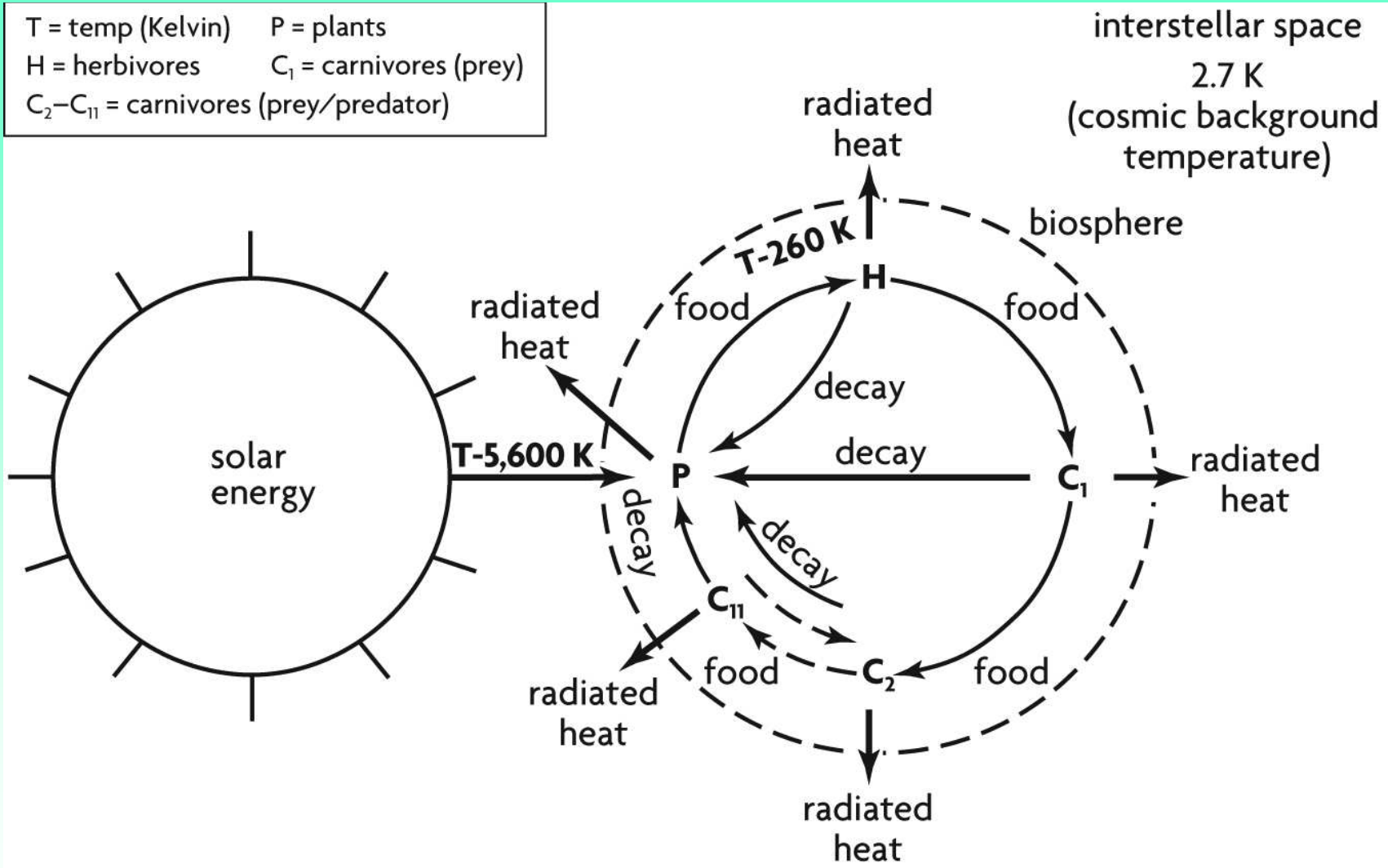




# IL PUNTO DI CAOS

T = temp (Kelvin)    P = plants  
 H = herbivores        C<sub>1</sub> = carnivores (prey)  
 C<sub>2</sub>-C<sub>n</sub> = carnivores (prey/predator)



# I due sistemi divergono progressivamente

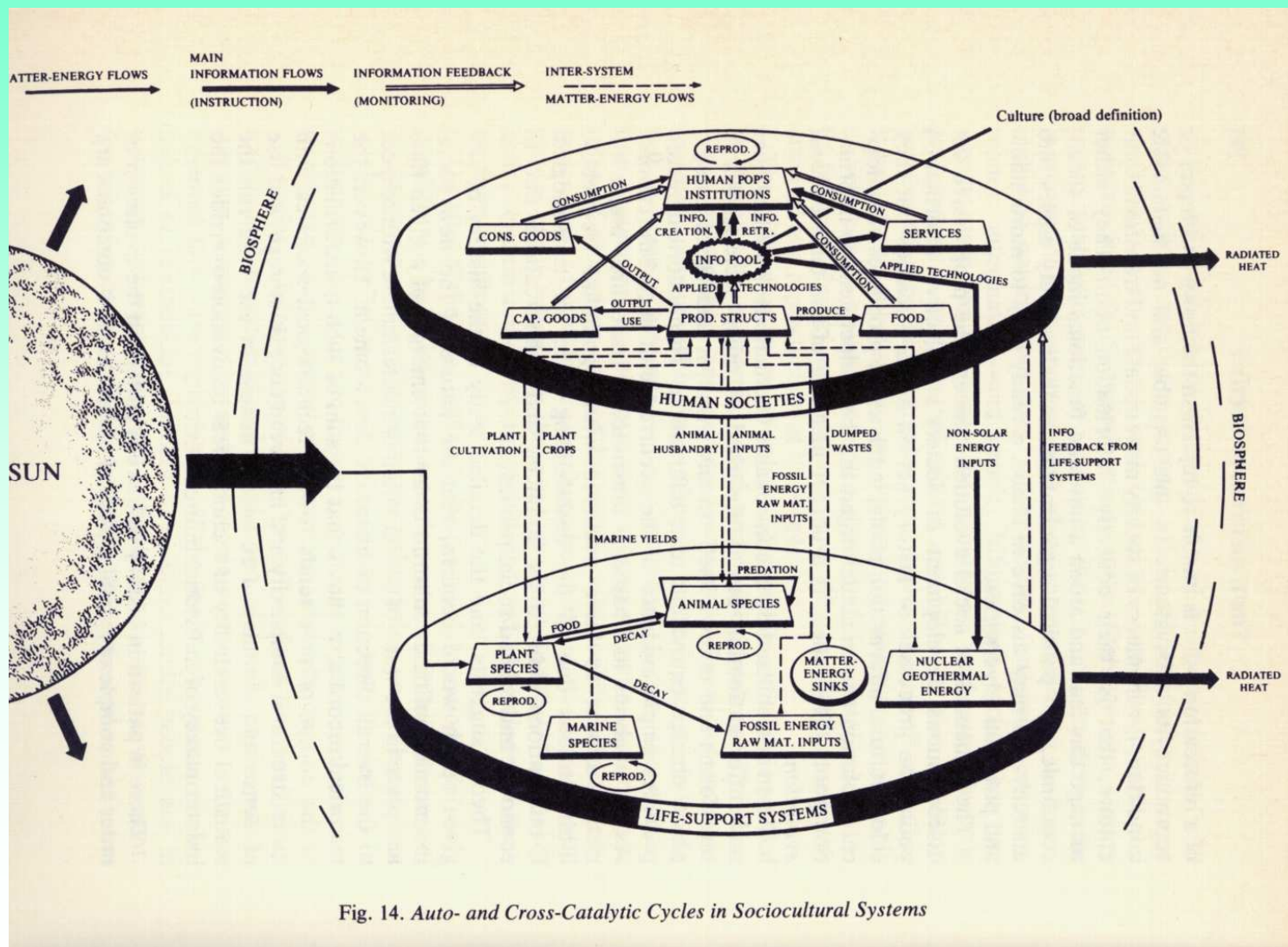
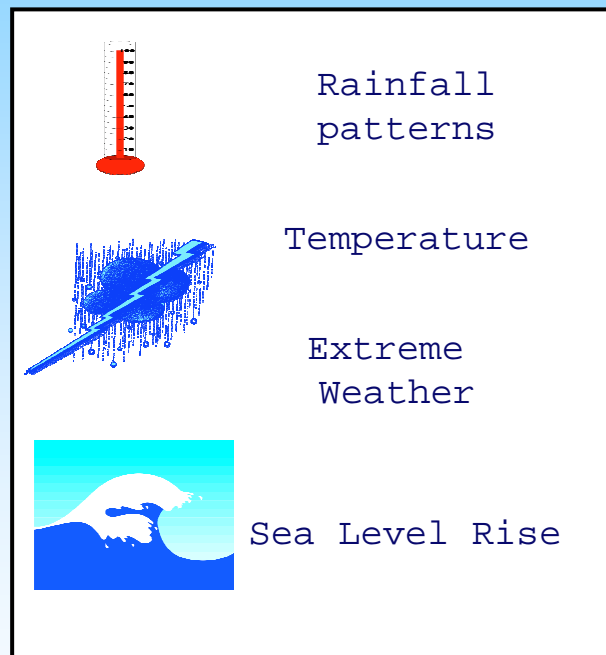
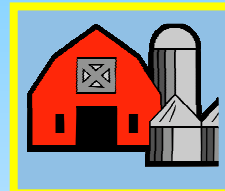


Fig. 14. Auto- and Cross-Catalytic Cycles in Sociocultural Systems

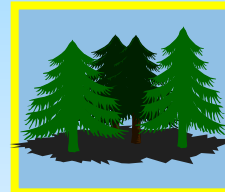
# Climate change: the range of impacts



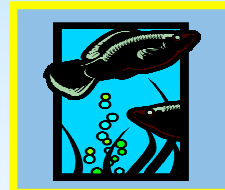
Health Impacts  
Weather-related mortality/heat stress  
Infectious diseases  
Air quality-induced respiratory effects



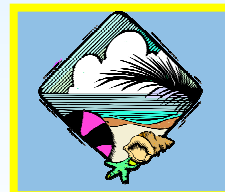
Agriculture Impacts  
Crop yields and commodity prices  
Irrigation demands  
Pests and weed



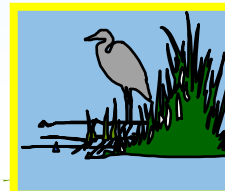
Forest Impacts  
Change in forest composition  
Shift geographic range of forests  
Forest health and productivity



Water Resource Impacts  
Changes in water supply and timing  
Water quality  
Increased competition for water



Coastal Area Impacts  
Erosion of beaches  
Inundation of coastal wetlands  
Costs to defend coastal communities



Ecosystem Impacts  
Shifts in ecological zones  
Loss of habitat and species  
Coral reefs threatened

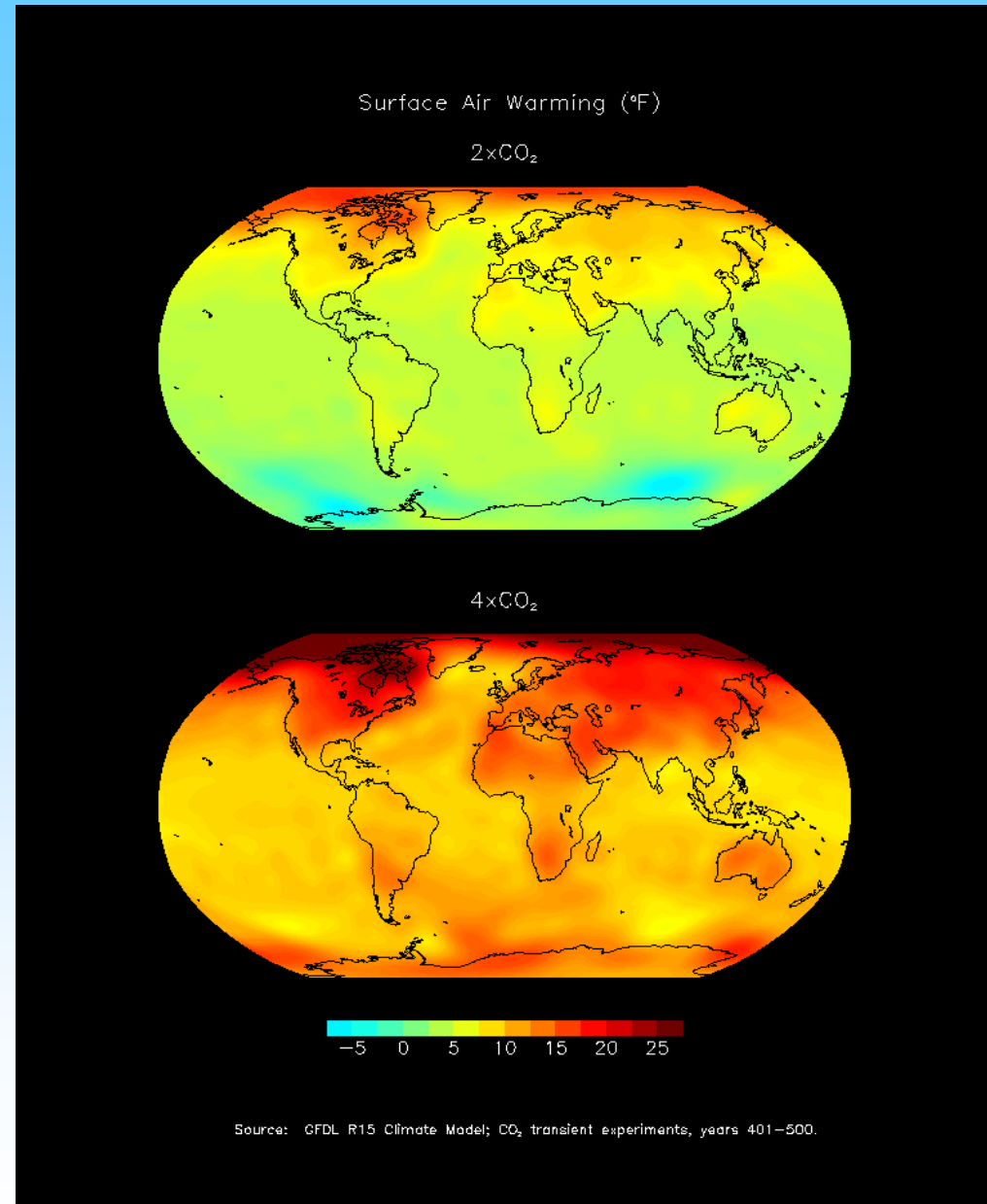
Computer simulations  
by the Princeton  
Geophysical Fluid  
Dynamics Lab.

Warming under a  
doubling of  $\text{CO}_2$  from  
the pre-industrial  
level

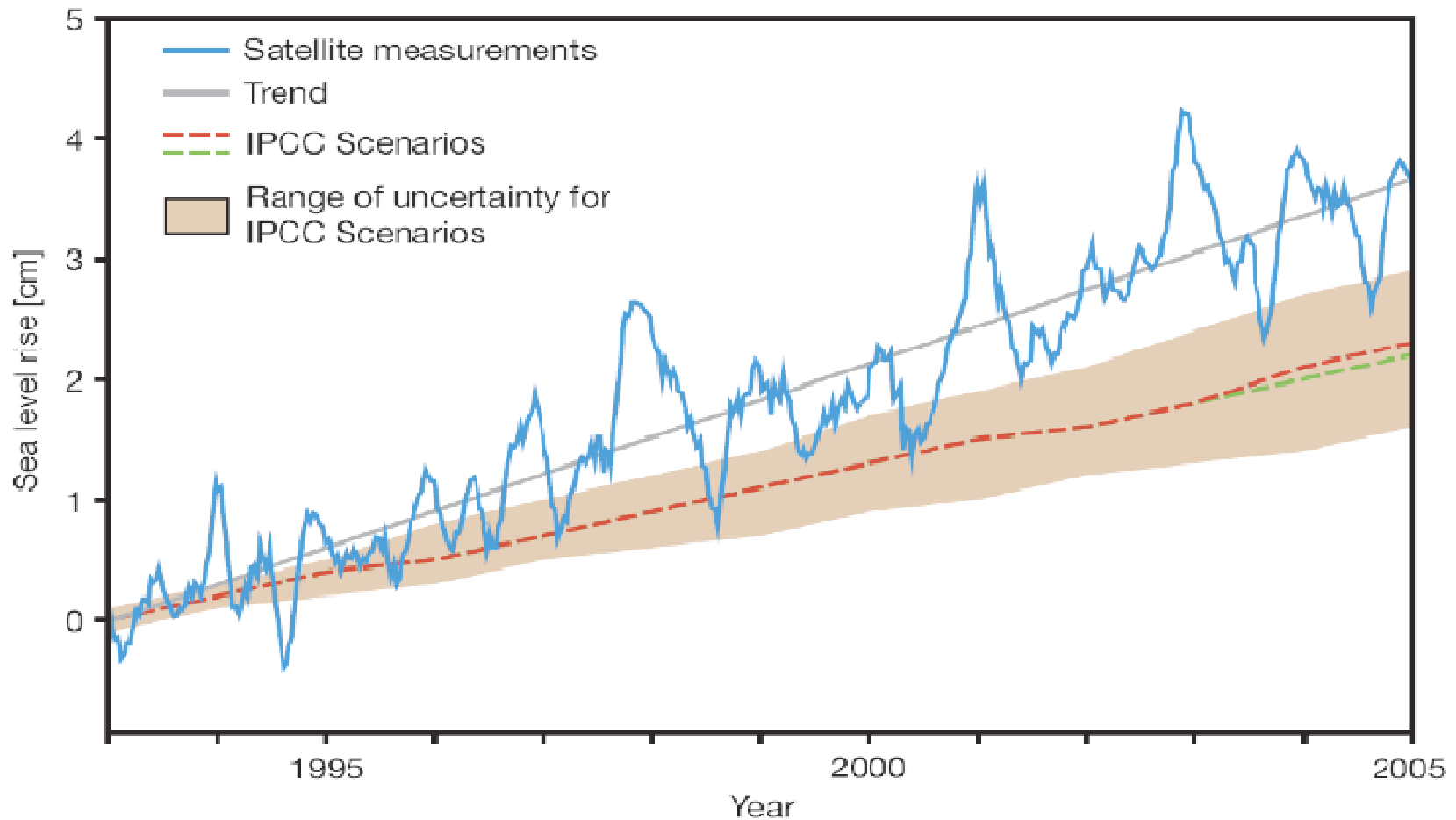
Warming under a  
quadrupling from pre-  
industrial level.

Under quadrupling  $\text{CO}_2$ ,  
North hemisphere mid-  
continent average  
warming is 8 - 12 C

**A roasted world!**



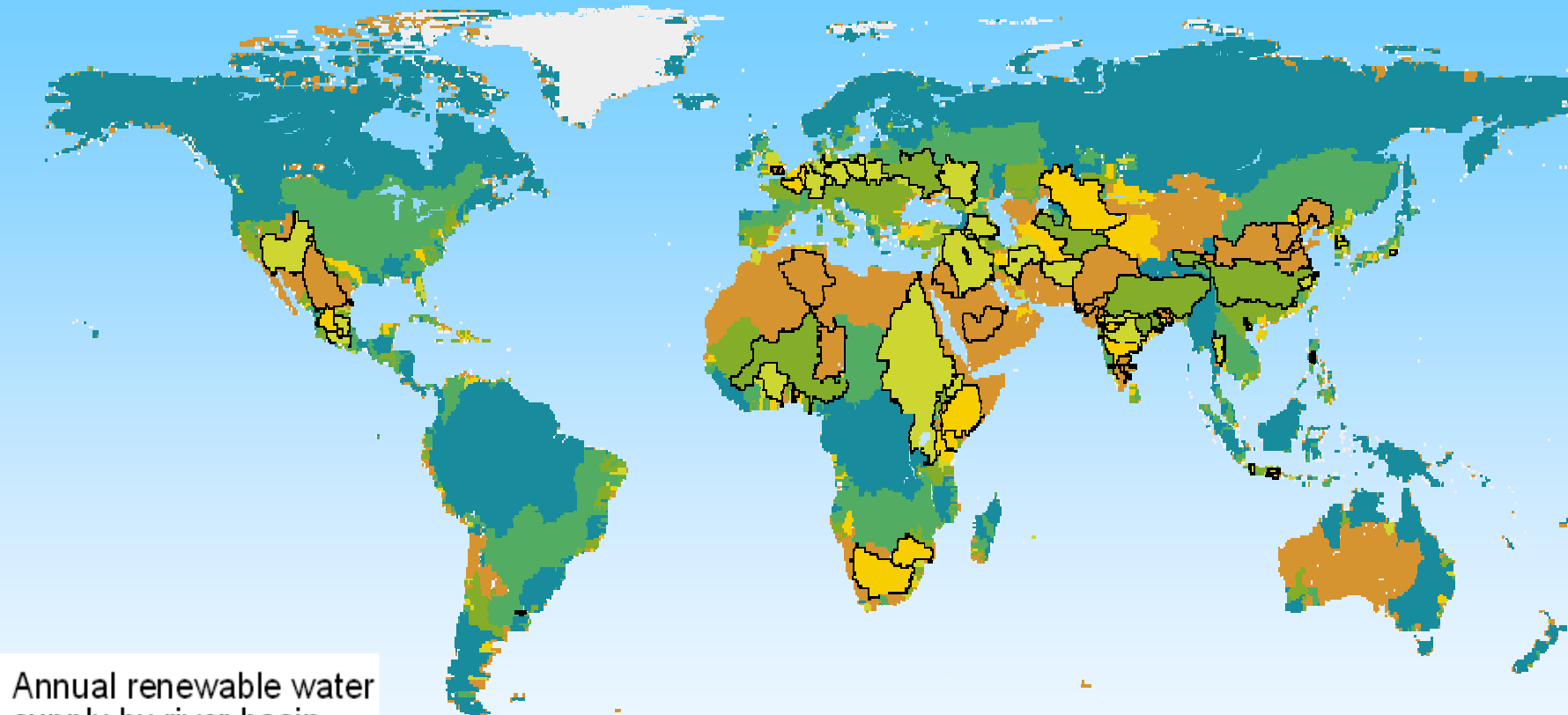
# Sea-level rise: faster than predicted



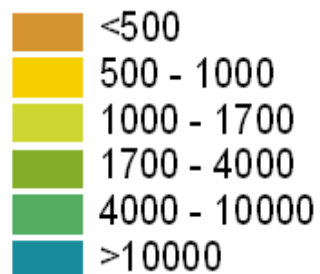
Global Sea-level rise as recorded by satellite measurements (upper line with linear trend), with IPCC projections (2001a) and range of uncertainty.

[Cazenave and Nerem, 2004]

## Water scarcity in 2025



Annual renewable water supply by river basin (m<sup>3</sup>/person/year)



Outlines show watersheds that are both in and approaching scarcity; About 2.3 billion people are living in conditions of water stress or water scarcity.



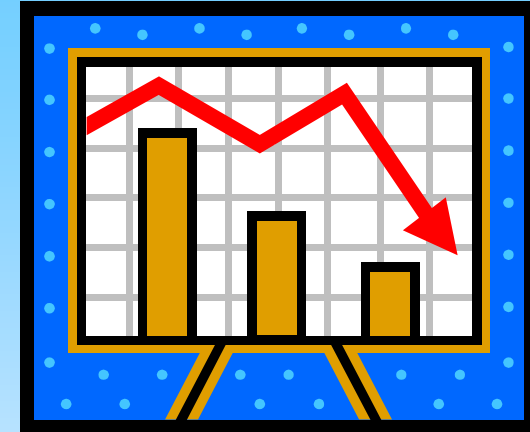
# The socioeconomic polarization of society

Nearly one-third of the global population subsists on the equivalent of two dollars a day

In the poor countries seventy-eight percent of the urban population subsists under life-threatening circumstances

One in three urban dwellers live in slums, shantytowns, and urban ghettos. More than 900 million are classified as slum-dwellers

Eighty percent of the world's domestic product belongs to one billion people, and the remaining twenty percent is shared by five-and-a-half billion.



WE CAN'T SOLVE A PROBLEM WITH THE  
SAME KIND OF THINKING THAT GAVE RISE  
TO THE PROBLEM.

[Einstein]

=

WE CAN'T SOLVE THE PROBLEMS OF  
HUMANITY WITH THE SAME KIND OF VALUES  
AND BELIEFS THAT GAVE RISE TO THE  
PROBLEMS

# Sei credenze antiquate

1. La terra e una fonte infinita di risorse
2. Si puo manipolare la natura come una meccanismo gigante
3. La vita e una lotte dove il piu "fit" sopravvive
4. Il mercato distribuisce i benefici
5. Soldi e tecnologica risolvono tutti i problemi
6. Scopi economici giustificano mezzi militari

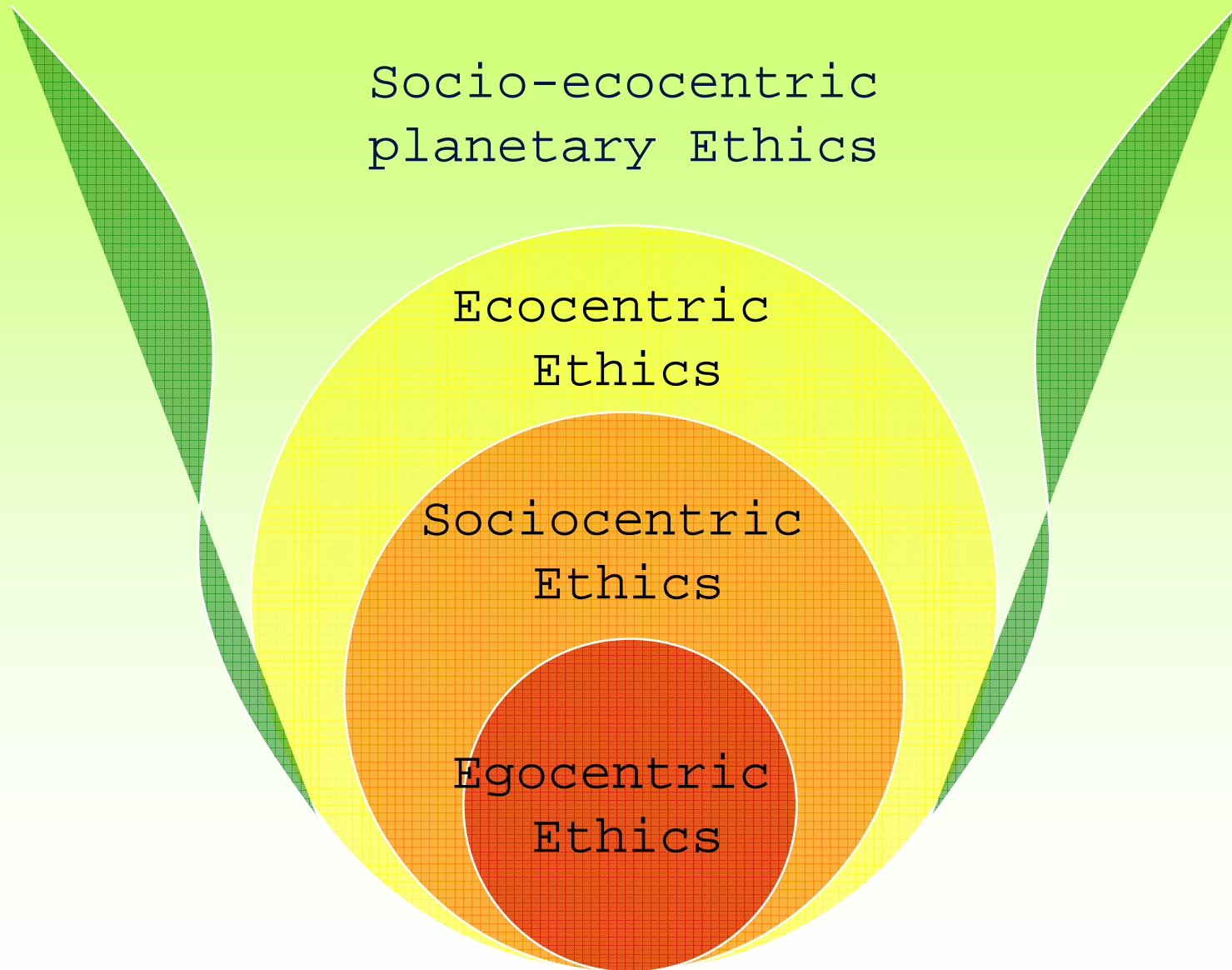
# Livelli dell'Etica

Socio-ecocentric  
planetary Ethics

Ecocentric  
Ethics

Sociocentric  
Ethics

Egocentric  
Ethics



# Adopt a New Worldview

	<b>THE OLD</b>	<b>THE NEW</b>
<b>Physical world</b>	Atomistic; fragmented Objects are independent and free-standing People are individual and discrete	Holistic; interconnected Objects and people are inter-woven into a community
<b>Physical processes</b>	Materialistic; deterministic, mechanistic	Organic; interactive, holistic
<b>Organic function</b>	Discrete and separable; parts are exchangeable	Interwoven and interdependent; parts are not interchangeable
<b>Social ethos</b>	Technology oriented; goods based	Communication oriented; service based
<b>Social progress</b>	Consumption dependent; conversion of resources	Adaptation oriented; service based
<b>Economics</b>	Competition and profit driven; exploitative, interventionist	Cooperative and information driven; complementary, integrationist
<b>Humankind</b>	Mastery over nature; Anthropocentric	Integrated into nature; Gaia-centric
<b>Culture</b>	Euro-centric; colonial	Pluralistic
<b>Politics</b>	Hierarchical; power-based	Holarchic; harmony-based

# The principal websites

*The WorldShift 2012 project:*

[www.worldshift2012.org](http://www.worldshift2012.org)

*The Club of Budapest:*

[www.clubofbudapest.org](http://www.clubofbudapest.org)

*"Finding Bliss in the Shift"*

e-book by Laszlo & Roveda

[www.shiftinbliss.com](http://www.shiftinbliss.com)

