Data collection

This data were collected in the file TimeSeries were collected between 1998 and 2012 and the data in the file Empetrum were collected in 2012 in the Abisko Region in northernmost Sweden (68⁰19’ N, 18. ⁰53’E). Data comes from full-factorial warming-fertilization-herbivore exclusion experiment, where transplants of three forbs were grown for two growing seasons. For detailed methods see Olofsson et al. 2013, Complex biotic interactions drive long-term vegetation dynamics in a subarctic ecostystem. Philosophical Transactions of the Royal Society B, doi: 10.1098/rstb.2012.0486.

The file contains total biomass estimates of the three transplant species, reproductive biomass for two of the species and estimates of total vascular plant biomass on the study plots using point-intercept method.

Data format “TimeSeries”

**Year**: sampling year

**Site**: Individual identification code for each of 3 sites.

**Habitat**: “Forest” or “Tundra”

**Treatment** “grazedcontrol” indicates plots without exclosures, “rodentexclosure” refers to plots with exclosures against all mammalian herbivores including rodents

**Betula nana**: Biomass of *Betula nana* (g/m2).

**Deschampsia flexuosa**: Biomass of *Deschampsia flexuosa* (g/m2).

**Empetrum hermaphroditum**: Biomass of *Empetrum hermaphroditum* (g/m2).

**Vaccinium myrtillus**: Biomass of *Vaccinium myrtillus* (g/m2).

**Vaccinium uliginosum**: Biomass of *Vaccinium uliginosum* (g/m2).

**Vaccinium vitis-idaea**: Biomass of *Vaccinium vitis-idaea* (g/m2).

Data format “Empetrum”

**Year**: sampling year

**Site**: Individual identification code for each of 3 sites.

**Topography**: “Depressions”, “Intermediate” or “Mounds”

**Treatment** “grazedcontrol” indicates plots without exclosures, “rodentexclosure” refers to plots with exclosures against all mammalian herbivores including rodents

**TopBInt**: Number of top buds that are intact (average of 5 shoots).

**TopBFungi**: Number of top buds that are killed by a parasitic fungi (average of 5 shoots).

**TopBHerb**: Number of top buds that are killed by herbivores (average of 5 shoots).

**EatenC**: Number of 10 random leaves damaged by herbivores (average of 5 shoots) in the age class current year shoots.

**EatenC1**: Number of 10 random leaves damaged by herbivores (average of 5 shoots) in the age class one year old shoots.

**EatenC2**: Number of 10 random leaves damaged by herbivores (average of 5 shoots) in the age class two year old shoots

**EatenC3**: Number of 10 random leaves damaged by herbivores (average of 5 shoots) in the age class three year old shoots

**Epi C1**: Number of 10 random leaves infected by *Epipolaeum sulcicola* (average of 5 shoots) in the age class one year old shoots

**Epi C2**: Number of 10 random leaves infected by *Epipolaeum sulcicola* (average of 5 shoots) in the age class two-year-old shoots .

**Epi C3:** Number of 10 random leaves infected by *Epipolaeum sulcicola* (average of 5 shoots) in the age class three-old-shoots.