

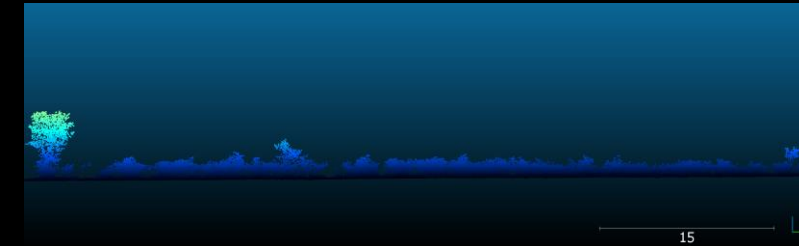
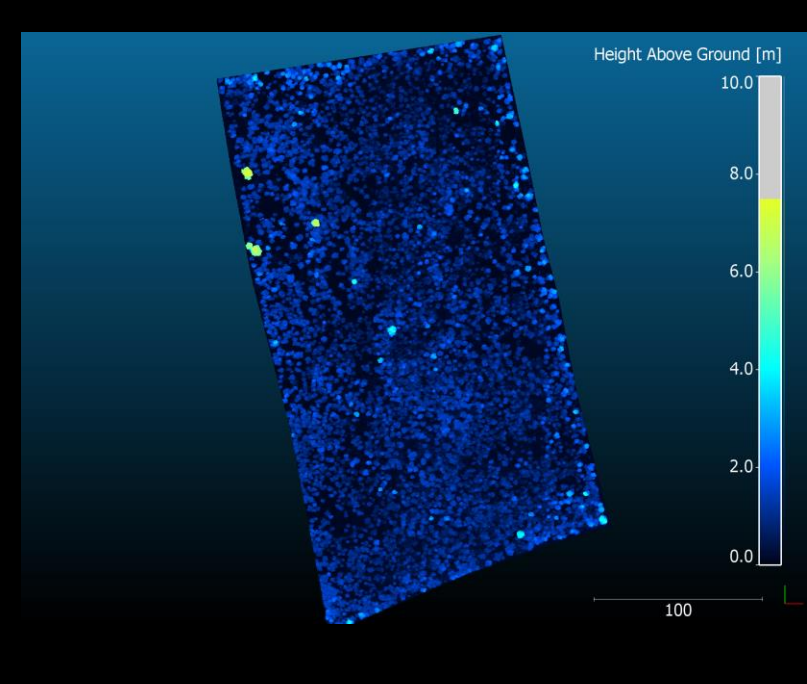
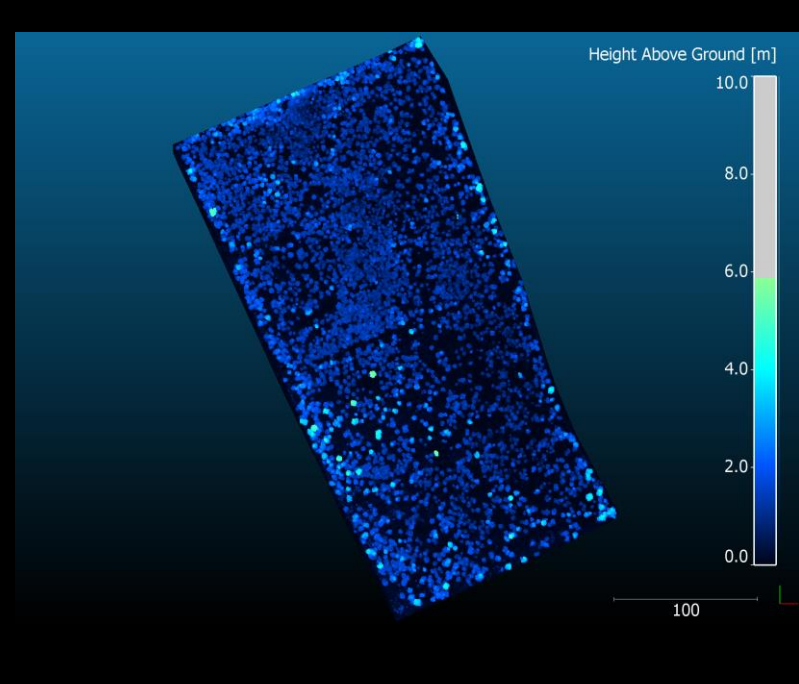
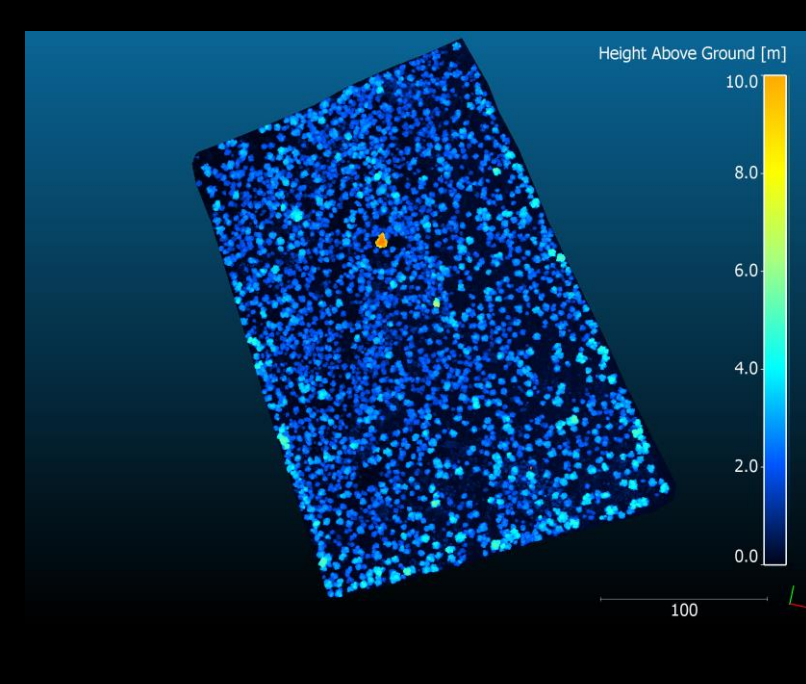
# Fine-scale variability in fire properties and their influence on vegetation structure



Jenia Singh and Andrew Davies  
Dept of Organismic & Evolutionary Biology

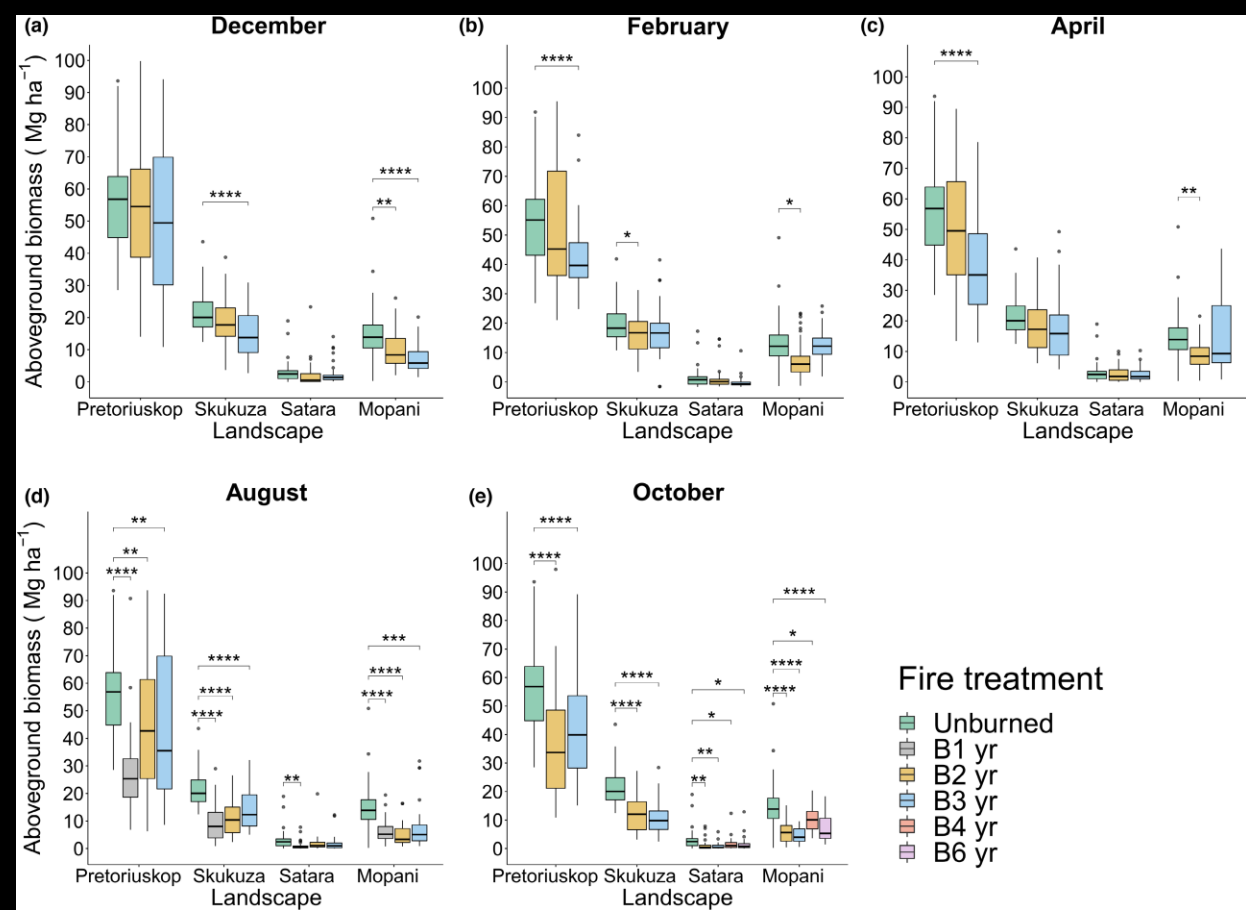
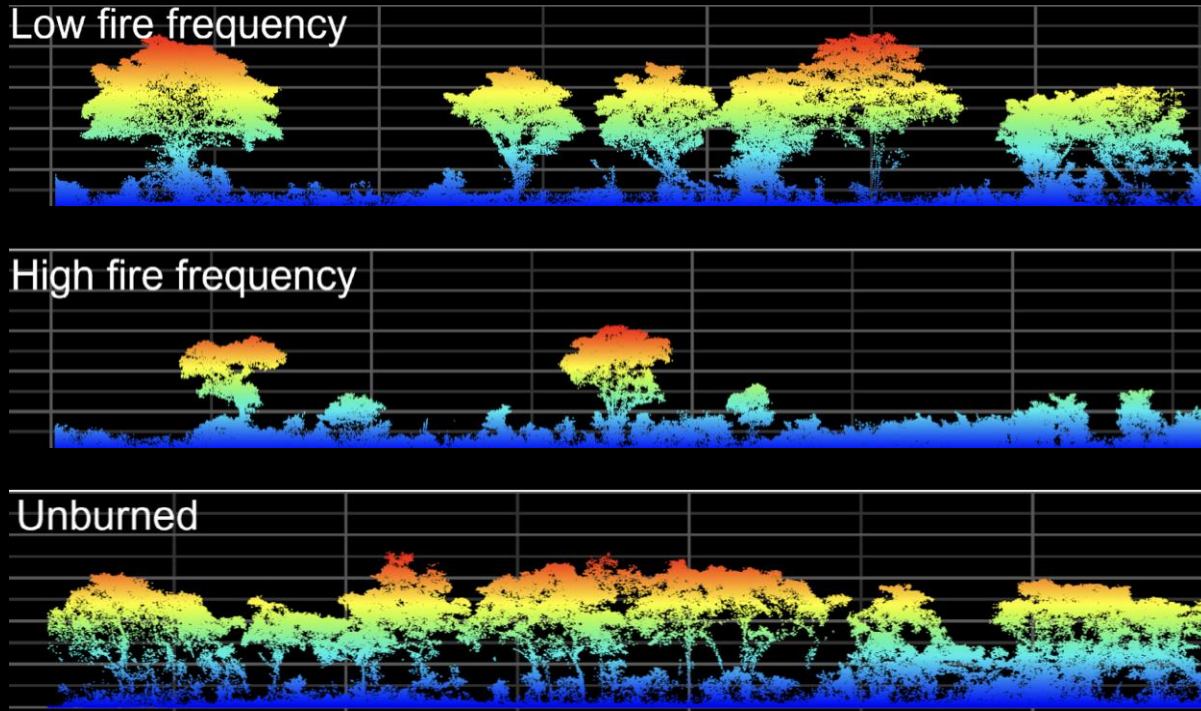


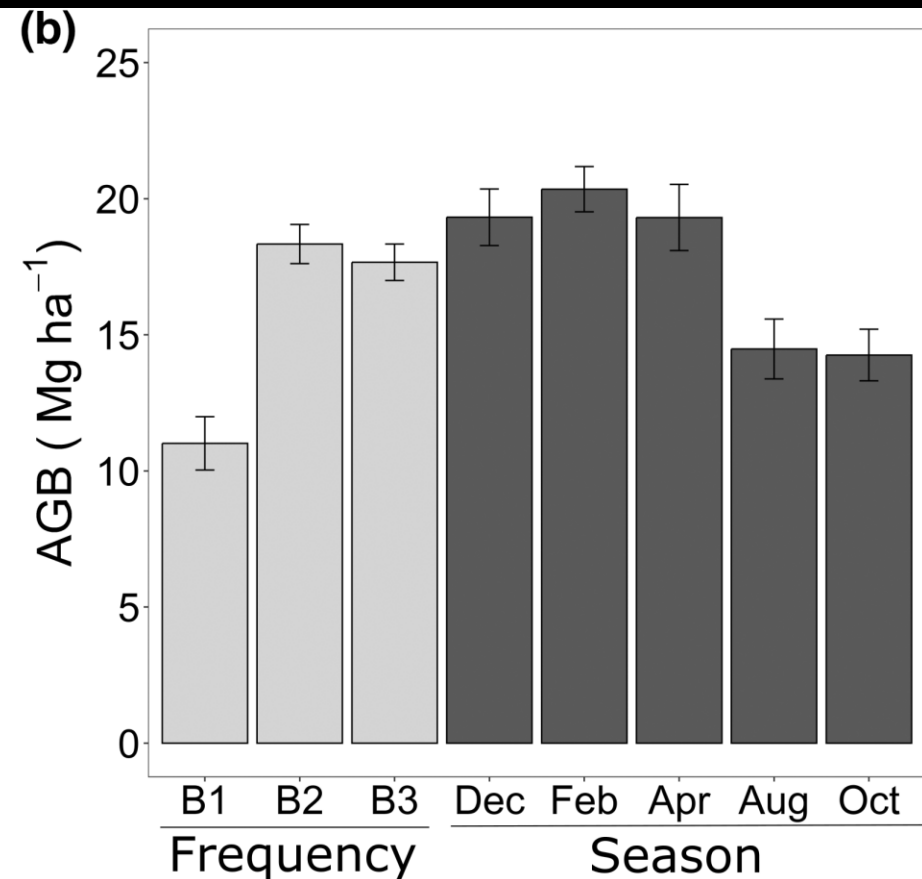
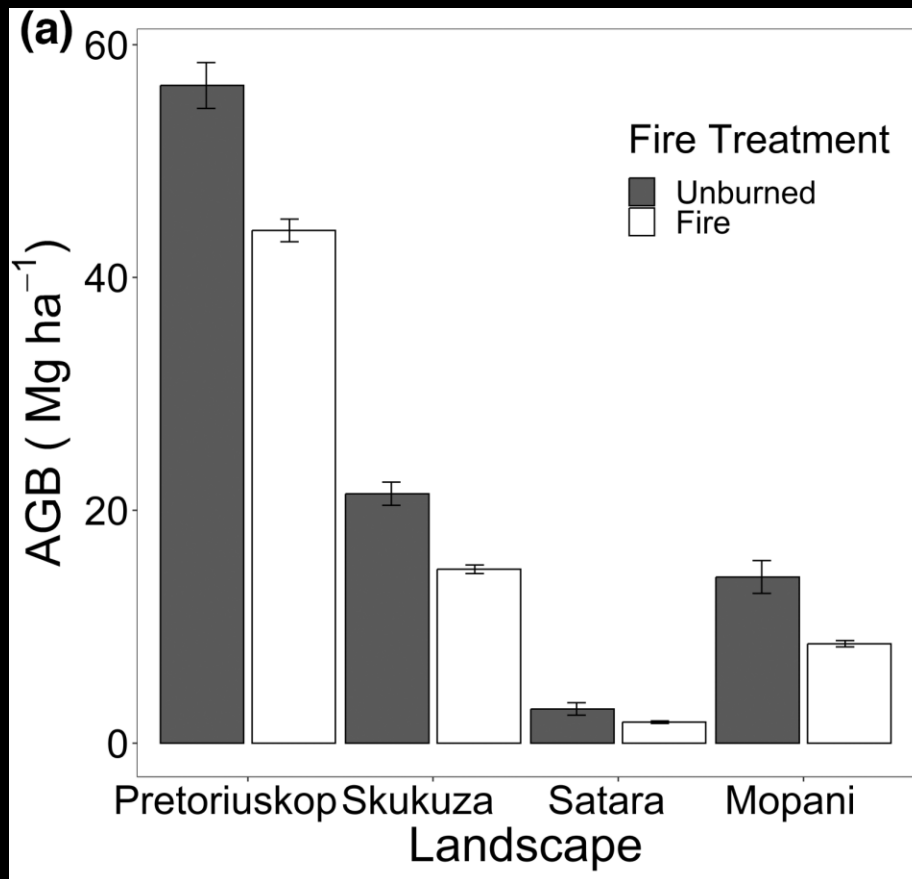




Singh et al. 2023 *J Applied Ecology*



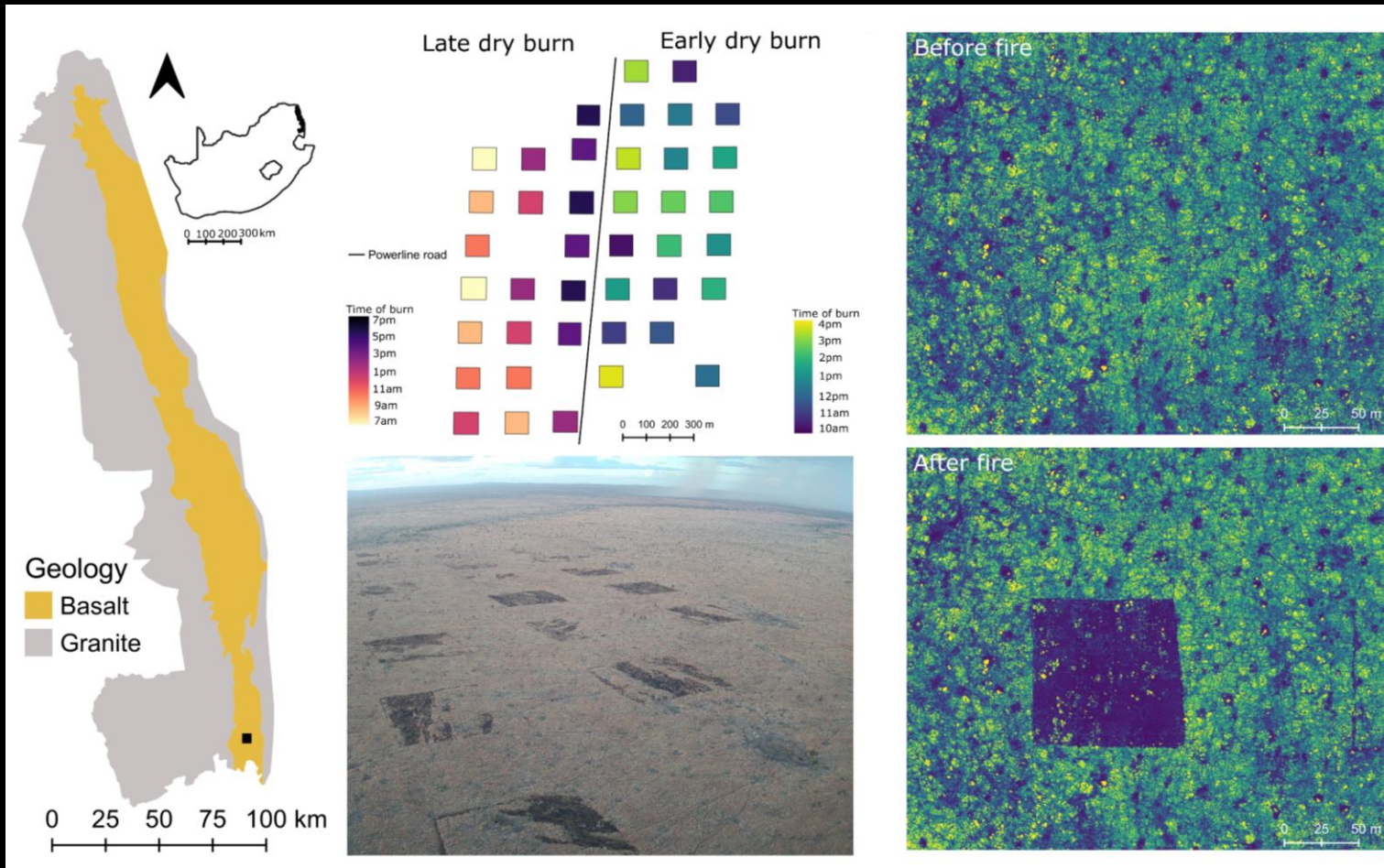


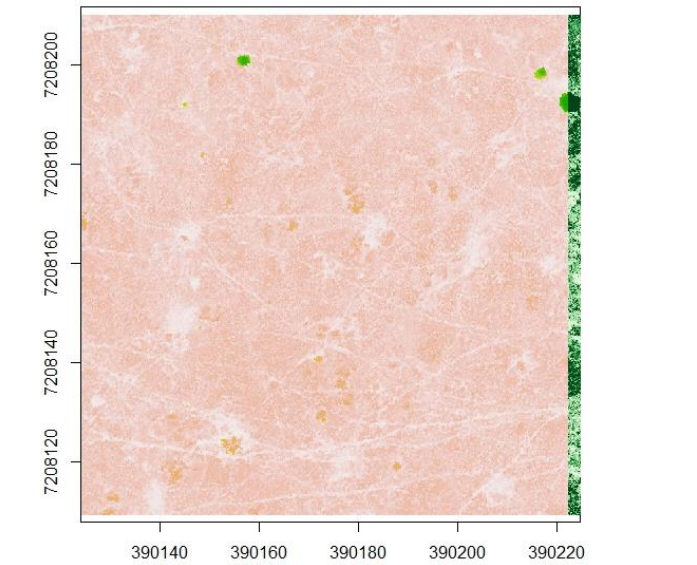
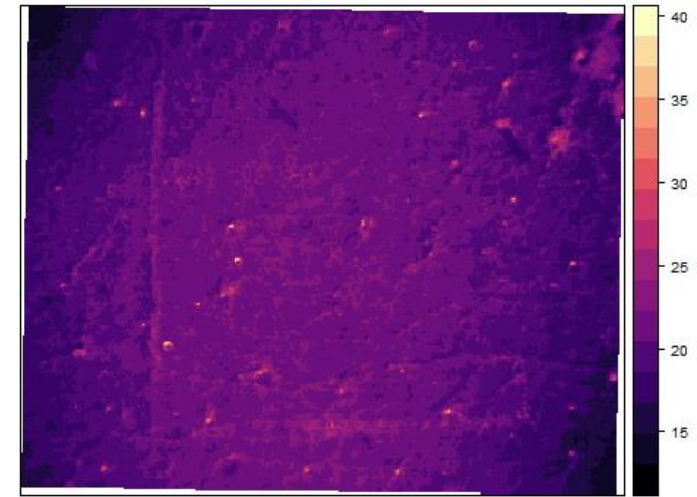


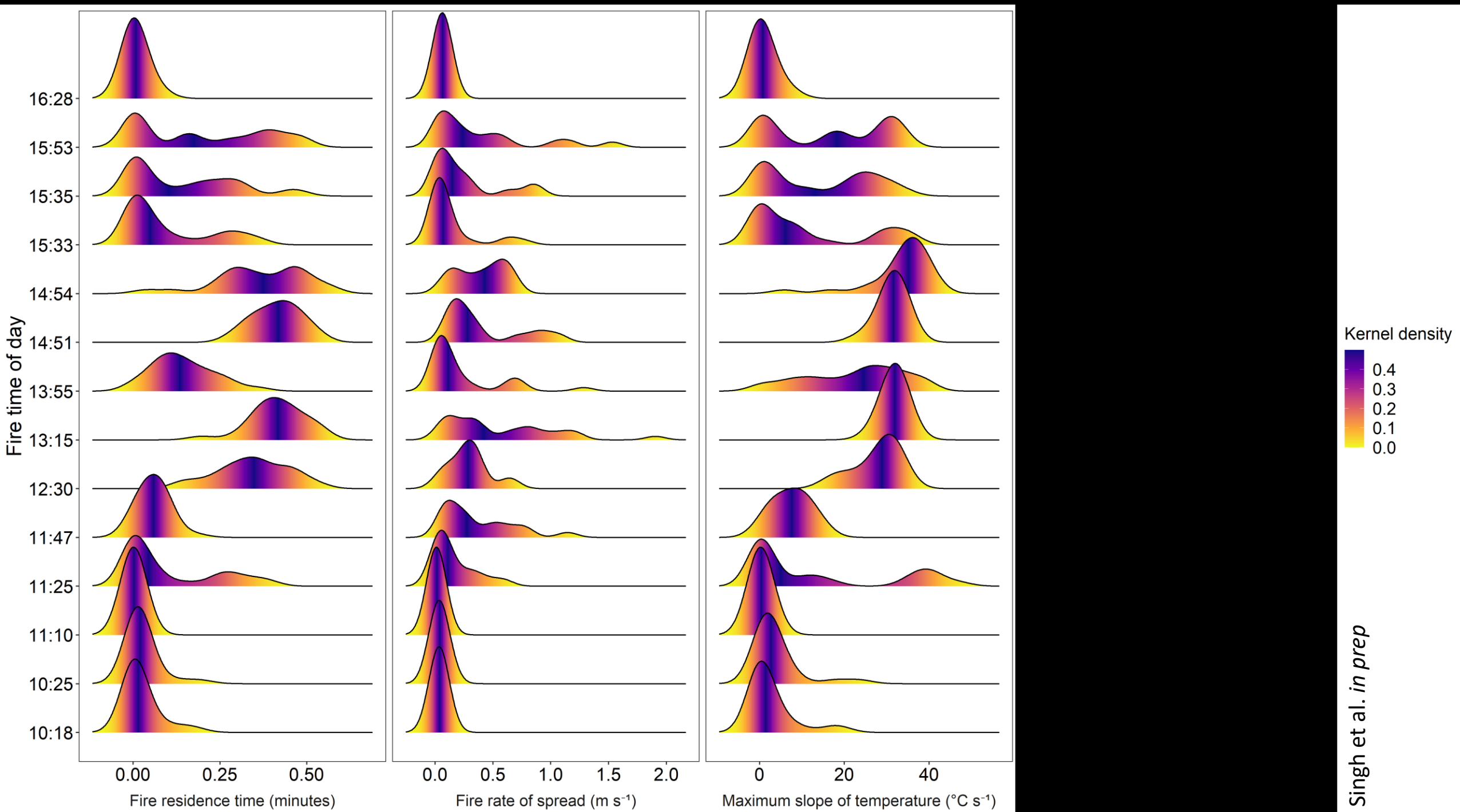
But, not all fires are the same

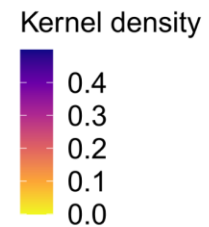
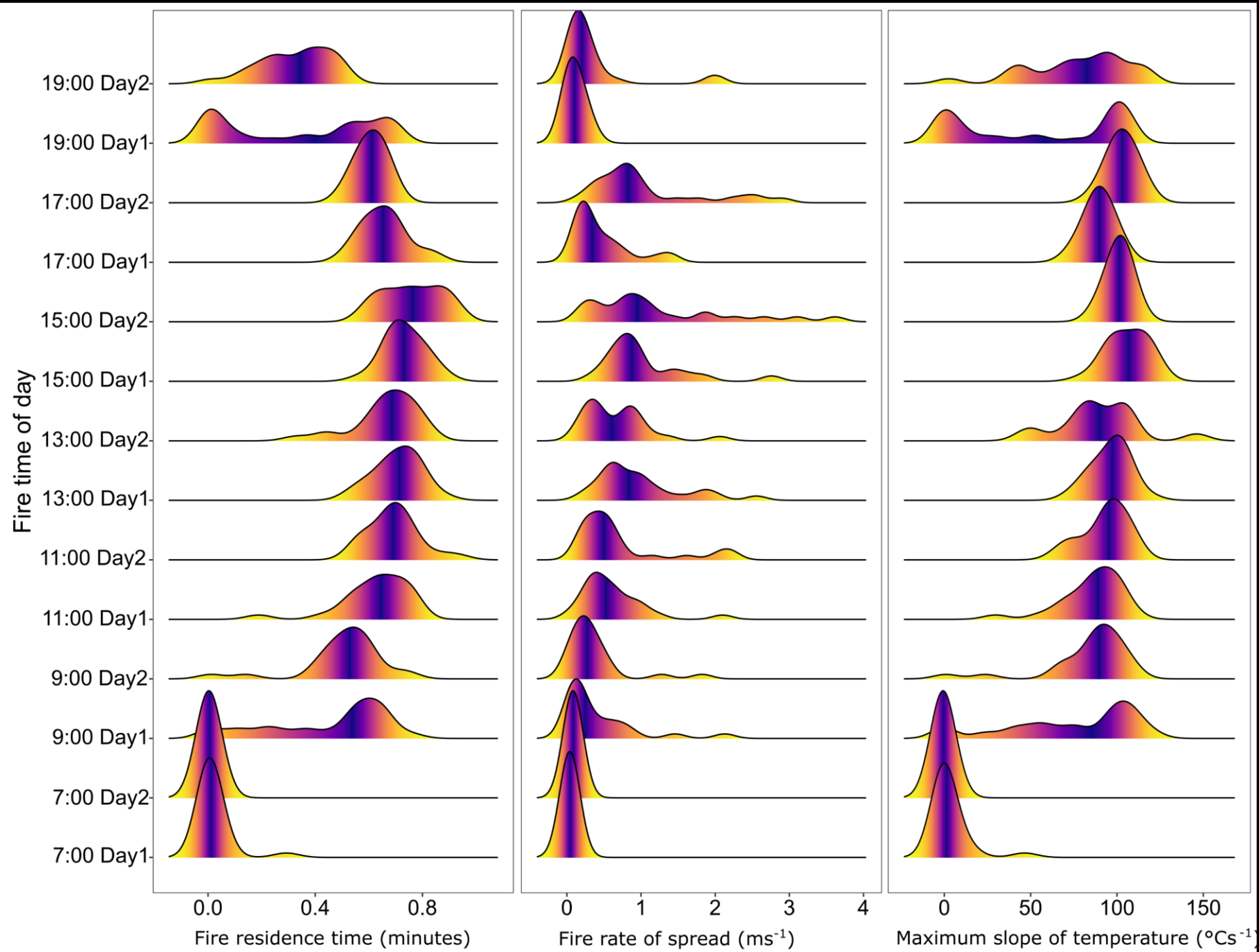
Nor is a single fire homogenous in its effects

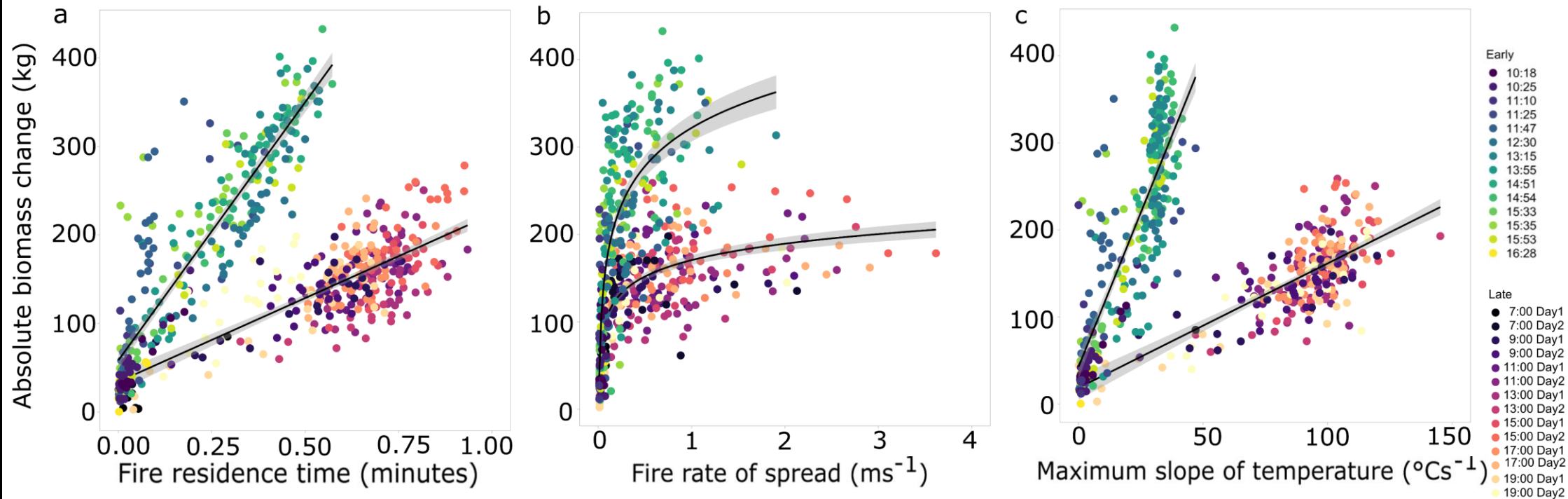


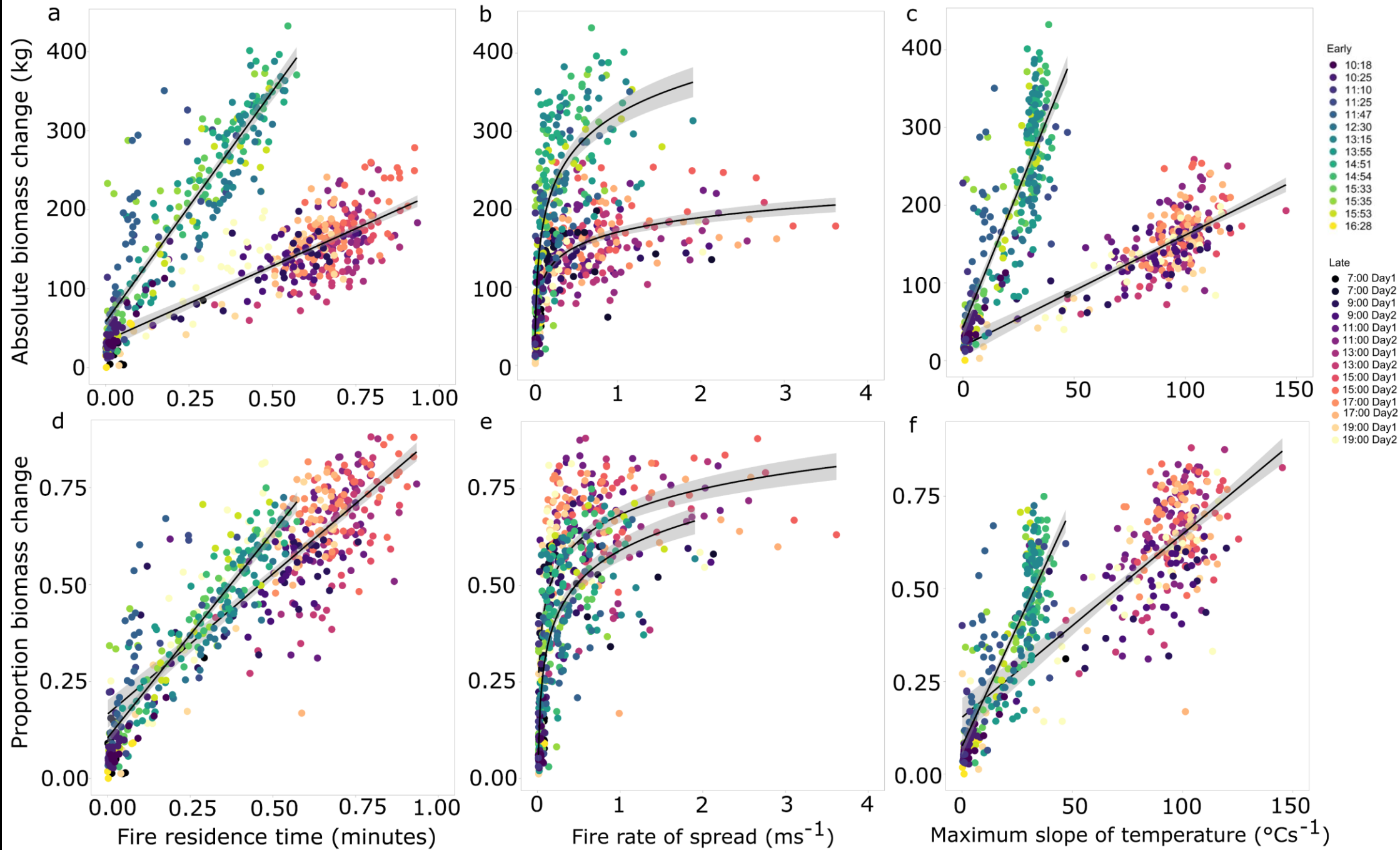


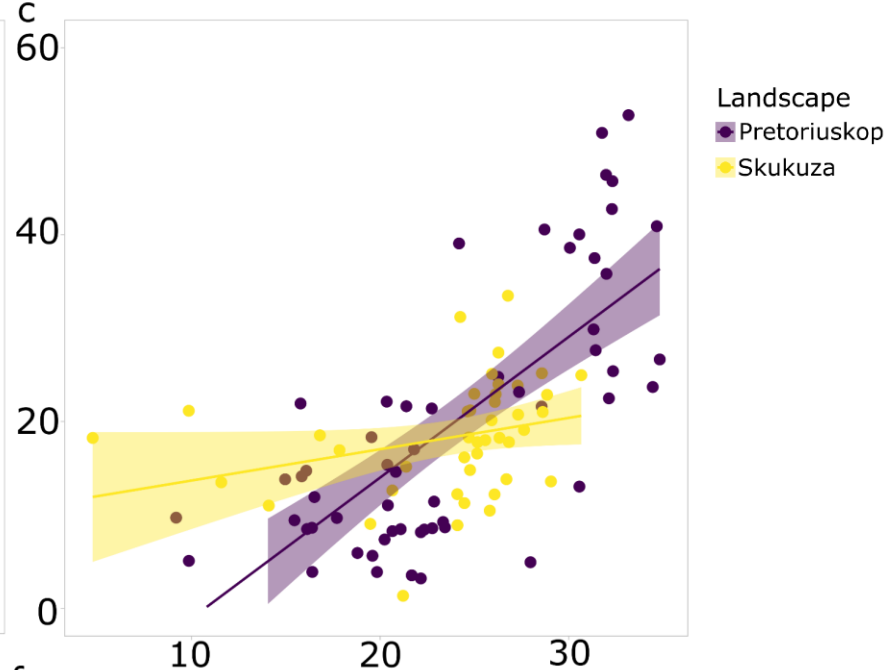
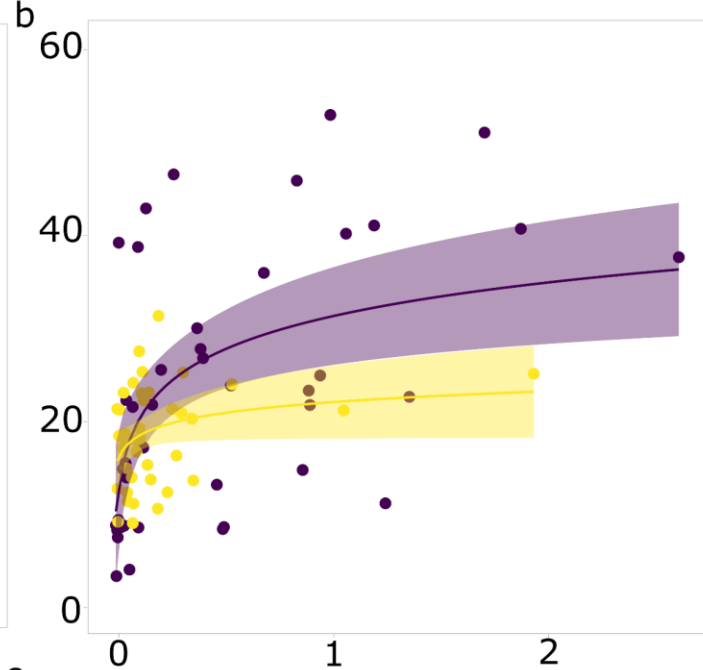
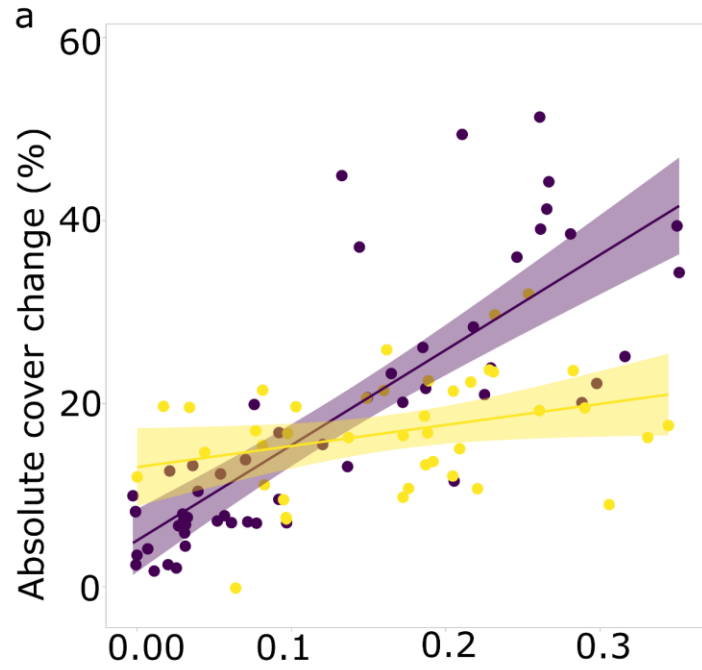


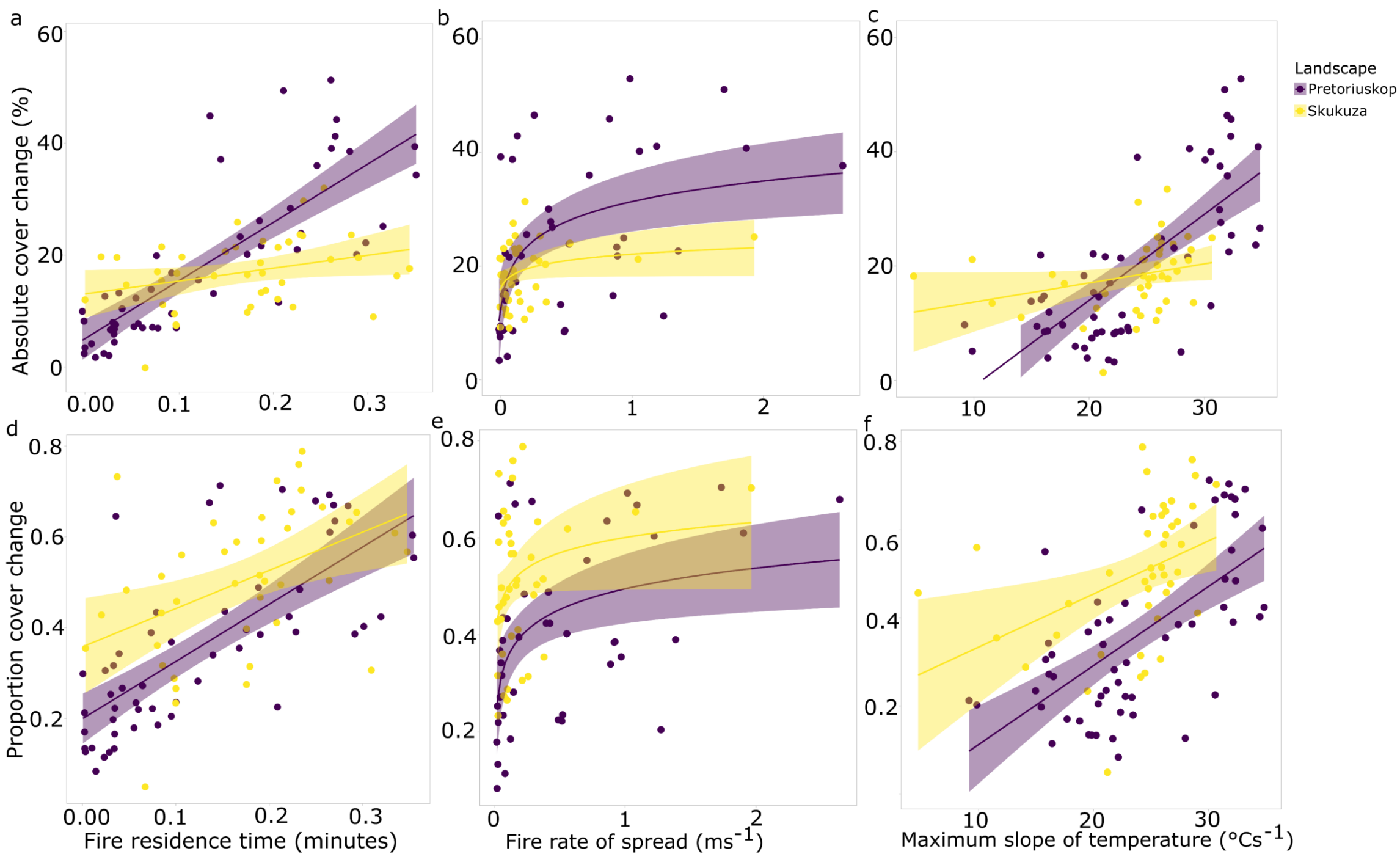








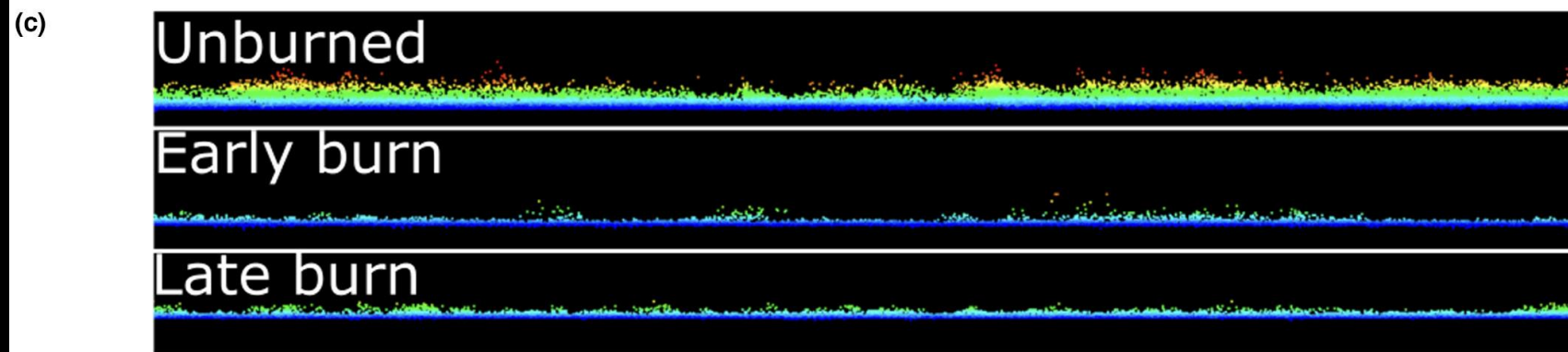
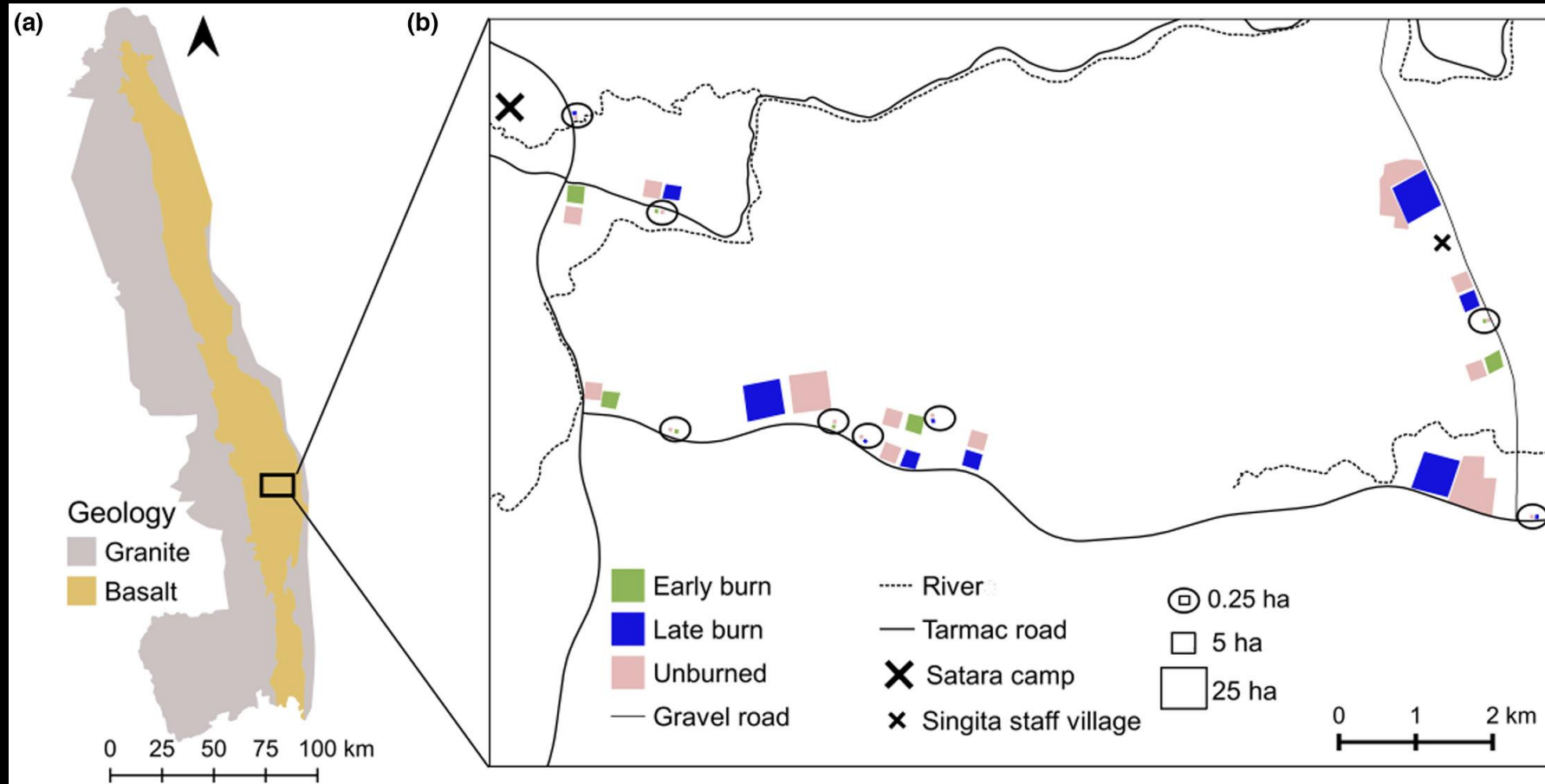


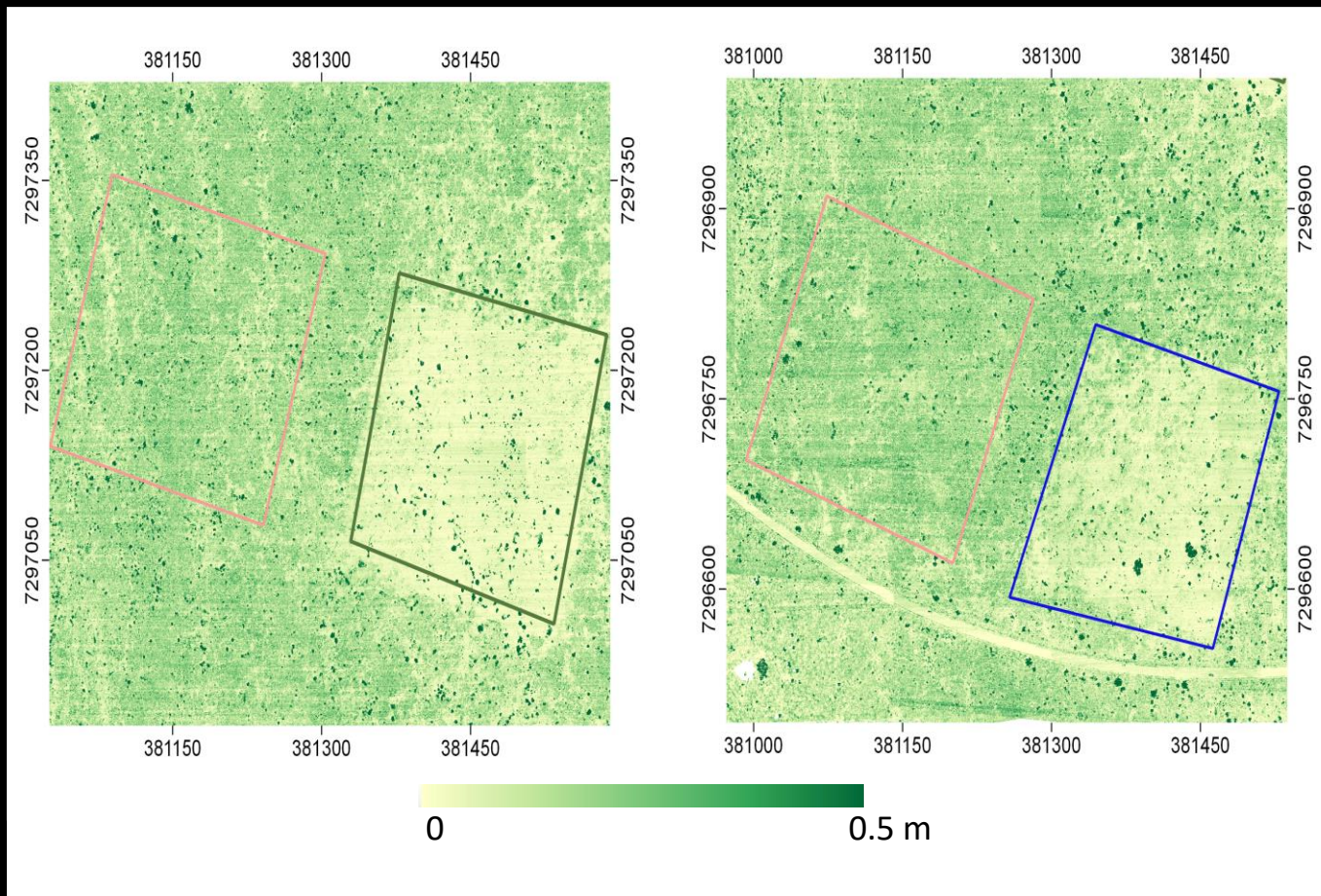




Photograph: Jason Donaldson



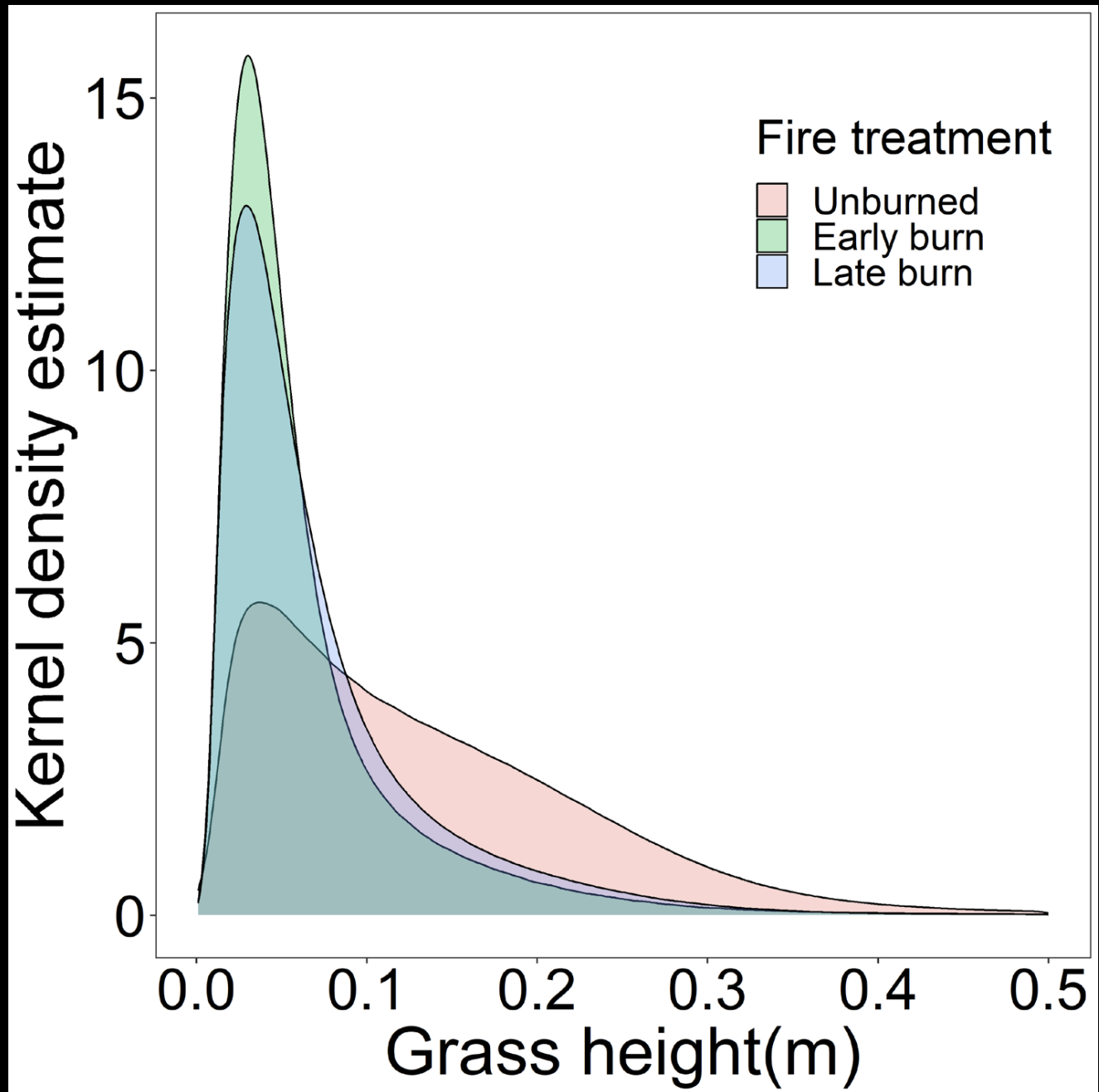


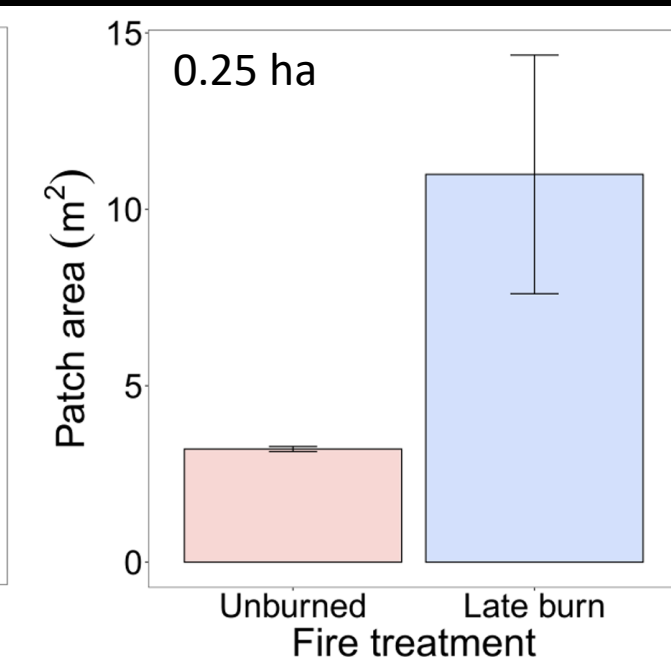
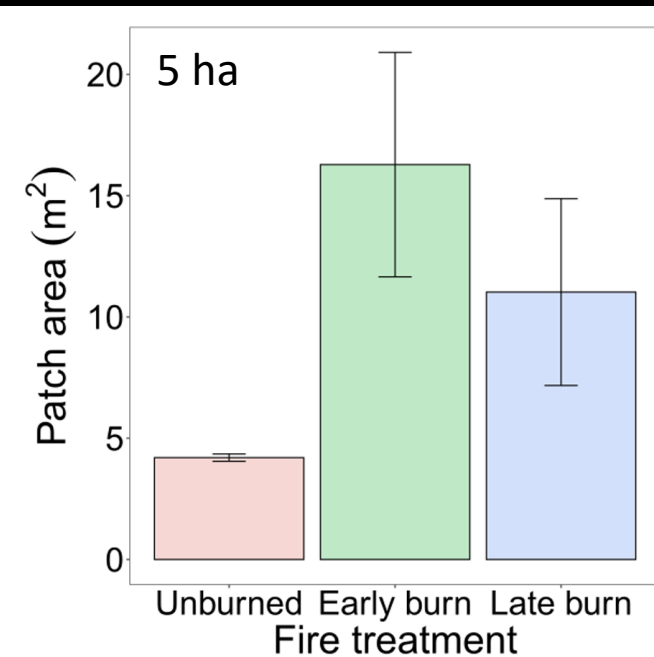
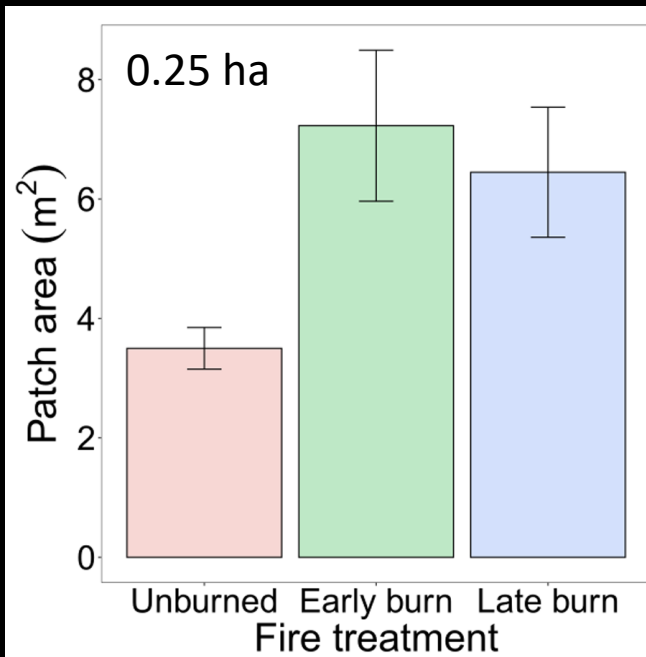
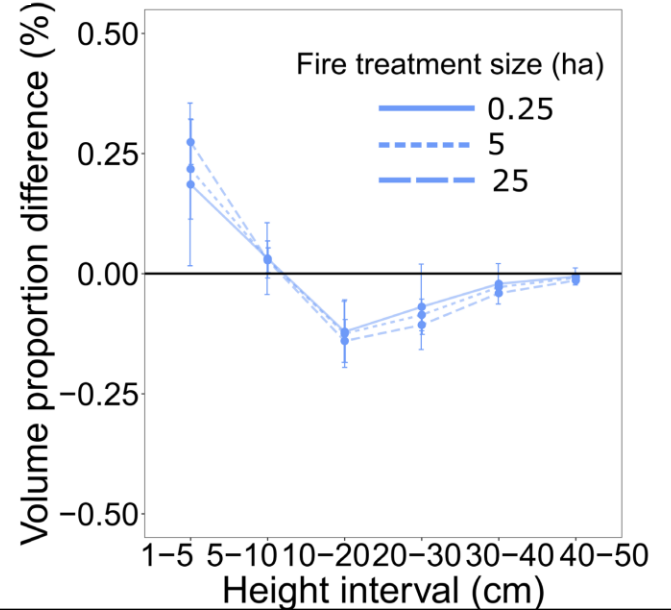
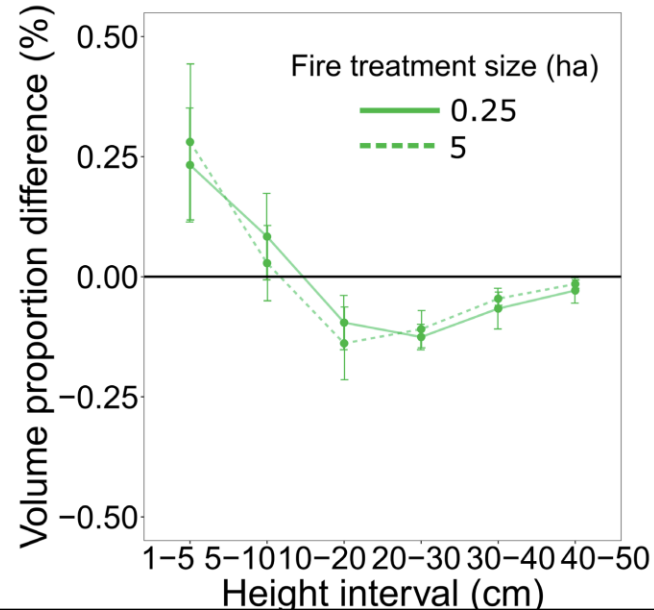
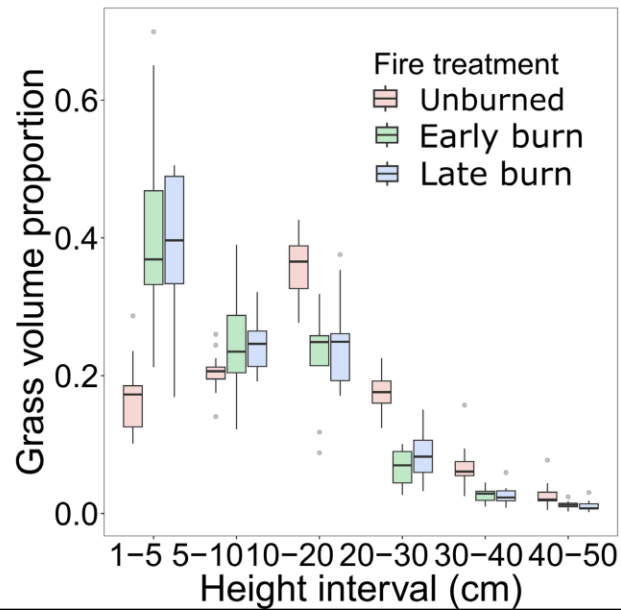
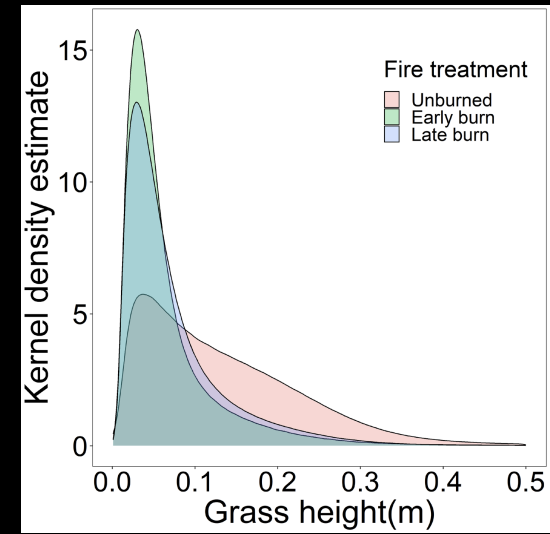


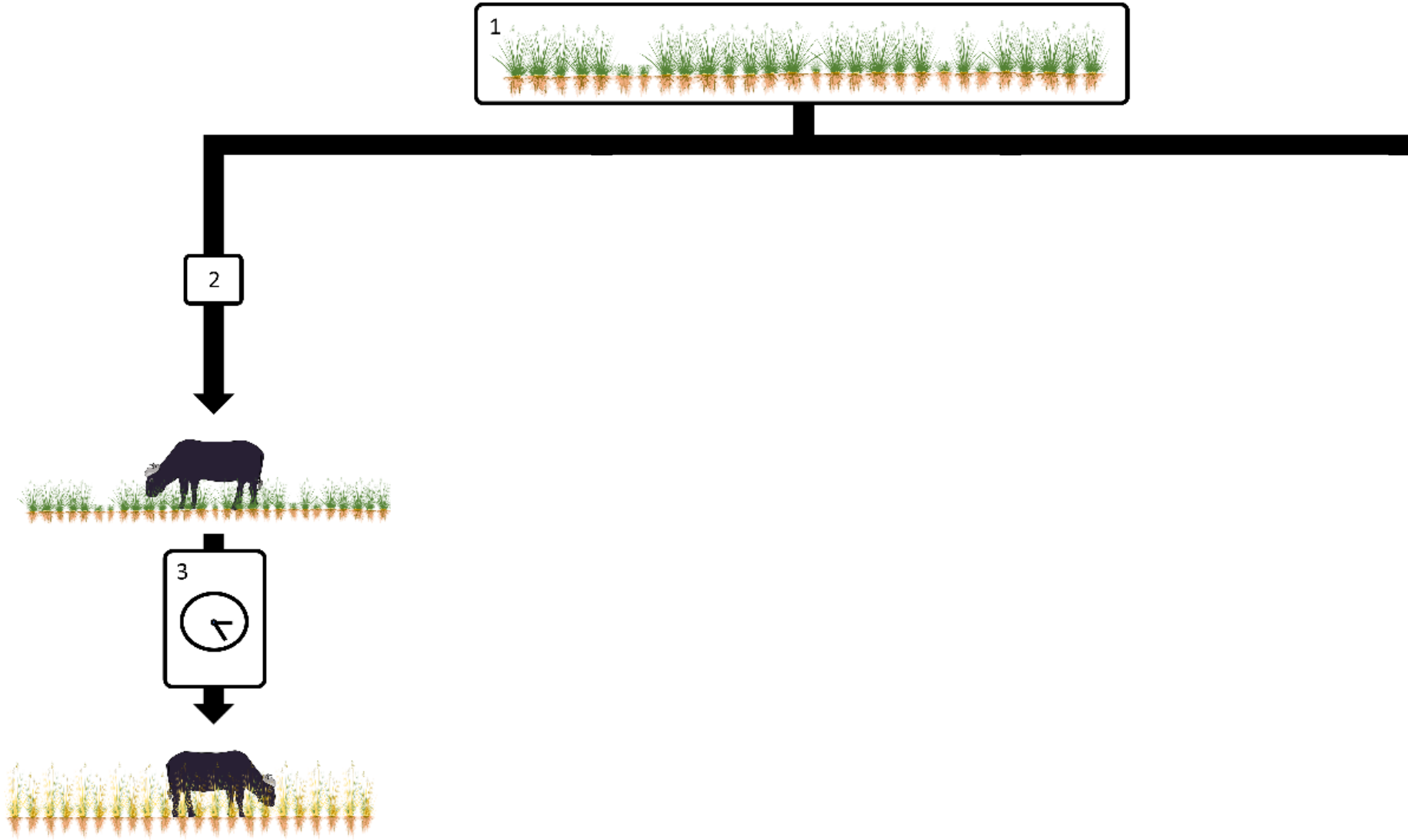
Unburned

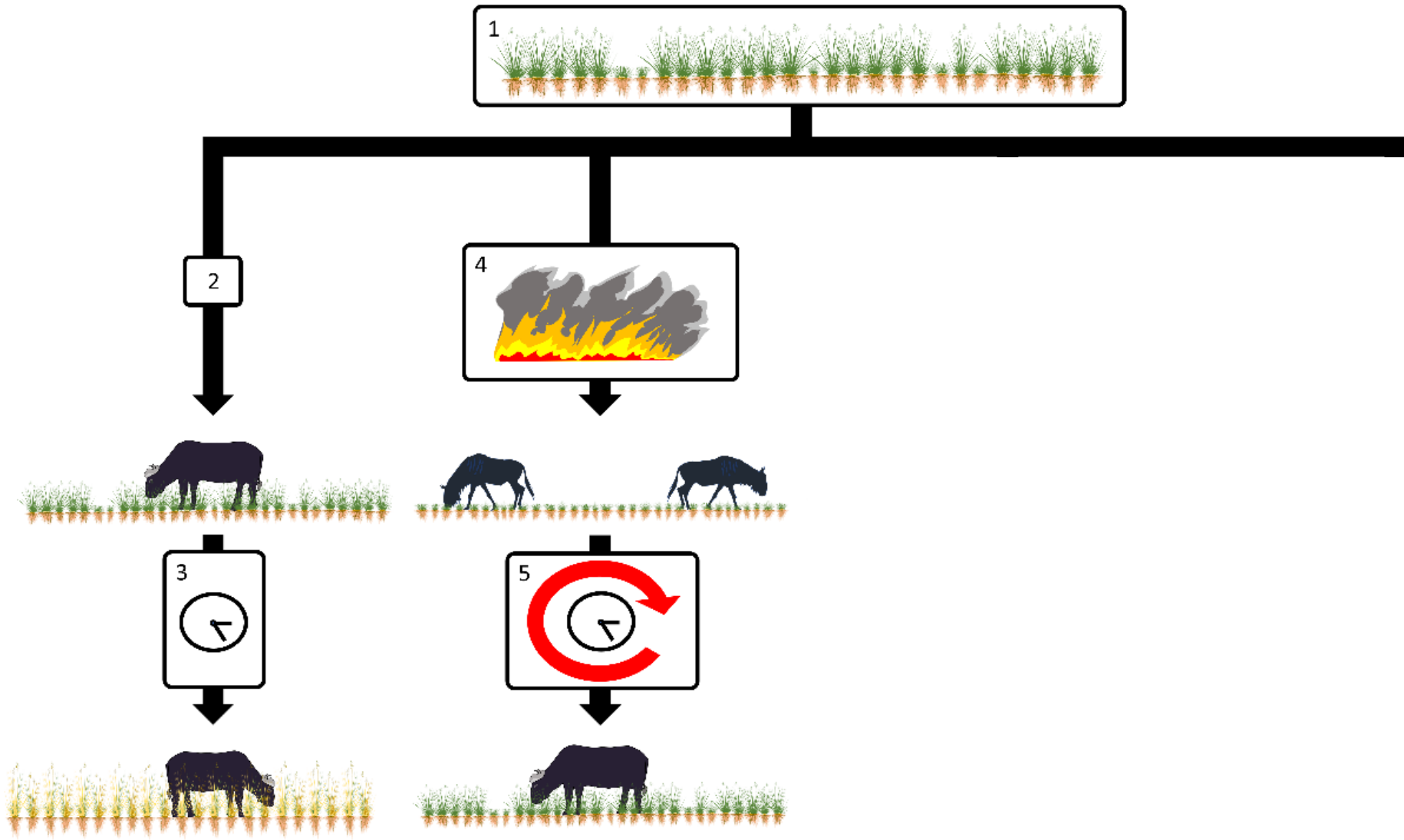
Early burn

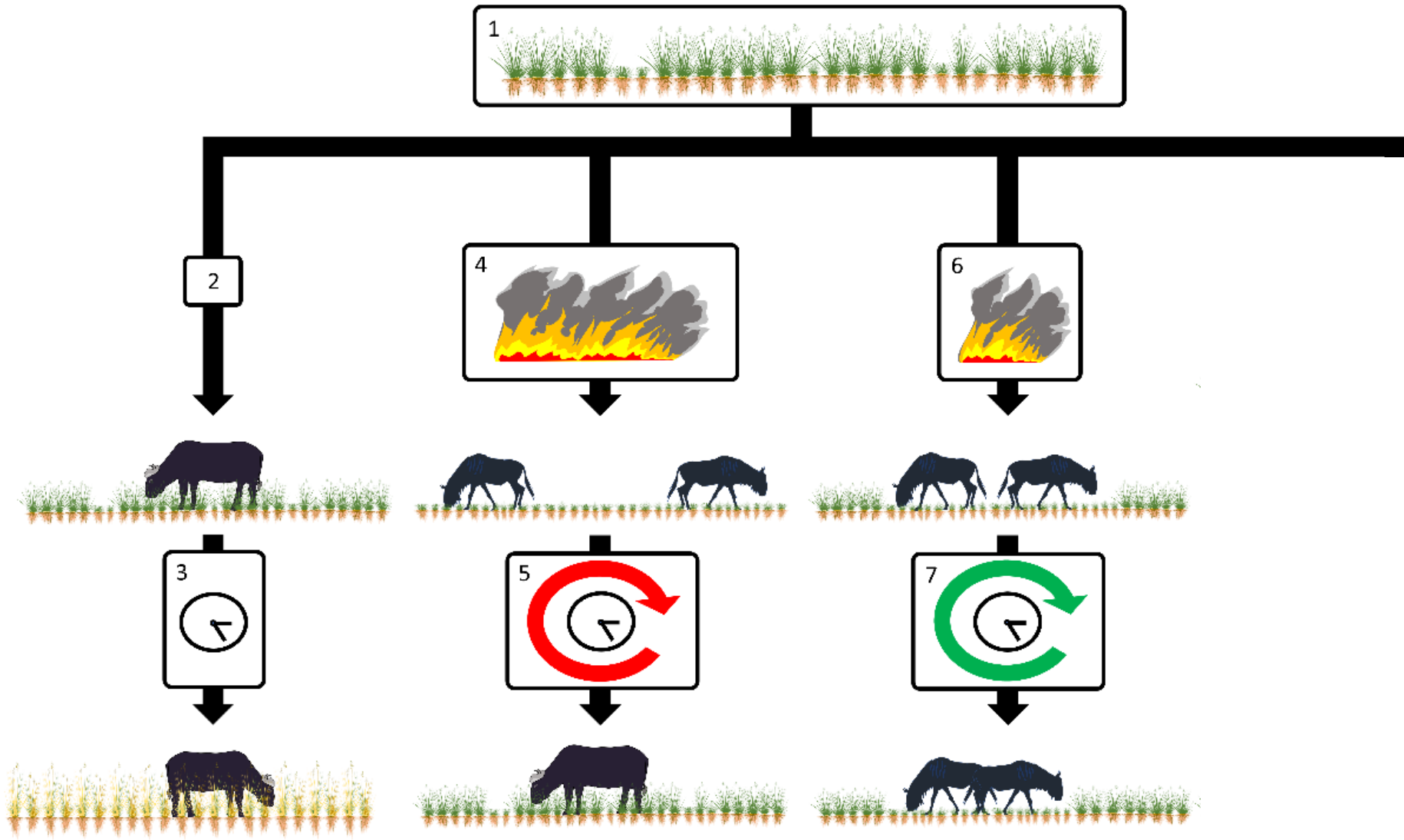
Late burn

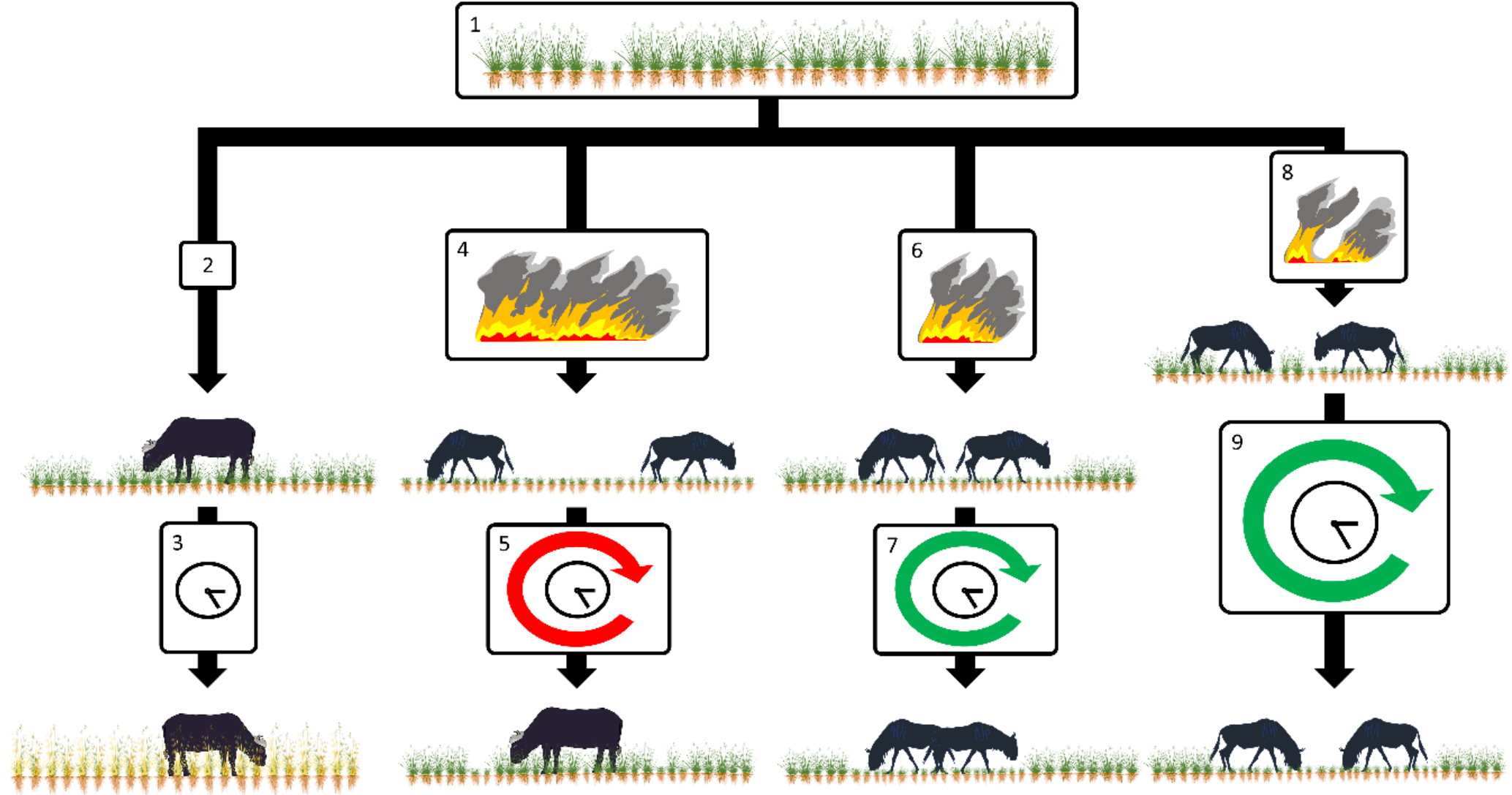












# Fine-scale and variable effects of fires



- High degree of variability among and within individual fires
- Interplay with seasonal, landscape and individual fire differences
- Feedbacks with herbivores
- Effects can outlast the application of fire



## Scientific and logistical support

- Tercia Strydom
- Navashni Govender
- David Simelane



## Fire ignitions and control



## William F. Milton Fund for funding



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RESEARCH ARTICLE



Active Remote Sensing for Ecology and Ecosystem Conservation

### Effects of long-term fixed fire regimes on African savanna vegetation biomass, vertical structure and tree stem density

Jenia Singh | Peter B. Boucher | Evan G. Hockridge | Andrew B. Davies

RESEARCH ARTICLE



### Small-scale fires interact with herbivore feedbacks to create persistent grazing lawn environments

Jenia Singh<sup>1</sup> | Jason E. Donaldson<sup>2</sup> | Sally Archibald<sup>3</sup> | Catherine L. Parr<sup>3,4,5</sup> | Michael D. Voysey<sup>1</sup> | Andrew B. Davies<sup>1</sup>