



Space and Climate

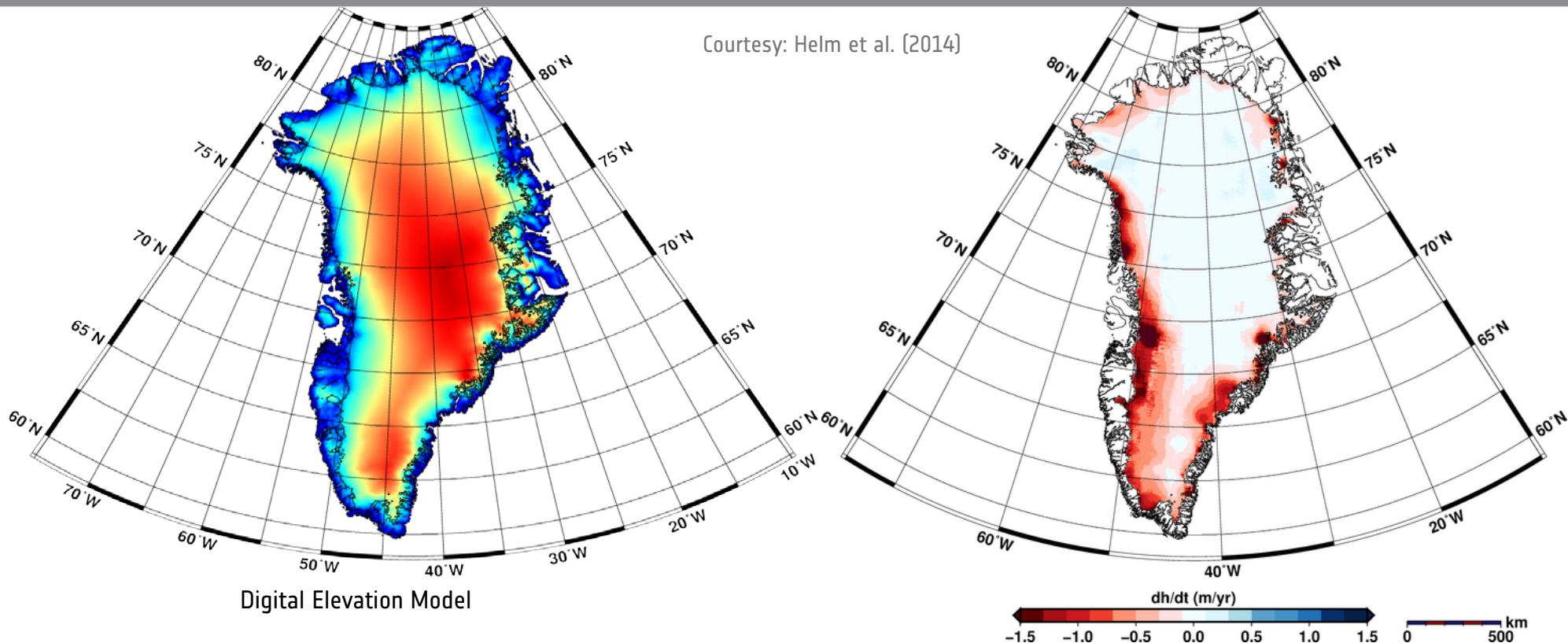
Round Table Climate Change

Le Bourget, 17 June 2015

Prof. Volker Liebig, ESA

Director of Earth Observation Programmes

CryoSat: Yearly Ice Loss in Greenland



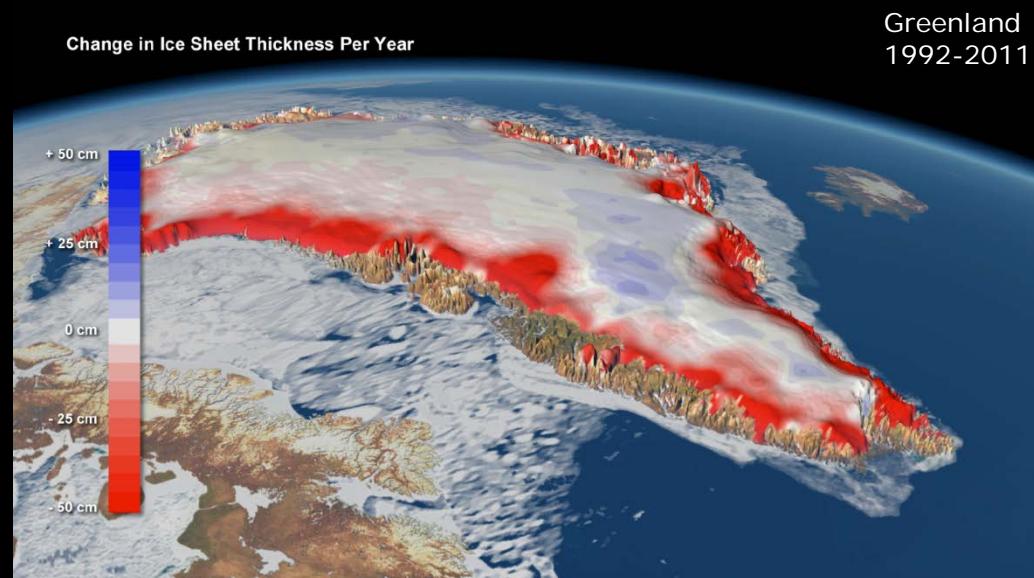
2003-2008	2011-2012
IMBIE	CryoSat
-189±20 km³/yr	-352±29 km³/yr

Ice Sheet Mass Balance Inter-Comparison Exercise (IMBIE)



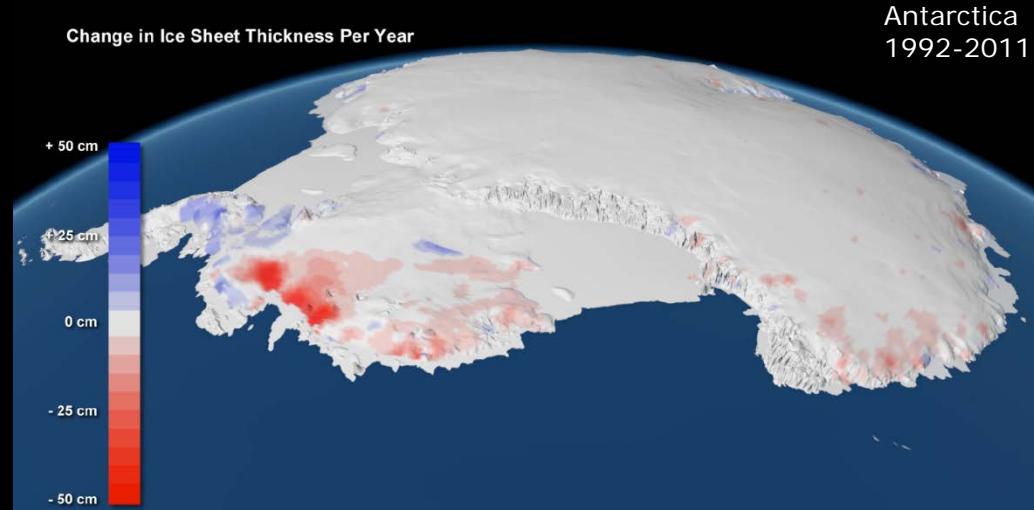
General Features:

- 54 years of data, 47 scientists
- 10 satellites
- cooperation with NASA

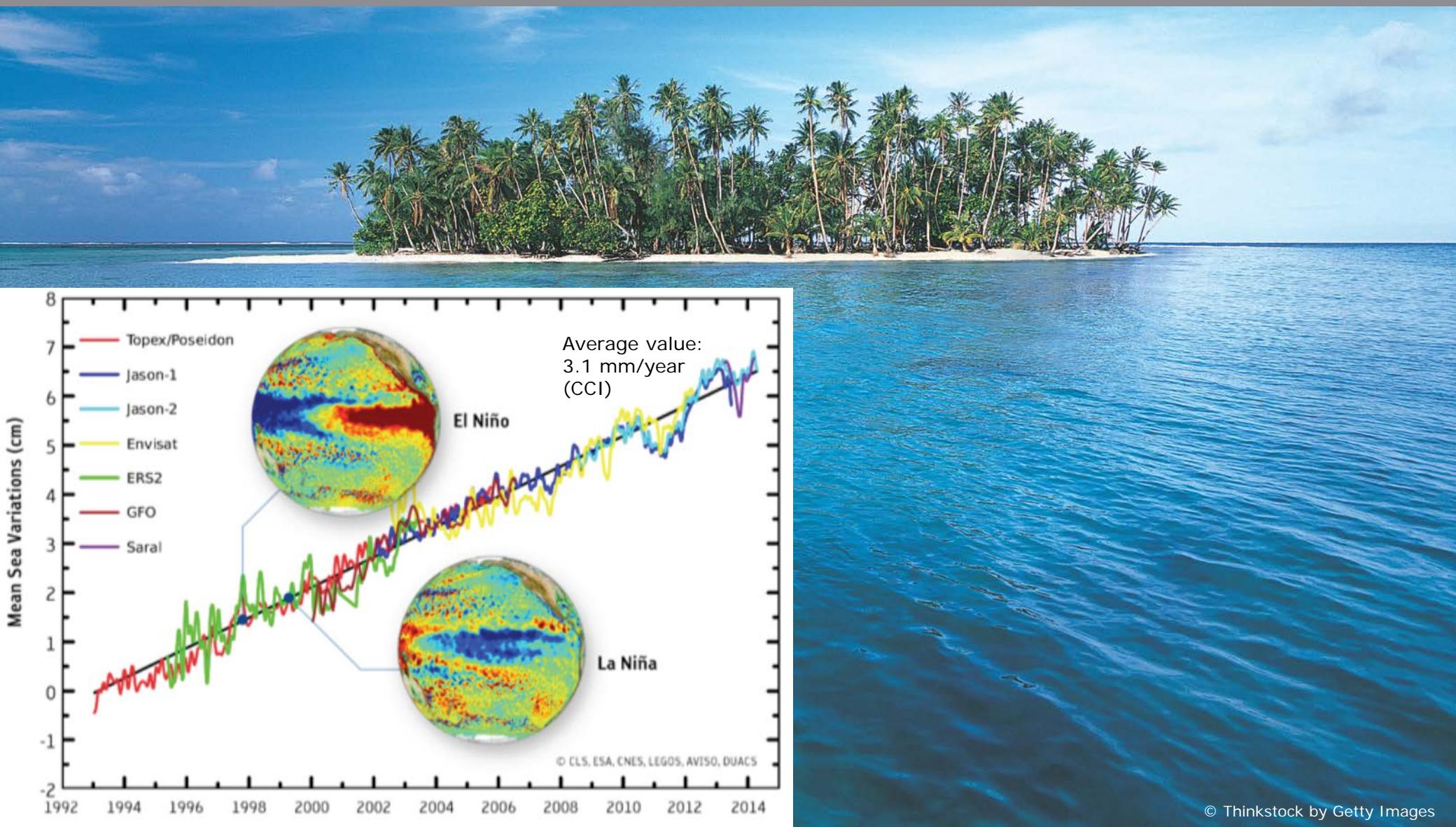


Results:

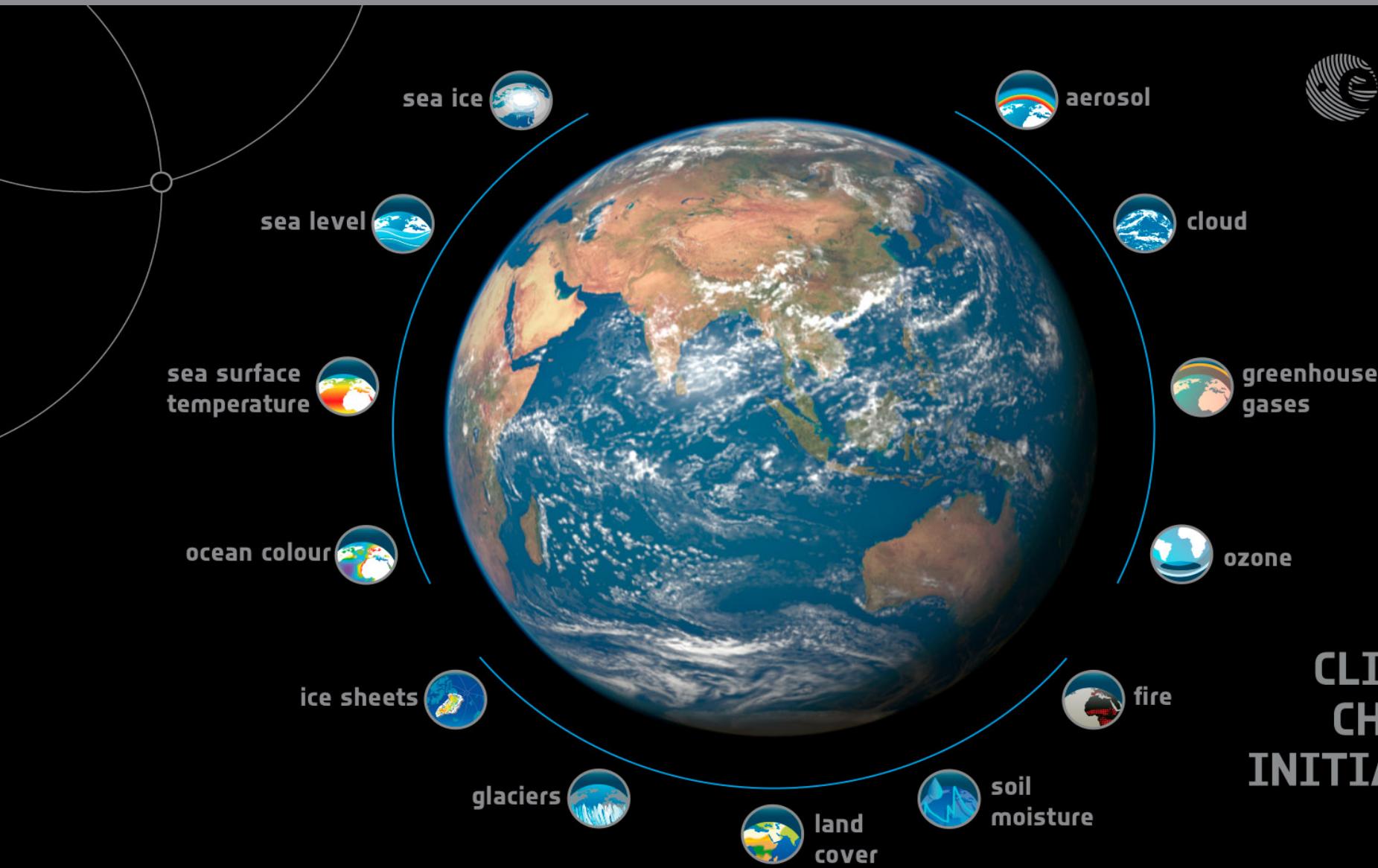
- 11 ± 3.8 mm sea level rise from melting ice since 1992
- Antarctic ice loss 3 times higher than in the 90s



Rising Sea Levels



CCI: Essential Climate Variables



**CLIMATE
CHANGE
INITIATIVE**

CREDITS

