

Wednesday 11 November 2015
Kl. 6.00 p.m. – 7.00 p.m.
Kungl. Vetenskapsakademien
Lilla Frescativägen 4A, Stockholm



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THE ROYAL SWEDISH ACADEMY OF SCIENCES

Climate change, ocean warming, land ice melt and sea level rise

Open Academy Lecture by Prof Anny Cazenave

Host: The Academy's class for geosciences



Foto: Alan Vernon

Abstract

Among the consequences of current climate change, increase of the ocean heat content, melting of glaciers, ice mass loss from the Greenland and Antarctica ice sheets and sea level rise are the most visible. In this presentation, we summarize the most up-to-date knowledge about ocean warming, land ice melt and sea level rise. We discuss how different global observing systems, available since 1-2 decades, in particular from space, inform us about these evolving processes. We also present sea level projections for the 21st century under different warming scenarios, highlighting the regional variability that superimposes the global mean rise.

Anny Cazenave is senior scientist at LEGOS (Toulouse) and director for Earth sciences at ISSI (Bern). Research interests: space research applied to Earth sciences and climate. Lead author of IPCC 4th and 5th assessment reports. Fellow of the AGU and AAAS. Member of the French Academy of sciences. Foreign member of the National Academy of Sciences (USA), Indian Academy of sciences and Royal Academy of Belgium.

The lecture is free of charge and open to the public. Registration is not needed. For more information please visit <http://kva.se/cazenave>

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