

Supplementary Material S2 for:

**Climate change causes critical transitions and irreversible alterations of mountain  
forests**

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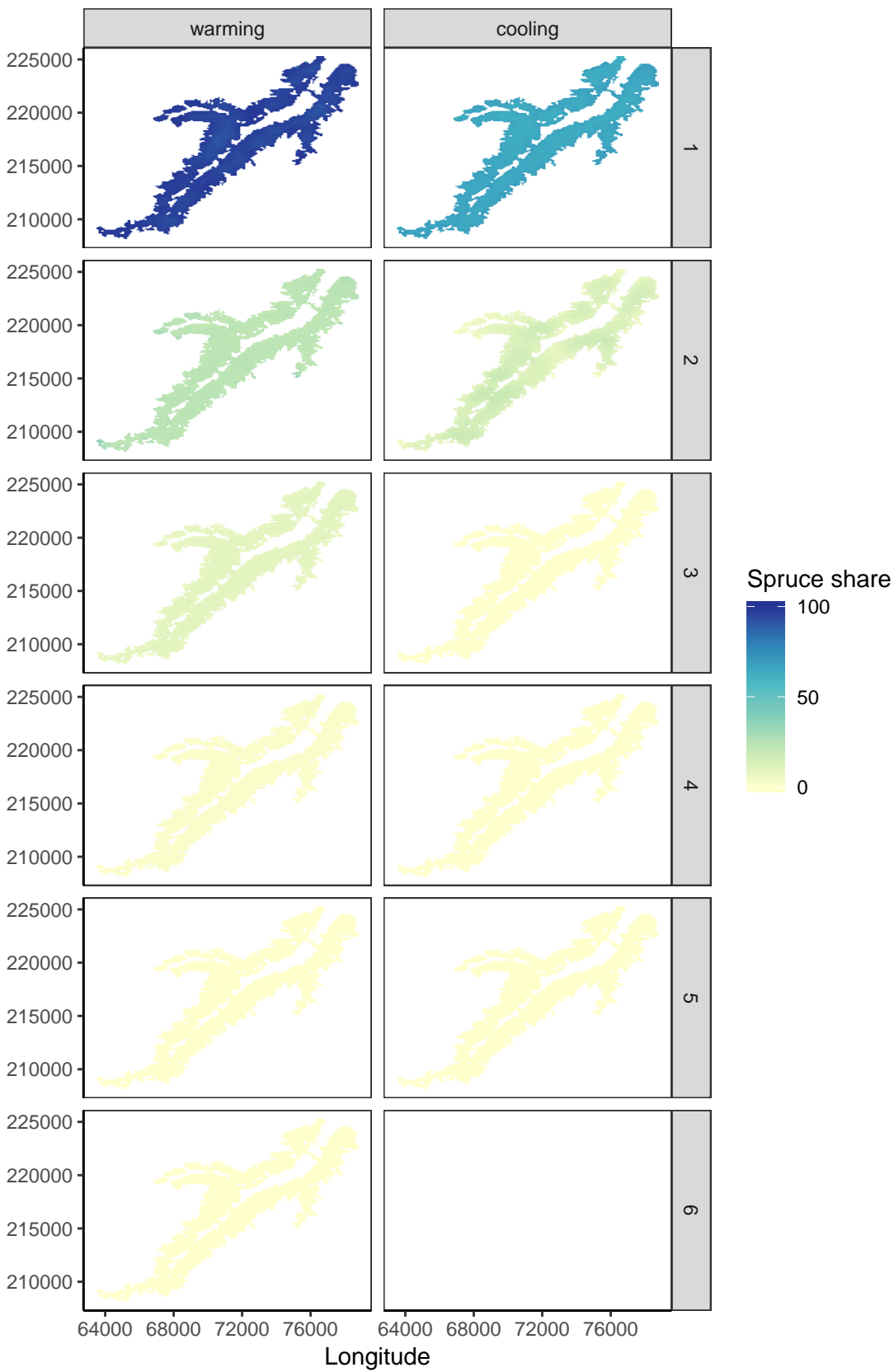
**Spatial development of indicators**

Pages 2-9: Share of Norway Spruce

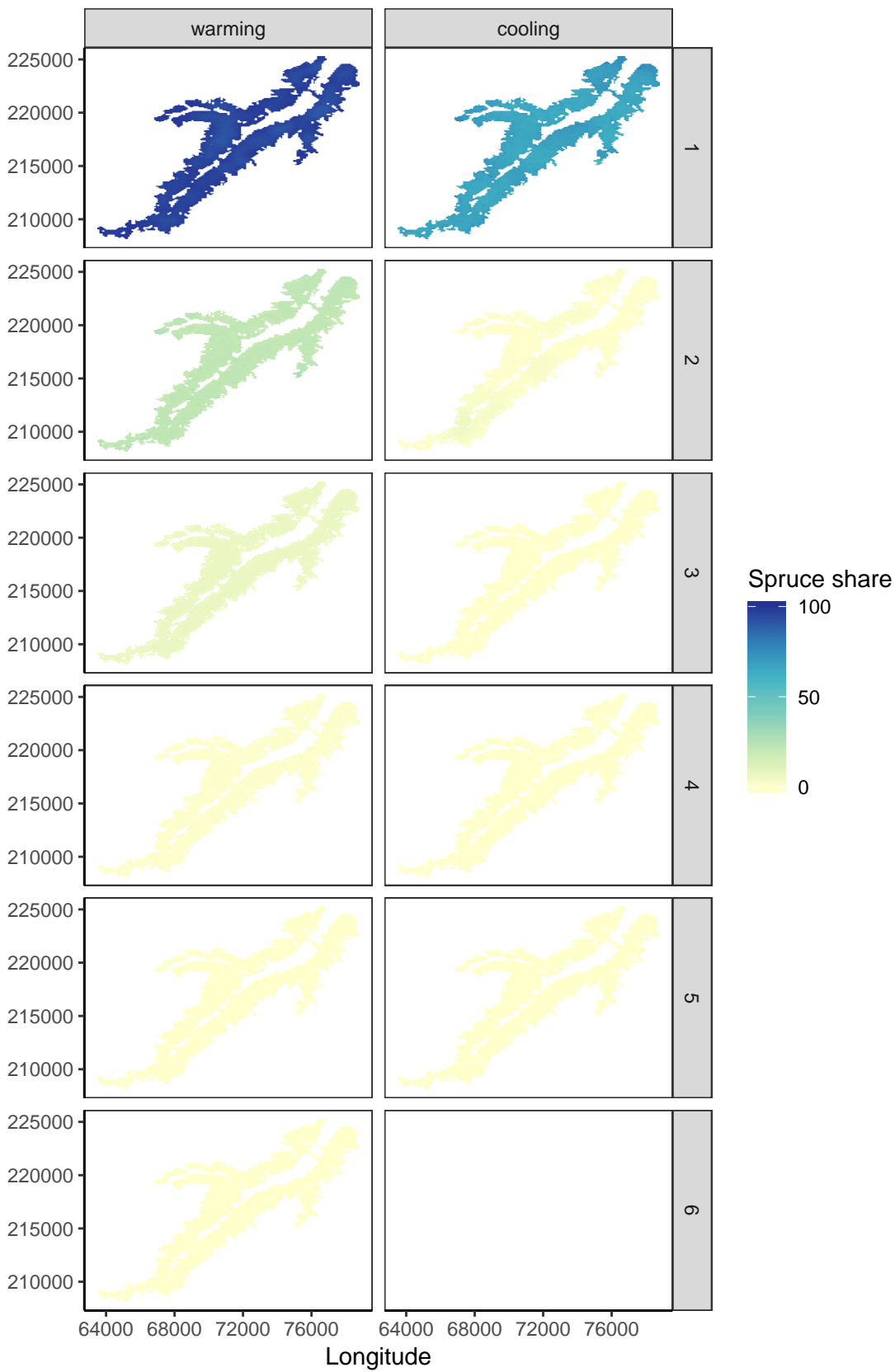
Pages 10-17: Number of Stems larger than 30 cm per ha

All values averaged across 10 replicates for each 1 ha (100x100 m) pixel over 50 years at the end of each 1000 years simulation at each temperature step.

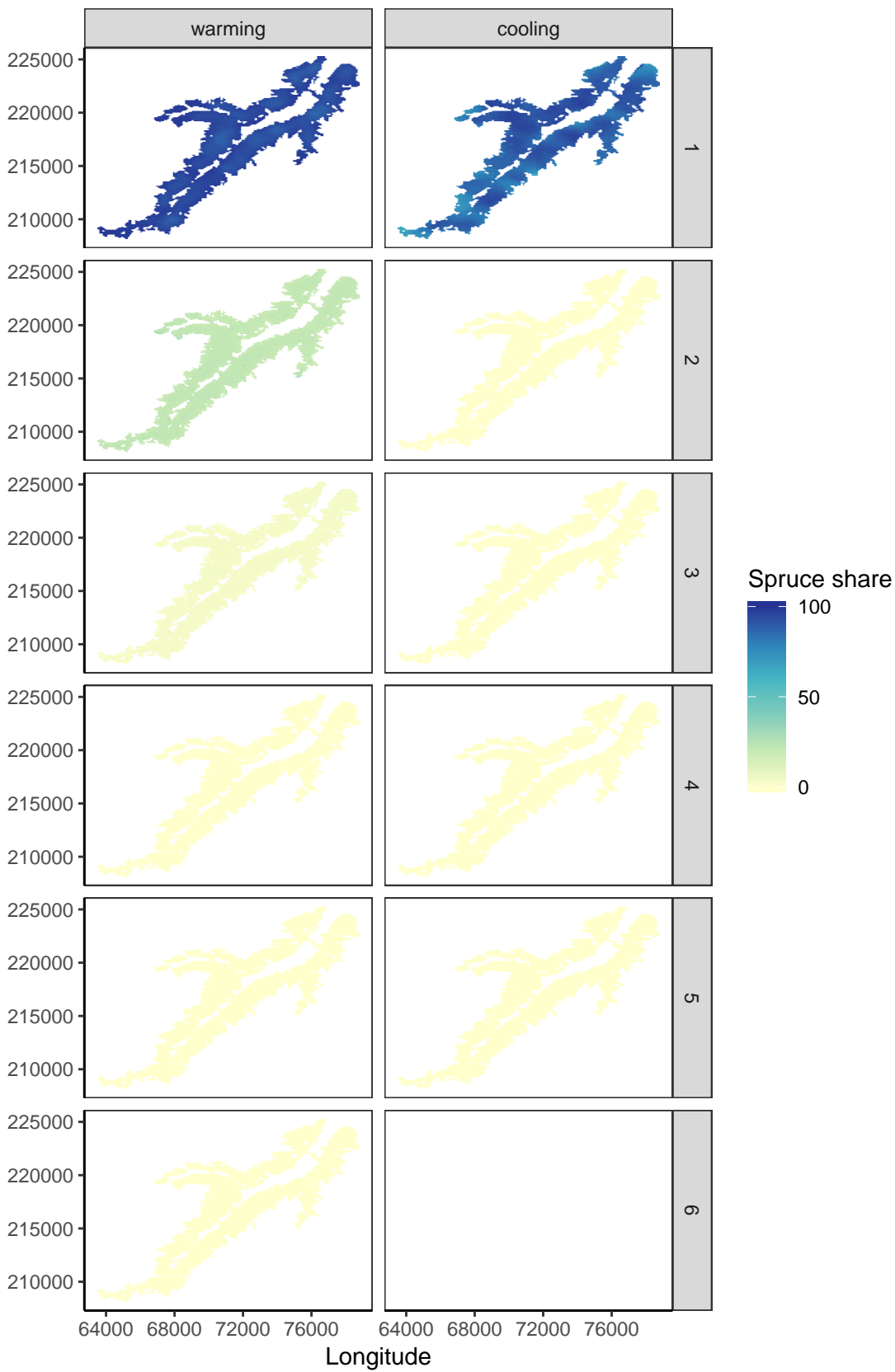
# Baseline, uniform topo



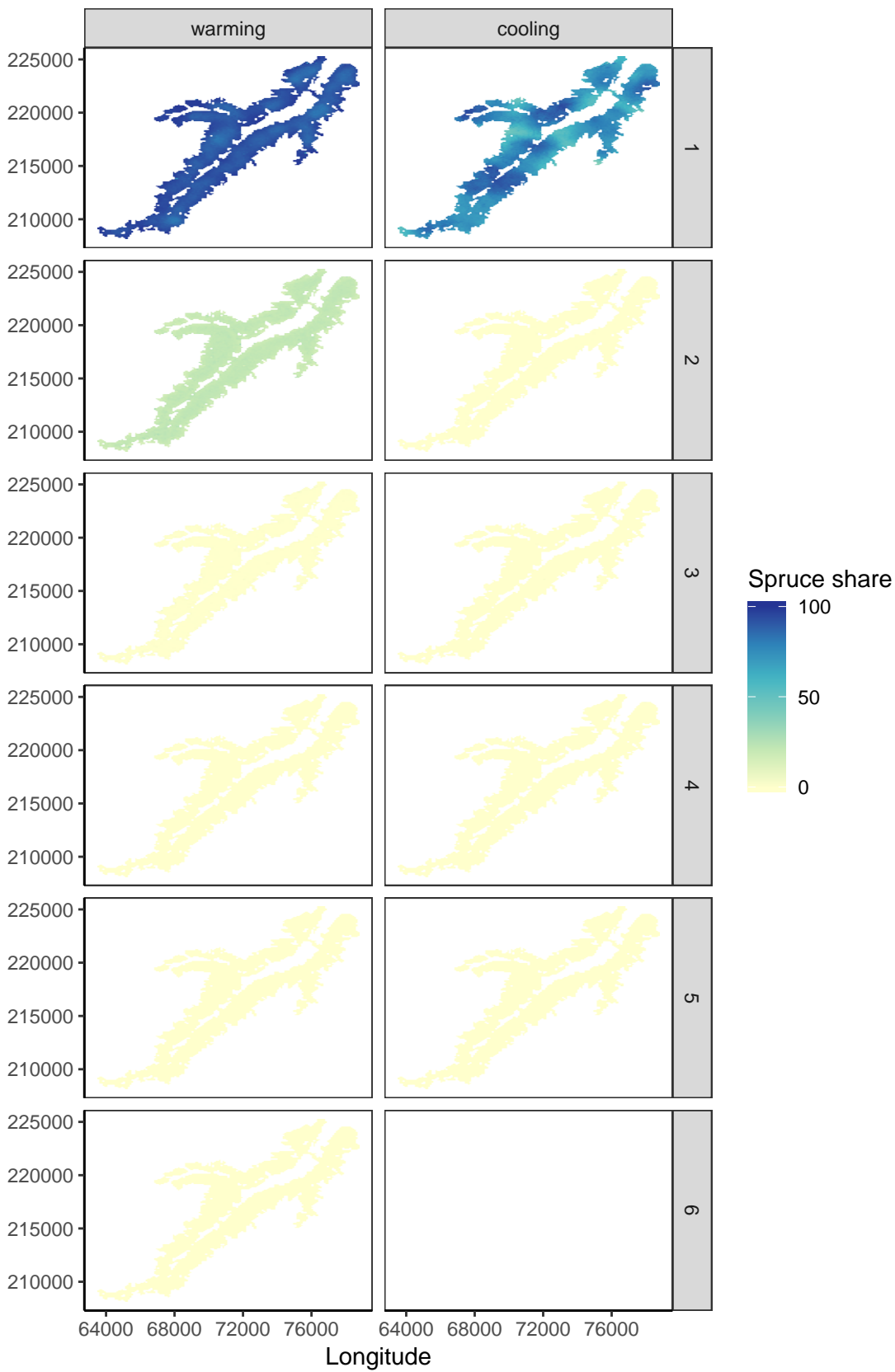
-10 %, uniform topo



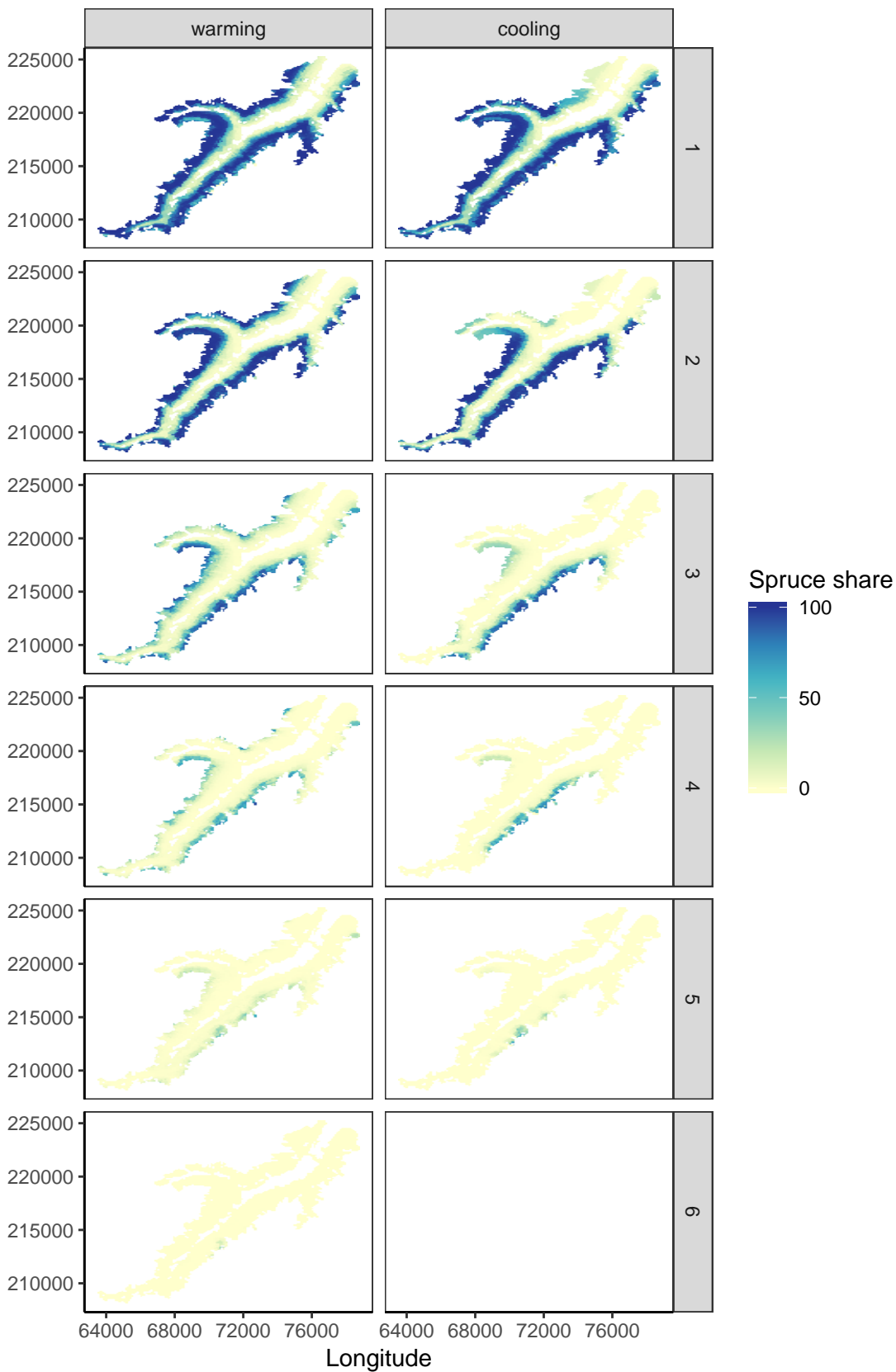
-20 %, uniform topo



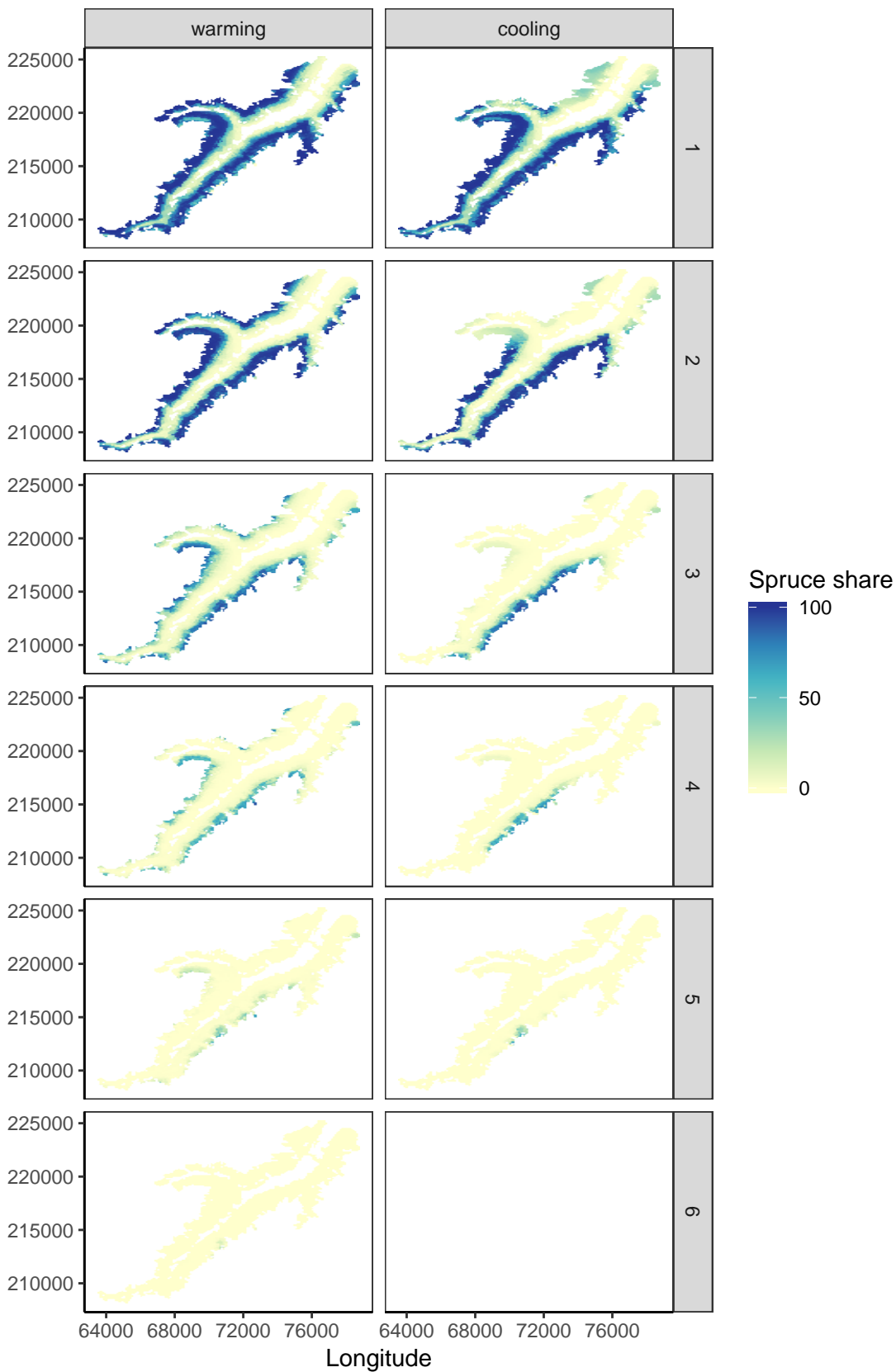
-30 %, uniform topo



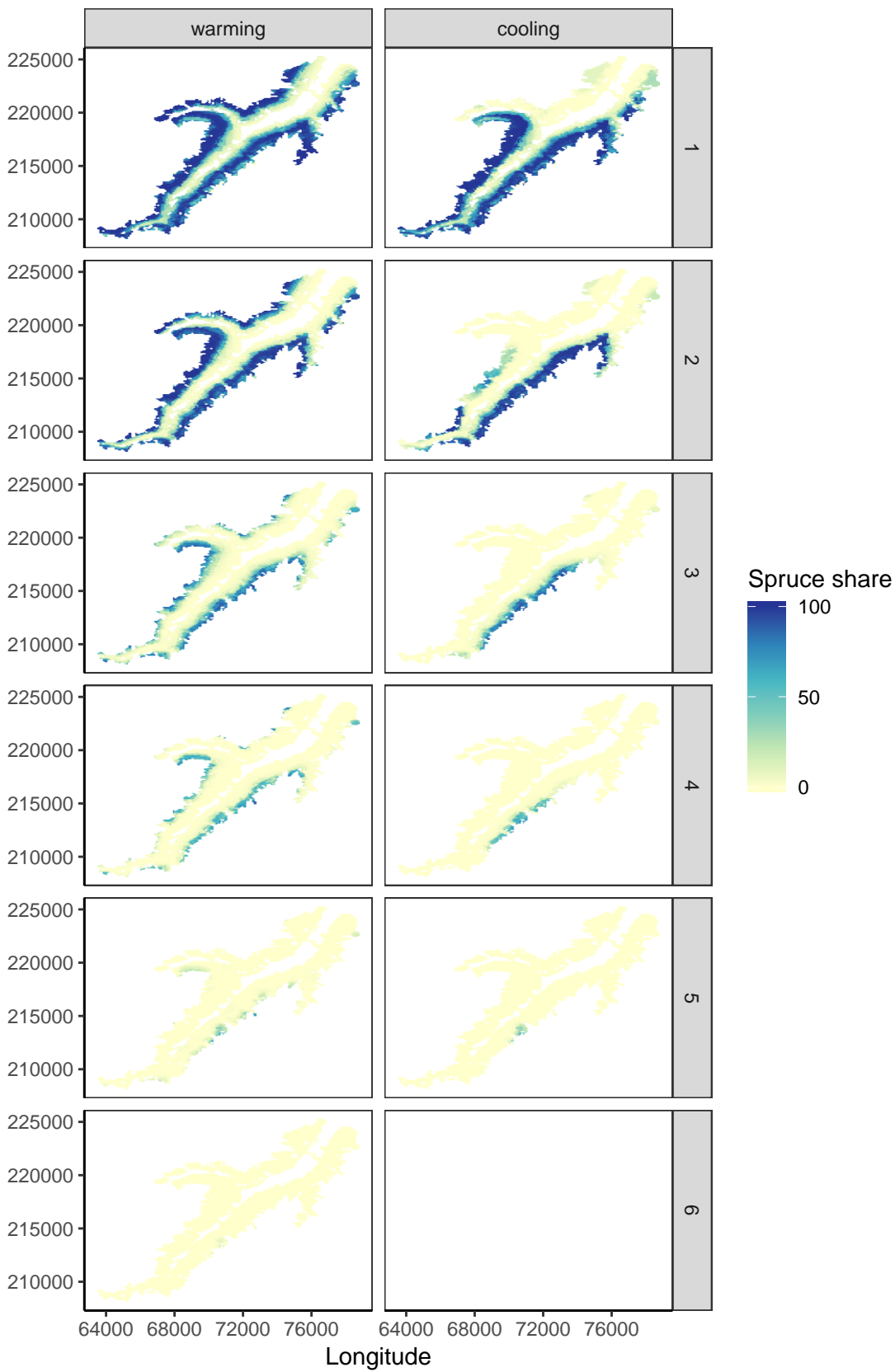
# Baseline, complex topo



# -10 %, complex topo

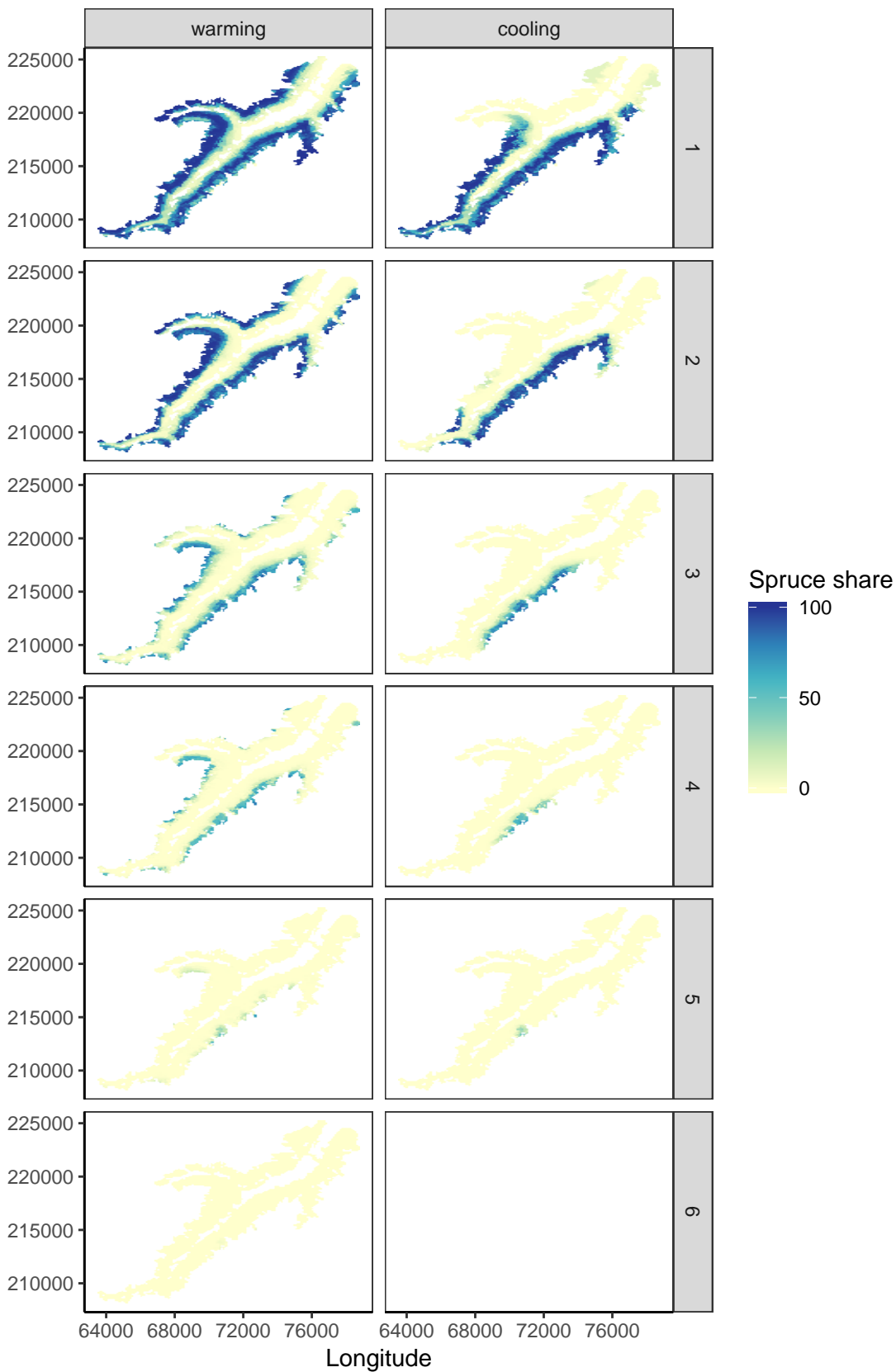


# -20 %, complex topo

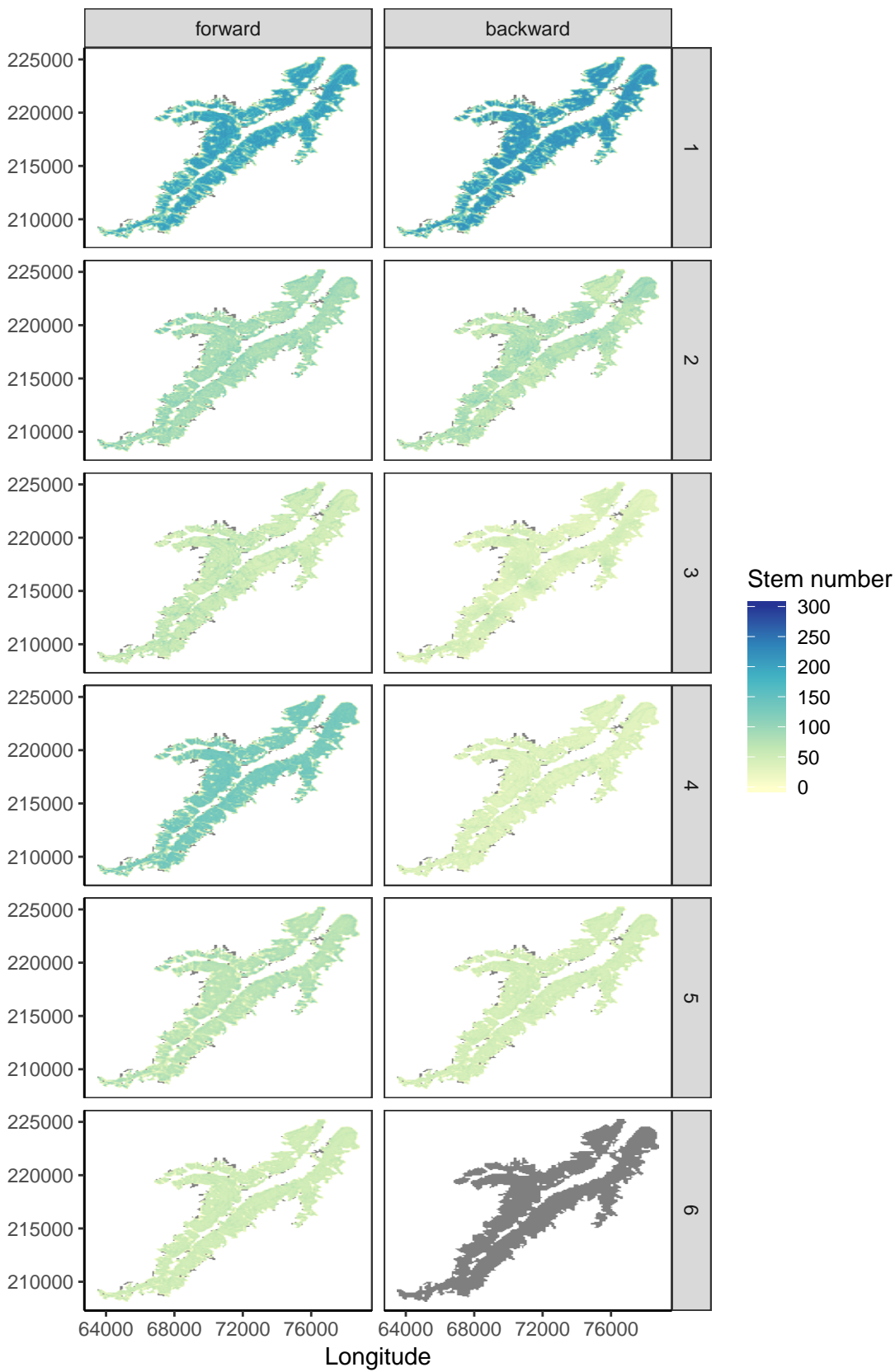




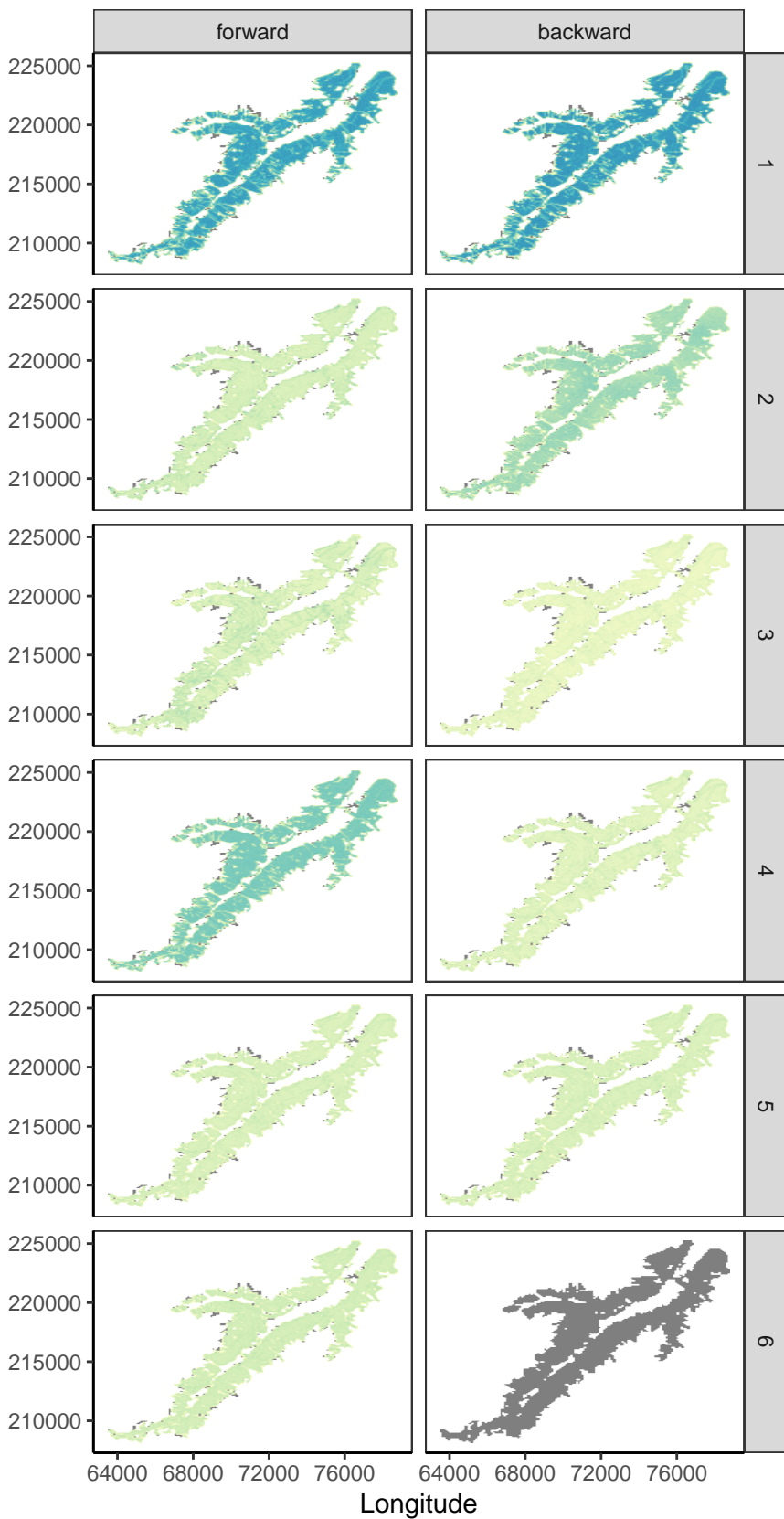
# -30 %, complex topo



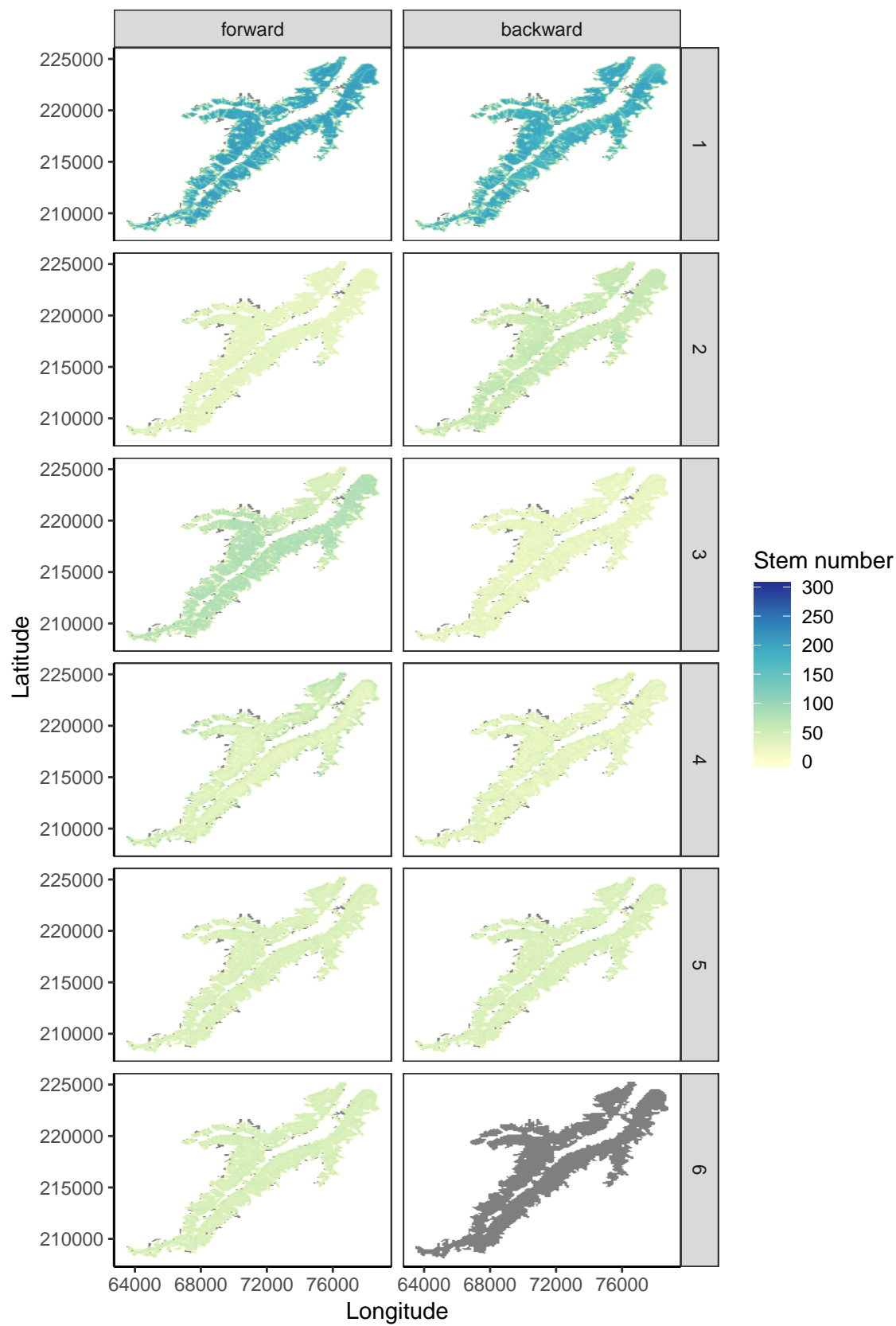
# Baseline, uniform topo



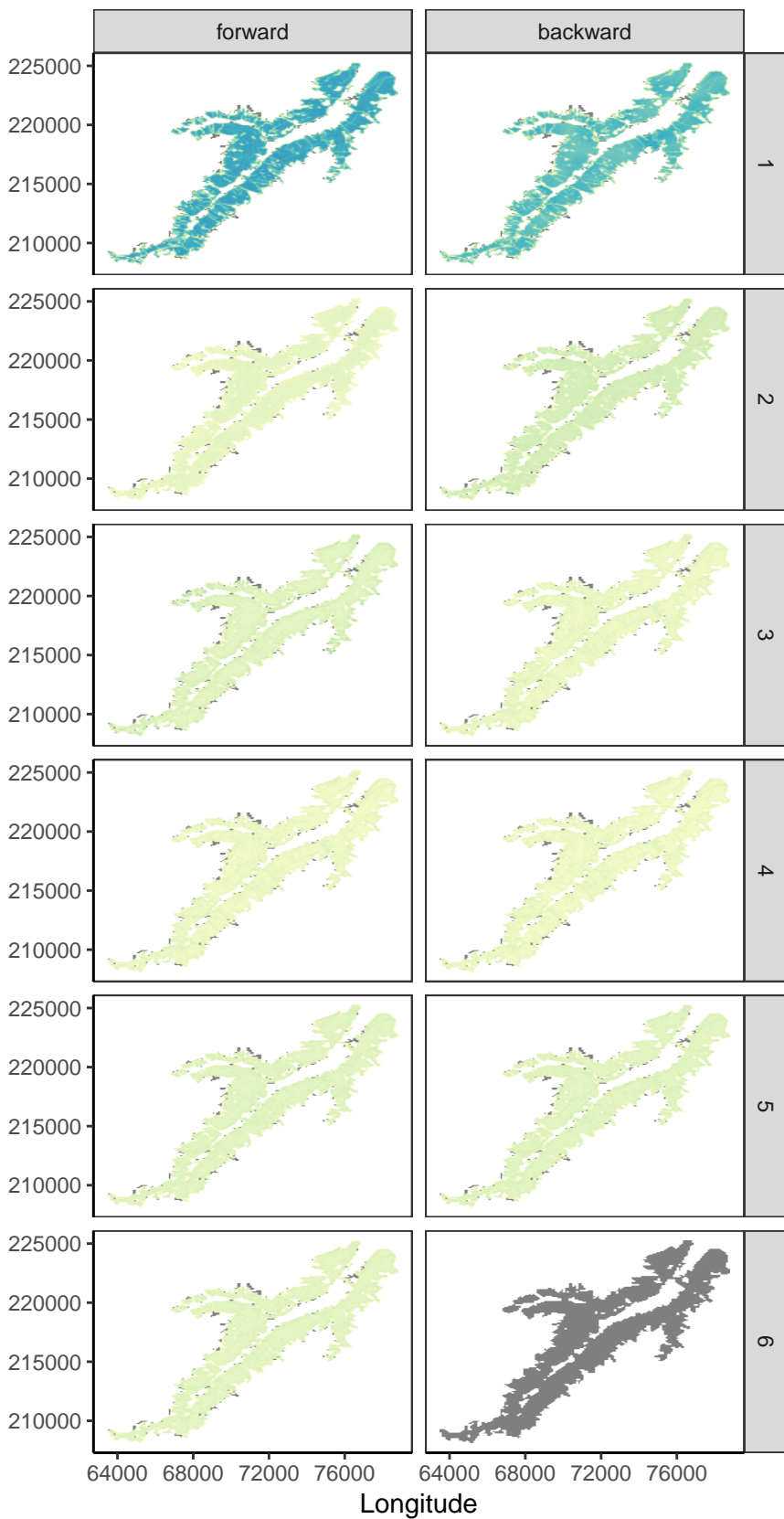
-10 %, uniform topo



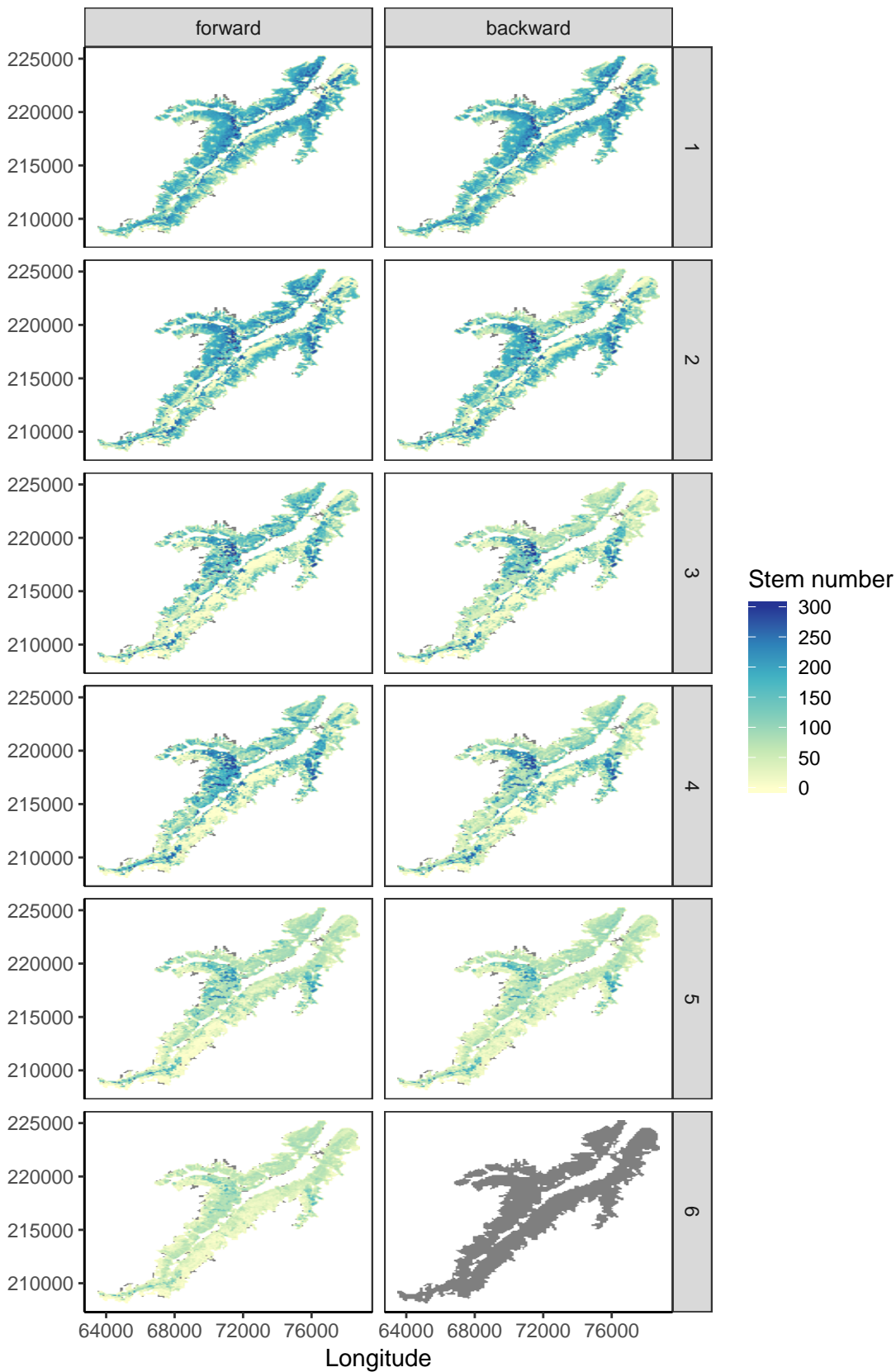
-20 %, uniform topo



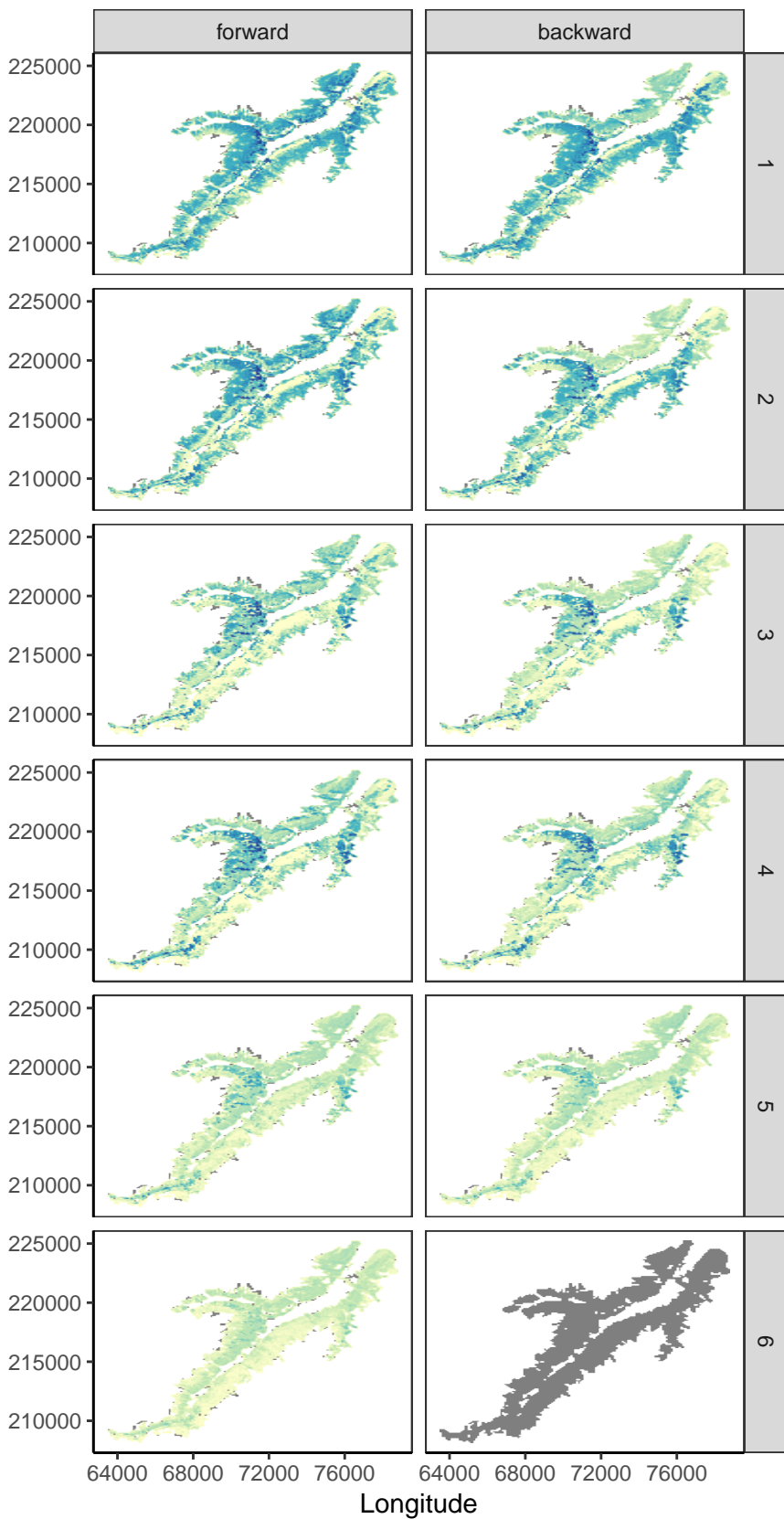
-30 %, uniform topo



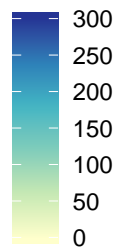
# Baseline, complex topo



# -10 %, complex topo

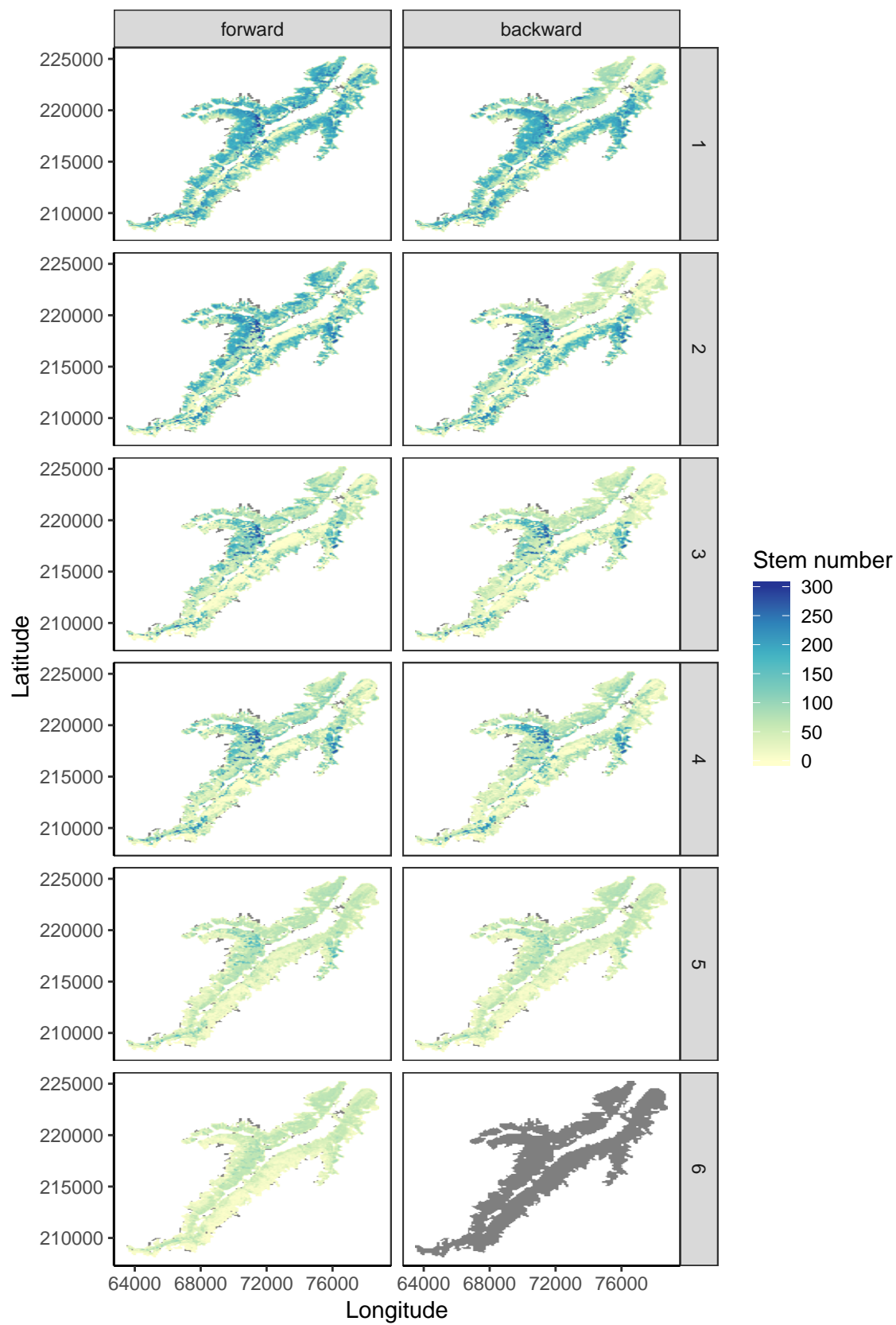


Stem number





# -20 %, complex topo





# -30 %, complex topo

