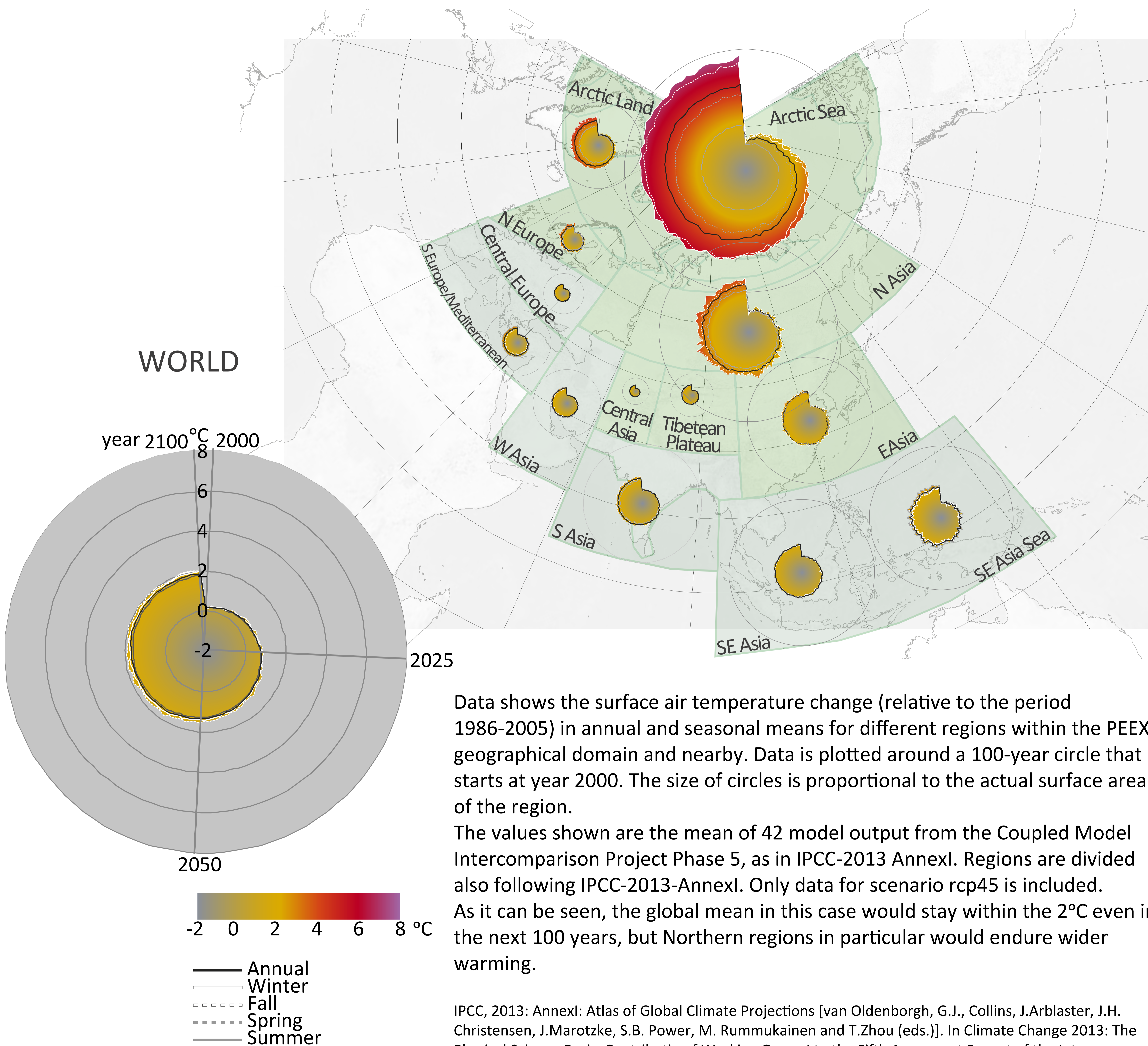


DIFFERENTIAL WARMING BY REGIONS, an example.

©PEEX. Author: Nuria Altimir



Data shows the surface air temperature change (relative to the period 1986-2005) in annual and seasonal means for different regions within the PEEEX geographical domain and nearby. Data is plotted around a 100-year circle that starts at year 2000. The size of circles is proportional to the actual surface area of the region.

The values shown are the mean of 42 model output from the Coupled Model Intercomparison Project Phase 5, as in IPCC-2013 AnnexI. Regions are divided also following IPCC-2013-AnnexI. Only data for scenario rcp45 is included. As it can be seen, the global mean in this case would stay within the 2°C even in the next 100 years, but Northern regions in particular would endure wider warming.

IPCC, 2013: AnnexI: Atlas of Global Climate Projections [van Oldenborgh, G.J., Collins, J.Arblaster, J.H. Christensen, J.Marotzke, S.B. Power, M. Rummukainen and T.Zhou (eds.)]. In Climate Change 2013: The Physical Science Basis. Contributio of Working Group I to the Fifth Assesment Report of the Intergovernmental Panel on Climate Change [Stocker, T.F., Qin, G.-K. Plattner, M.Tignor, S.K.Allen, J. Boschng, A.Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press.

At the coming PEEEX workshop in November we will discuss how to better constrain predictions of global climate change specifically for the PEEEX area.