

Biogeography. Lecture 1

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Outline

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Biogeography
Introduction



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Course description

This course will describe the spatial patterns in the distribution of species and will examine how abiotic and biotic factors are hypothesized to result in these patterns.

We will study:

- ▶ Main biogeographical regions of the world, their most important plants and animals;
- ▶ Main Earth biomes;
- ▶ History of plant and animals distribution.

Students will demonstrate this knowledge in a classroom presentation. Laboratories will be shifted to the spring break trip.



Instructor

Instructor : Dr. Alexey Shipunov

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Know your Syllabus!

© Shipunov, A. Biogeography [Electronic resource]. 2014—onwards.
Mode of access: http://ashipunov.info/shipunov/school/biol_330

BIOL 330: Biogeography



Course materials:

- [Syllabus](#) (PDF, 0.2 Mb)
- [Students: presentations, exams, points etc.](#) (Excel, 0.02 Mb)
- [Lecture 1](#) (PDF, 0.1-Mb)
- [Old lectures](#) (2014)

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http://ashipunov.info/shipunov/school/biol_330/



Presentations

- ▶ From February, every Wednesday lecture will start from short presentation based on the primary literature representing the most important directions of contemporary biogeography.
- ▶ Every student in a class should prepare presentation **individually**.
- ▶ Presentation is mandatory as well as participation in the discussion.
- ▶ Along with my lecture presentations, your presentations will become materials for exams.
- ▶ PDFs of articles for presentations and guidelines will be available for download on the Web site.



Biogeography

Introduction



Why do polar bears not eat penguins?



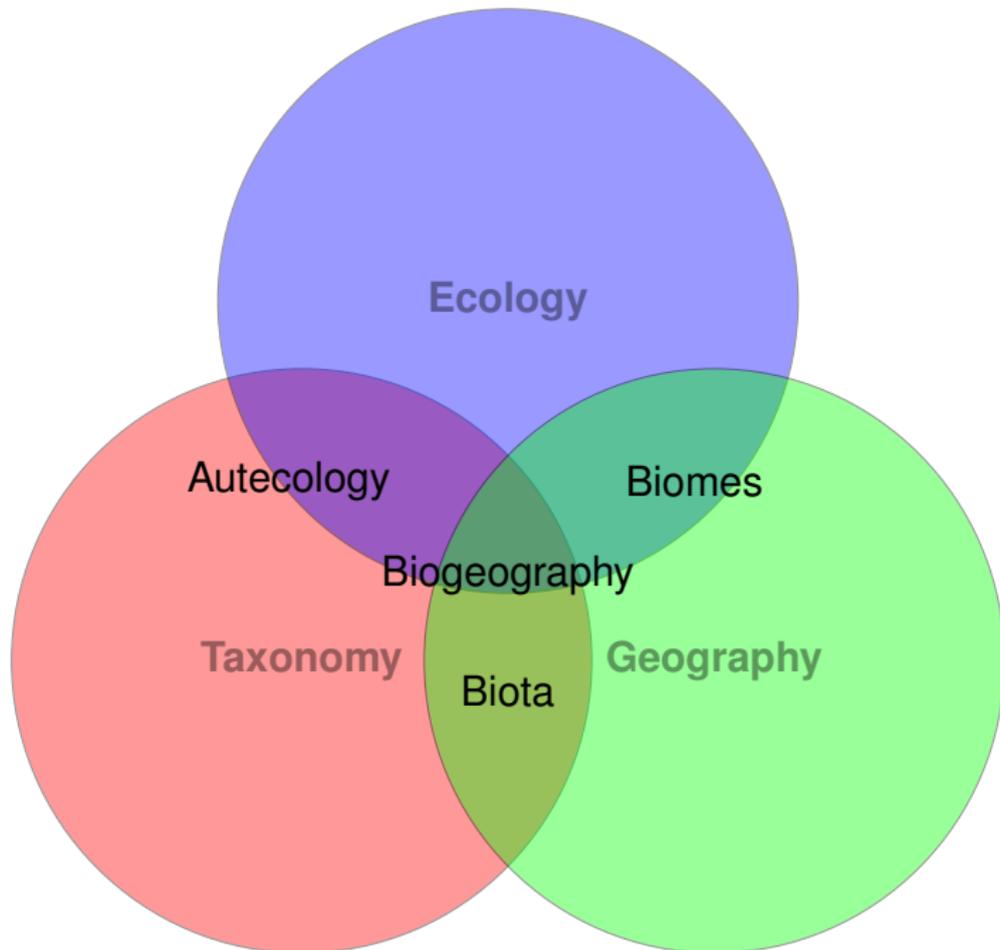
What is biogeography?

Intersection between:

- ▶ Geography in wide sense (including climatology, landscape science, and even historical geology)
- ▶ Ecology (both of organisms and communities)
- ▶ Taxonomy (including phylogeny)

Contemporary biogeography always always takes into account the historical aspect.





My contributions to biogeography

- ▶ Island biogeography: small uprising islands of White Sea (Russian Arctic)
- ▶ Species biogeography: color polymorphism in Caucasian primroses
- ▶ Regional biogeography: flora of North Dakota



Around biogeography

- ▶ Geography + ecology + taxonomy = biogeography
- ▶ Geography + ecology = geographic ecology, Earth biomes
- ▶ Geography + taxonomy = floristics and faunistics
- ▶ Ecology + taxonomy = autecology, ecology of species



Summary

- ▶ Biogeography is an intersection between geography, ecology and taxonomy



For Further Reading



A. Shipunov.

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