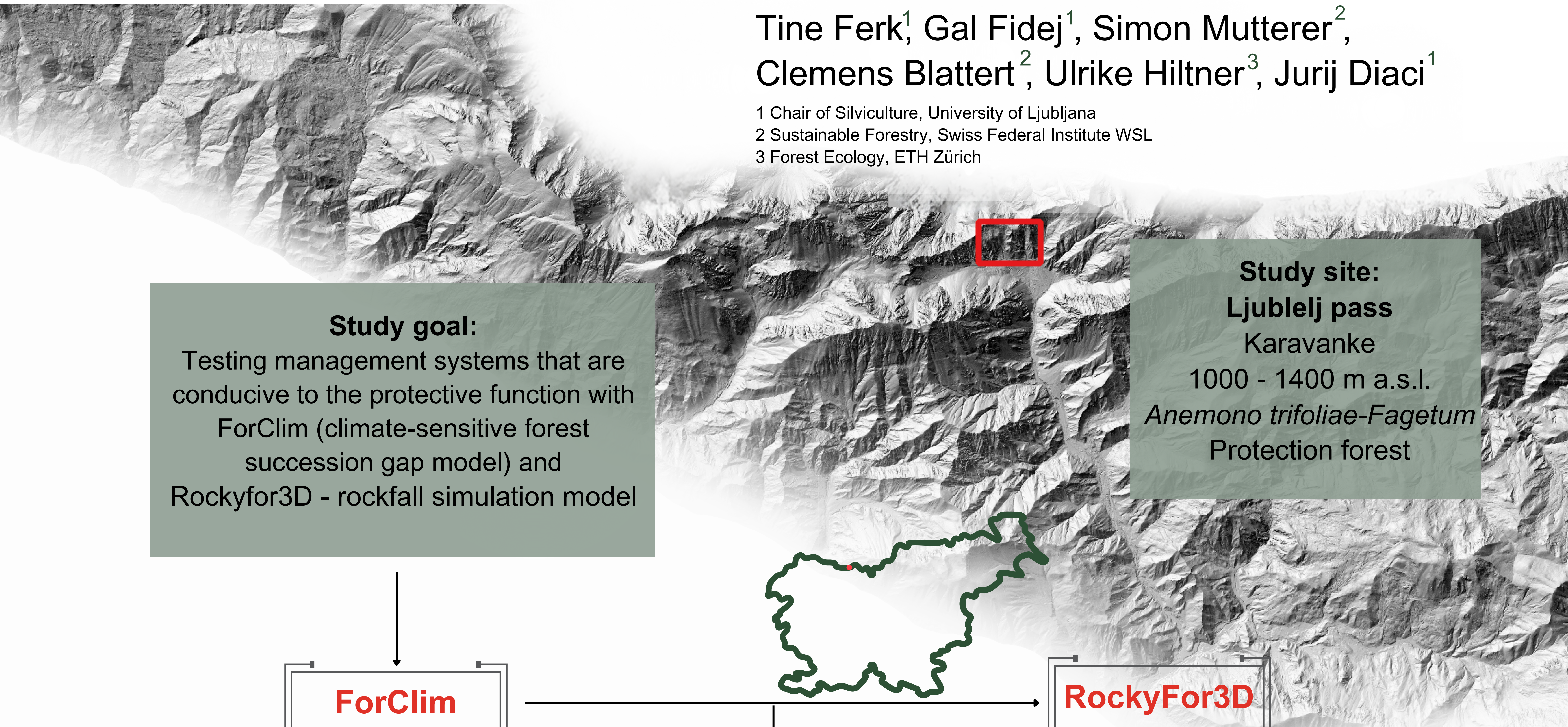


Rockfall in protection forests: Silvicultural measures

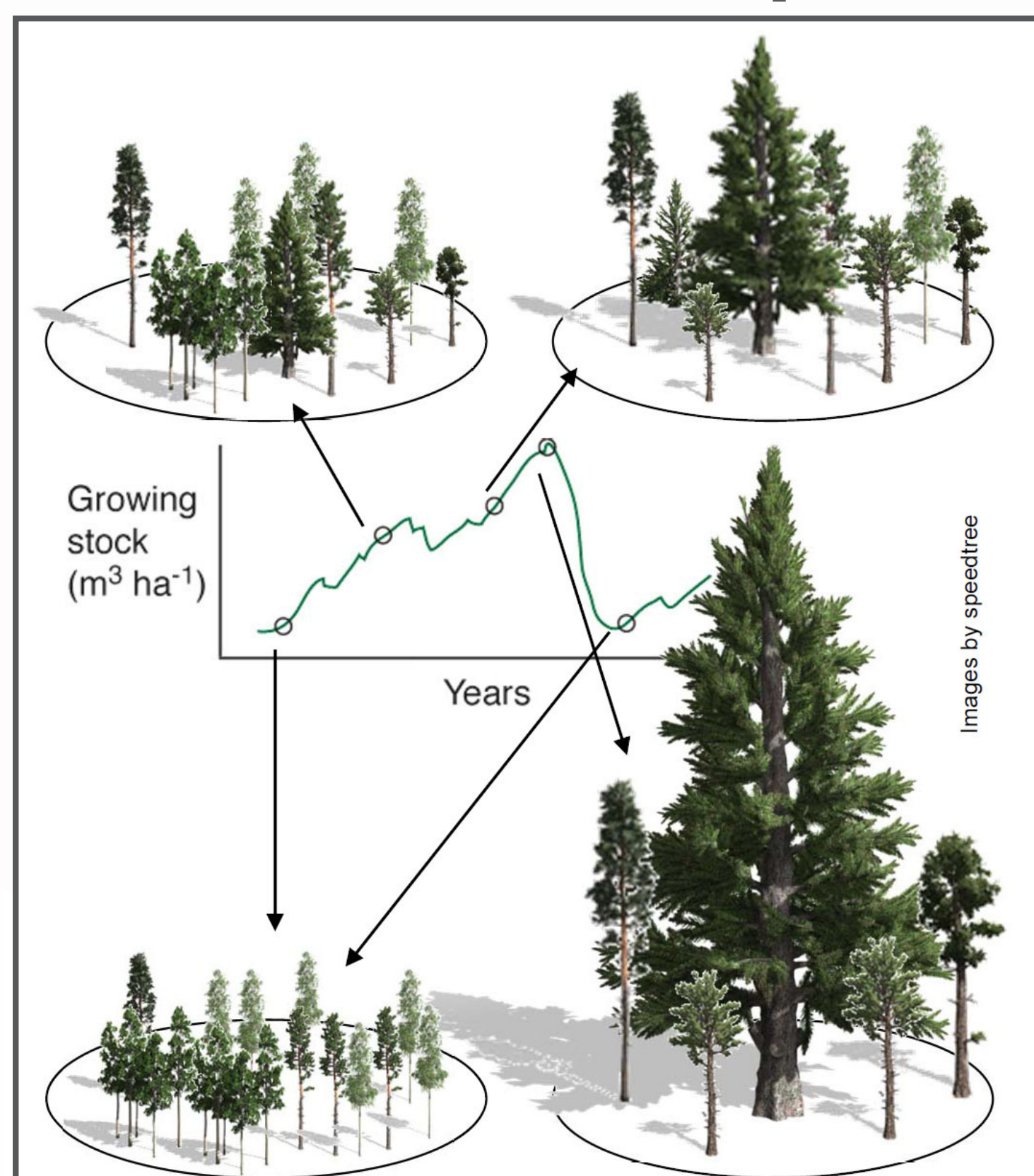
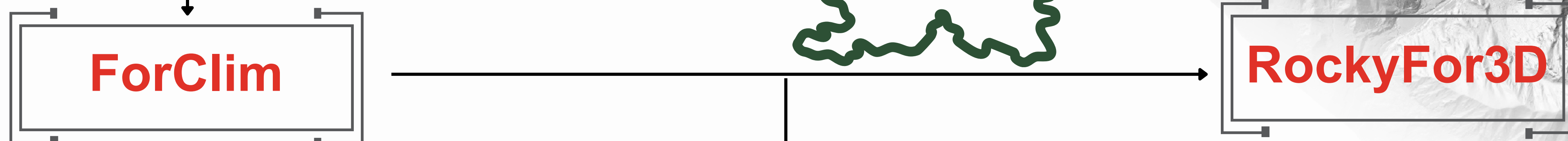
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Clemens Blatter², Ulrike Hiltner³, Jurij Diaci¹

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2 Sustainable Forestry, Swiss Federal Institute WSL
3 Forest Ecology, ETH Zürich



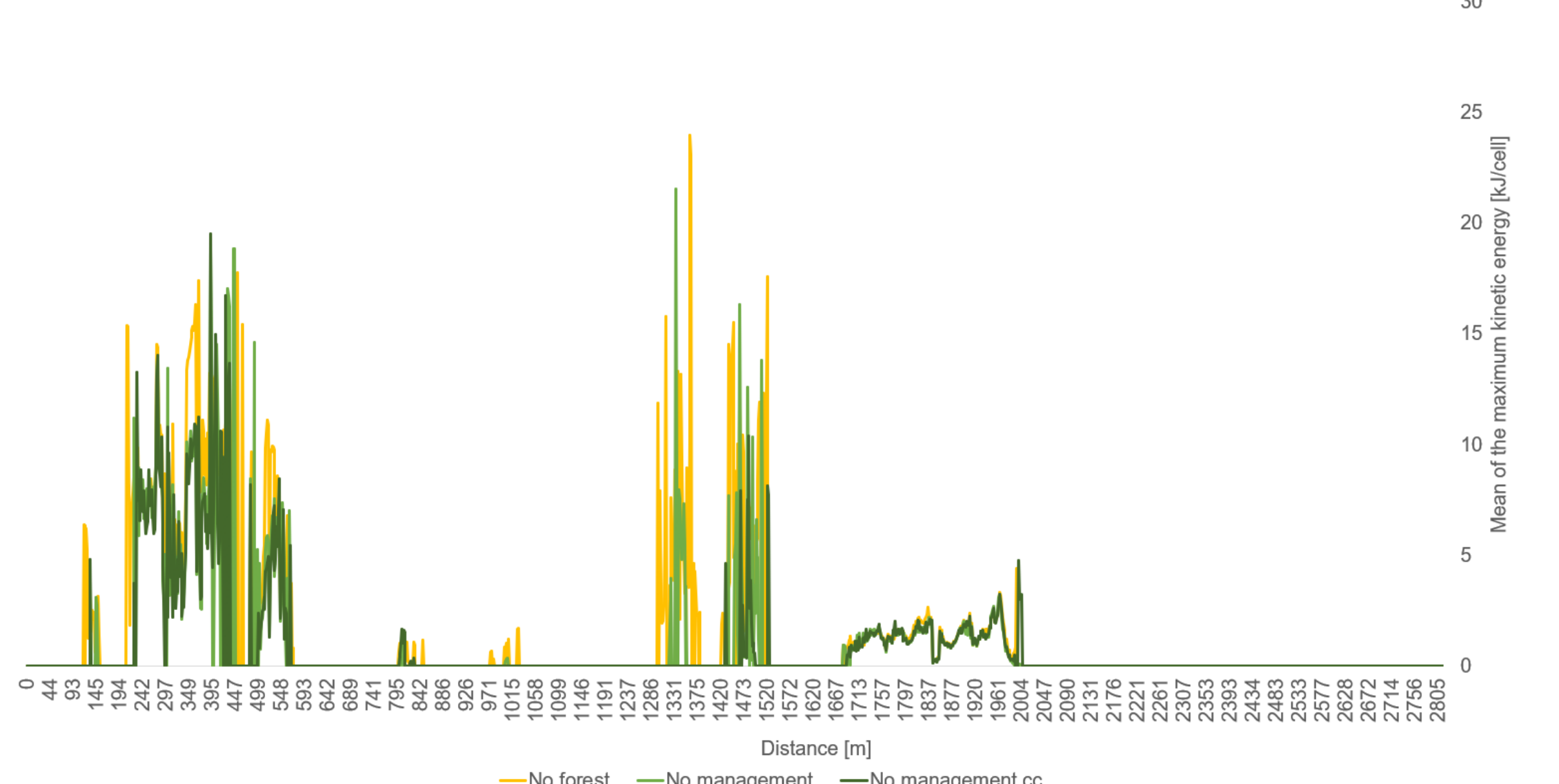
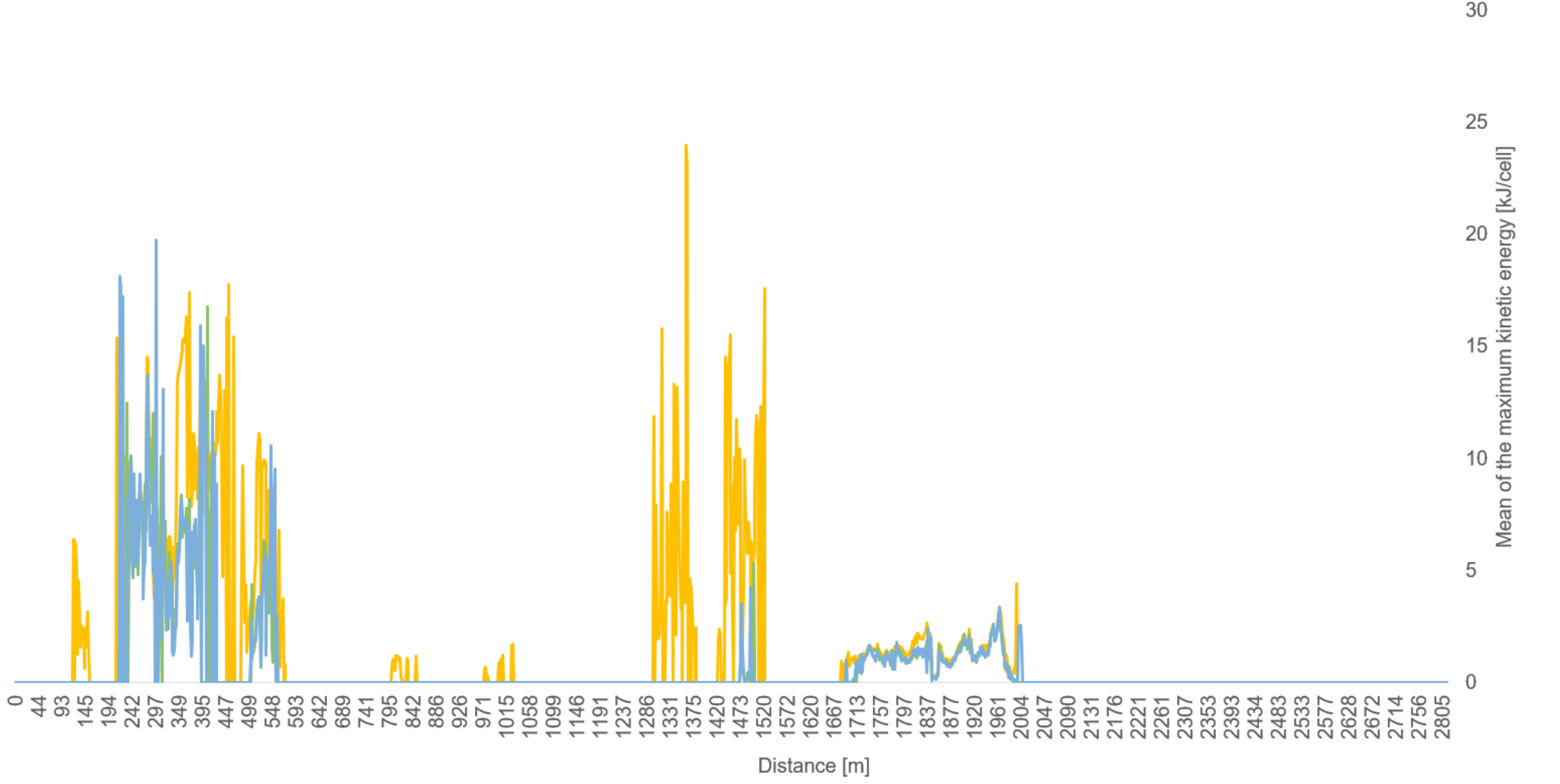
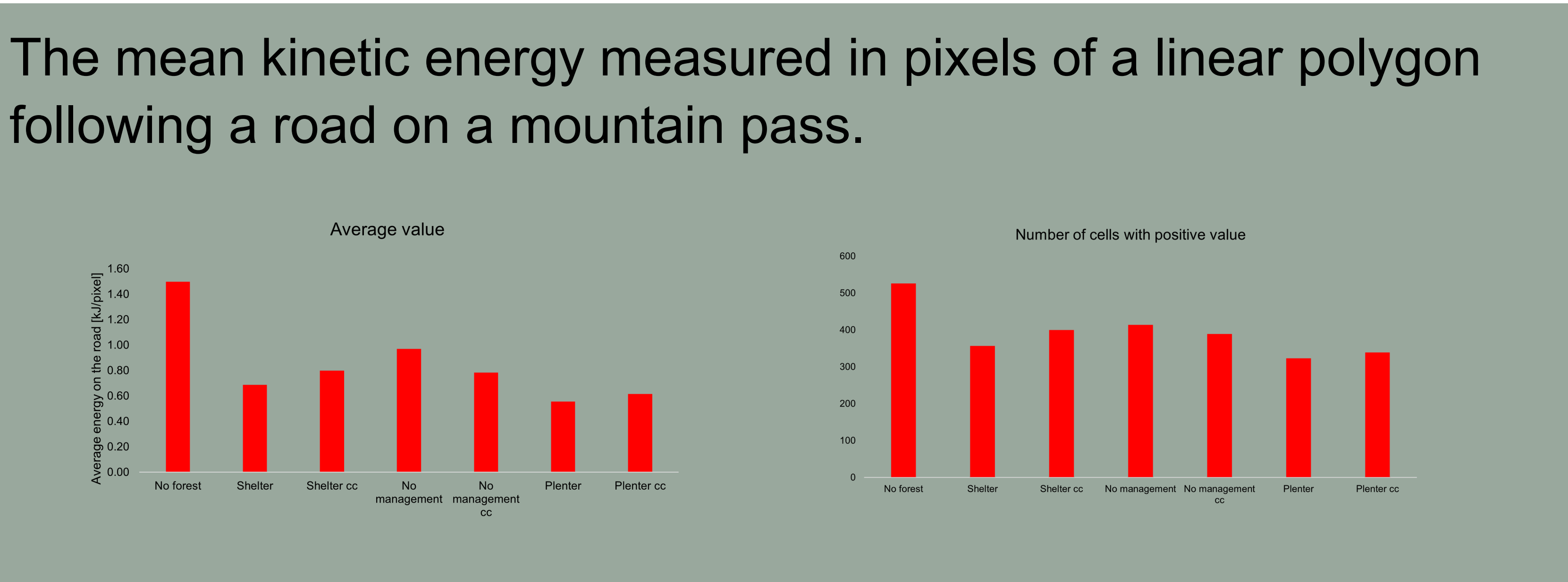
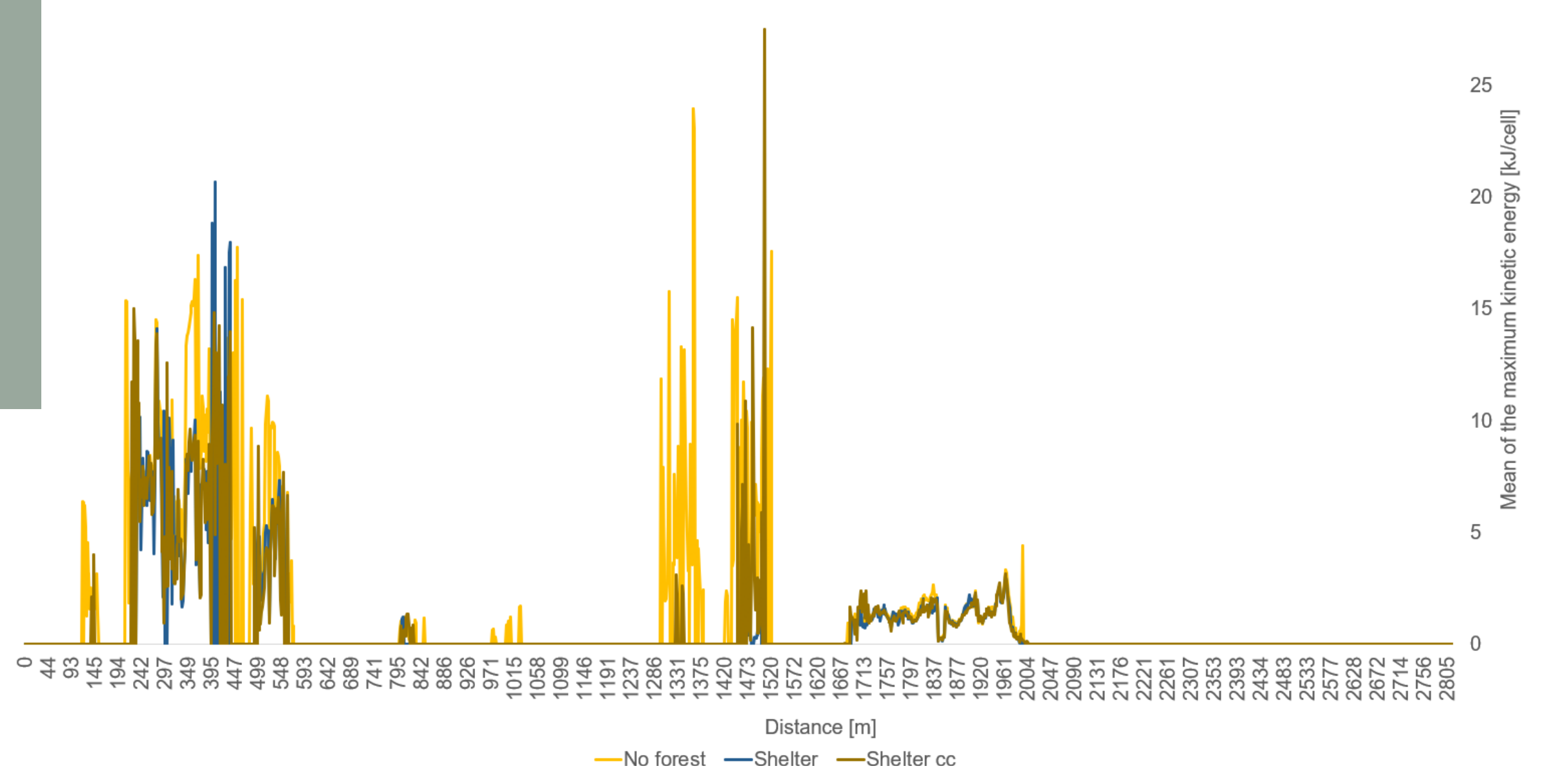
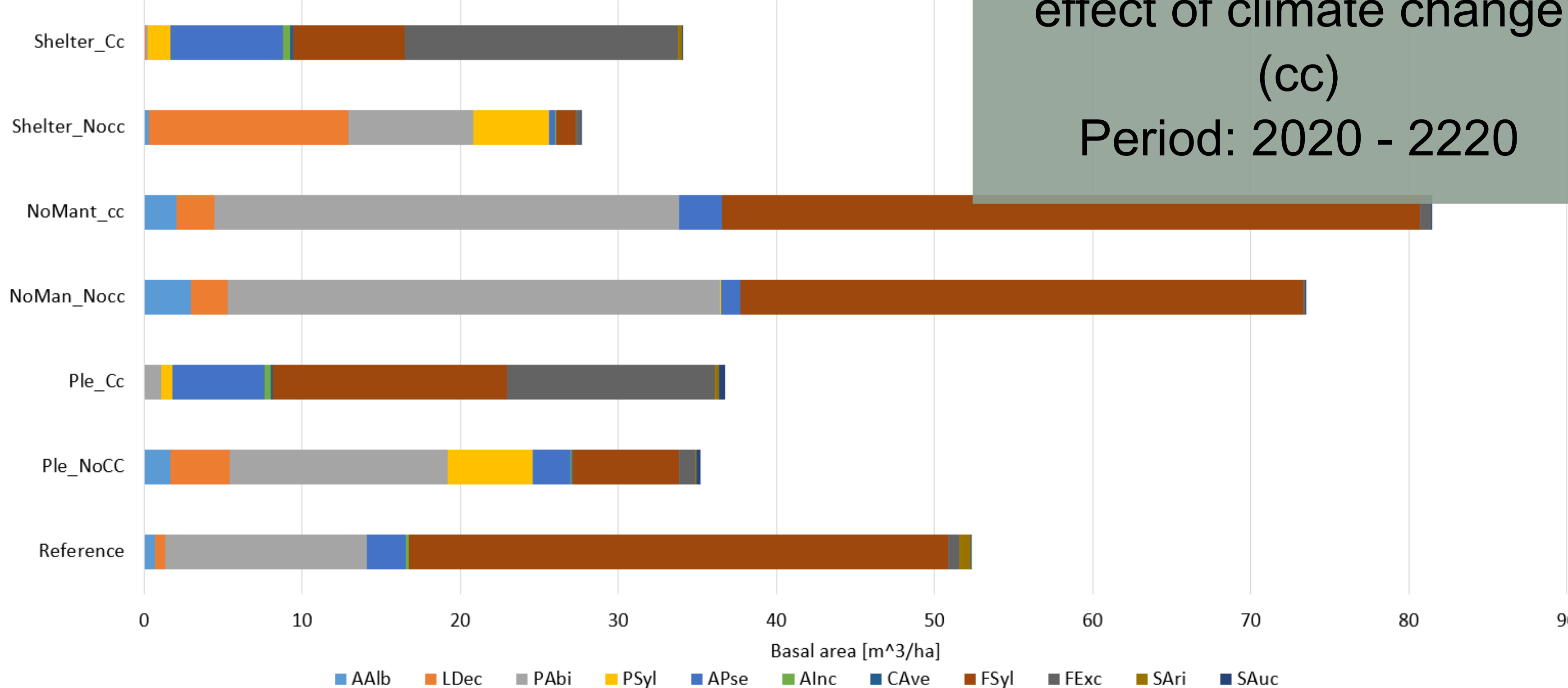
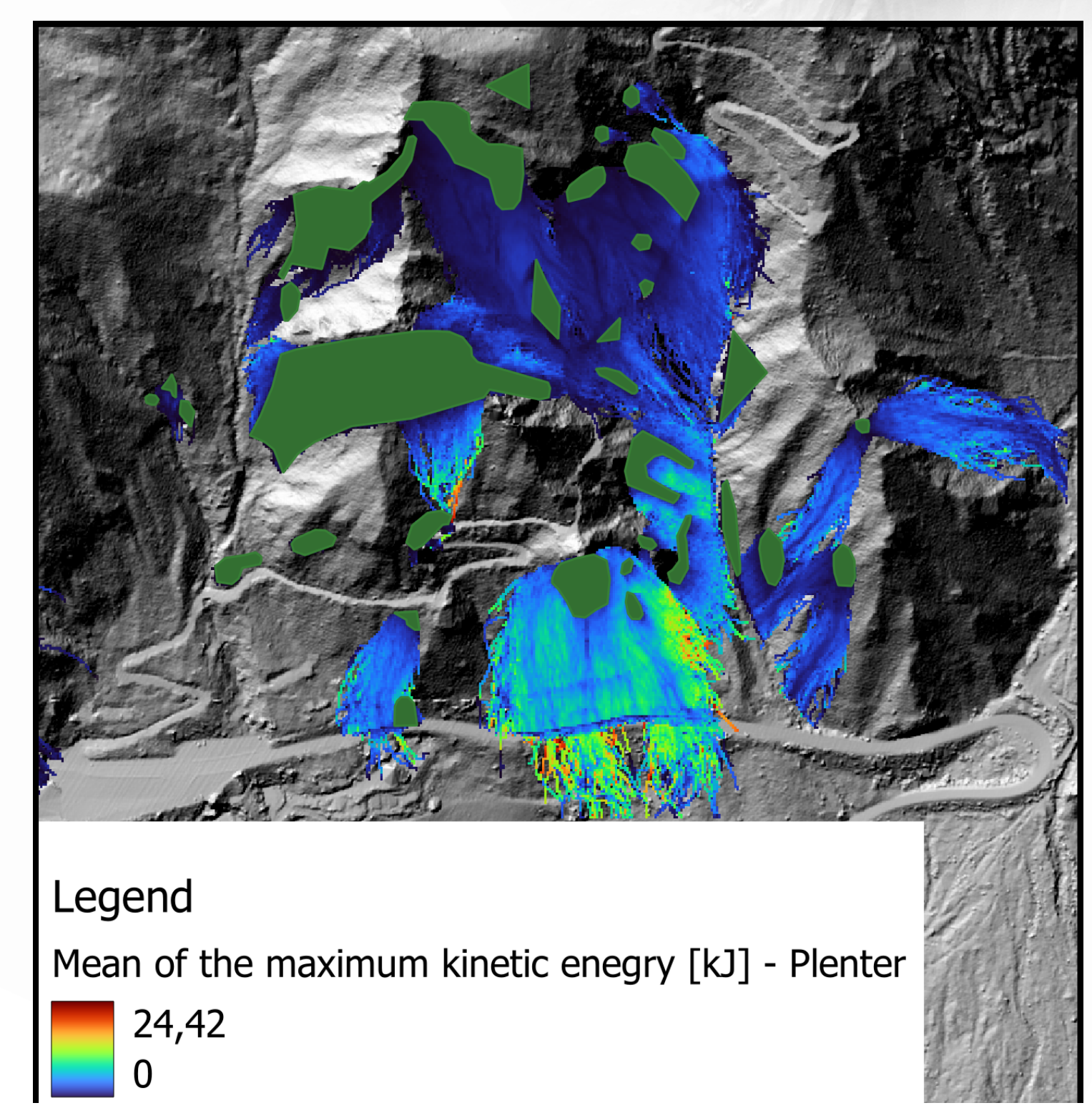
Study goal:
Testing management systems that are conducive to the protective function with ForClim (climate-sensitive forest succession gap model) and Rockyfor3D - rockfall simulation model

Study site:
Ljubelj pass
Karavanke
1000 - 1400 m a.s.l.
Anemone trifoliae-Fagetum
Protection forest



3 silviculture scenarios:
No management (NoMan)
Plenter (Ple)
Shelterwood (Shelter)

Each one tested with and without the effect of climate change (cc)
Period: 2020 - 2220



Conclusions: Management has a positive effect on the protective forest function.
The plenter forest system seems to be best suited for the protective function.
The shelterwood system seems to work well, but has the disadvantage that it leads to different situations over time (the final cut leaves a small density of trees)