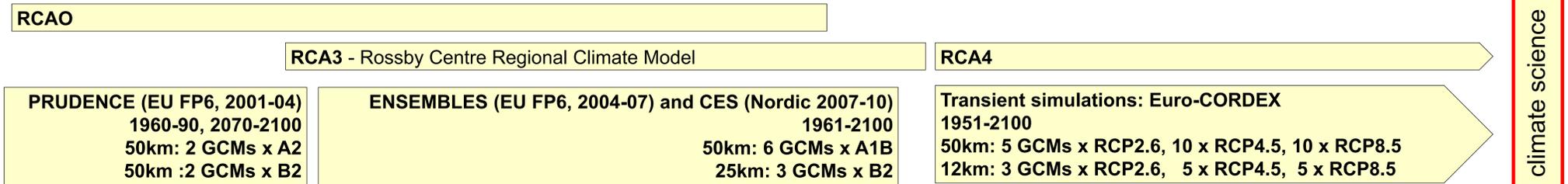
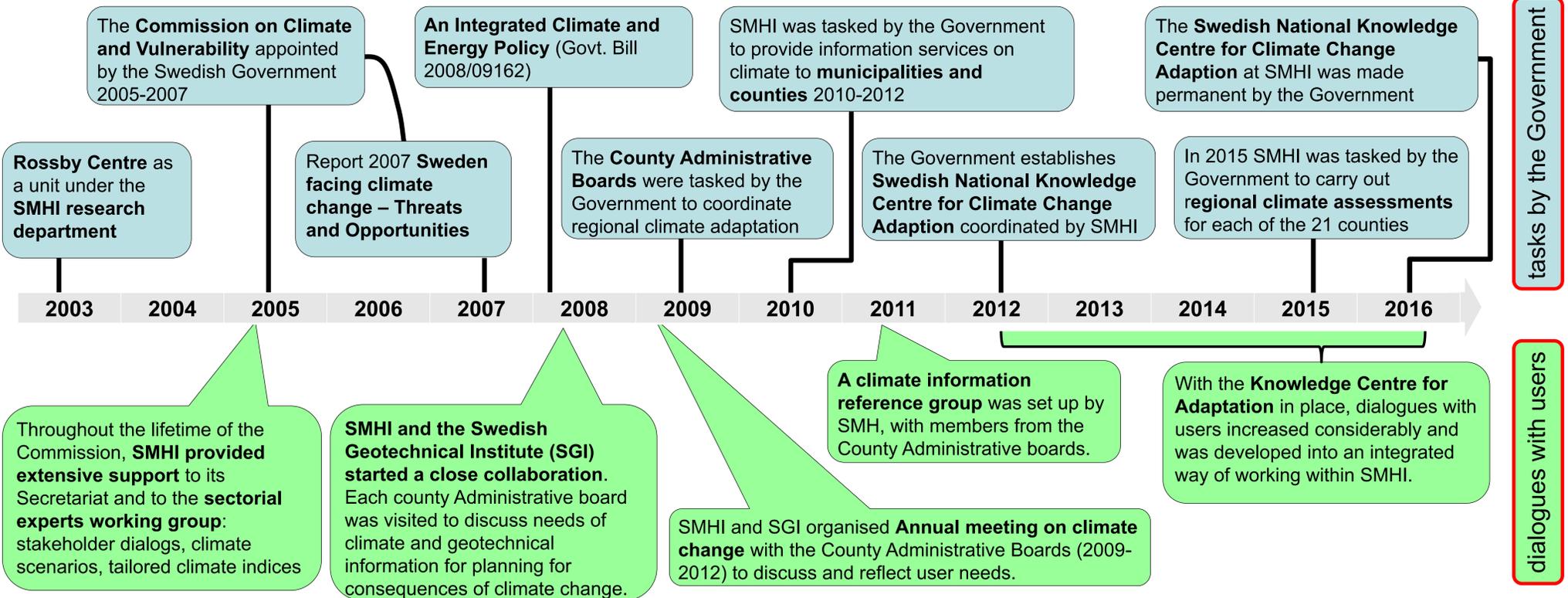


SMHI (Swedish Meteorological and Hydrological Institute; www.smhi.se) is a government agency under the Swedish Ministry of Environment and Energy, running both governmental services and commercial businesses. SMHI is providing decision support to a broad range of end-users, based on meteorology, hydrology, oceanography and climate information. On behalf of the government SMHI runs the **Swedish National Knowledge Centre for Climate Change Adaptation**.

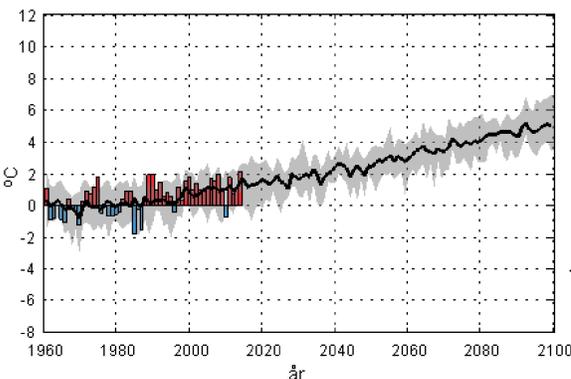
The **Swedish National Knowledge Centre for Climate Change Adaptation** links science, policy and practice by bringing together decision-makers, research organisations, businesses and organisations with interest in climate change adaptation. The Centre is also responsible for operating the **Swedish Web Portal for Climate Change Adaptation** (www.klimatanpassning.se)

The **Rosby Centre** is a climate research unit within the research department at **SMHI**, focusing on climate processes, the behavior of the climate system and on increasing knowledge of the future climate. The **Rosby Centre** is a leading regional modelling centre and operates both regional (RCA and HARMONIE-Climate) and global (EC-EARTH) climate models, contributing to CORDEX and CMIP5/CMIP6.

Developing Swedish Climate Services

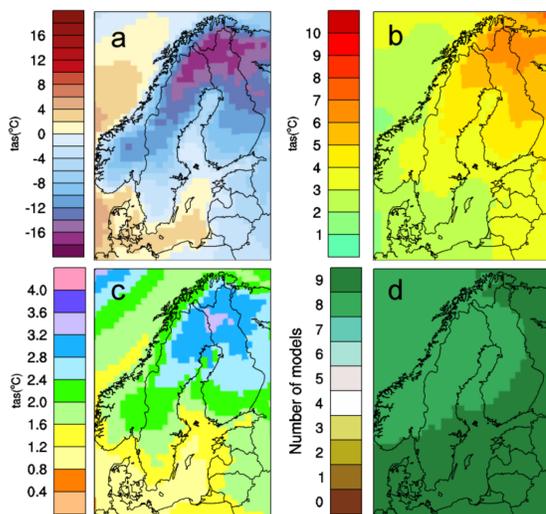


SMHI climate scenarios web service

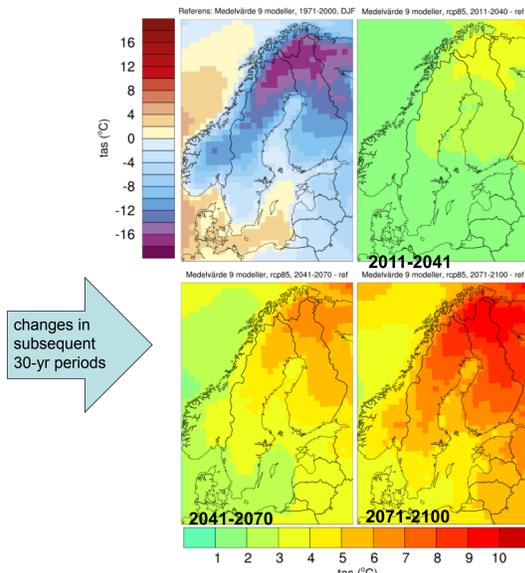


Anomalies in annual mean temperature over the Stockholm County. The blue and red bars are the SMHI observations while the black line (ensemble mean) and grey field (max/min from any ensemble member) are taken from the RCA4 ensemble (RCP8.5).

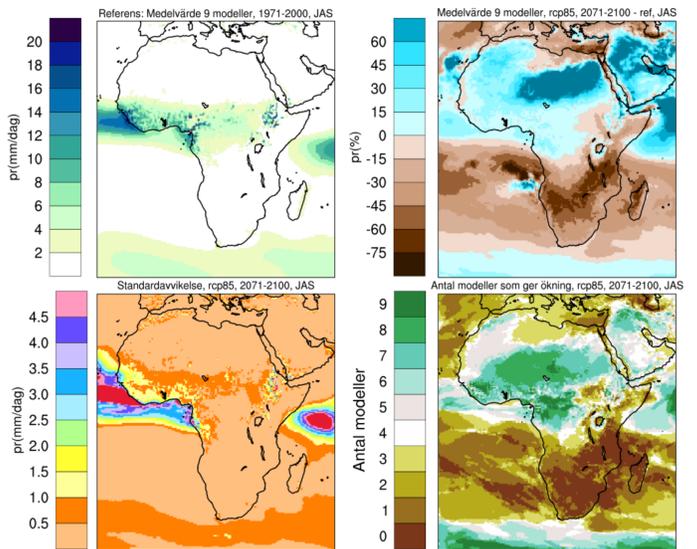
All SMHI-RCA4 regional simulations are available through ESGF



Simulated winter (DJF) 2m temperature for the RCA4 9 member ensemble mean: a) reference period 1971-2000, b) simulated change (2071-2100), c) spread across the 9 members and d) how many members agree on an increase in 2m temperature.



changes in subsequent 30-yr periods



Simulated July-September rainfall for the RCA4 9 member ensemble mean: a) reference period 1971-2000, b) simulated change (2071-2100), c) spread across the 9 members and d) how many members agree on an increase in JAS rainfall.

See for more details: Kjellström E., Bärring L., Nikulin G., Nilsson C., Persson G., Strandberg G., 2016: Production and use of regional climate model projections – A Swedish perspective on building climate services. *Climate Services*, Online 27 June 2016, ISSN 2405-8807, <http://dx.doi.org/10.1016/j.cliser.2016.06.004>.