Ice sheets and ice cores

* Cast of thousands
Sridhar Anandakrishnan
Sealevel impacts
IPCC AR4 scenario A2 mean warming in 2090-99 vs. 1980-99

Where all the children get above-average warming.
New Orleans, before and after Hurricane Katrina.

Images Terra, NASA/JPL
Photo: A Huerta
Changes in Greenhouse Gases (cores and modern)

Source: IPCC 2007
Changes in Temperature, Sea Level and Northern Hemisphere Snow Cover

(a) Global average temperature

(b) Global average sea level

(c) Northern Hemisphere snow cover

Source: IPCC 2007
Multi-model Averages and Assessed Ranges for Surface Warming

Source: IPCC 2007
Case in point: Jakobshavn Glacier speedup from ice shelf collapse

Joughin et al., 2005
Joughin et al., 2005
Speedup of glaciers feeding Larsen B after distintegration of the ice shelf.

De Angelis and Skvarca, 2003
…the waters around you have grown
And accept it that soon
You'll be drenched to the bone…
For the times they are a-changin'.

—Bob Dylan