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# Snow in ECHAM5 GCM and European Centre reanalysis

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- SNOW-CLIM project
  - The objective of the project is to develop a methodology to combine multisource information for large scale mapping of snow characteristics in boreal and sub-arctic zones.
  - Validation of snow conditions in climate model simulations
- Snow in ECHAM5 model
- Comparison of ECHAM5 snow and European Centre re-analysis (ERA-40/Interim) snow
- Northern Eurasia



# Data:

- ECHAM5:
  - 3 simulations forced by observed sea surface temperatures and sea ice, 1979-2006
  - 3 ECHAM5-MPI-OM simulations: ocean model, observed anthropogenic forcings 1979-2000, scenario A1B 2001-2006
- European centre re-analysis:
  - ERA-40: 1979-1988
  - ERA-Interim: 1989-2005
- Snow water equivalent, day of snowmelt



- What is causing the differences between these data?  
(forcing, ocean model...)
- What can we say about model performance?