



OWN TOPIC

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TUM matriculation nr : 03799460.....

Topic title : Cartographic Communication of Climate Change:
Perception, Design, and Evaluation for the Atlas of Switzerland



Own topic - intended supervisor: Andreas Neumann and Luca Gaia (Atlas of Switzerland), Georg Gartner (TU Vienna)

This thesis explores how climate-change-related transformations can be effectively communicated through cartographic visualization, with a focus on the Atlas of Switzerland. Building on the study *“Climate Change Visualisations for the Atlas of Switzerland”*, the thesis examines existing climate-change maps/visualisations from a communication and perception perspective.

The aim is to investigate how such visualizations are perceived and understood by users, particularly with regard to long-term change, uncertainty, and temporal dynamics. Based on a review of relevant literature in climate communication, narrative cartography, and uncertainty visualization, a limited user study of selected existing visualizations will be conducted. The findings will inform the design of a prototype visualization that conceptually and visually extends the existing approaches, which, depending on the feasibility of the timeframe, can be validated through expert interviews or a small follow up user study.