 billion



+0.26°C



338.75 ppm

1980

Montreal Protocol agreed



1987

Intergovernmental Panel on Climate Change (IPCC) established



5.3 billion



+0.45°C



354.39 ppm

1990

Earth Day mobilises 200 million people in 141 countries

IPCC and second **World Climate Conference** call for global treaty on climate change



1992

Rio Earth Summit leads to **United Nations Framework Convention on Climate Change (UNFCCC)**

1994

UNFCCC enters into force



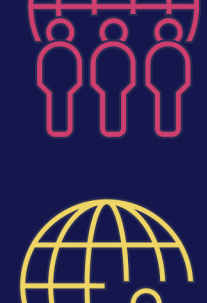
1995

First **Conference of the Parties (COP1)** takes place in Berlin



1997

Kyoto Protocol formally adopted at **COP3**



6.1 billion



+0.39°C



369.55 ppm

2000

Marrakech Accords adopted at **COP7**



2001

IPCC Third Assessment Report released

2005

First **Meeting of the Parties to the Kyoto Protocol (MOP1)** takes place in Montreal



2007

Bali Road Map established at **COP13**

IPCC Fourth Assessment Report released



2009

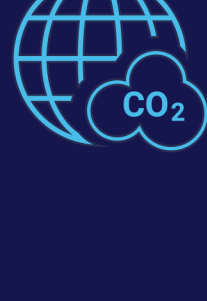
Copenhagen Accord drafted at **COP15**



7 billion



+0.72°C



389.90 ppm

2010

Cancun Agreement drafted and largely accepted at **COP16**



2011

Durban Platform for Enhanced Action drafted at **COP17**



Daily average concentration of CO₂ in the atmosphere **surpasses 400ppm** for the first time since measurements began in 1958

2013

Advances made on **Durban Platform, Green Climate Fund, Warsaw Framework for REDD-plus** and **Warsaw International Mechanism for Loss and Damage** at **COP19** in Warsaw

IPCC Fifth Assessment Report: scientists 95% certain humans have been the "dominant cause" of global warming since the 1950s



2015

Paris Agreement drafted at **COP21**: nearly all nations pledge to set their own targets for greenhouse gas cuts and report on progress. **UN** chooses **Earth Day** to sign Agreement into force



2018

Rules for implementing **Paris Agreement** established at **COP24** in Katowice following release of **Special Report on Global Warming of 1.5°C (SR15)** and extensive civil society mobilisation demanding science dictate environmental policy



7.7 billion



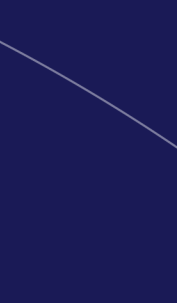
+0.92°C second hottest average global temperature ever recorded

2019

UN Climate Action Summit held in New York. First ever global **Climate Action Week** becomes largest climate mobilisation in history



COP25 in Santiago moved to Madrid. Countries fail to reach consensus on **Article 6 of Paris Agreement**



411.44 ppm highest CO₂ concentration in millions of years is recorded

2020

COP26 in Glasgow postponed due to **COVID-19** pandemic



Earth Day 50th Anniversary. Event held entirely online for the first time



Sources:

Global population
Source: Worldometer

Change in global surface temperature (°C)
relative to 1951-1980 average temperatures
Source: NASA/GISS

Global average CO₂ (ppm)
Source: NOAA/ESRL