WHY CARE?

- Beetles are sensitive to any changes made by natural or human induced disturbance and management
- Beetles may be a key stone indicator to distinguish the health of an ecosystem
- To provide optimal management of ecosystem services and biodiversity
- To protect these amazing creatures!



BEETLE DISTRIBUTION

Abundance (Fig 1.)

- Highest in sites grazed by sheep
- Lowest in sites grazed by goats
- Sites close to the coast w/ higher abundance in total
- Sites close to the coast w/ higher abundance per. fam.

Diversity (grazer shapes)

Lowest in sites grazed by sheep (seemingly) Highest in sites grazed by cows (seemingly)



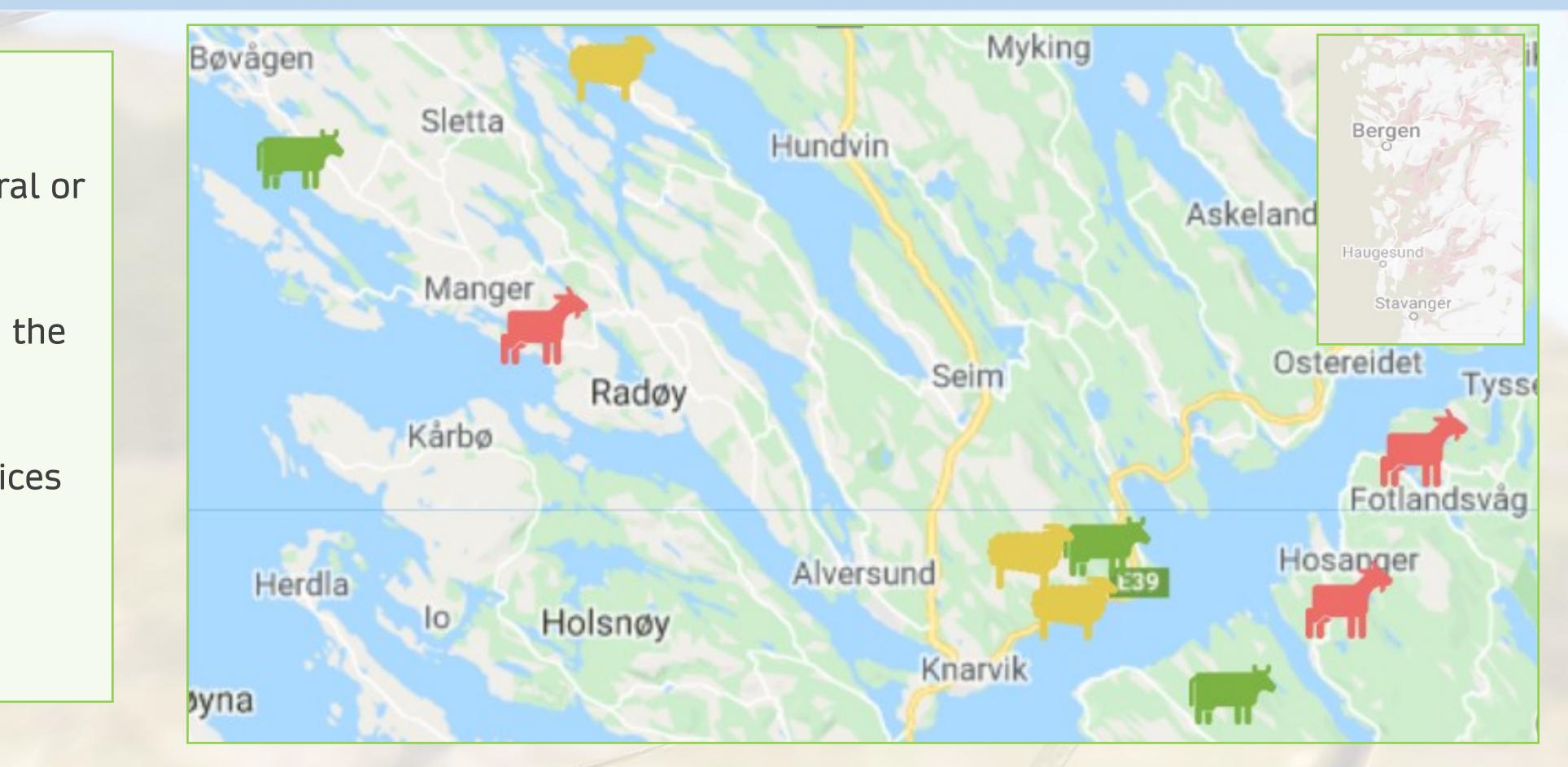
CONTACT

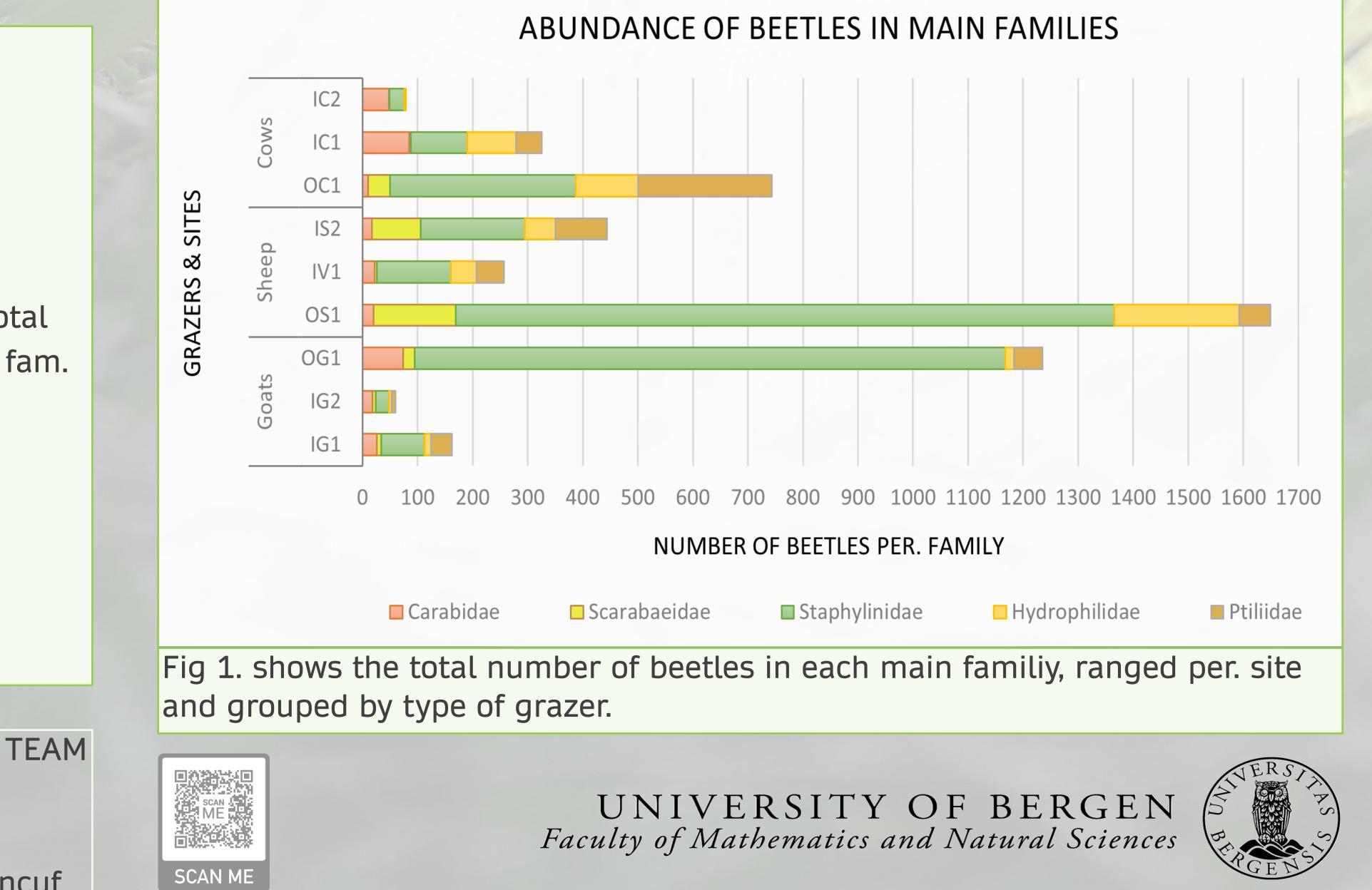
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THE BEETLES AND THE BEASTS How grazing affects the abundance and diversity of beetles

BY INGRID VAKSVIK & THE TRADMOD TEAM





The study is looking at the effect of grazers on beetle communities, exploring abundance and diversity. Sampling took place within the Nordhordaland biosphere reserve (shown on map). The habitat of interest was grassland in fjords - grazed by sheep, cows and goats. Beetles were collected using 12 dung baited pitfall traps, staying for one week in each site. Different fami lies of beetles were sorted and counted in a laboratory.

The analysis is primarily based on each set of 3 sites per. type of grazer.

TAKE- AWAY MESSAGE

Grazing plays a key role in the pattern between diversity and abundance. But the interpretation is different between the two. Some sites have opposite patterns while most sites do not. **Geography also plays an important** role for the results.

Less intense grazing seems d toward l diversity of beetles, which indicate an ecosystem in good shap

Photo Coleoptera/ Staphylinidae: https://stock.adobe.com/no/images/id/278263238? as_campaign=Freepik&as_content=api&as_audience=404&as_camptype=test-bannerbiggerb&tduid=2c040b476f5f2c70736ff4eb54509a0d&as_channel=affiliate&as_campclass=redirect&as_source=arvato

Photo of poo: https://grid.gograph.com/dung-poo-with-magnifying-glass-stock-illustration_gg122124789.jpg Shapes of cow, sheep, and goat by Linn Voldstad Background image by Amy Eycott

WHAT AND WHERE?

