

Jan Evangelista Purkyně University in Ústí nad Labem

Faculty of Environment

Study material

IMPACT OF CLIMATE CHANGE ON FOREST ECOSYSTEMS

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Aims

aims of the course unit: to strengthen the climate literacy of doctoral students of the doctoral program with a focus on the relationship between global change and forest ecosystems; provide up-to-date information on the impacts of climate change so that the doctoral student understands the aspects that affect the climate, recognizes the credibility of the source of information on the topic, can communicate meaningfully to understand the relationship between global change, especially increased CO₂ concentrations, changing habitat conditions and production activities of forest ecosystems.

Study topics

1. climate system – physical nature
2. ecological succession and competition
3. primary production and respiration of the ecosystem
4. changes in the ecological area
5. impact of global change on forestry production

Study literature

NÁTR L. (2006) Země jako skleník: proč se bát CO₂? Praha: Academia.

BRAVO F et al (eds.) (2017) Managing Forest Ecosystems: The Challenge of Climate Change. Springer International Publishing.

LANDSBERG J, WARING R (2014) Forests in Our Changing World. Island Press/Center for Resource Economics.

MAREK MV a kol. (2011) Uhlík v ekosystémech České republiky v měnícím se klimatu. Praha: Academia.

ASHTON MS et al. (eds) (2012). Managing Forest Carbon in a Changing Climate. Springer.