

## Research related to seasonal snow cover in the Arctic Climate Change Project as one of GRENE programs

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The Arctic Climate Change Project as one of Green Network of Excellence (GRENE) programs in collaboration with various research communities has started since 2011.

Seasonal snow cover will be significantly affected by climate change, and changes in seasonal snow cover can affect climate through various feedback mechanisms. Towards a better understanding of the role of seasonal snow cover in the Arctic, research related to seasonal snow cover is mainly dealt with in a research theme entitled "Role of snow, glacier and ice sheet in the Arctic under global warming" to contribute to GRENE goals such as 1) Elucidation of Polar Amplification mechanism on warming in the Arctic region, and 2) Elucidation of role of the Arctic region in global climate change and its prediction. This presentation will describe the outline and progress of the plan.

Keywords: seasonal snow cover, the Arctic, climate change