**BIO343 – ALPINE ECOLOGY 2017 at Finse**

**LIST OF PAPERS**

**ALPINE BIOMES:**
Körner, C (1999) Alpine Plant Life: Functional Plant Ecology of High Mountain Ecosystems, pp. 1-45, 77-100, 291-298, Springer, Berlin

**AMPHIBIANS:**
Laugen, et. al. (2003) Latitudinal countergradient variation in the common frog (Rana temporaria) development rates – evidence for local adaptation. Journal of Evolutionary Biology, 16,996-1005.

Miaud, C. & Merilä, J. (2001) Local adaption or environmental induction? Causes of population differentiation in alpine amphibians. Biota 2/1 pp. 31-50.

**CLIMATE CHANGE**
Elmendorf et al. (2012) Global assessment of experimental climate warming on tundra vegetation: heterogeneity over space and time. Ecology Letters 15: 164-175.

**ALPINE ARTHROPODS:**
Sømme, L. (1991) Adaptations to the alpine and polar environments in insects and other terrestrial arthropods. Polar and alpine tundra. Ecosystems of the world (ed F.E. Wielgolaski), pp. 11-25. Elsevier, Amsterdam.

Hodkinson, I. D. (2005) Terrestrial insects along elevation gradients: species and community responses to altitude. Biological reviews, 80:489-513.

Ottesen, P. (1996) Niche segregation of terrestrial alpine beetles (Coleoptera) in relation to environmental gradients and phenology. Journal of Biogeography, 23: 353-369.

**SECONDARY COMPUNDS IN LICHENS:**

Solhaug and Gauslaa 2012. Secondary lichen compounds as protection against excess solar radiation and herbivores. Progress in Botany 73:283-300.

**POPULATION CYCLES:**

Berryman, A. 2002. Population cycles; causes and analysis (chapter 1). In: Berryman, A. ed. Population cycles: the cause of trophic interactions. Oxford University Press, New York.

Kausrud, K. L., Mysterud, A., Steen, H., Vik, J. O., Østbye, E., Cazelles, B.,Framstad, E., Eikeset, A. M., Mysterud, I., Solhøy, T., & Stenseth, N. C. (2008) Linking climate change to lemming cycles. Nature, 456: 93-97.

Ims, A. & Fuglei, E. (2005) Trophic interaction cycles in tundra ecosystems and the impact of climate change. BioScience, 55;4;311-322

**AVIAN LIFE IN THE ALPINE**

Badyaev, A.K. and Ghalambor, C. K. 2001. Evolution of life histories along elevational gradients: trade-off between parental care and fecundity. Ecology 82:10, 2948-2960

Boyle W.A, et al 2015. Patterns and drivers of intra-specific variation in avian life history along elevational gradients: a meta-analysis. Biol. Rev. pp. 000-000. doi: 10.1111/brv.12180

**DIEL MIGRATION AND LIFE HISTORY IN ZOOPLANKTON:**

Lampert, W. (1993) Ultimate causes of diel vertical migration of zooplankton: New evidence for the predator avoidance hypothesis. Archiv für Hydrobiologie, 39: 79-88.

Williamson, C.E. (1995) What Role Does Uv-B Radiation Play In Fresh-Water Ecosystems. Limnology and Oceanography, 40: 386-392.

Larsson, P. & Wathne, I. (2006) Swim or rest during the winter – what is best for alpine daphnid? Archiv für Hydrobiologie, 167: 265-280.

**POLLLINATION IN ALPINE PLANTS**

Totland, Ø. 1997. Effects of flowering time and temperature on growth and reproduction in Leontodon autumnalis var taraxaci, a late flowering alpine plant. Arctic and Alpine Research, 29: 285-290.

Garcia-Camacho, R. and Totland, Ø. 2009. Pollen Limitation in the Alpine: a Meta-Analysis. Arctic, Antarctic and Alpine Research, 41: 103-111.

**PLANT RESPONSES TO HERBIVORY**

Karban, R. & Baldwin, I. T. (1997) Induced responses to herbivory. The University of Chicago Press, Chicago. Page 5- 11 and 157-156

Wieczorek, M., Zub, K., Szafranska, P.A., Ksiazek, A. and Konarzewski, M. (2014) Plant-herbivore interactions: silicon concentration in tussock sedges and population dynamics of root voles. Functional Ecology, 29: 187-194