

Lack of water balance leads to drying up wetlands and consequently the habitats of some truly rare species disappear. In order to prevent it and protect biodiversity, various precautions are being taken.

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Strict protection of species

The following species of animals are strictly protected

Fire of Peat Bog in Grądy

A dried peat bog is like a bomb that may explode anytime.

- The extinction of, at least, one species body affects other species. By destroying those species we're losing our chance to use their potential.

- Destroying biodiversity is a great loss to mankind. Let's try to protect it.

Trees damaged by pests

Small red animals have been nesting in ash.

Life returns after storm

A revitalization process after a storm

This is heavy rain in Partkowice

Flooded forest in Prusinowo

flooded forests

This is a watershed between Szamocin and Władysławów

Barren forest in the Forest District of Gryfice

Forest and meadow after fire

Nature and climate change

The changes in the distribution of species are visible in the composition of bird species near the water. The number of species is increasing, but the number of species is decreasing.

Destroyed forest in the Forest District of Gryfice

The aftermath of a storm is visible in the broken-down trees.

Destroyed forest in the Forest District of Gryfice

Wrecked down trees in Polkowice

This is River Gorkalka near Village Szamocin

This is a tornado near Police

The impact of global warming on water, soil, air and biodiversity in our region

Rainfall and average temperatures in years 1980-2017

Dying forest, damaged by pests

This is a forest damaged by lightning

The boundary between the burned and unburned Peat Bog

Strict protection of species

The following species of animals are strictly protected

Strict protection of species

The following species of plants are strictly protected

Burned forest in the Forest District of Gryfice

The heat and lack of rainfall cause fires in forests

Unusual weather conditions

Unusual weather conditions in the region

The water level indicator in Szamocin in years 1980-2017

There are visible trends. This is the water level

This is River Mielnica flowing into Szamocin Bay

This is a surface of the River Rega near village Szamocin

Strict protection of species

The following species of plants are strictly protected

Peat Bog in Nature Reserve Miazg near Szamocin

A long peat bog includes the grass meadows

An undamaged peat bog thanks to a high water level reduces the decomposition of organic matter and carbon dioxide emission.

Global warming is a problem. This phenomenon occurs in our region as well. Its impact is visible as for air, soil, water and biodiversity.

and this is what tributaries of the River Rega look like

This is how the level of water changed over the last 5 years





*„Ostatnia szansa – zachowanie bioróżnorodności dla następnych pokoleń”
(2015-1-PL01-KA219-016980_3)*

The impact of global warming on water, soil, air and biodiversity in our region



*Project financed by the European Union budget within Erasmus+ Programme,
action KA2 - Cooperation and Innovation for Good Practices Strategic Partnerships – schools' cooperation.*

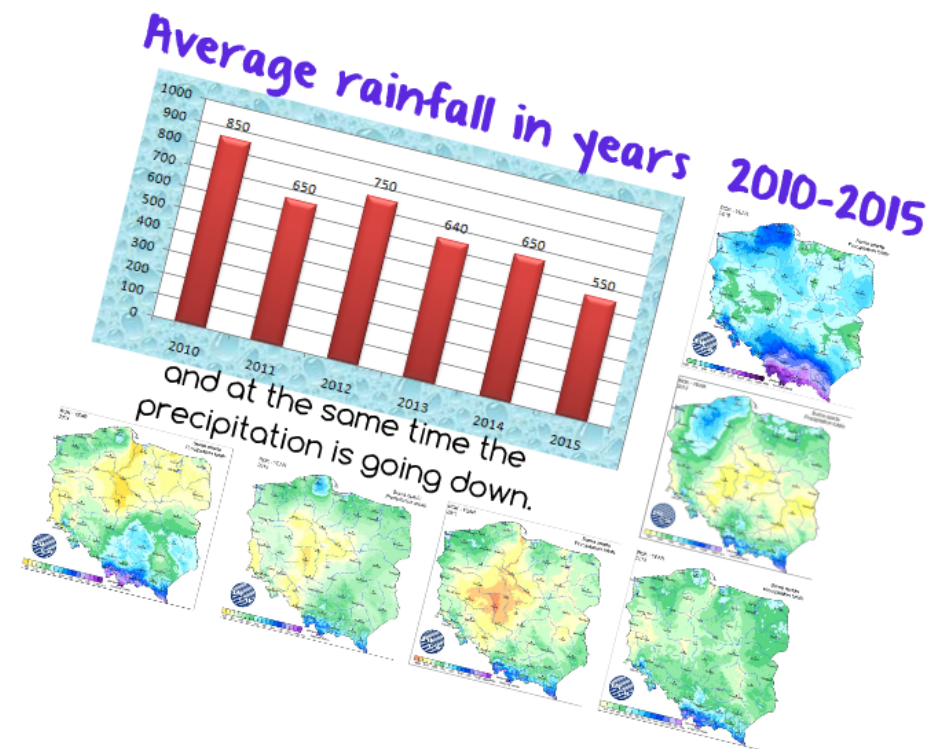
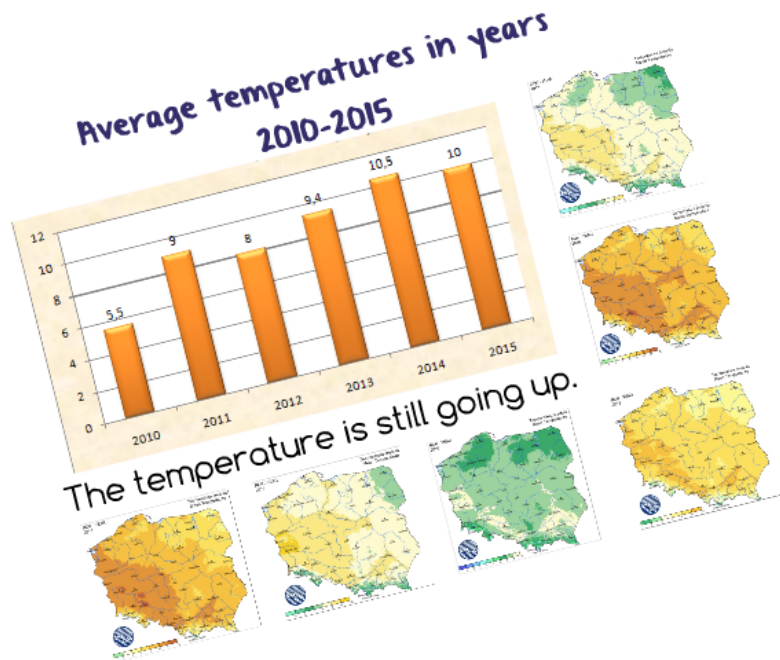


Global warming is a problem.

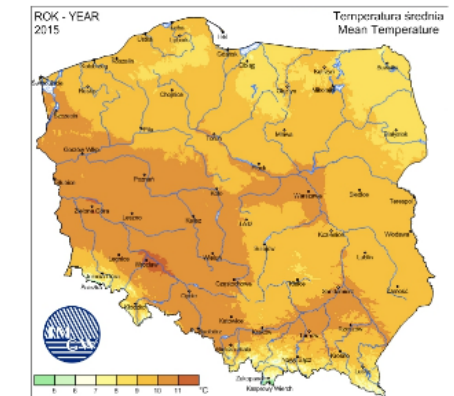
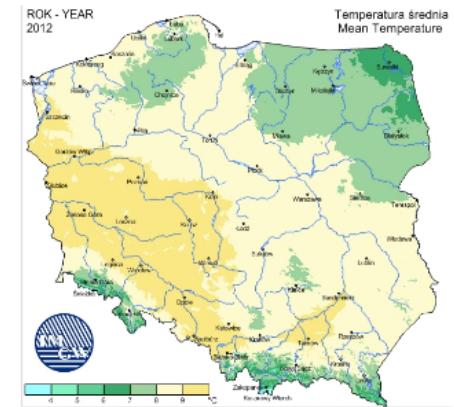
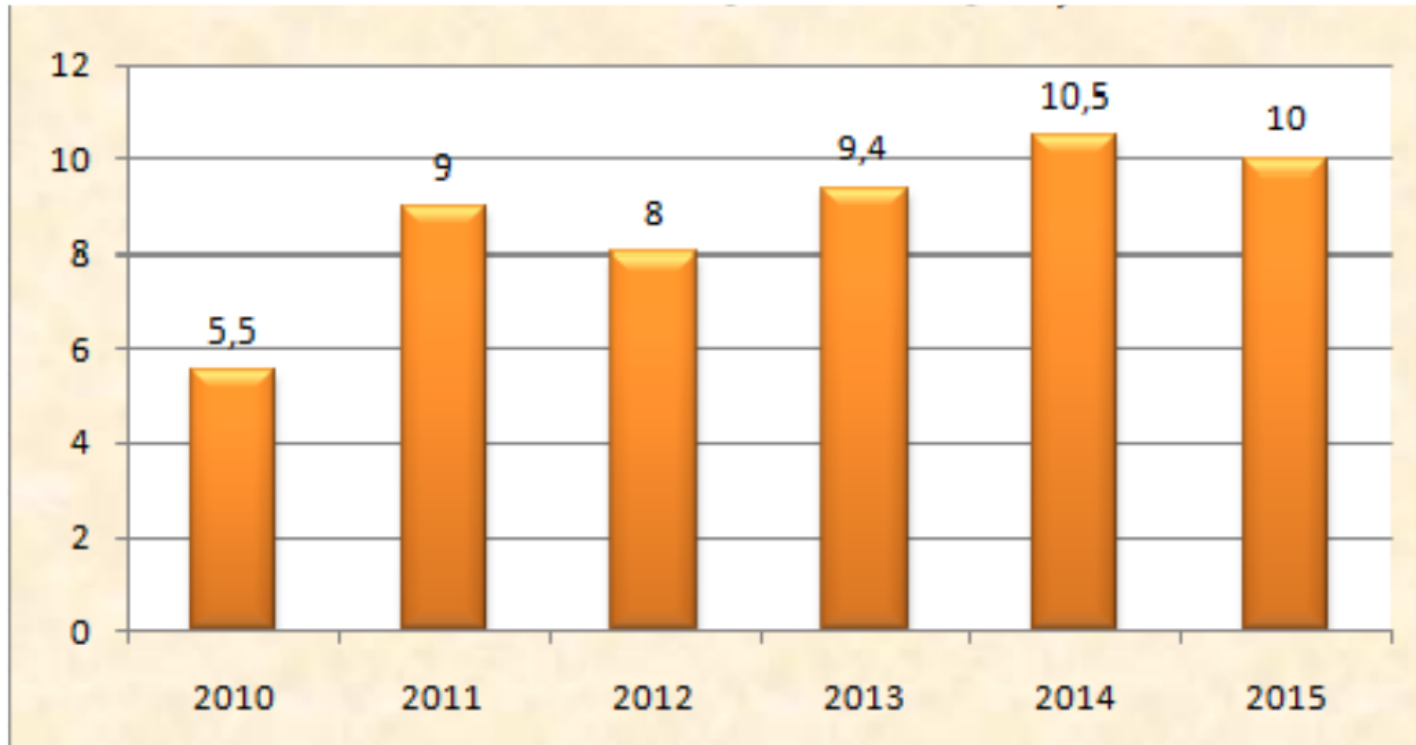
This phenomenon occurs in our region as well. Its impact is visible as for air, soil, water and biodiversity.

Rainfall and average temperatures in years 2010-2015

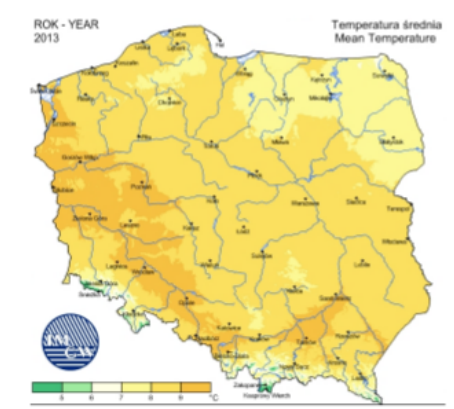
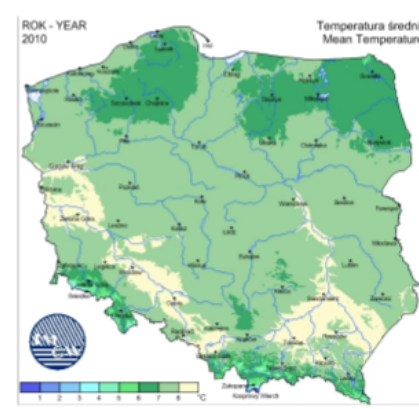
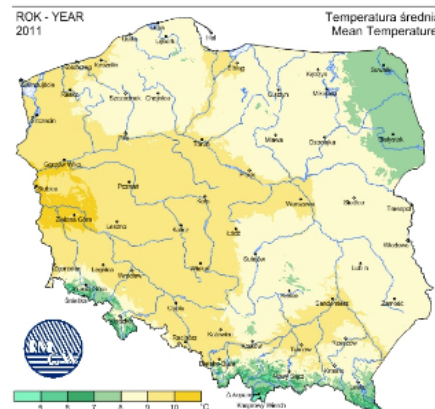
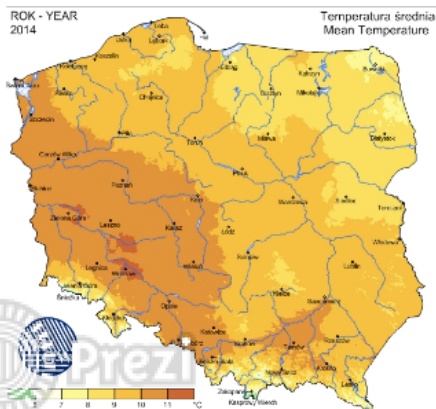
- We analyzed the annual changes of temperature and precipitation in our region over the last 5 years.



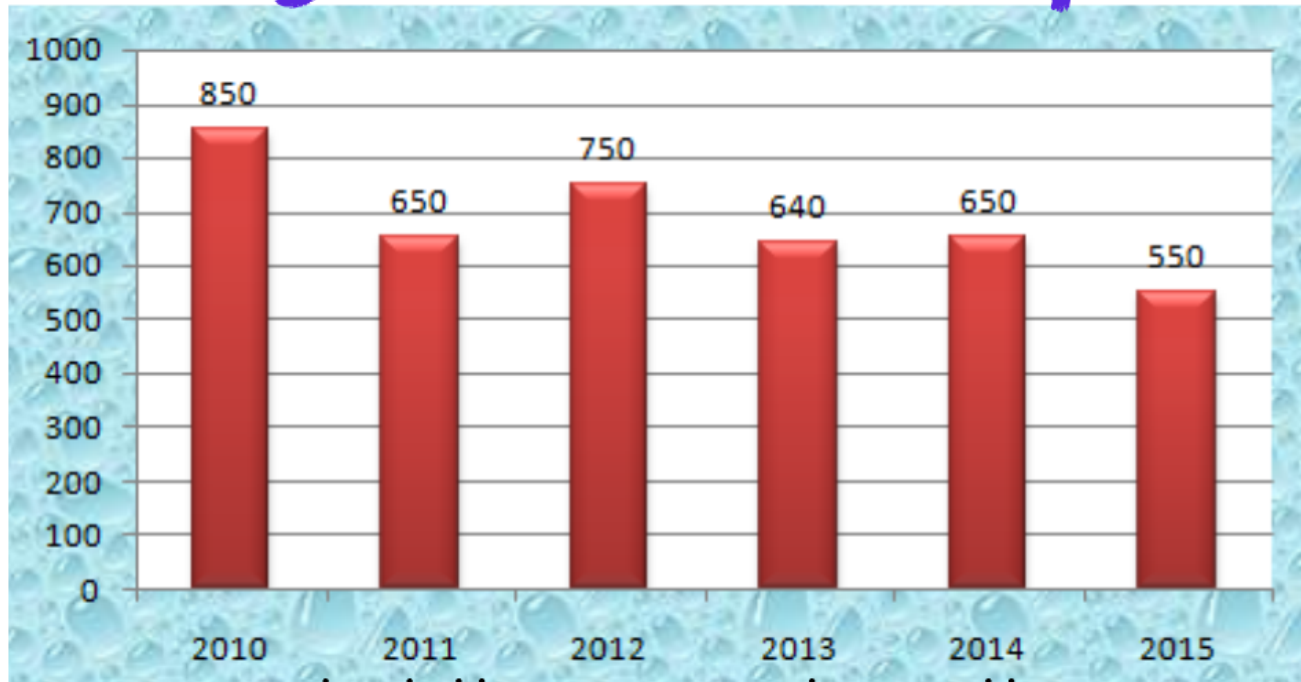
Average temperatures in years 2010-2015



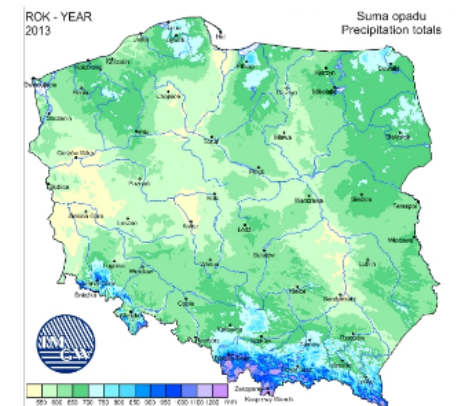
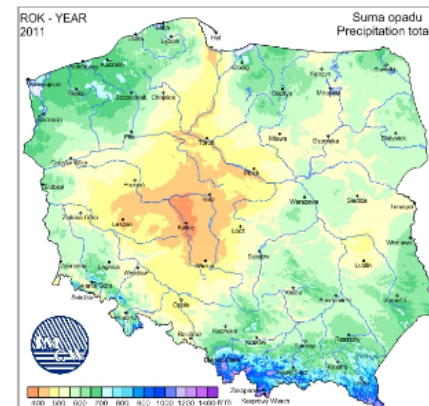
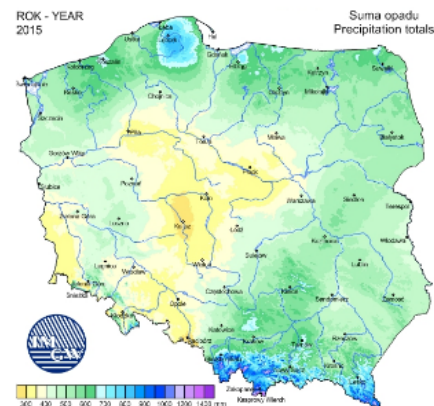
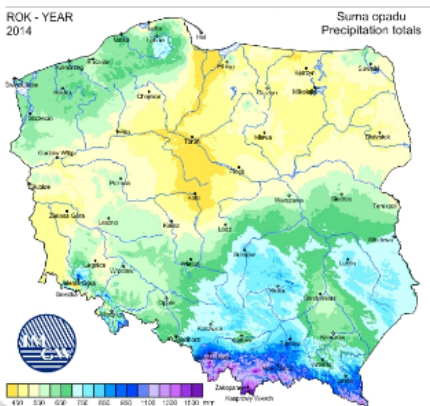
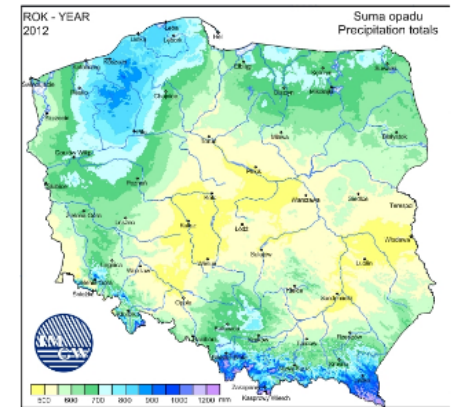
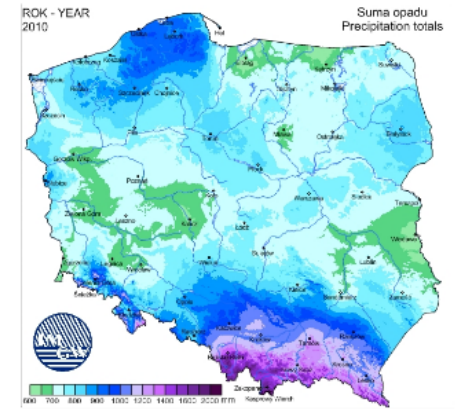
The temperature is still going up.



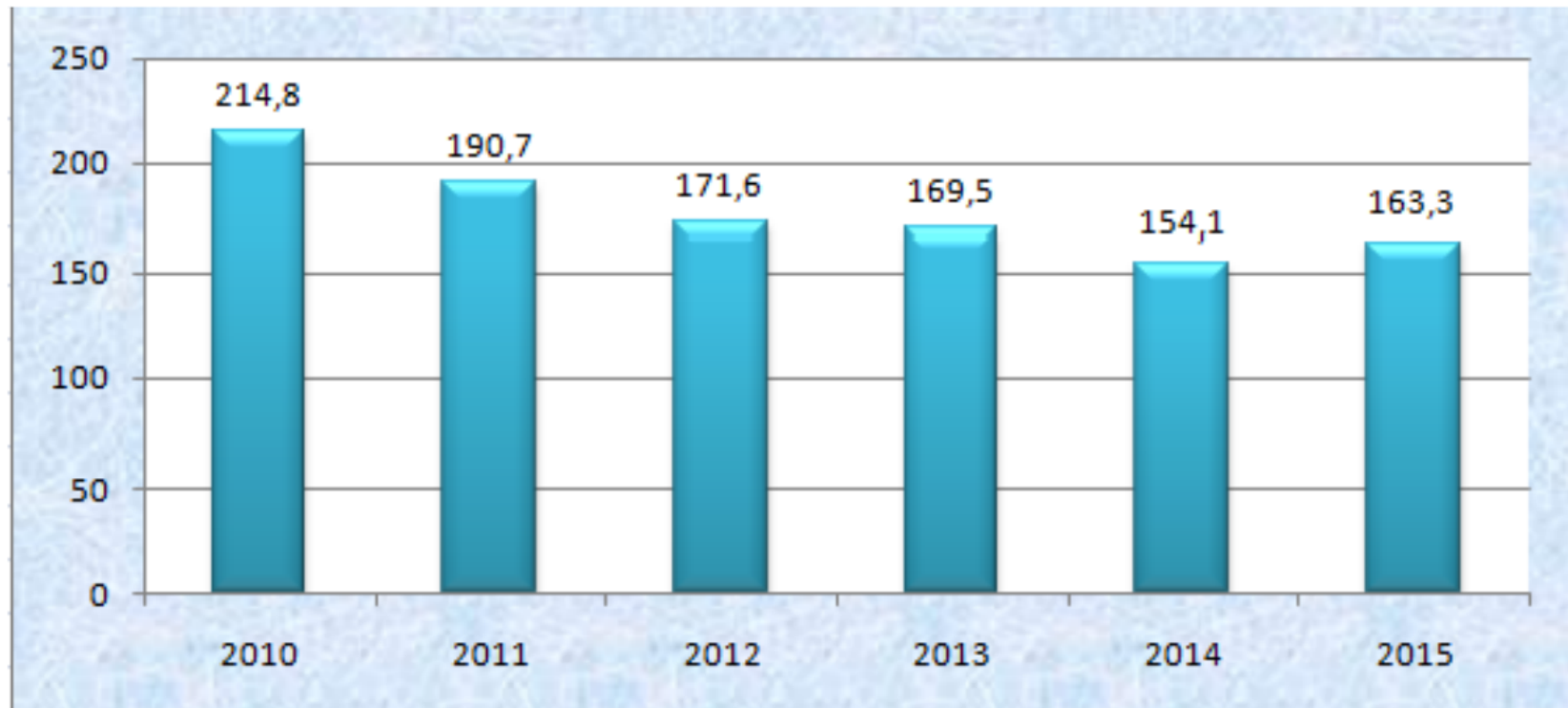
Average rainfall in years 2010-2015



and at the same time the precipitation is going down.



State of water in years 2010-2015 on the water level indicator in Trzebiatów



Our River Rega and its tributaries are drying up.

This is how the
level of water
changed over the
last 5 years

The water level indicator in Trzebiatów in years 2011 and 2016



This is the water level in
2011

This is the water level
in 2016

and this is
what
tributaries of
the River Rega
look like

This is River Miedzna flowing into Rejowicki Bay



This is outflow of the River Rega near village Łęczno



This is River Gardominka near village Łęczno



Unusual weather conditions



- Along with those climatic changes, there are more and more sudden weather phenomena like thunderstorms or tornadoes

This is a waterspout between Świnoujście
and Międzyzdroje



This is a tornado near Police



This is heavy rain in Pustkowo



Destroyed forest in the Forest District of Gryfice



- The aftermath of a storm is catastrophic: knocked-down trees

Destroyed forest in the Forest District of Gryfice



knocked-down trees in Pobierowo

This is a trunk damaged by lightning



Flooded forest in Prusinowo



flooded forests

Life returns after storm



A revitalization
process after
a storm

Burned forest in the Forest District of Gryfice



The heat and lack of rainfall cause fires in forests

Burned forest in the Forest District of Gryfice



Forest and meadow after fire

Trees damaged by pests



- Dried soil conditions make trees weaker.
- Consequently, they are more vulnerable to pests.



Dying forest damaged by pests



An undamaged peat bog thanks to a high water level reduces the decomposition of organic matter and carbon dioxide emission.

Peat Bog in Nature Reserve Mszar near Siemidarżno



A living peat bog reduces the global warming.

Fire of Peat Bog in Grądy



A dried peat bog is like a bomb that may explode anytime.

The boundary between the burned and untouched Peat Bog



Even many years after the fire a peat bog doesn't regain its initial form



Climatic changes have a great influence on migration of various species of animals and insects.

Nature and climate change



Common frog (*Rana temporaria*)



Wasp spider (*Argiope bruennichi*)



Comma (*Polygonia c-album* L.)

- The change in the distribution of some species. Climatic changes don't only involve the risk of the extinction of our local species. Some very rare and protected species are beginning to expand. The wasp spider may serve at this point as a good example, because it's becoming more and more numerous.

Lack of water balance leads to drying up wetlands and consequently the habitats of some truly rare species disappear. In order to prevent it and protect biodiversity, various precautions are being taken.



Strict protection of species



Erica tetralix L. (Cross-leaved heath)

- The following species of plants are strictly protected:



Myrica gale (*Myrica gale* L.)

Strict protection of species



Scheuchzeria palustris L. (Rannoch-rush)

The following species
of plants are strictly
protected:



Drosera rotundifolia L.
(Round-leaved sundew)

Strict protection of species



Circus aeruginosus (Western marsh harrier)

The following species of animals are strictly protected:



Crex crex (Corn crane)

Strict protection of species



Lanius collurio (Red-backed shrike)

The following
species of animals
are strictly
protected:



Acrocephalus paludicola (Aquatic warbler)



- The extinction of, at least, one species badly affects other species. By destroying those species we're losing our chance to use their potential.

- Destroying biodiversity is a great loss to mankind. Let's try to protect it.

