

How are people changing the climate?

More

1. Man-made climate change?

Solution: Worksheet 2

1.

a)

Increased: North East Asia, North West Asia, northern areas of North America, Canada

Decreased: North China, Nigeria and Chad in Africa, Peru and Bolivia in South America, south eastern parts of North America, Alaska.

Areas on the map without symbols may be due to unchanged temperatures, but probably also because the measurement data in rural areas may be scanty.

b)

The most striking precipitation changes have occurred in the northern parts of Africa. This area was dry also in the 19th century, and the farming industry in such dry areas has always been reliant on the water that the rainy season uses to bring.

When the dry season occurs after a "rainy" season failing to give rain, the consequences for the farming industry are often catastrophic, and the people may suffer from famine and starvation.

2.

The solubility of a gas in water decreases as temperature rises. This means that larger amount of gas is allowed to dissolve in cold water than in warm, and that warm water has the capacity to absorb less gas than cold water.

If the temperature in the sea water increase, the oceans can store less CO₂ from the atmosphere. We may on the contrary have that the oceans emit CO₂ to the atmosphere.