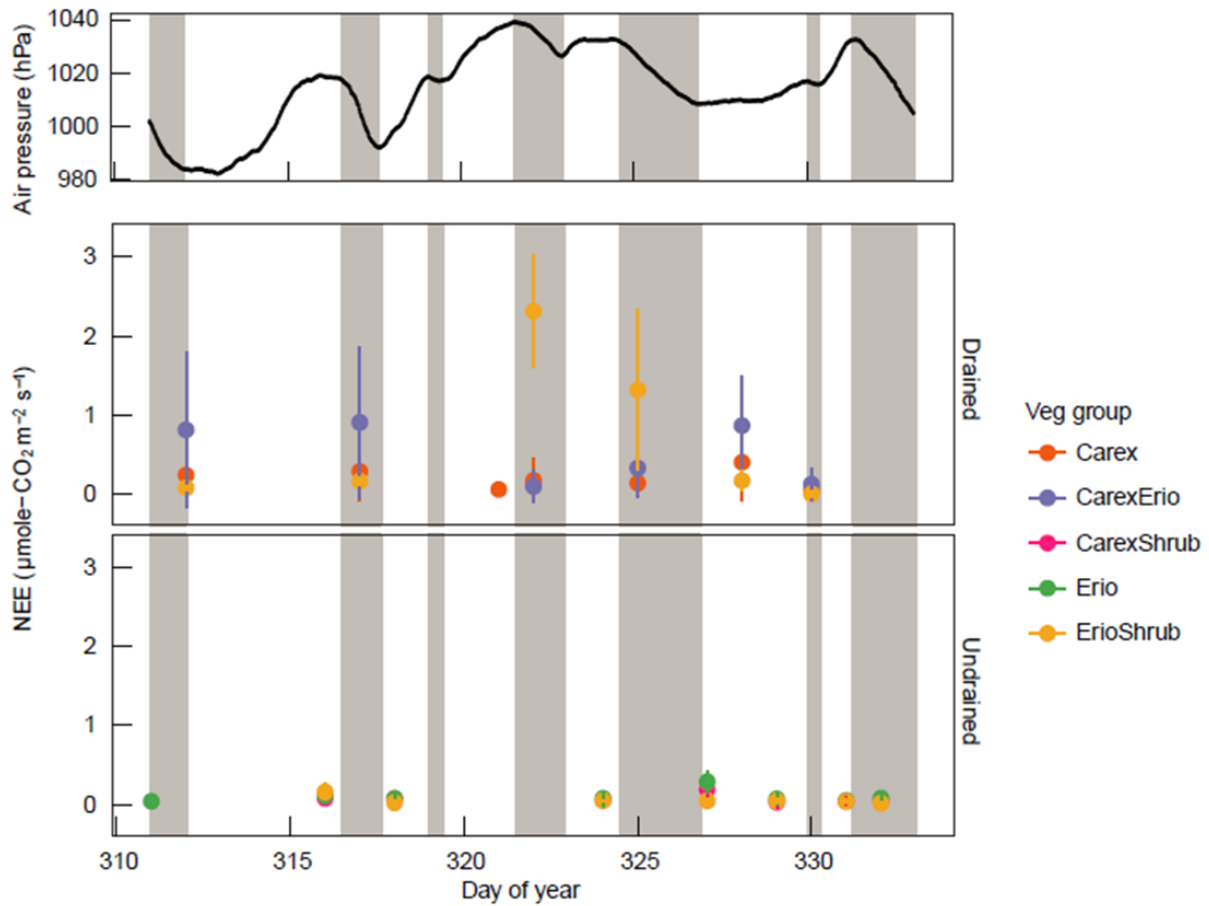
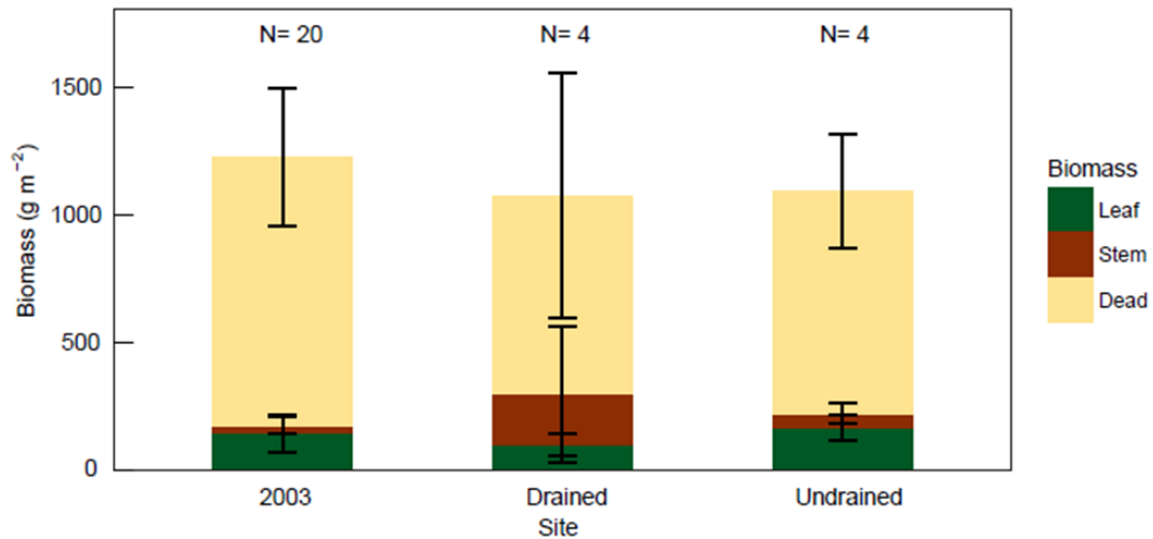
2   Appendix 1 Dominant vegetation species, (a) *Carex* species, (b) *Eriophorum angustifolium*

4   Appendix 2 Atmospheric pressure (top) and NEE of November 2013 by vegetation group

5   presented in parallel. Time period with decreasing air pressure was shaded in gray. NEE fluxes

6   were pooled by vegetation group (color) and mean values and standard deviation were plotted.

7
8 Appendix 3 Total aboveground dry biomass of standing dead and living plants, measured in

9 2003 (N=20) and 2013 (N=4). Weight of dry biomass was summed up regardless of species.

10 Dead: standing dead material largely from *Carex* species and *Eriophorum angustifolium*, stem:

11 stems mainly from shrub species, leaf: green leaves of all species. Mean and standard deviation

12 of replicates are described with bars and error bars.