

SILMAS: Model ecosystem

Target groups

Scientists

Area of application

The model ecosystem is applicable for small mesotrophic and eutrophic sub-alpine lakes; Two models were built. One model was formulated for single layer and spatially homogeneous conditions. It was applied at the Lake Viverone. Another model was formulated for lakes with two vertical layers (one above the thermocline and one below). This model was also applied at the Lake Viverone. The effects of climate change were estimated using the two layer model. Both model were applied to other lakes: Lake Avigliana Grande, Lake Sirio, Lake Levico, Lake Caldonazzo, Lake Annecy, Lake Woerthersee.

Time frame

Data were analysed from different timelines, determined by data availability and different for each lake, mainly data from between 2000 and 2010 were used

Keywords

Ecosystem model, Alpine lakes

Accessibility

open access; data are part (chapter) of a project report

Transferability and re-usability

Model ecosystem for small mesotrophic and eutrophic sub-alpine lakes: transferable to these types of lakes.

Sector policies addressed

Fishing, recreation and tourism, navigation,

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