



**Høgskolen i Telemark**

**Exam**

**4502-002 Alpine biodiversity and climatic change**

**12.12.2014**

Tid/Time:	4 hours/timer
Målform/Language:	English
Sidetall/Pages:	1 + frontpage/førsteside
Merknad/Notes:	Dictionaries are allowed
Vedlegg/Appendix:	none

**Exam results will be available on net via studentweb**

## Exam questions

1. Explain general trends in vascular plant species richness in relation to the following gradients:
  - a. Altitude
  - b. Size of study area
  - c. Disturbance
  - d. Plant biomass (productivity)
  - e. Snow layer duration
2. Give examples on changes in vascular plant species richness and plant distribution patterns assumed to be effects of recent climate changes
3. Which nature types in alpine and arctic areas are assumed to be particularly affected by the ongoing climate changes, and why?
4. Explain shortly the following terms:
  - a. Random sampling
  - b. Indirect ordination
  - c. Alfa ( $\alpha$ ) diversity
  - d. Ordination
  - e. Evenness
  - f. Random sampling
  - g. Interstadial and stadial