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### Topographic responses

Aboveground biomass responses mainly differed by topographic position, with few treatment differences,

reported accelerated flowering (17 days) by *P. virgatum* in response to a 4 °C increase in air temperature. In this study, reproductive duration increased for *P. virgatum* individuals in the upland × altered temperature plots, as they were still flowering late in the growing season (57 days after lowland × control plots initiated flower-

2010). During 2010, significant differences in water availability existed between the upland and the lowland

effects of these shelters varied between the ecosystems,

