

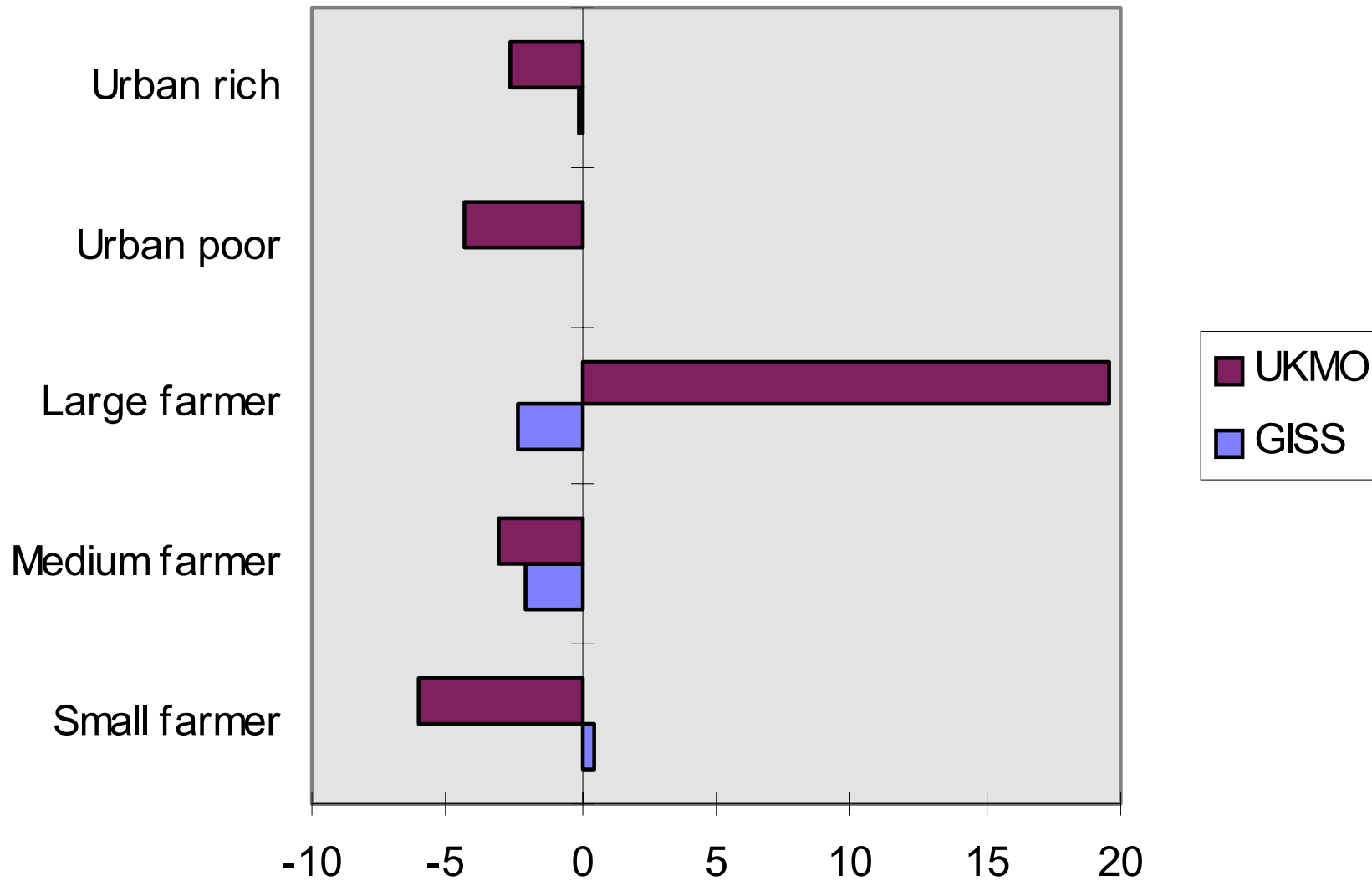
# **Stones in the Greenhouse?**

Global and Regional Conflicts  
Over Climate Change

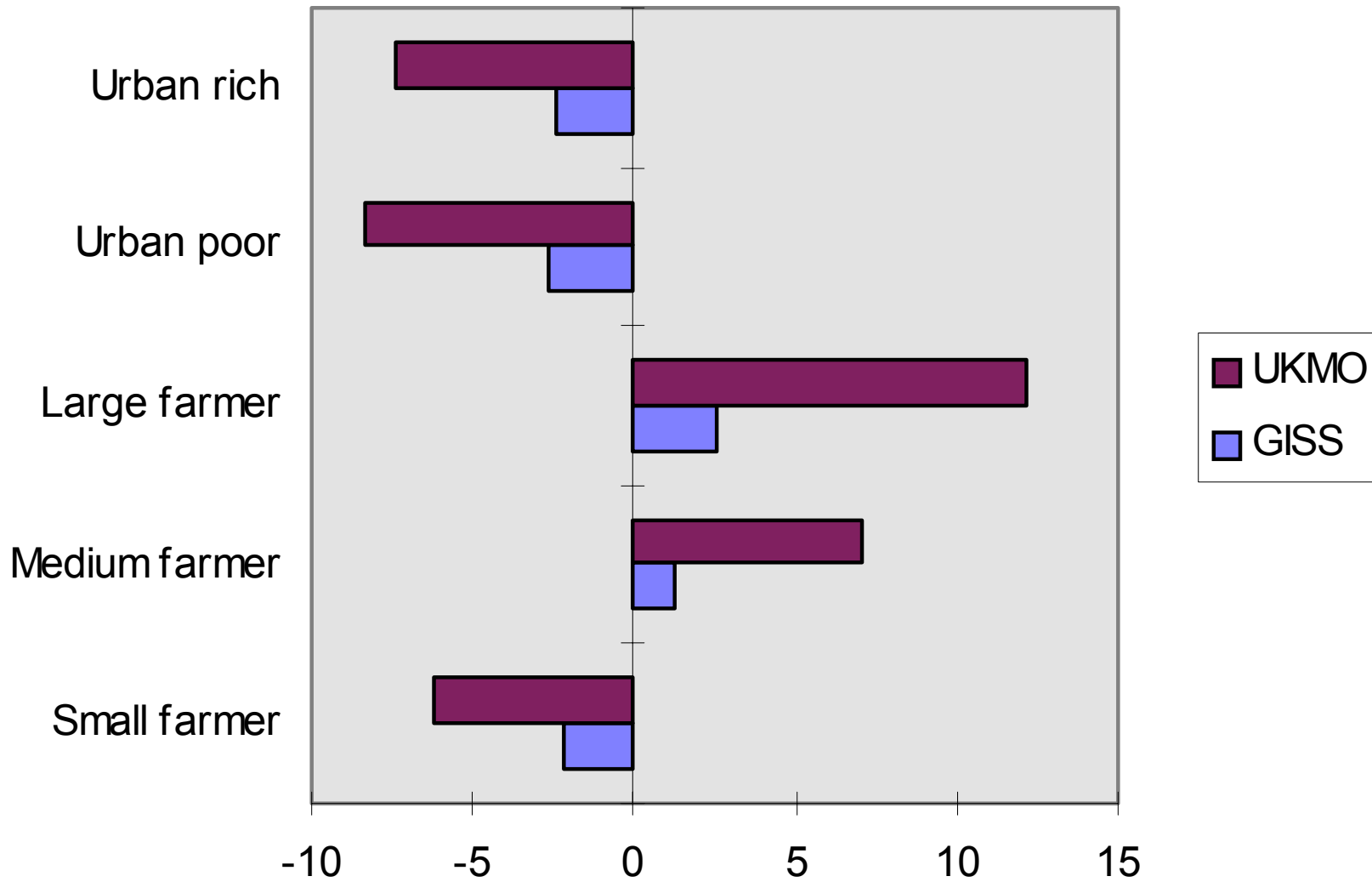
Hugh Miall  
University of Kent



## Asia: Change in real income (%)



## Lat Am: Change in real income (%)





## Africa: Change in real income (%)

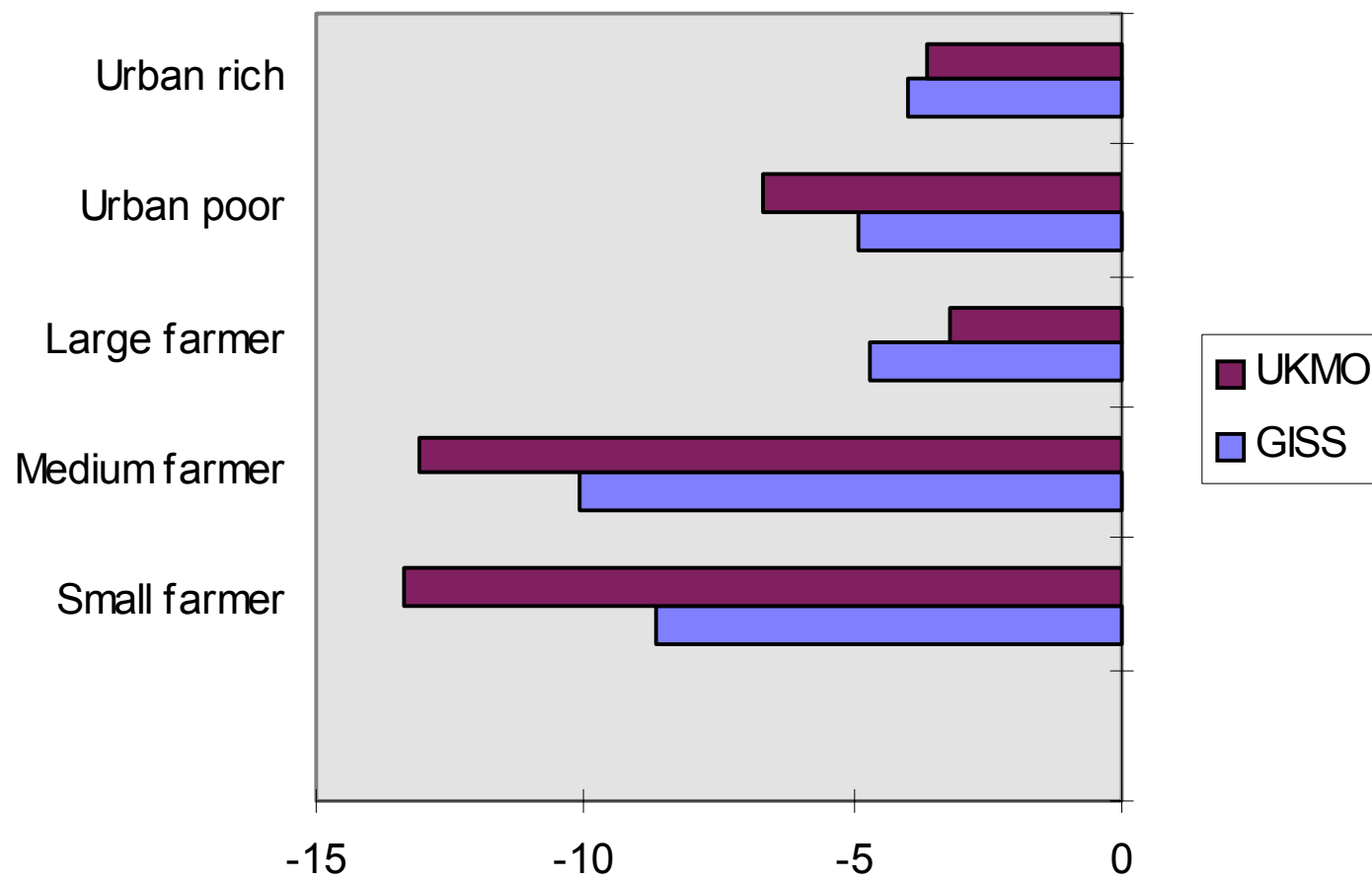
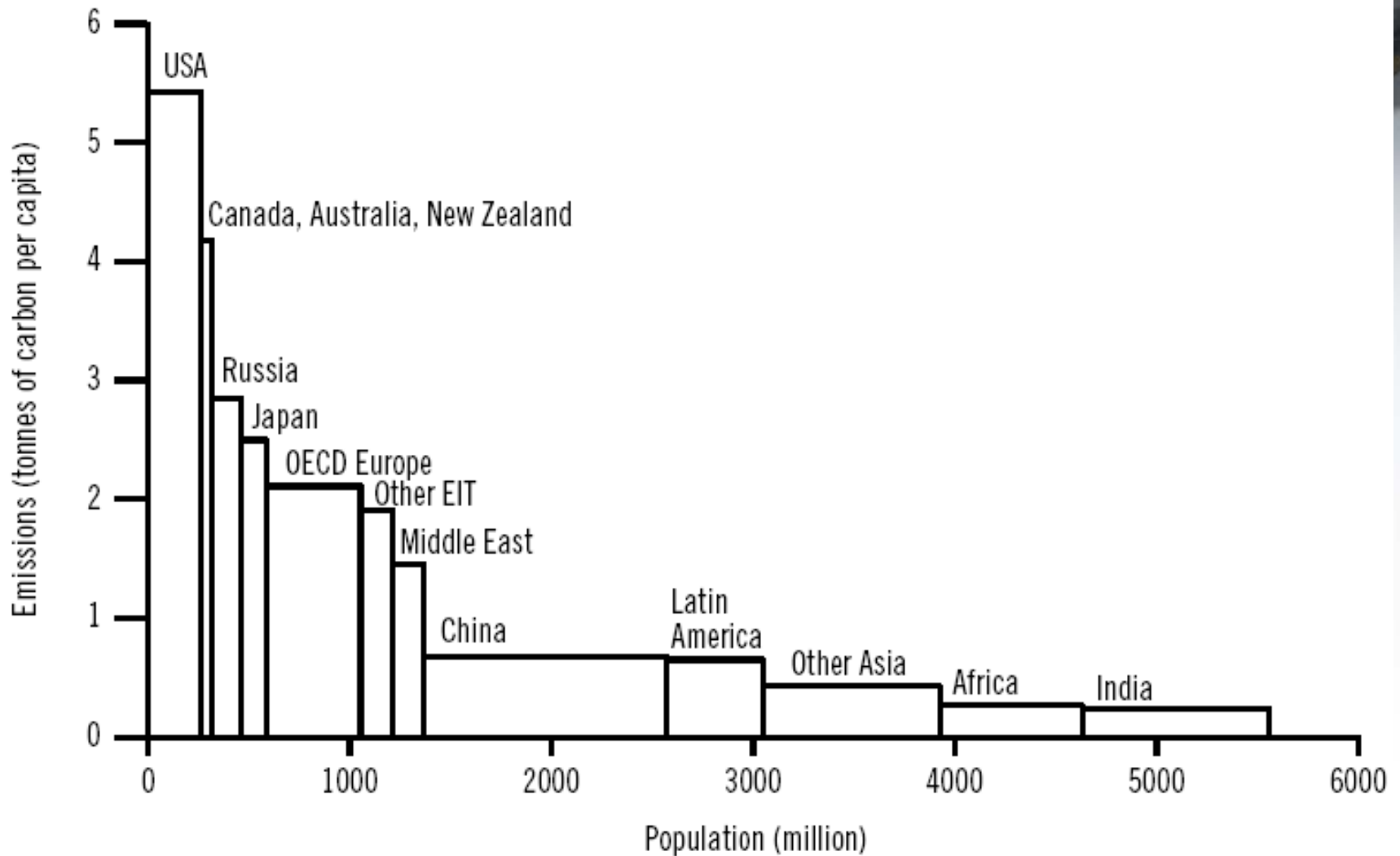
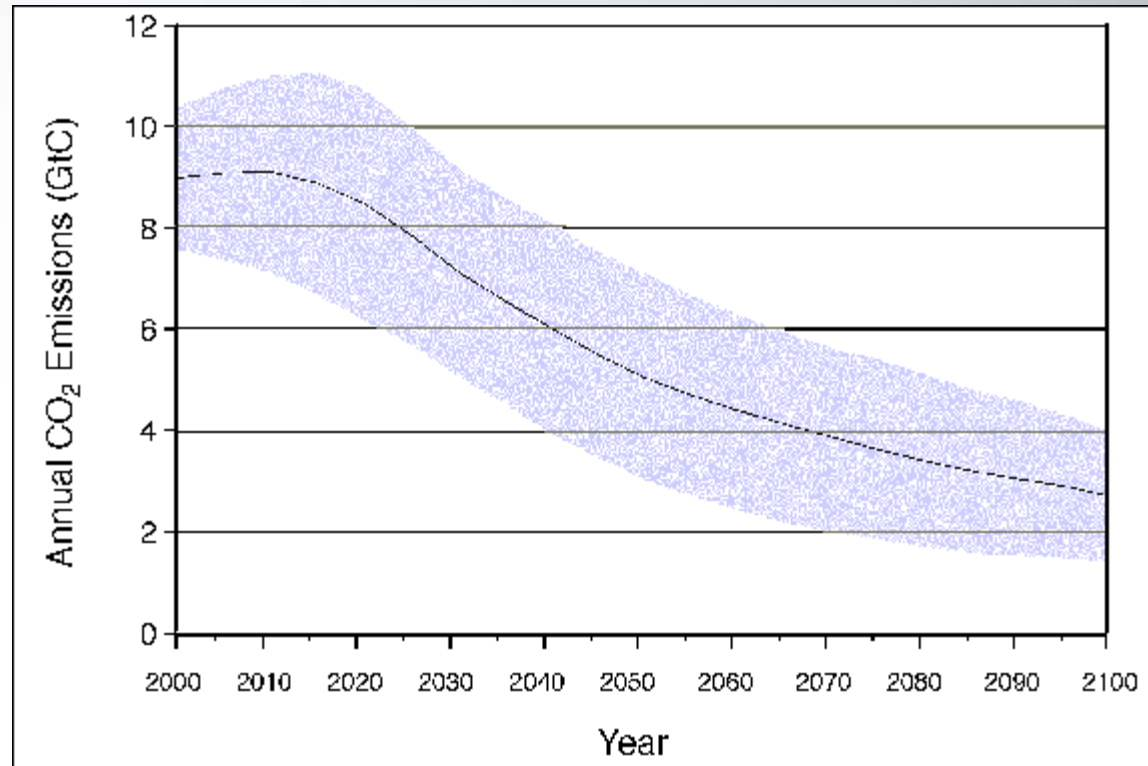


Figure 8.1. CO2 emissions per capita and Population, in 2000.



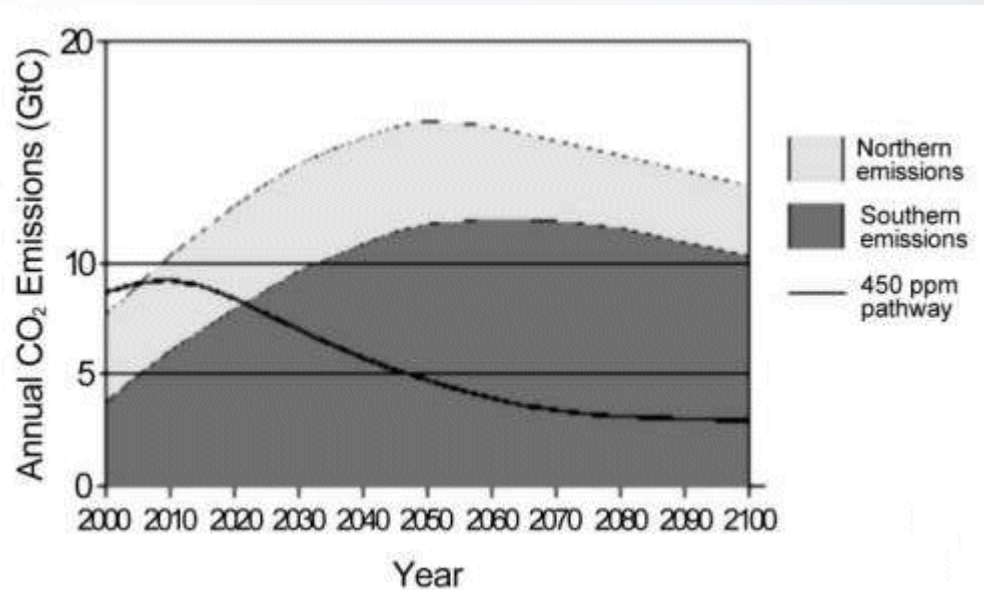
Source: Grubb, 2003

# A 'soft landing' corridor



Keeps CO<sub>2</sub> within 450 ppm to limit global temperature rise to 2 °C

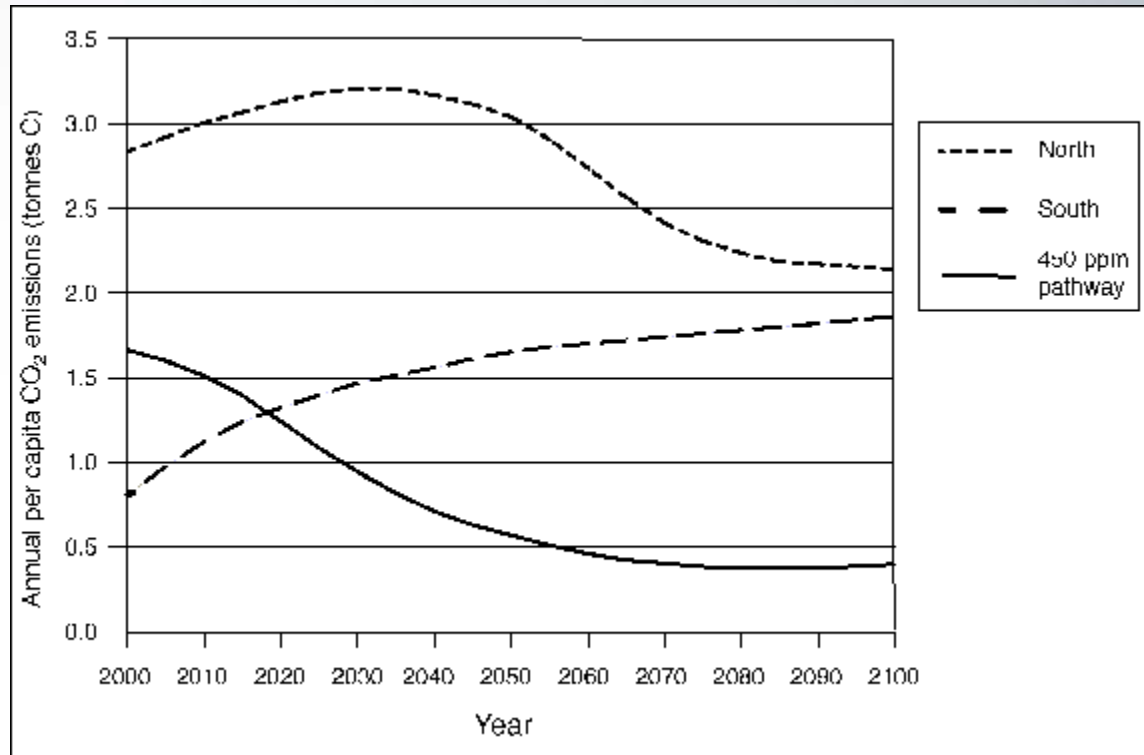
# Annual CO<sub>2</sub> emissions by North and South in the IPCC's A1 scenario, and the 450 ppm Carbon Stabilisation Pathway



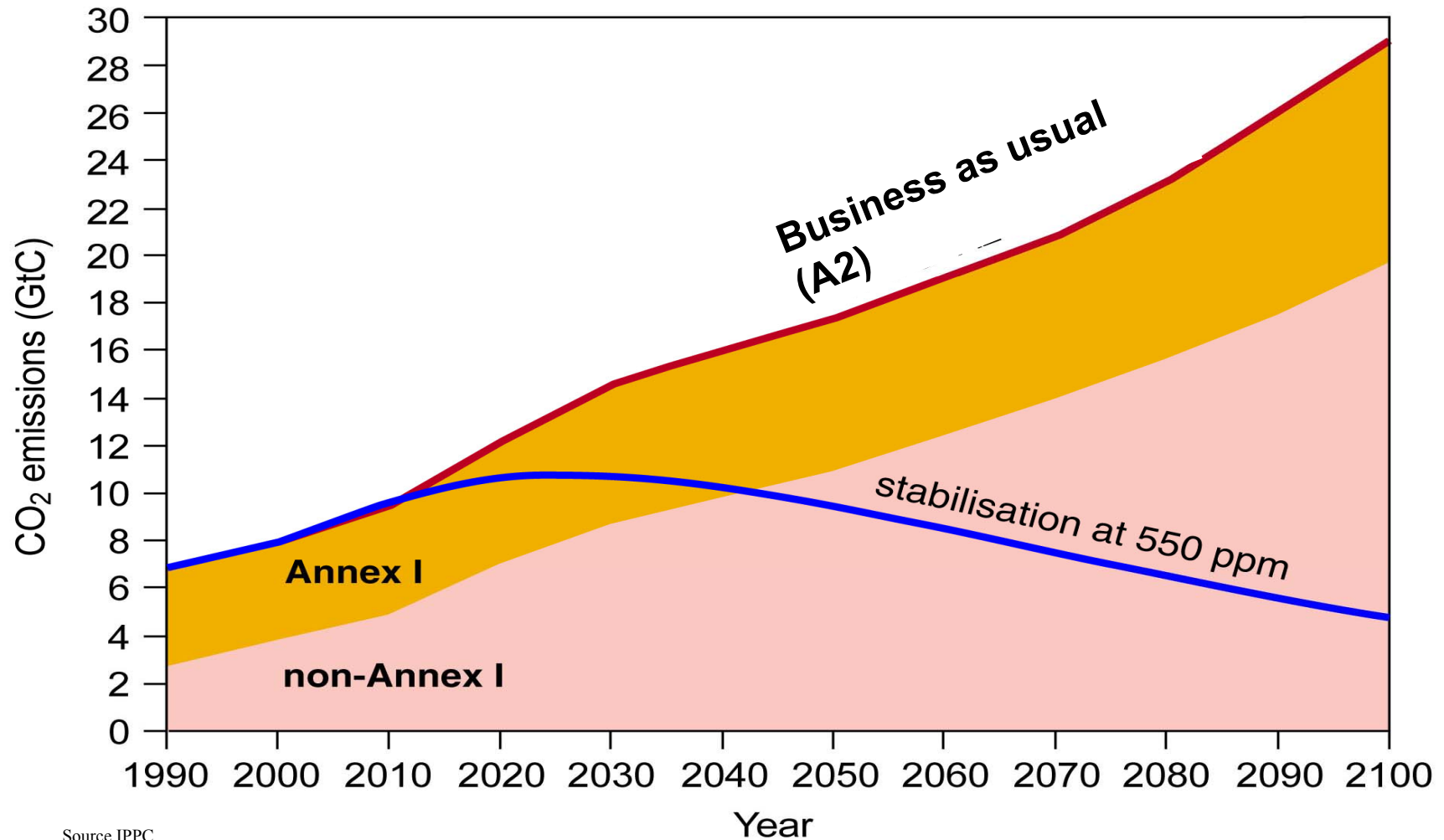
Source: Athanasiou and Baer (2002)

# Per capita emissions North and South

in IPCC 'balanced' scenario compared with soft landing



# Stabilisation at below 550 ppm: Stern Report data



# Estimates of global damage arising from climate change



CO <sub>2</sub> conc. (ppm )	Carbon emissions GtC	Global temp rise (°C)	Damage (% Gross World Product)
450	365-735	1.7	0.27
550	590-1135	2.5	1.01
650	735-1370	3.1	1.91
750	820-1500	3.6	2.87
1000	905-1620	4.6	5.38

# Efforts to meet carbon abatement targets by region in 2025, expressed as a percentage of GDP.



	CO <sub>2</sub> concentration			
	550 ppm. PCC 2100	550 ppm. MS	650 ppm. PCC 2100	650 ppm. MS
EU	0.89	1.81	0.11	0.27
US	0.18	3.04	0.00	0.38
Canada	1.88	3.35	0.41	0.62
CIS & E.Eur	1.41	4.69	0.07	0.57
Australia, NZ	1.10	2.65	0.23	0.46
Japan	0.99	1.78	0.11	0.25
Latin America	1.54	0.72	0.14	0.06
Africa	1.58	-2.12	0.02	-0.30
Middle East	2.58	2.38	0.45	0.38
India	0.89	-0.49	0.10	-0.22
Other S Asia	-1.23	-1.36	-0.57	-0.16
China	0.8	-1.79	0.16	-0.13
Other E Asia	1.99	1.27	0.36	-0.02

Source: Criqui et al 2003.