

# Alpine tundra in Europe in a changing climate

Present

Future

The treeline is projected to move vertically upwards by up to 8m every year in a 3 °C warming scenario.

## Tundra area loss

Region	Global temperature increase		
	1.5 °C	2 °C	3 °C
Alps	-36%	-50%	-75%
Scandes	-50%	-61%	-87%
Pyrenees	-74%	-91%	-99%

**98%**  
of Europe's alpine  
tundra domain is in  
the Pyrenees, the Alps  
and the Scandes.

The domain is projected  
to shrink by  
**84%**  
across Europe in a  
3 °C warming scenario.

The projected changes affect vital ecosystem services, such as the provision and regulation of freshwater from melting snow. They also diminish valuable habitats, biodiversity, and recreational uses such as skiing.