



TEMPERATURES
IN MASSA-CARRARA
OVER THE LAST TEN
YEARS



Temperatures have been dramatically increasing over the last decades.

The primary cause of this increase is global warming, which is mainly due to greenhouse gas emissions such as carbon dioxide (CO_2) and methane (CH_4)

CAUSES



Pollution, fossil fuel combustion, deforestation, intensive breeding, mass production, overcrowding are some of the main causes of global warming that is bringing humanity to a point of no return.

Beyond this point it appears it will be no longer possible to safeguard our planet.

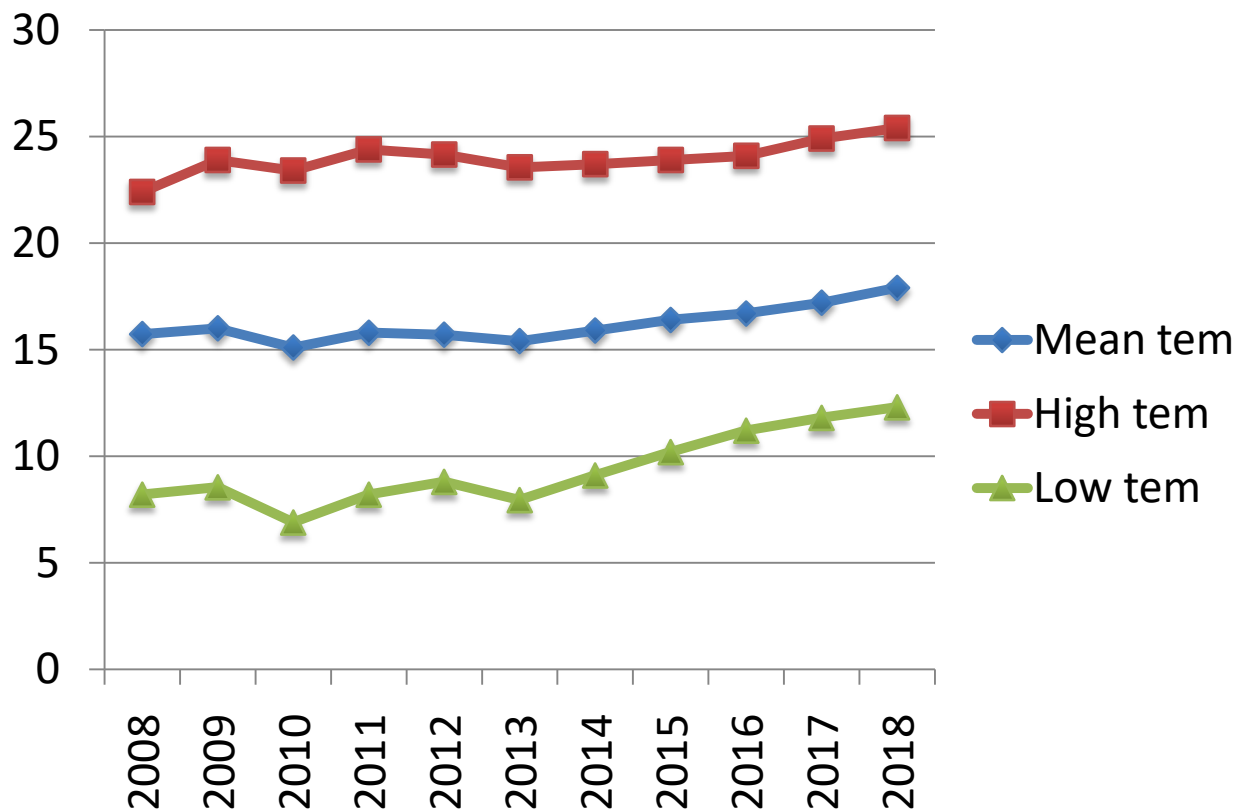
CONSEQUENCES

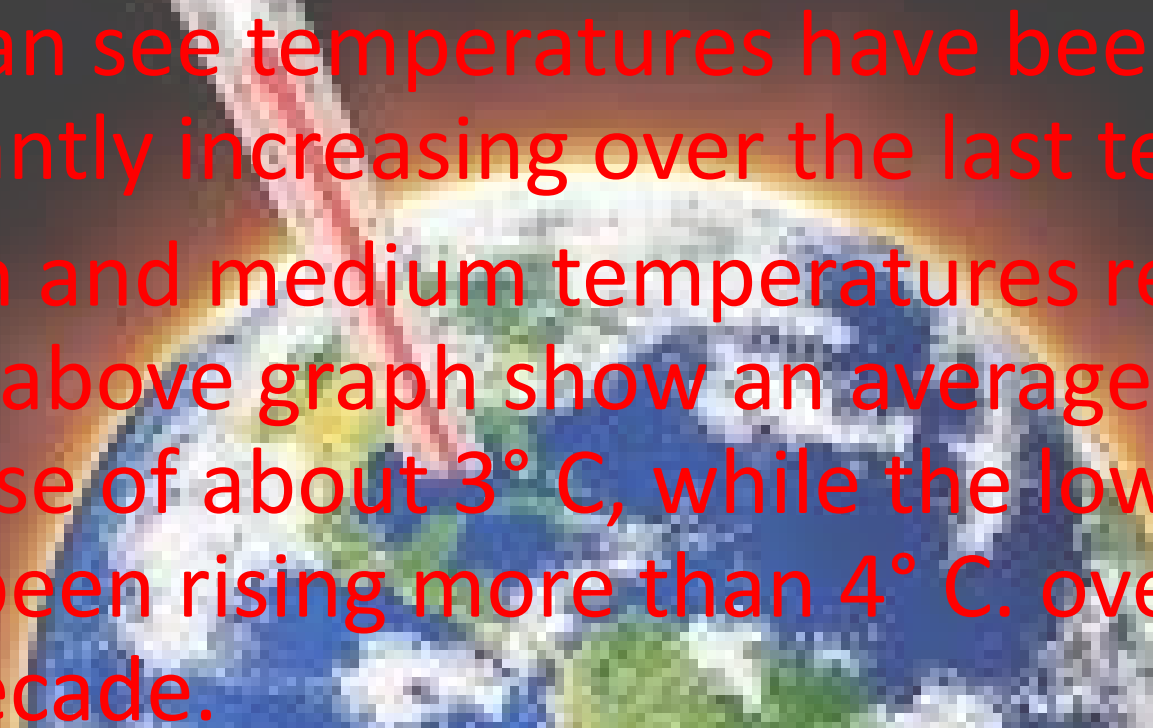
The effects of global warming are :

- An increase of the average temperature of the Earth.
- Alterations in the ecological system, including both the sea level raising and modifications of the quantity and the pattern of the rainfalls.
- A significant growth in the occurrence and concentration of extreme and tragic climate events, such as heat waves, fires, storms and hurricanes, floods.

These effects lead to other catastrophic events such as desertification, famine, the lost of a lot of bio-diversity just to highlight some among the many of them.

GRAPH OF THE TEMPERATURES OVER THE LAST TEN YEARS IN MASSA





As we can see temperatures have been constantly increasing over the last ten years. The high and medium temperatures recorded in the above graph show an average increase of about 3°C , while the low ones have been rising more than 4°C . over the last decade.

Summers are getting hotter and hotter and drier and drier; winters are warmer and warmer, while springs and autumns are getting shorter, wetter and characterised by heavy rains.

2018: 148 EXTREME EVENTS IN ITALY

The report on the climate changes impact in Italy published by *Osservatorio di Legambiente** on 19th November 2019 depicted a tragic reality which has been worsening through the years. The report shows that in the last 9 years, since 2010, 563 extreme events were recorded in Italy on the map of climatic risk. According to the information collected by *Legambiente* several areas, both costal and mountainous, important cities like Rome, Milan, Genoa, Naples, Venice, Palermo, Bari, Catania, Reggio Calabria, Turin and other smaller towns and villages were struck by extreme events which caused massive damages, the death of thousands of people, as well as many injured.

In particular, the data on temperature are picturing a country that is getting hotter and hotter with its average constantly rising more and faster than in the past.

Moreover, heat waves, which are becoming more and more frequent, occur to be particularly dangerous and deadly.

* *Legambiente* is an Italian environmentalist association whose mission is to make the environmental culture the centre of a new kind of development and diffused well-being. Important values for the association are the improvement of environmental quality, the fight against all forms of pollution, a wise use of natural resources, the construction of a more balanced relationship between human beings and the nature.

A GLOBAL WARNING

According to the latest report of the Intergovernmental Panel on Climate Change (IPCC) of the UN, the Earth's temperature will rise more than two degrees Celsius by 2100. The report by 831 scientists from 85 countries, said that climate change is "real, is happening now and humans have caused most of it."

For these reasons it is every single person's duty to become active actors in the new change trend in becoming conscious and responsible citizens, aware of the consequences of our everyday actions. In this perspective this work aims at engaging fellows, students and adults in becoming more and more respectful towards our Mother Land.

THE TIME IS NOW, NO MORE EXCUSES, NO MORE DELAYS!!!

WE WERE THERE BECAUSE WE CARE!!! STRIKING FOR FUTURE





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