



Climate

Explore the fascinating world of climate, from its global impact to the climate in *Benevento*. Dive into graphs on climate change and discover the consequences for biodiversity and ecosystems.

The Global Climate



Our Fragile Planet

Learn about the intricate balance that sustains the global climate and how human actions are influencing it.



Harmful Emissions

Discover how greenhouse gases and pollution are causing drastic changes to the Earth's climate system.



Loss of Forests

Explore how deforestation is disrupting natural carbon sinks, exacerbating climate change.



Clean Energy Solutions

Find out how embracing renewable energy can mitigate climate change and create a sustainable future.

Climate in Benevento

Average Temperature	18°C
Precipitation	800mm/year
Climate Classification	Humid Subtropical
Seasonal Variation	Moderate

Temperatures rising

The city of Benevento has recorded a progressive increase in average temperatures year after year, indicating an ongoing climate change here too.

Changes in rainfall

Fluctuations in seasonal rainfall and an increase in extreme weather events, such as severe thunderstorms and intense heat waves, have been observed.

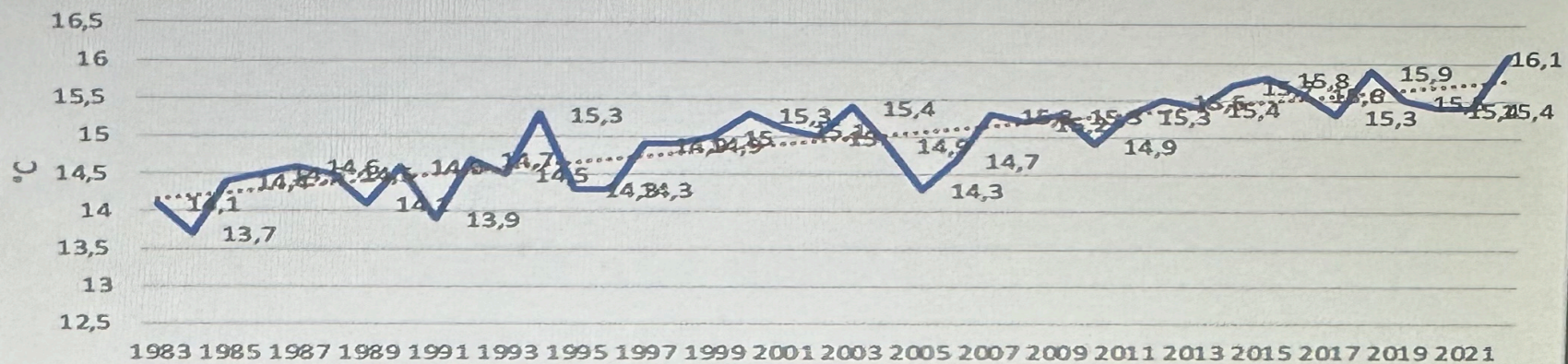
Temperature graphs in Benevento



Below are the data on changes in
temperature and rainfall since 1983 in
Benevento, taken from ISTAT.

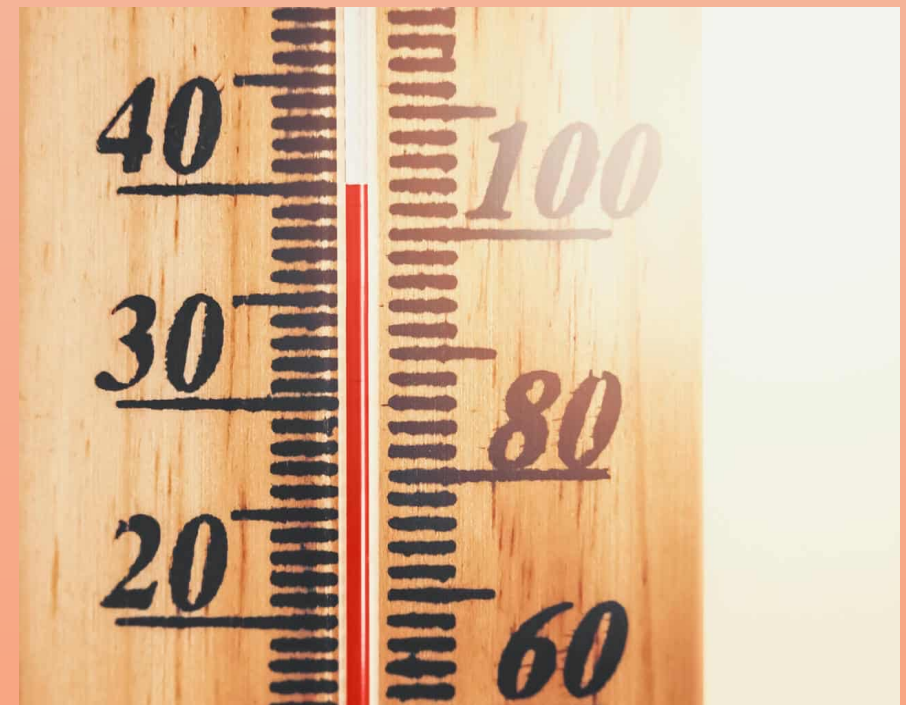


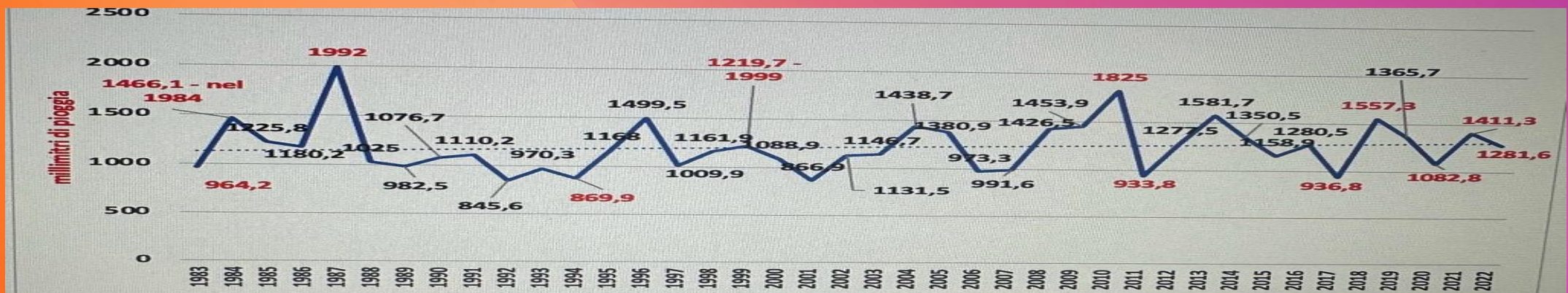
ANNO	T °C	Piovosità
1983	14,1	964,2
1984	13,7	1466,1
1985	14,4	1225,8
1986	14,5	1180,2
1987	14,6	1992
1988	14,5	1025
1989	14,1	982,5
1990	14,6	1076,7
1991	13,9	1110,2
1992	14,7	845,6
1993	14,5	970,3
1994	15,3	869,9
1995	14,3	1168
1996	14,3	1499,5
1997	14,9	1009,9
1998	14,9	1161,9
1999	15	1219,7
2000	15,3	1088,9
2001	15,1	866,9
2002	15	1131,5
2003	15,4	1146,7
2004	14,9	1438,7
2005	14,3	1380,9
2006	14,7	973,3
2007	15,3	991,6
2008	15,2	1426,5
2009	15,3	1453,9
2010	14,9	1825
2011	15,3	933,8
2012	15,5	1277,5
2013	15,4	1581,7
2014	15,7	1350,5
2015	15,8	1158,9
2016	15,6	1280,5
2017	15,3	936,8
2018	15,9	1557,3
2019	15,5	1365,7
2020	15,4	1082,8
2021	15,4	1411,3
2022	16,1	1281,6



Variation of the annual temperature of Benevento from 1983 to 2022

From the data it was possible to construct the graph showing the variations in average annual temperatures in the city of Benevento. The red line shows the trend, built with mathematical calculations and underlines how in 40 years the average annual temperature has increased by 1.8°C .





Change in Benevento's annual rainfall from 1983 to 2022

The second graph, again constructed with data from the last 40 years, shows the variations in rainfall; here too there is a trend line that underlines how rainfall varies; The amount of rainfall is high compared to the trend line, in 1987; and just below the trend line in 2022. This demonstrates the decrease in rainfall in the last 10 years with consequences for the climate and crops.



The Impact of Climate Change

Rising Temperatures

Embark on a journey to uncover the alarming surge in global temperatures and its impact on ecosystems and human health.

Altered Precipitation Patterns

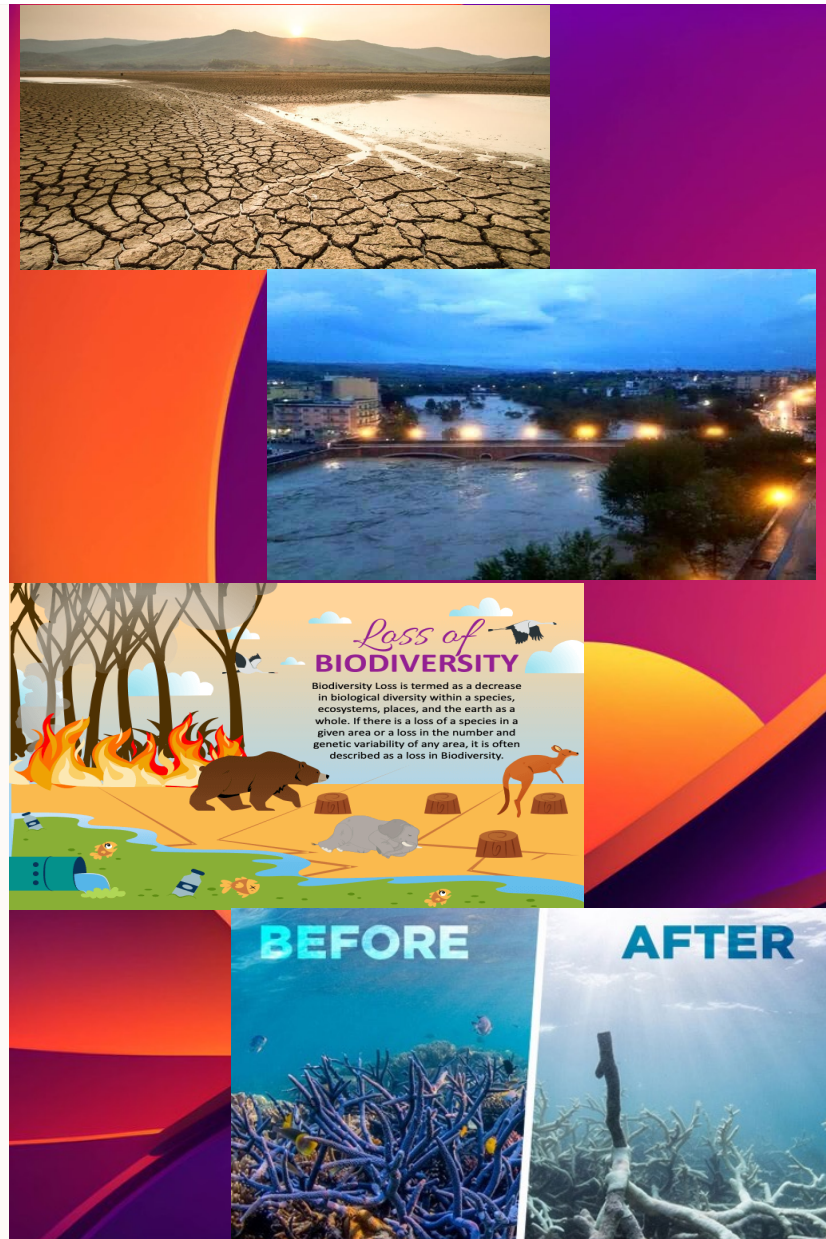
Delve into the fascinating world of changing rainfall patterns and how they are reshaping agriculture, water supply, and the occurrence of extreme weather events.

Loss of Biodiversity

Discover the urgent need to address the rapid extinction of species caused by habitat loss, rising temperatures, and disrupted ecosystems.

Ocean Acidification

Plunge into the depths of the ocean to uncover the devastating effects of increased carbon dioxide absorption on marine life and precious coral reefs.



The Consequences



Impact on Ecosystems 🌿

Witness the disruption of delicate ecosystems, leading to habitat loss, species displacement, and reduced biodiversity.

Rising Sea Levels 🌊

Foresee the perilous consequences of melting ice caps and glaciers, including coastal flooding and loss of low-lying areas.

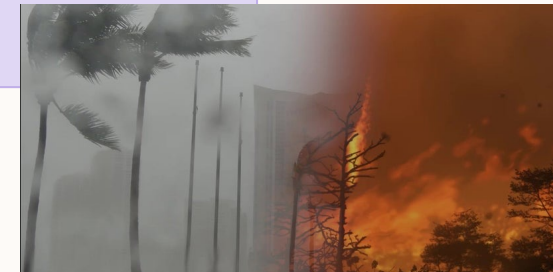
Water Scarcity 🚫💧

Contemplate the intensification of droughts and the depletion of freshwater resources, with profound implications for agriculture and human survival.



Extreme Weather Events 🌩️

Experience the increasing frequency and intensity of hurricanes, heatwaves, and other extreme weather phenomena, threatening human lives and infrastructure.



The Human Perspective

Health Risks

Understand the profound impact of climate change on human health. Explore the spread of diseases, such as vector-borne illnesses, and the exacerbation of respiratory conditions like asthma and allergies. 💉🤧

Economic Disruptions

Delve into the far-reaching economic consequences of climate change. Discover how rising sea levels and extreme weather events can lead to infrastructure damage, increased insurance costs, and decreased agricultural productivity. 💰🌧️🌊

Social Implications

Examine the social challenges posed by climate change. Discuss the potential consequences, including population displacement, migration, and conflicts over resources and land. 🌍🚧🏠



Solutions to Combat Climate Change



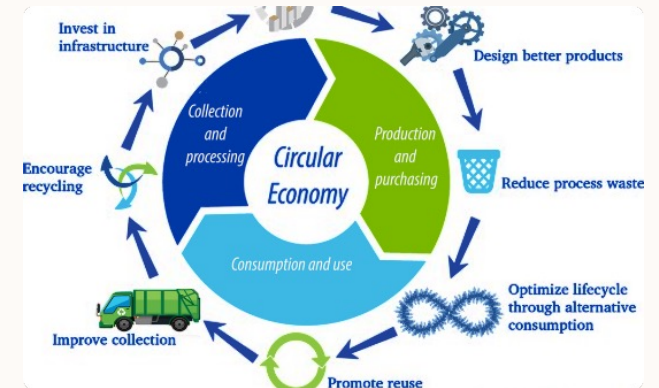
Renewable Energy

Discover the power of solar, wind, and hydro energy as crucial alternatives to fossil fuels.



Restoring Forests

Learn how reforestation efforts can help mitigate climate change by sequestering carbon and restoring biodiversity. 🌳🌱🌍



Circular Economy

Explore the concept of a circular economy that minimizes waste and maximizes resource conservation. ♻️🌍

Conclusion

By understanding the complex nature of climate change and its consequences, we can take actions to safeguard our planet and ensure a sustainable future for generations to come.

Climate change is a global problem that requires immediate collective action.

Only through a combination of individual efforts, mitigation policies and innovative solutions , we can protect our planet for future generations



Greetings

**I.C. G.B. BOSCO LUCARELLI
BENEVENTO**

ITALY

