

CONSERVATION BIOLOGY

Through the geological times thousands of species were extinct and the extinction rates increased after industrial revolution.

Main reason for this extreme extinction rates is the rapid increase in human population.

Human population

1859 1 billion

2018 7,7 billion

2050 9,8 billion

2100 11,2 billion

> Carrying capacity at most 10 million

THREATS OVER BIODIVERSITY

> **Are the influence of each country on biodiversity equal??**

> **Conservation Biology**- the management of nature and of Earth's biodiversity with the aim of protecting species, their habitats and ecosystems from excessive rates of extinction and erosion of biotic interactions.

- > **It was started to develop in 1980s.**
- > **First target is the conservation of all ecosystems for long period of times.**
- > **Economic factors are at the second order**

An interdisciplinary science;

Population biology

Taxonomy

Ecology

Genetics

Forestry and wild life management

Moral principles of Conservation biology (Soule 1985);

Species and ecosystems should be protected

Extinction of populations should be stopped

Ecological integrity should be protected

Biological diversity has its own value

- 1865 Commons, Open Spaces and Footpaths Preservation Society**
- 1895 National Trust for Places of Historic Interest / Natural Beauty**
- 1899 Royal Society for the Protection of Birds**

RALPH WALDO EMERSON

HENRY DAVID THOREAU

JOHN MUIR

GIFFORD PINCHOT

ALDO LEOPOLD

ELLEN SWALLOW RICHARDS

RACHEL CARSON

1978 1st International Conservation Biology Conference

Ecolog Michael Soule

Michael Soule, Paul Ehrlich and Jared Diamond – development of conservation biology

1985 Foundation of Conservation Biology Society

National and International development of awareness.

New National parks and protection areas

Laws for endangered species

Acts for conservation of Biological Diversity (CITES etc)

2010 was declared as Year of Biodiversity by United Nations



Conservation Biology has a Professional society

Society for Conservation Biology(www.conbio.org)