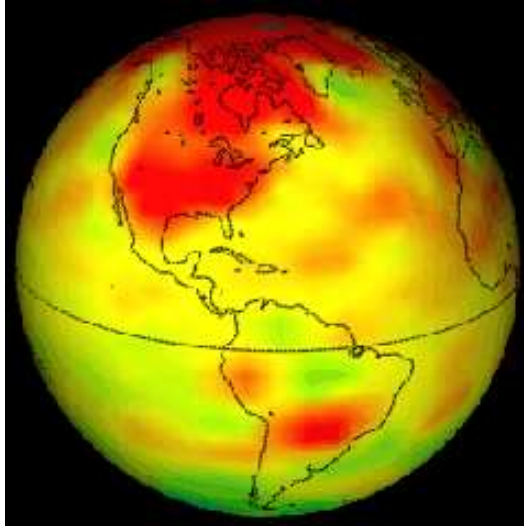


## The global warming.

Global warming - this is the process of a gradual increase in the average annual temperature of the atmosphere of the Earth and the world ocean.

A climate change on the Earth occurs as a result of natural internal processes. Among the basic external actions are the changes in the orbit of the Earth, the solar activity, volcanic ejections and greenhouse effect (consequence of ejection into the atmosphere of greenhouse gases). Automobile exhausts, plant smokestacks and other created by humanity sources of pollution together vent to the atmosphere of approximately 22 billion tons of the carbon dioxide and other greenhouse gases per year. In spite of such terrifying numbers, the season increases in the temperature on the Earth is questionable.



Global warming, illustration *noaanews.noaa.gov*

Data analysis shows that during the last century our planet the Earth was heated to one degree above average of index. Scientists think in the next 50 years the temperature will by hypothesis rise to 3-5 more degrees, which will lead to the severe consequences both for the Earth and for the people and the animal kingdom.



### What will be the climate of the nearest future?

North Europe waits temperature drop, very strong rains, quickening of the gale-force cyclones and increase in sea level.

Central Europe will prove to be between two climatic peaks on the north and in the south. As a result weather will become extremely changeable, it is necessary to be prepared for any unexpected contingencies. According to forecasts, region waits warmer than now winters, and cloudbursts in summer.

Western Europe risks to be deprived of Gulf Stream, which will involve the significant temperature drop, which will touch such countries as Great Britain, Ireland, Iceland, Netherlands, Belgium, Scandinavian countries, European north of the Russian Federation. The southern regions of East Europe and the Mediterranean wait long arid and very hot periods.

In North Europe and on the West Coast of the USA sharply will increase the number of the gale-force cyclones.

In such countries as Spain, Portugal, France, Greece and Turkey, eastern of U.S. States, Canada, East China, will increasingly more frequently flare up forest fires. In the winter months will fall out less than sediments, which will deprive the population of the possibility to supplement potable water supply, which must be stored of up to years.

In central Europe they will lead summer shower precipitation to the frequent floods. Thus, in the Rhine in the last 15 years there was as much floods, as in the entire century to that. Snow it will not be even in the Alps, where landslides and mudflows will be increased in frequency.

According to the very moderate estimations, the level of World Ocean will raise on 30-50 more cm, which will lead to the partial or complete flood of many coastal territories, especially in Asia, where the substantial part of the population lives.

Due to the melting of permafrost the enormous territories of Siberia and north of Canada will become the swamps, not suitable for the life of man.

An increase in the temperature, especially in the winter period, will allow insects and other carriers of diseases to enlarge living environment. In connection with this to the middle of the 21st Century is forecast an increase by morbidity by malaria by 60%. In many regions is forecast the shortage of qualitative drinking water, which will lead to an increase in the infectious intestinal diseases.

Climatic changes in the next 50 years can place about fourth of ground-based animals and plants on the face of extinction.



Global warming can destroy the polar bears.

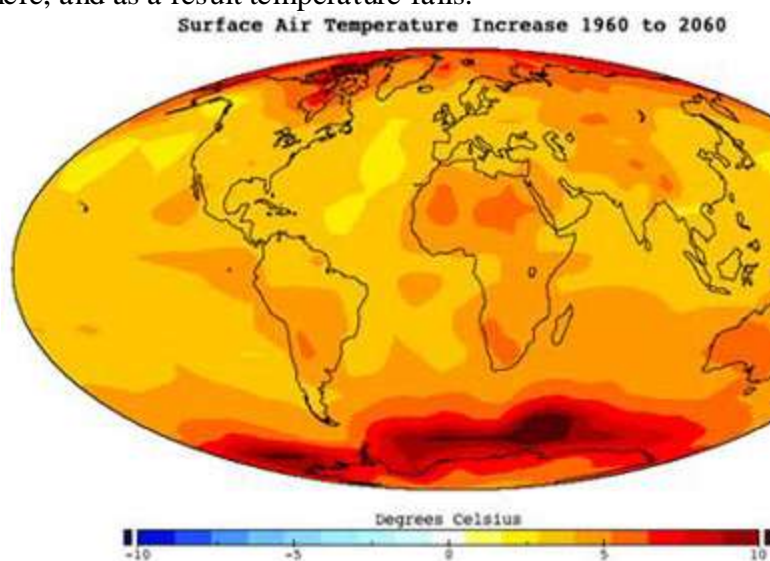
According to the estimations of scientists by 2050 from the face of the Earth there can disappear to 1 mln. species of flora and fauna. As a result, there will perish at least one individual of ten. These losses unavoidably negatively will affect the conditions of the vital activity of man.

### Ideas of scientists on the rescuing of the Earth from the global warming.

Proposals on the solution of the problem of global warming from the chief scientists bear now and then fantastic nature, but they are examined by experts seriously, because they can prove to be useful, sooner or later.

Here are only some ideas of scientists on the rescuing of the Earth from the global warming.

Today the Earth absorbs 70% of entire radiation, which is obtained from the sun, and therefore should be something devised, in order to reduce this index. Astronomer Roger Ancel proposes to place around Earth millions of lenses with a diameter of 60 cm and by weight several grams, which will be capable of reflecting solar rays. This will lead to reduction in the solar radiation. It is necessary to note that the reduction of solar illumination to 1,6% will decrease an increase in the temperature. The effect, which renders to the temperature scattering light, is observed, for example, with the volcanic eruption, when the enormous mass of particles falls into the atmosphere, and as a result temperature falls.



According to another similar idea (article in the periodical *Acta Astronautica*) it is intended to create around the Earth the ring of small particles or spacecraft, by which it is possible to overshadow tropics and, thus, to soften climate. The reflecting particles can be taken from the mine workings on the Earth, the Moon or on the asteroids.

Expenditures for these projects can prove to be non-lift: 500 billion dollars during the arrangement of spacecraft and from 6 to 200 trillion dollars in the case with the particles.

Climatologist Wallace Broecker proposes to scatter in the stratosphere at the height more than 15 km with the aid of spheres and aircraft of the particle of sulfurs, which will be held at this level year -two. This project with the dispersion of sulfur is evaluated at 50 billion dollars.

It is proposed to also produce salt vapor with the aid of the special devices, which will take away sea water and convert it into the genuine clouds.

There is an idea on the creation in the sea zones of the floating artificial islets of white color with the reflecting surface or the coating with the plastic materials (the same white color) of some desert regions for the reflection of the solar radiation, which penetrates to the earth.

Proposal on the scattering above the ocean of the substances, which contribute to an increase in the algae, which absorb the large volumes of carbon dioxide, already realizes in some regions of Antarctica.

Well-known British astrophysicist Stephen Hawking considers that the survival of mankind depends on his ability to find new houses elsewhere in the universe, because the risk of the destruction of the living beings as a result of global warming swiftly grows. It considers that people could have a constant base on the Moon after only 20 years and a colony on Mars in the subsequent four decades.

Global warming threatens to planet by many troubles. But, since for any essential change is necessary the time, humanity still has a chance.

