



R is not only for programmers: Experience of marine biologist

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- Sophia Nazarova

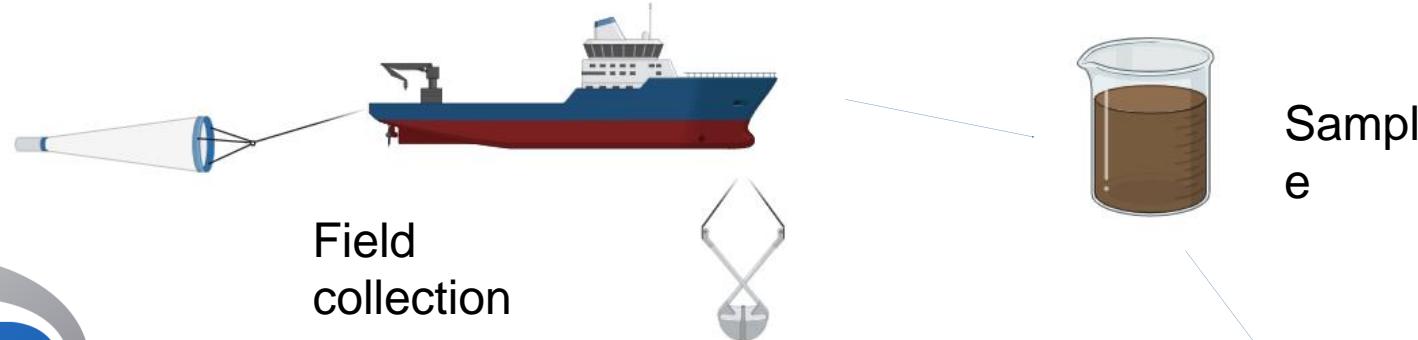
- PhD in biology (2016)
- 15 years of R programming
- Co-author of the book „Intuitive statistics. Using R!“ 2012.
ISBN: 978-5-94074-828-1 (in Russian)
- 25 years of field work
- Nature guide and specialist in environmental education
- Author of nature blog @naturaubique
(Instagram, Telegram – in Russian)
- Mother of two



Data analysis

	A	B	C	D
Sample test				

Data digitalization



Field collection

Sample



Sample processing

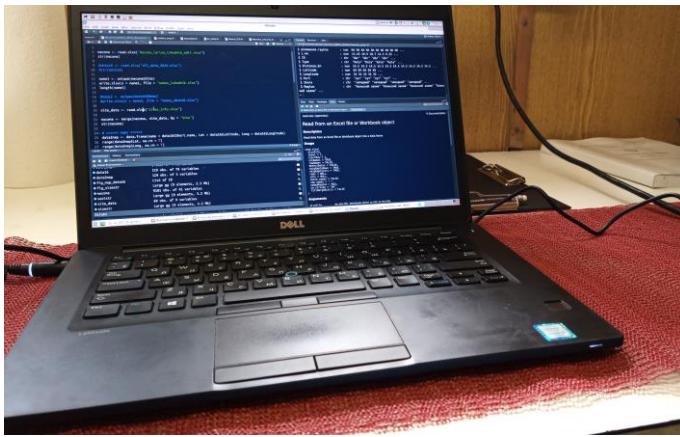


Species identification,
Measuring, counting,
weighting



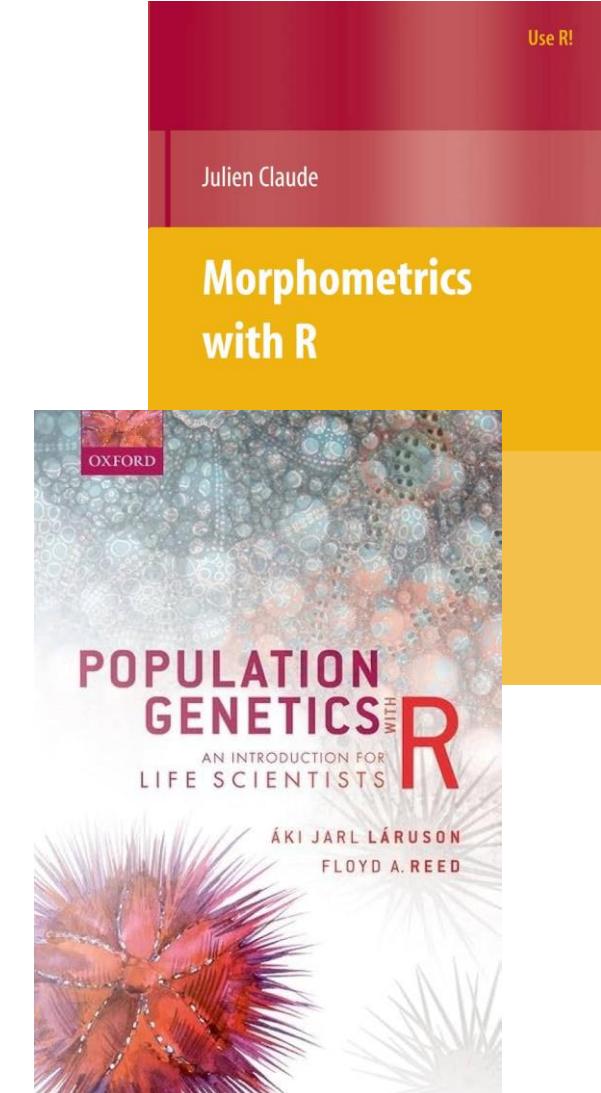






- Cross-platform
- Open source
- Advances graphics
- Reproducible
- Universal
- Fast development

Why R?



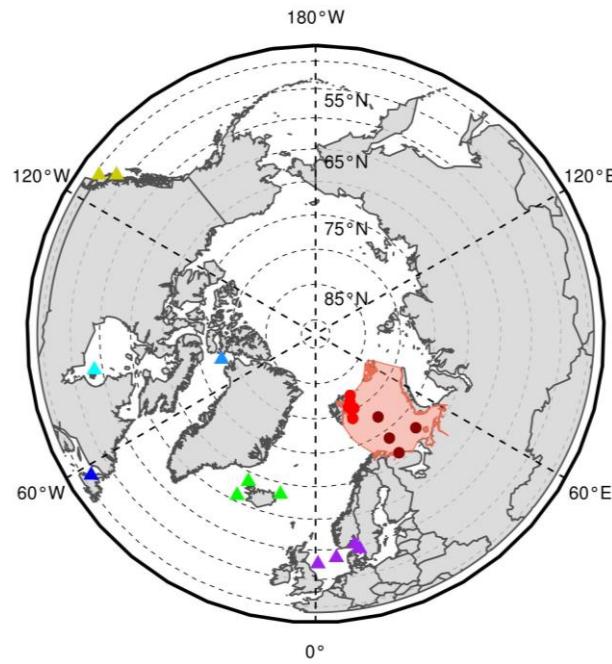
OCEAN



SPACE



Mapping

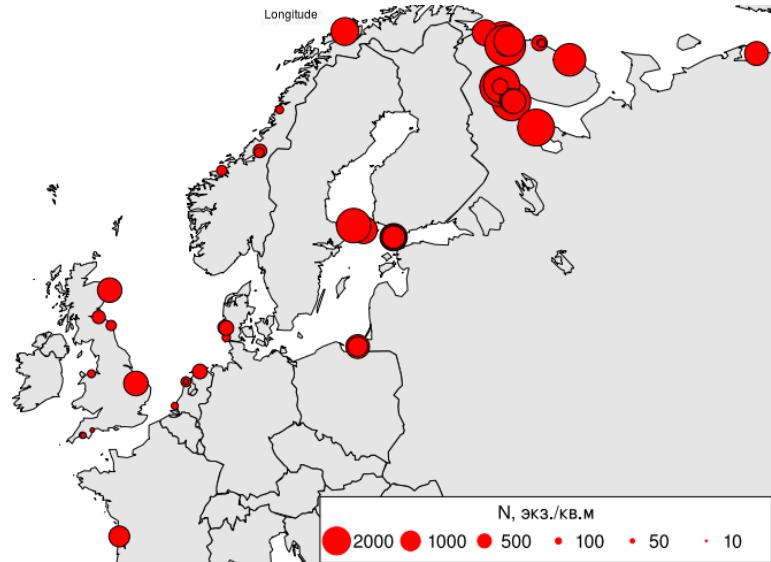
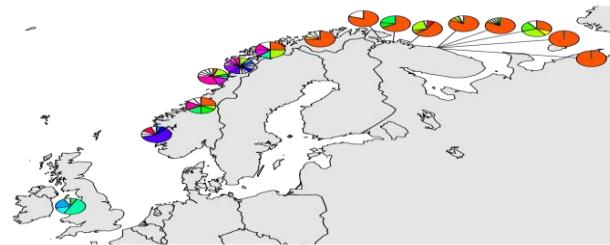
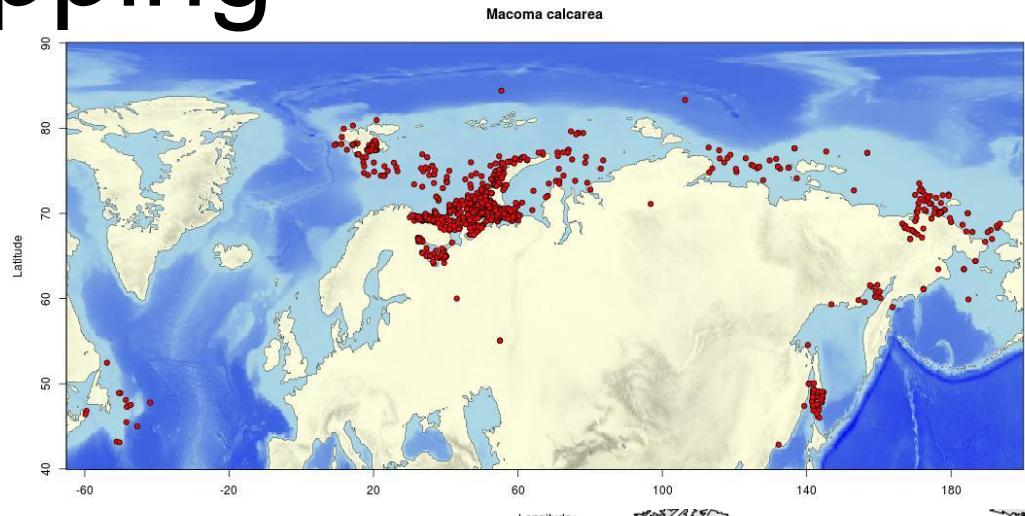


ID

- HUD
- LAW
- BAF
- ICE
- NS
- SVD
- BAR
- BC

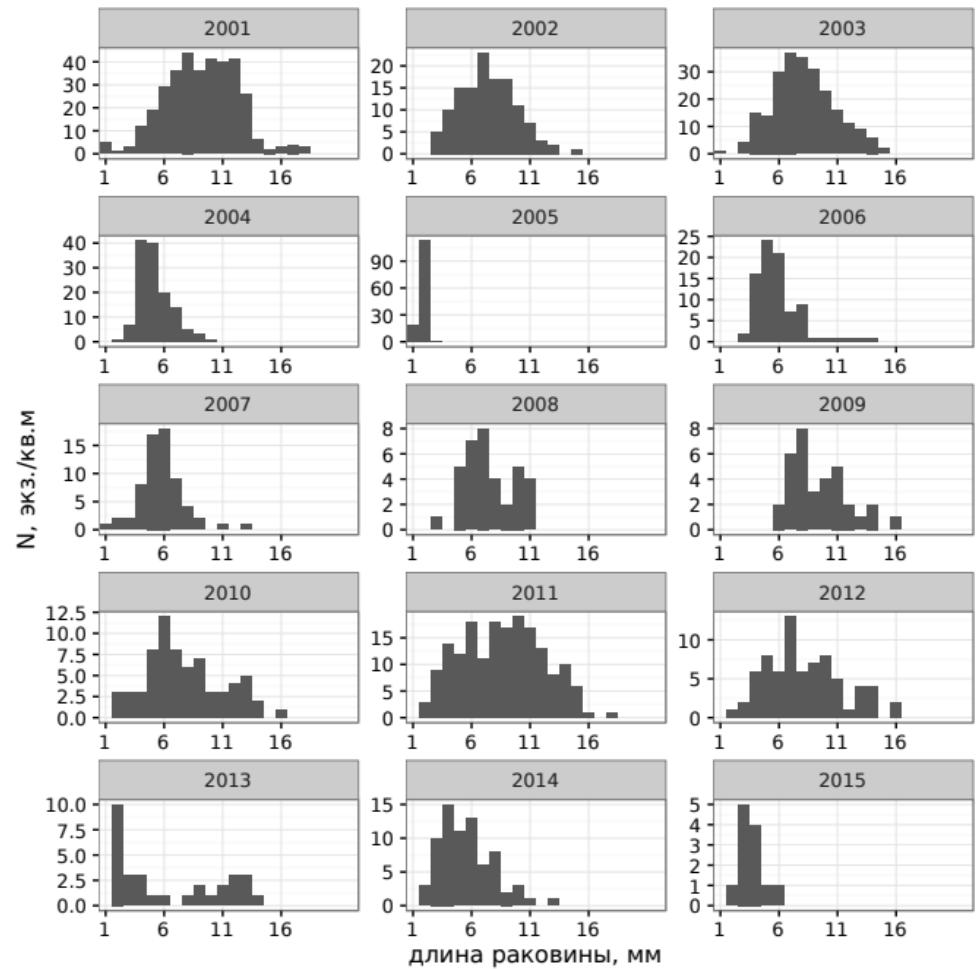
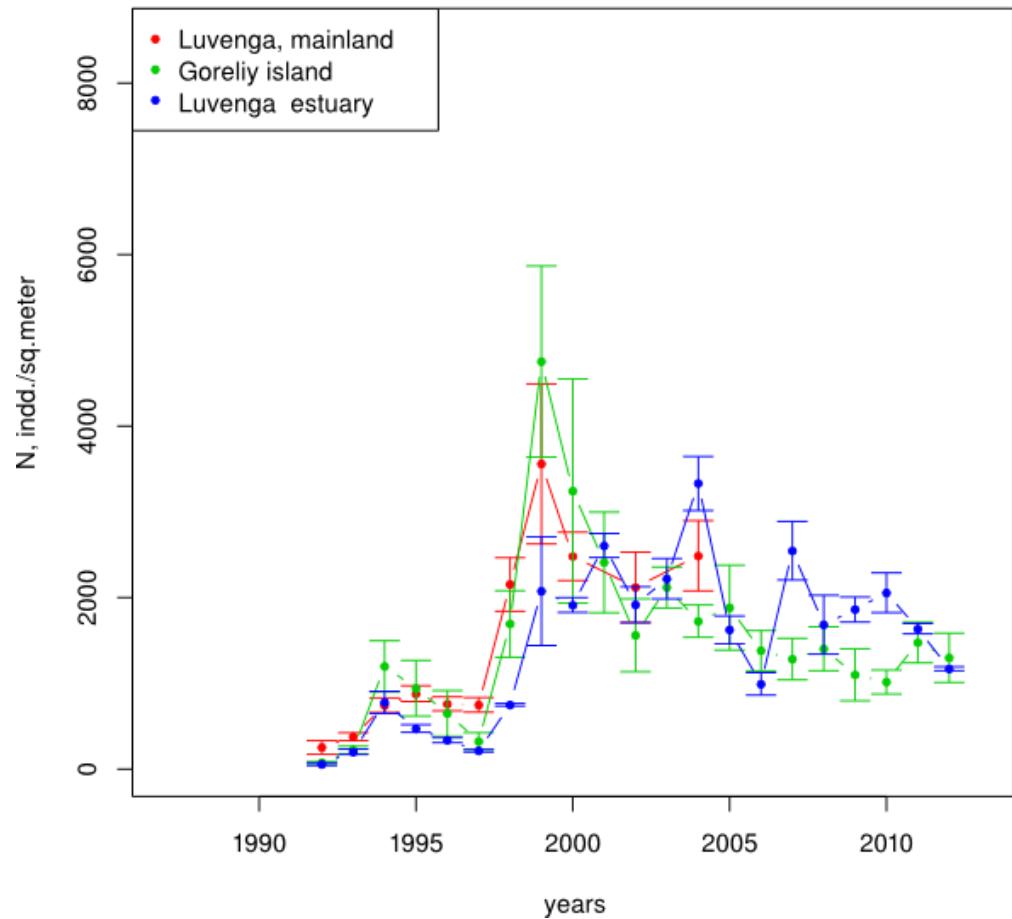
source

- authors data
- ▲ NCBI

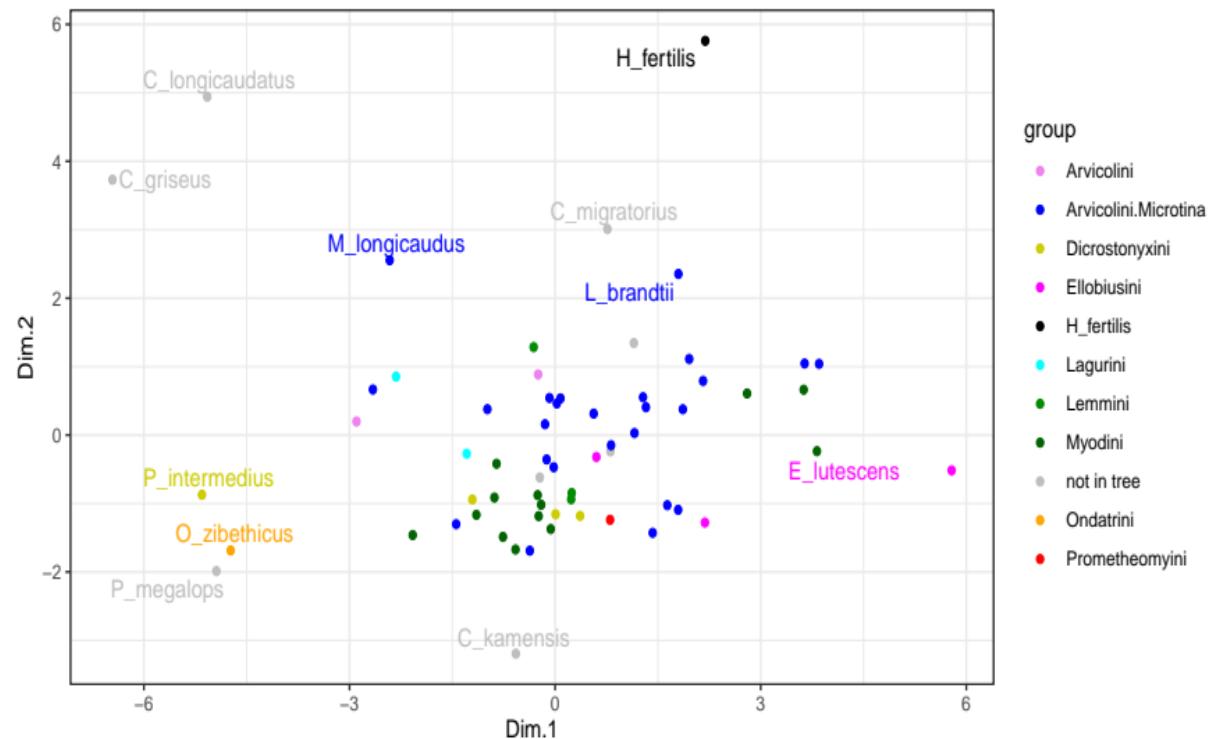
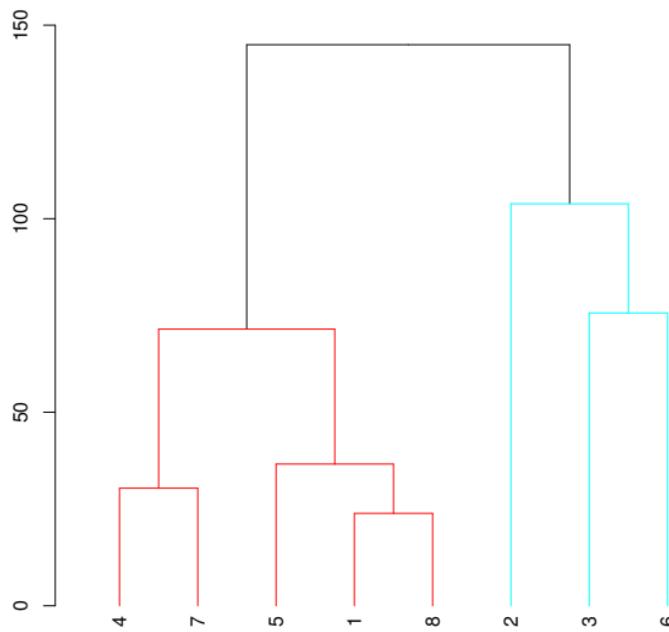


Long-term dynamics

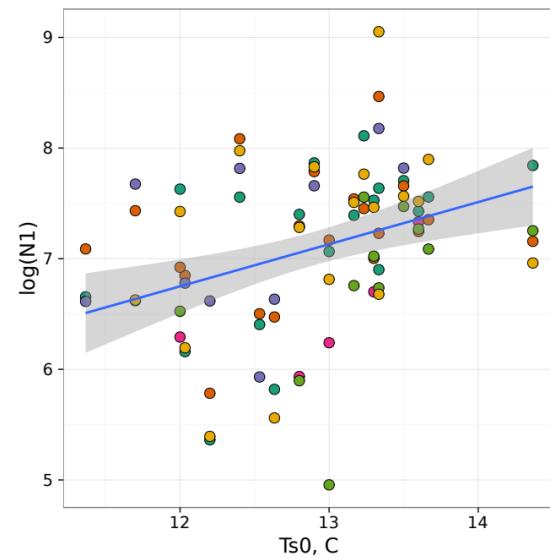
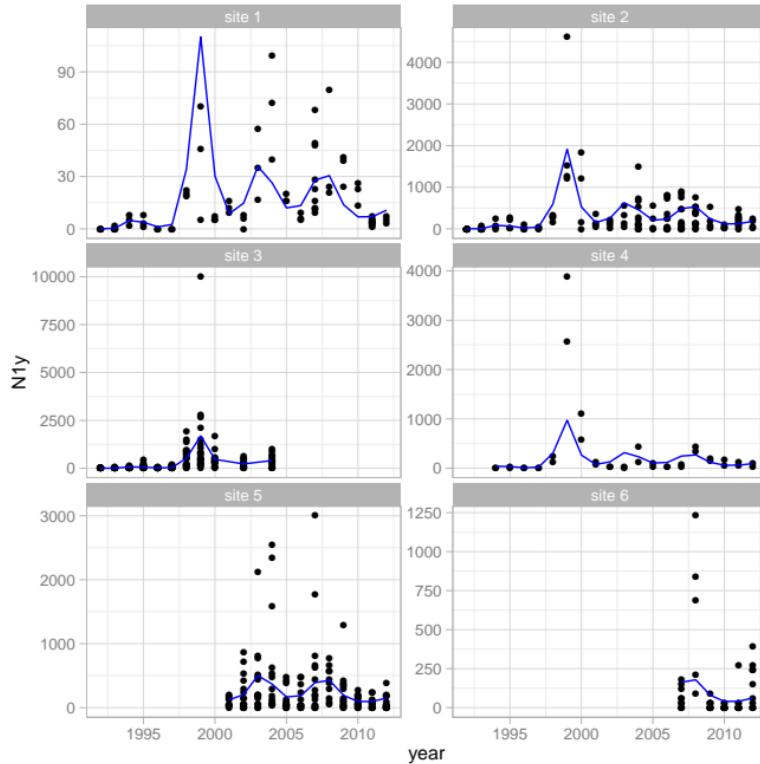
Luvenga



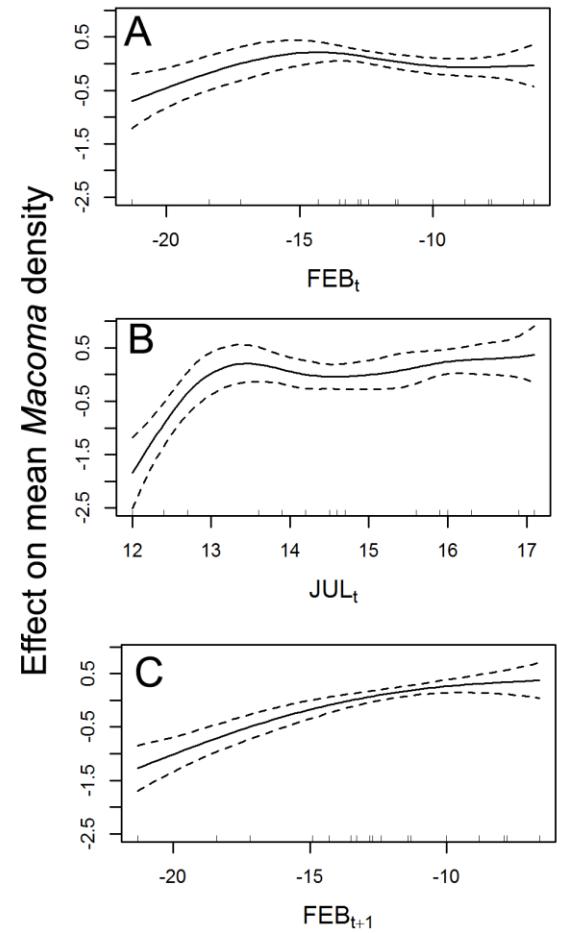
Analysis of multidimensional data



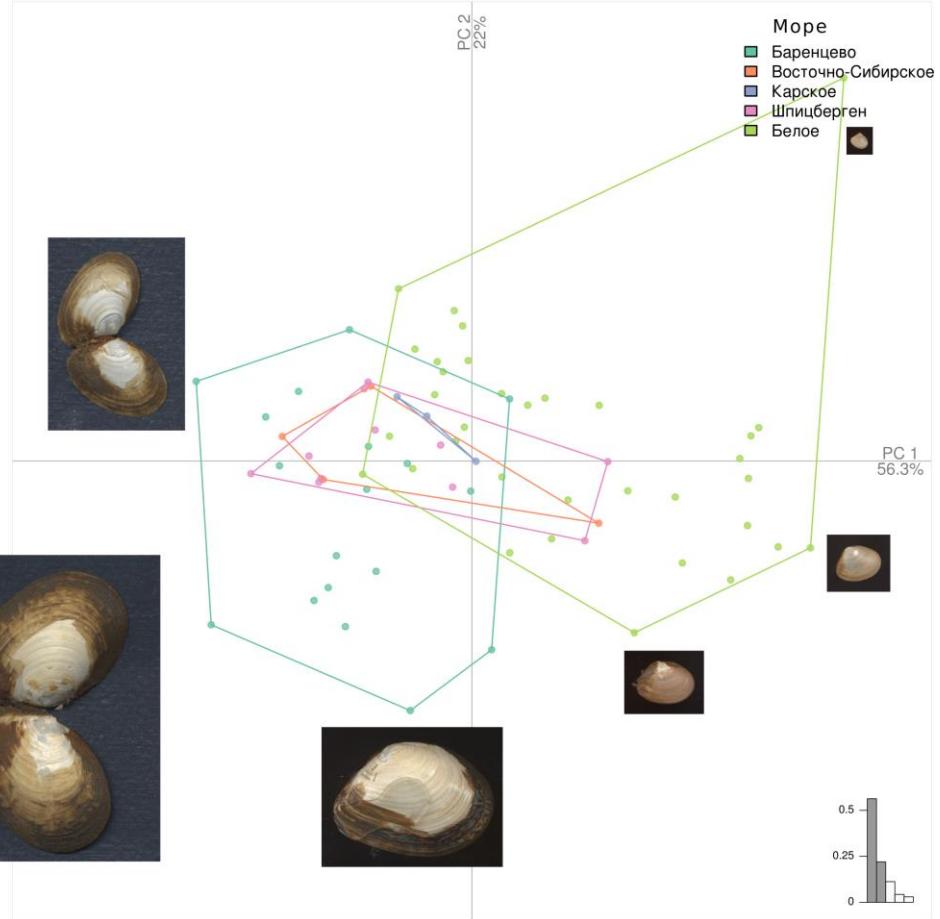
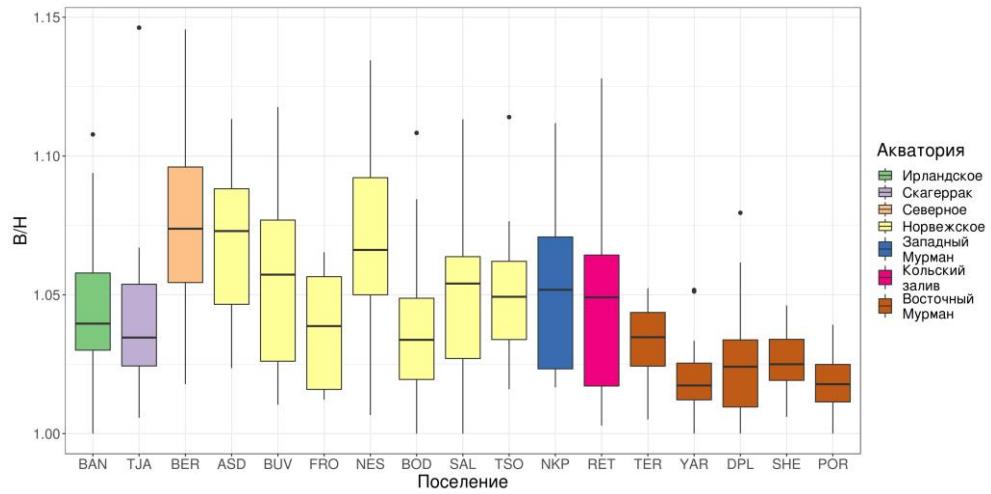
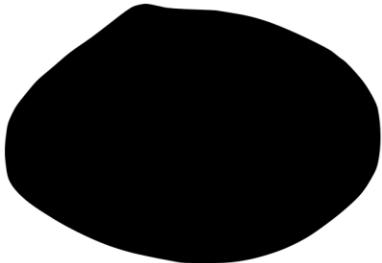
Linear and non-linear models



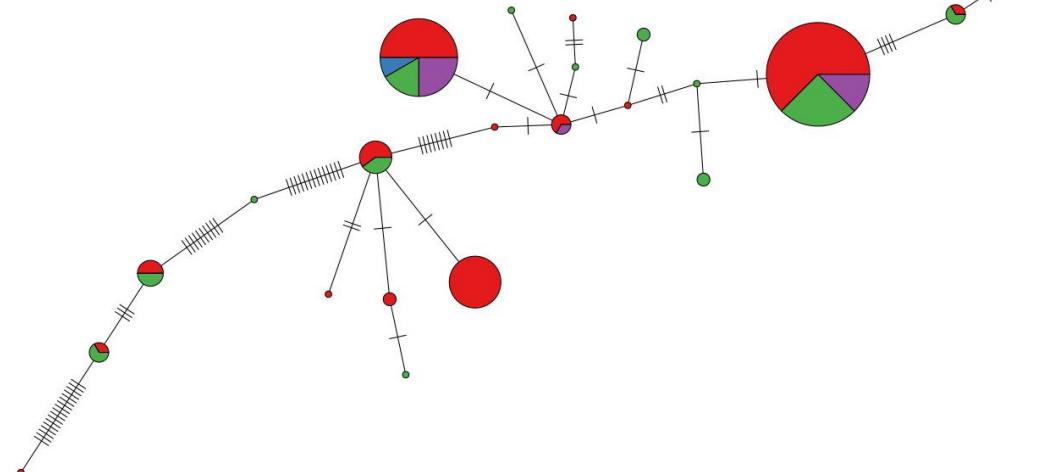
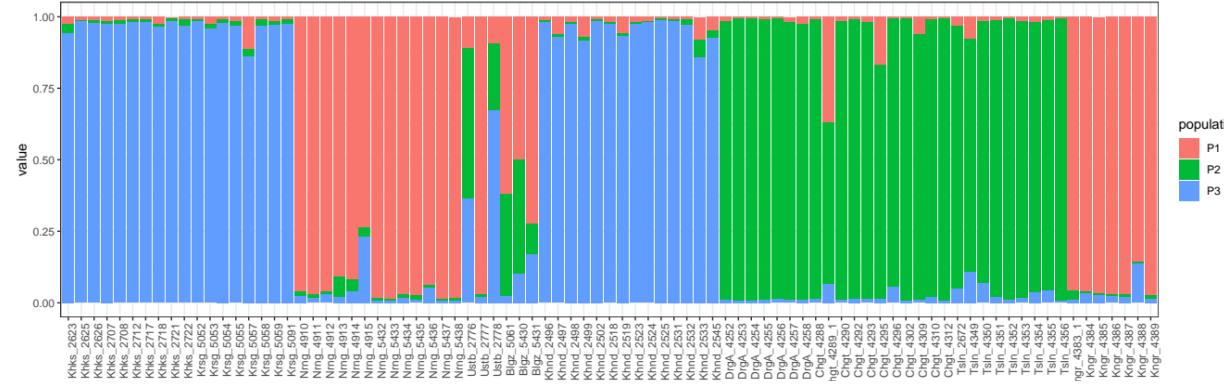
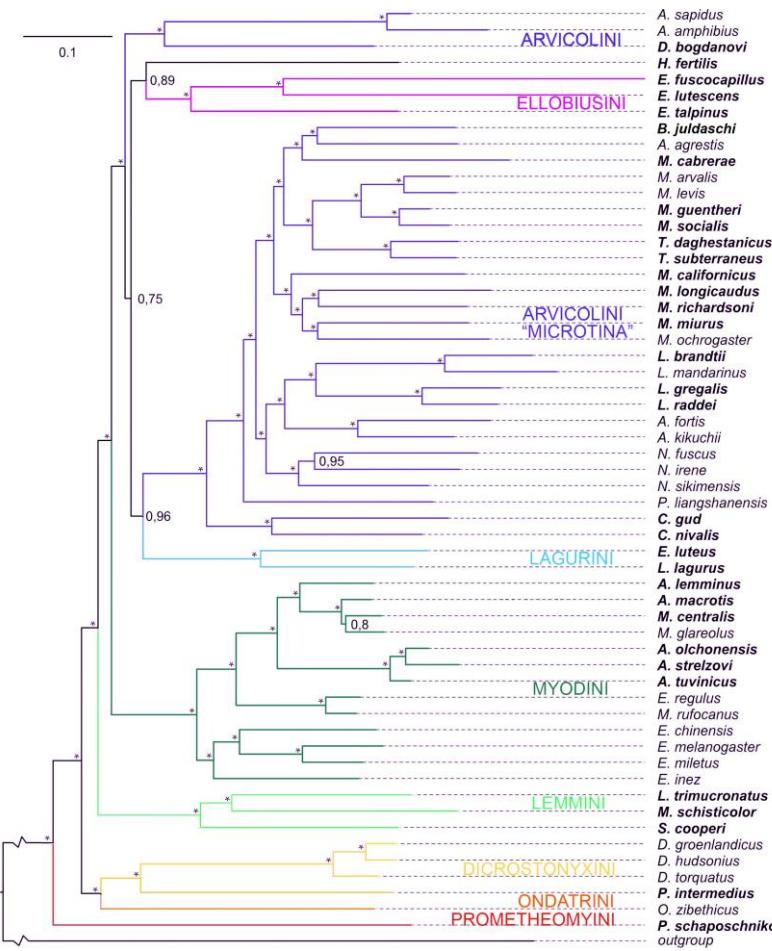
Site
EST
GOR
LUV
LOM
YUG
ZRS



Shape analysis

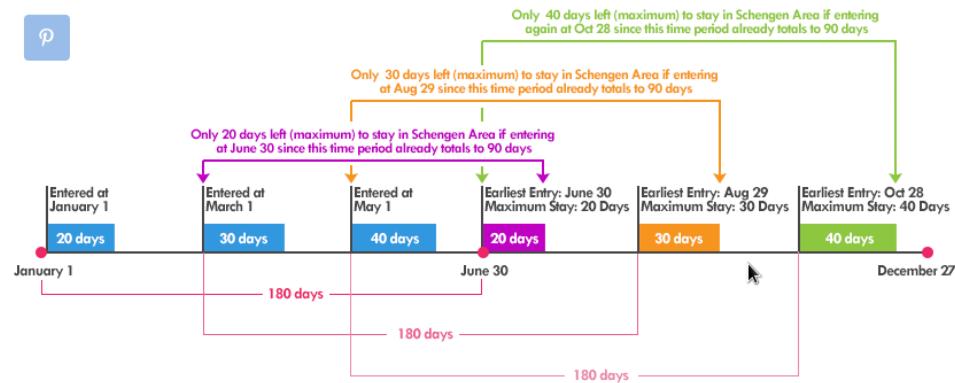


Population and phylogenetics



Not only for science

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Making a grocery list for a hiking menu



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