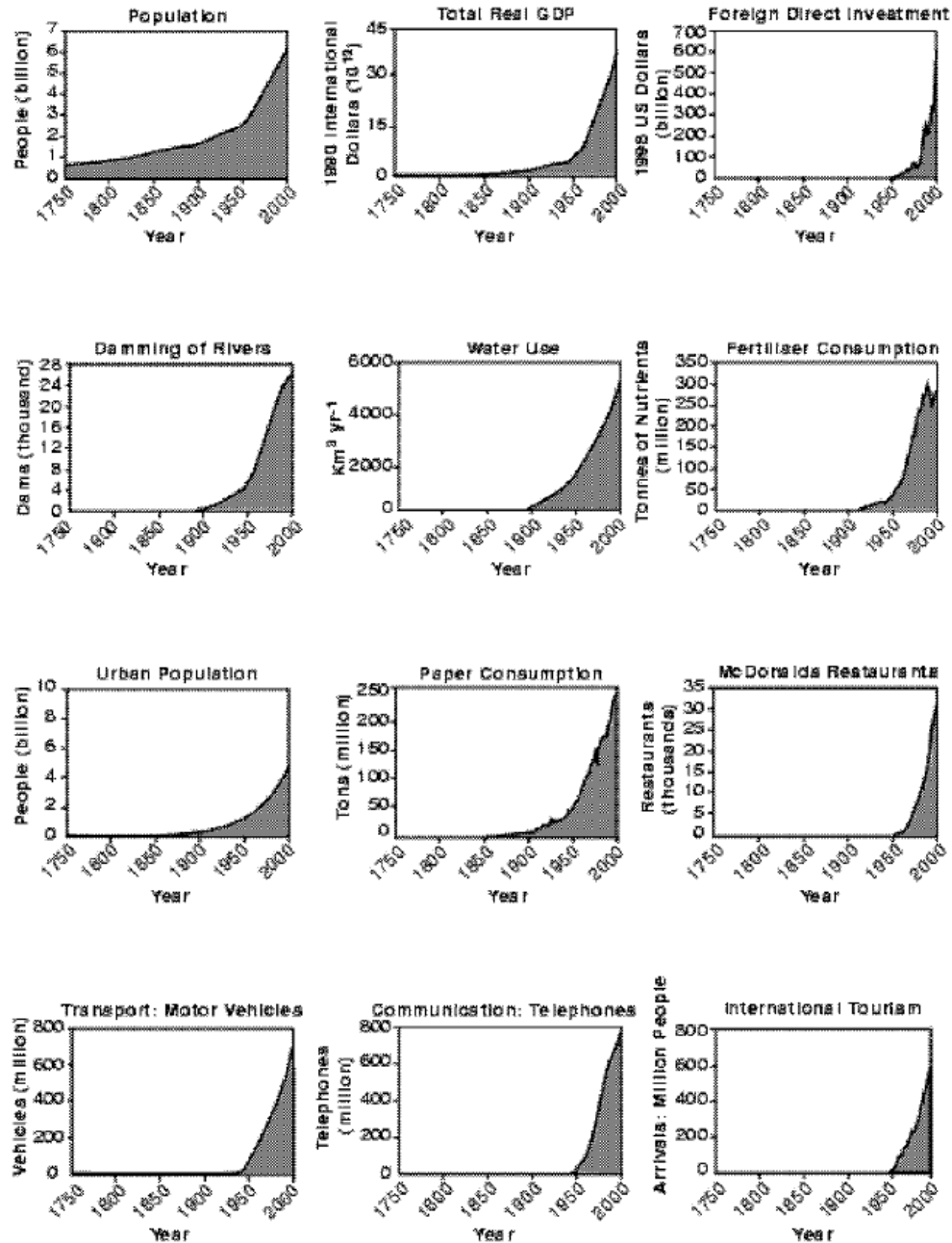


Energy Systems and Technology in the Past and Present: The social dimension



Changing Times: the

Anthropocene

(P. Crutzen)

Population, Total Real
GDP, Foreign Direct

Investment, Damming of

Rivers, Water Use,
Fertilizer Consumption,

Urban Population, Paper

Consumption, McDonalds

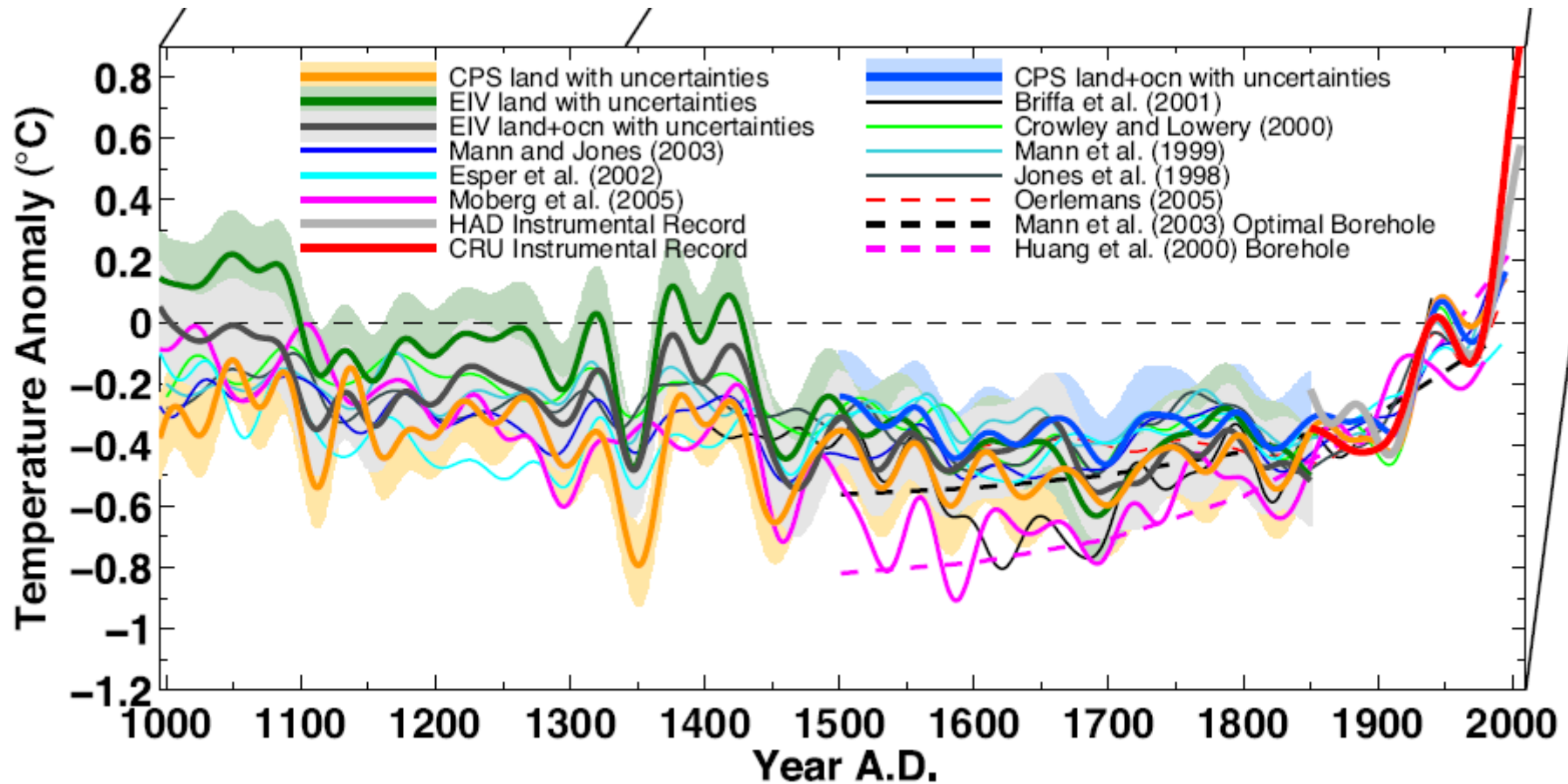
Restaurants, Motor

Vehicles, Telephones,

Tourism – 1950ies

onwards (Crutzen/Steffen 2003)

The current face of the Climate ,Hockey stick‘



Mann et al. 2008

Changing Times

Premodern and High Modern Times

„Anthropocene“ since 1950ies

Impression of gaining control

Impression of losing control

Capitalizing Nature

Capitalizing Pollution (e.g. Emission Certificate Trading)

Technological Systems as Tools to colonize Nature

Technological Systems interweaving with Man and Nature as hybrids

Main aims and purposes of progressive action are clearly distinguishable from side effects

Side effects and main functions of technical developments and planning are not clearly distinguishable

Changing Technologies, Changing Social Attitudes

‘Electricity’ has many faces now

→ Necessity of choice



Technologies to save the World

Who saves?

Who decides who knows how to save?

Who wants to be saved how?

global
young
faculty

facing climate change



www.facing-climate-change.org