

# Climate change and us



**Prof. Lučka Kajfež Bogataj**  
**University of Ljubljana**



=







**Every hour,  
10,000 people join the global population**



**Every hour,  
1,500 hectares of forests are cut**





**Every hour,  
1.7 Million Kg N are added to soils**



PROIZVODNJA ENERGIJE, INDUSTRIJA



# PROMET



## Products of combustion





**Every hour,  
4 Million tons of CO<sub>2</sub> are emitted**



**Every hour,  
3 species go extinct  
(1000x faster than natural rates)**



**25 milijons**

**1 hour**



**20.000 mobiles**

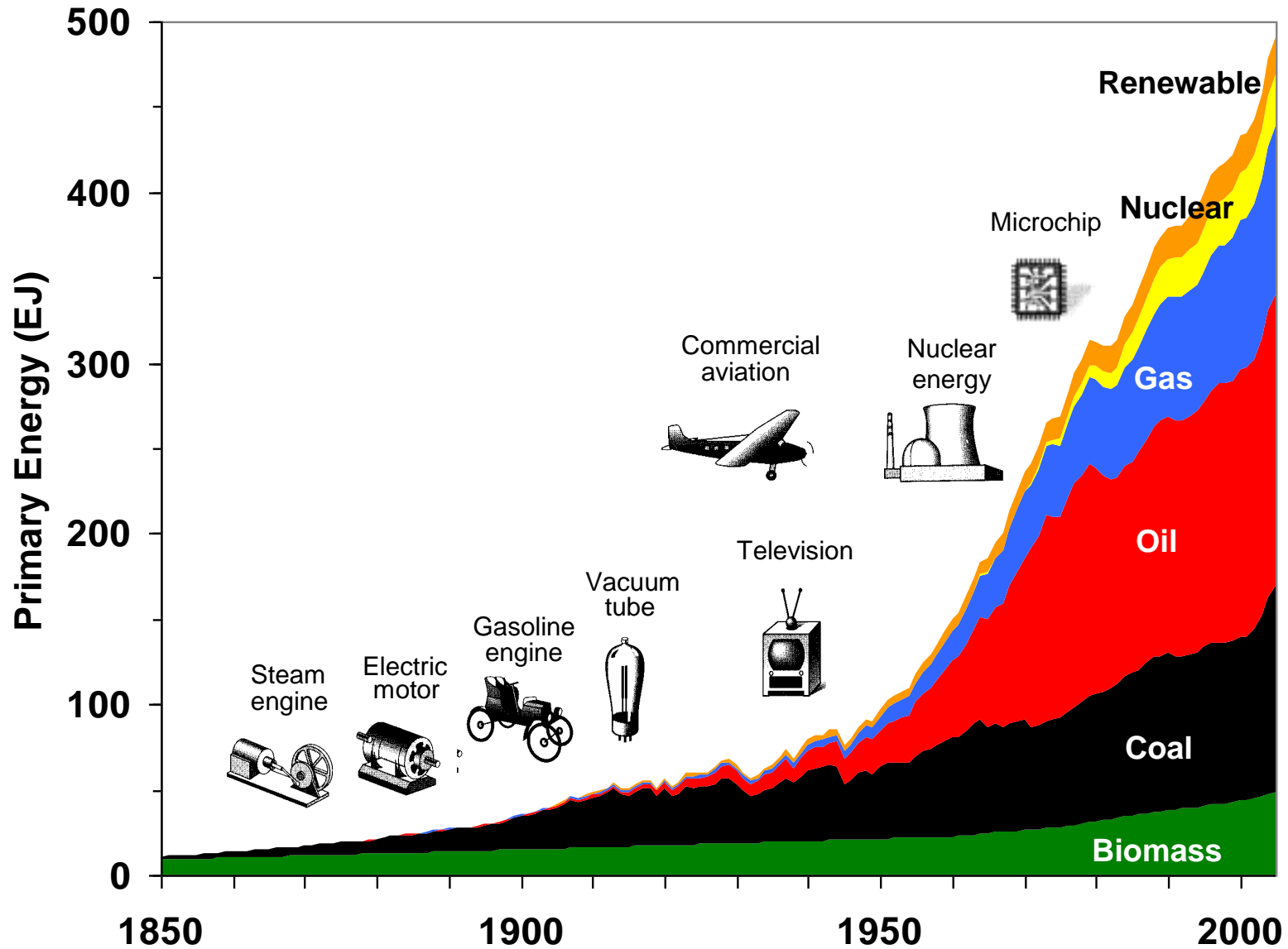


**14 milijons cans**

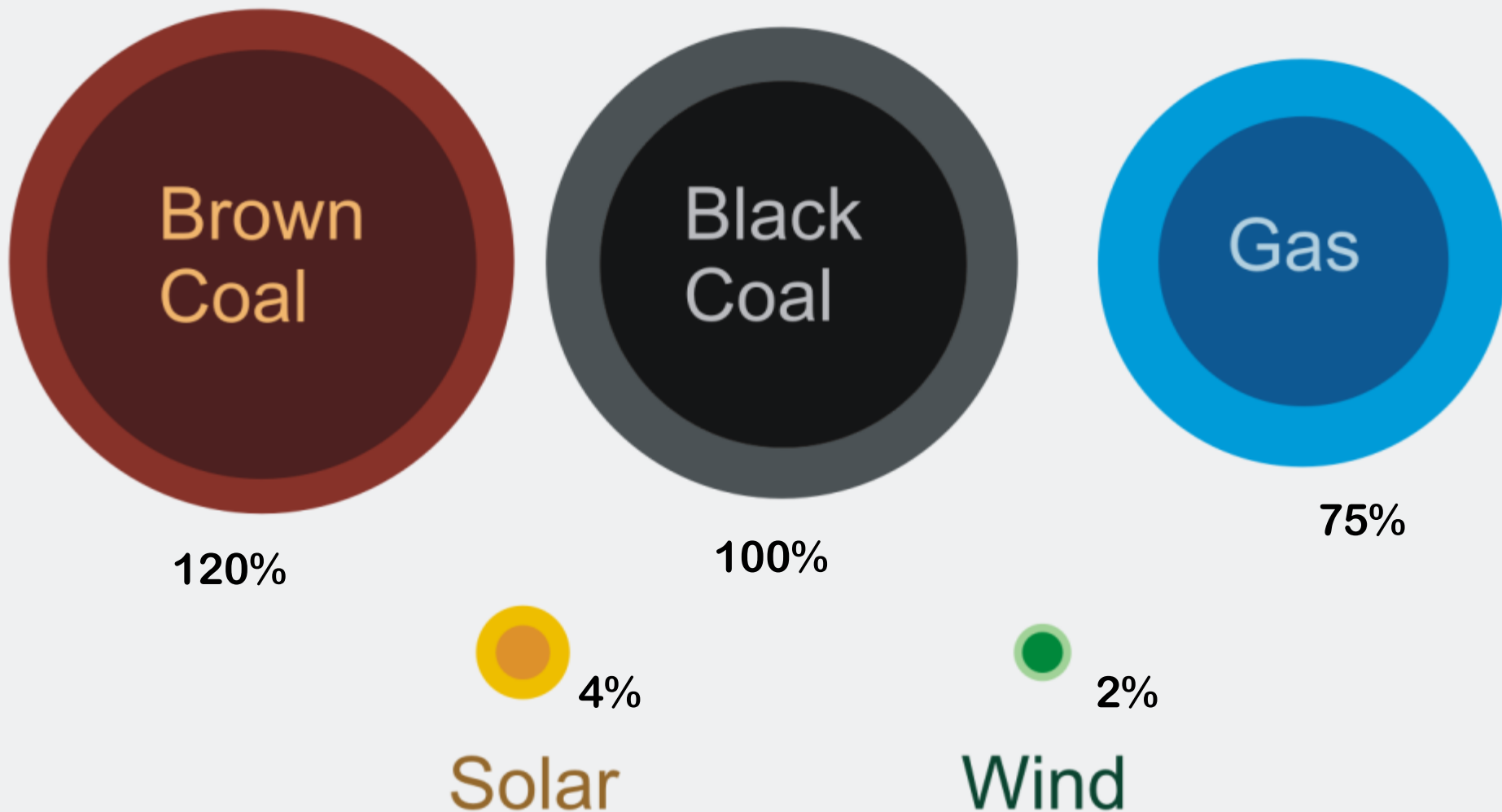


**45 milijons plastic bags**

# World Primary Energy

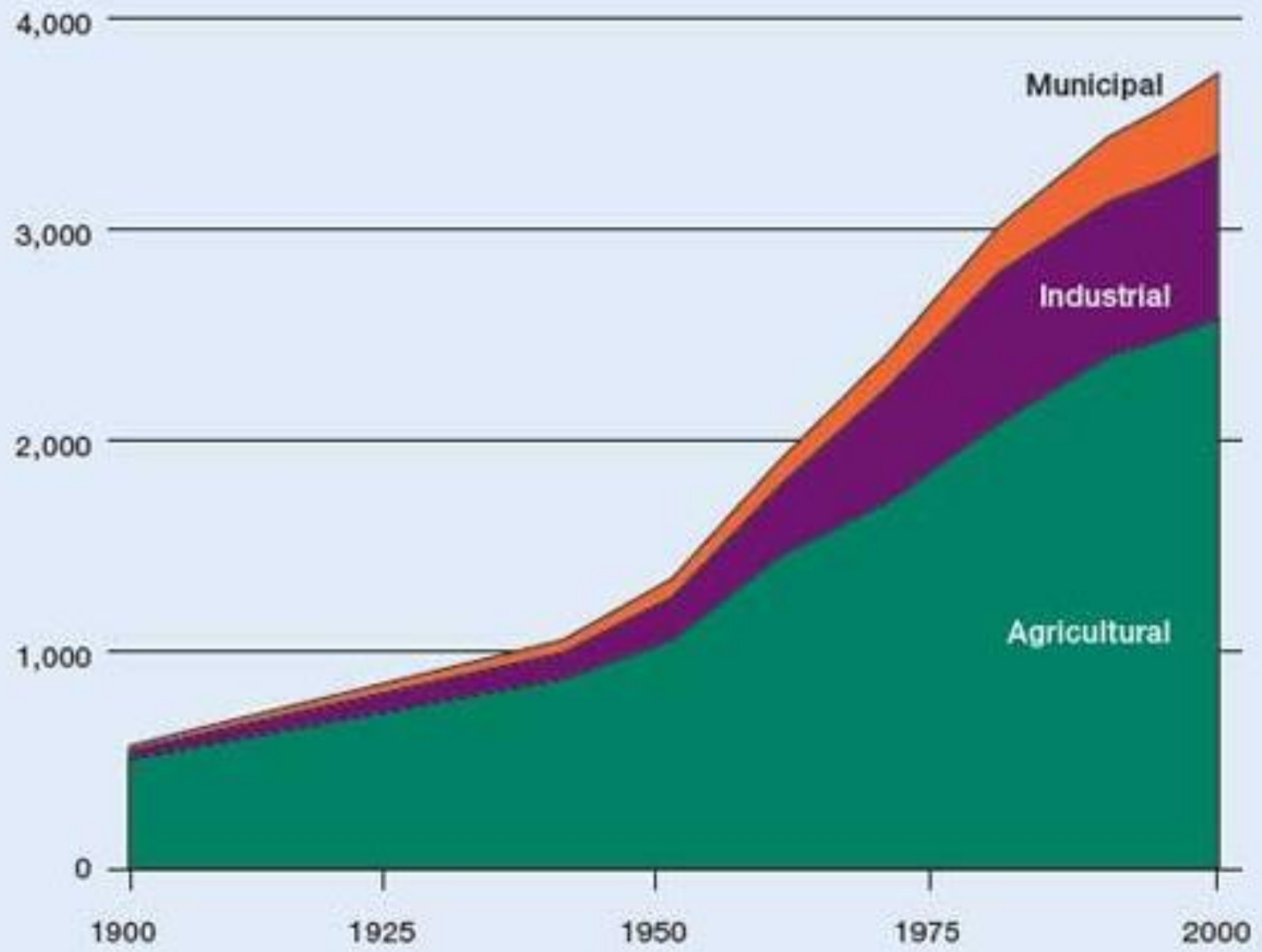


# Relative Greenhouse Emissions



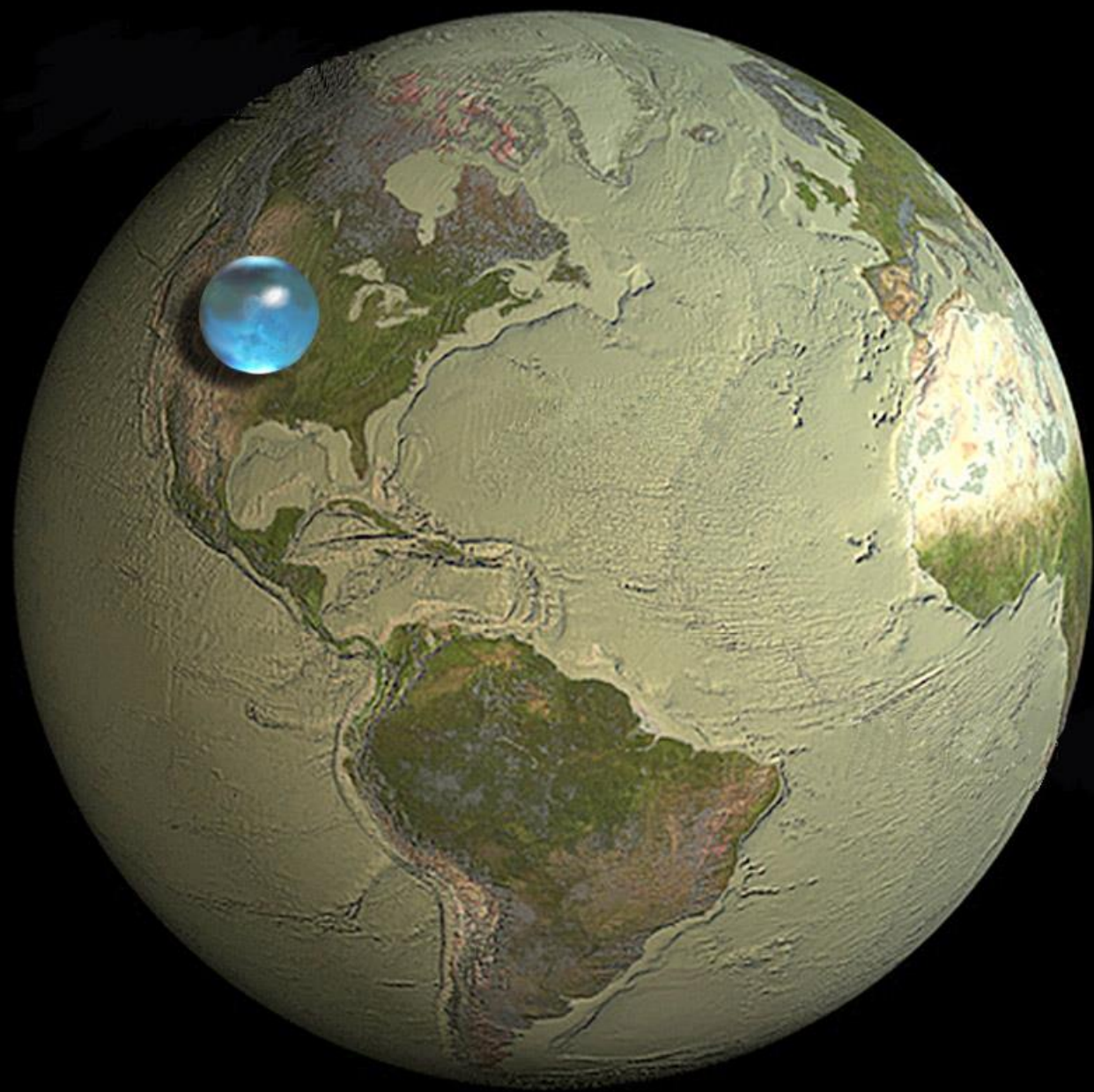
Shading represents typical estimates of maximum and minimum lifetime cycle greenhouse emissions

Global water withdrawal (cubic kilometers per year)









1 glass of milk



200  
litres

1 cup of tea



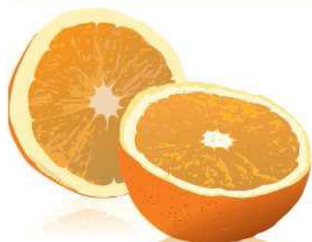
35  
litres

1 cup of coffee



140  
litres

1 orange



50  
litres

1 apple



70  
litres

1 glass of wine



120  
litres

1 potato



25  
litres

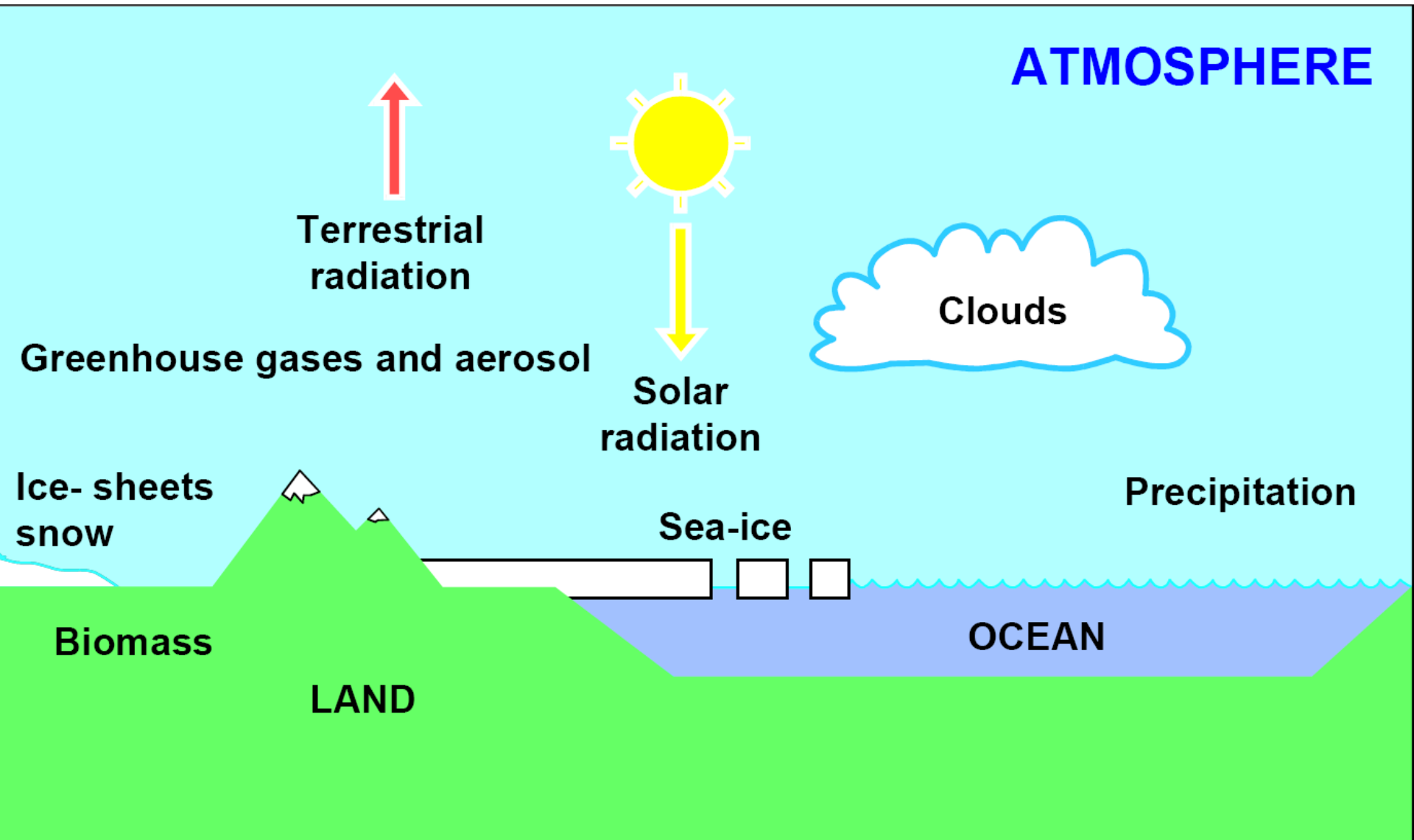
1 hamburger



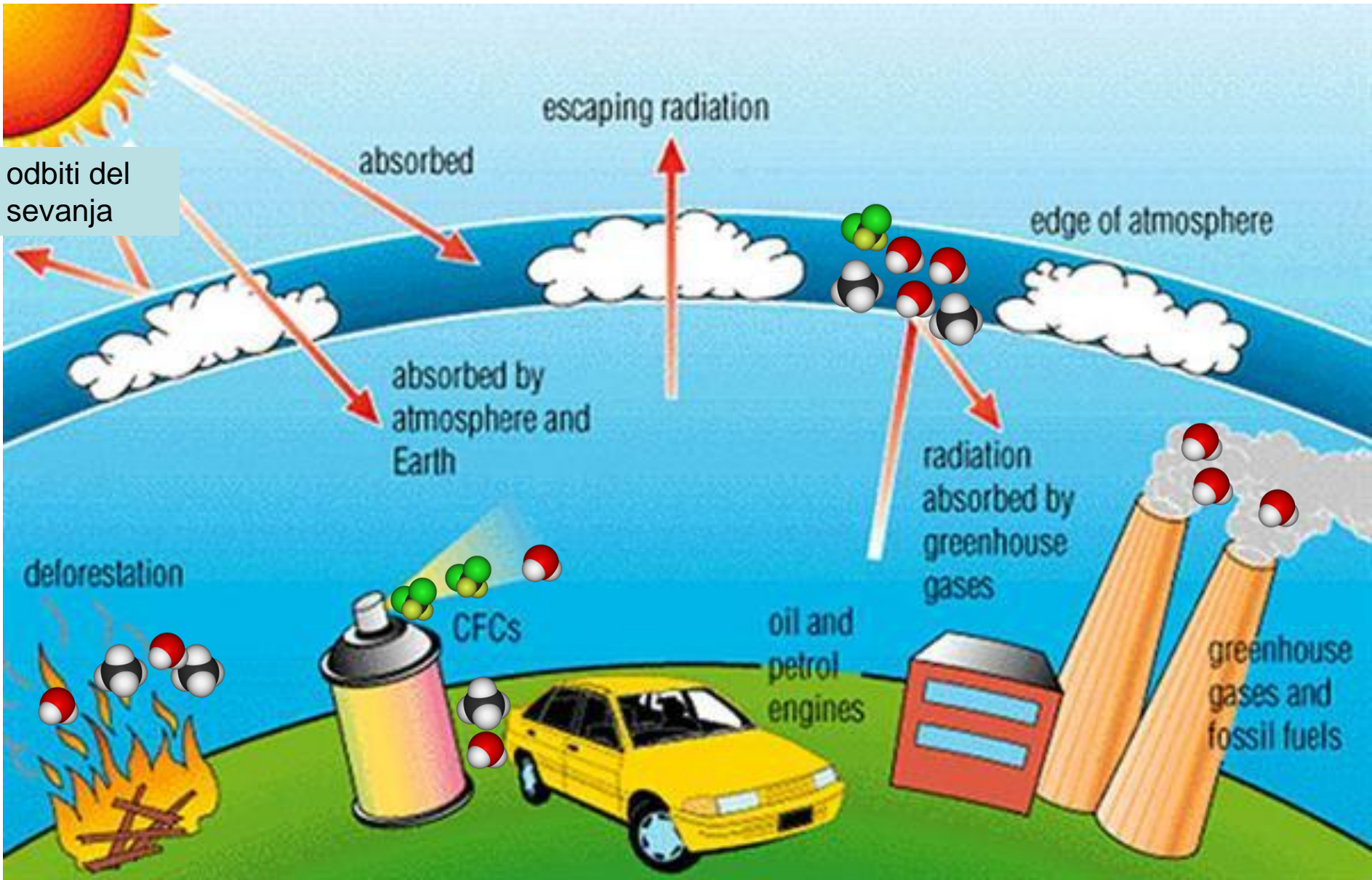
2400  
litres

# Weather is not climate





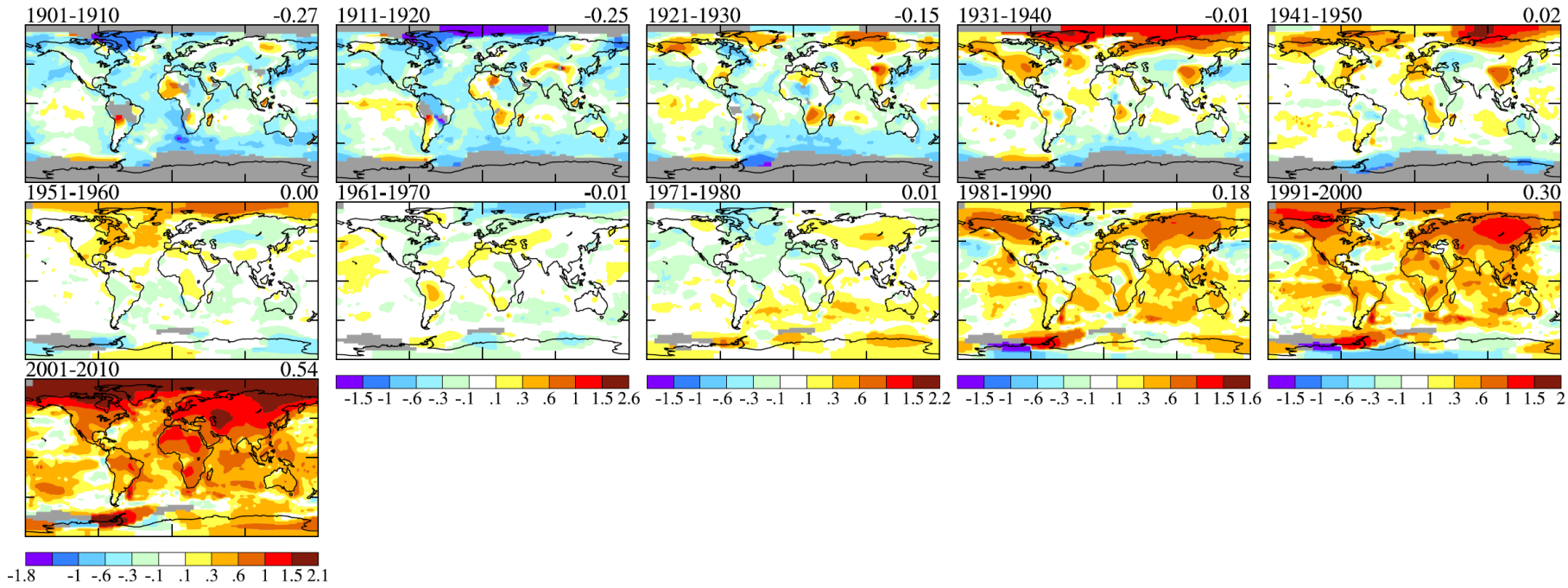
odbiti del sevanja



# CLIMATE IS CHANGING....



Decadal Mean Surface Temperature Anomaly (°C): Base Period = 1951-1980





# HEAT WAVES



# MORE DROUGHTS

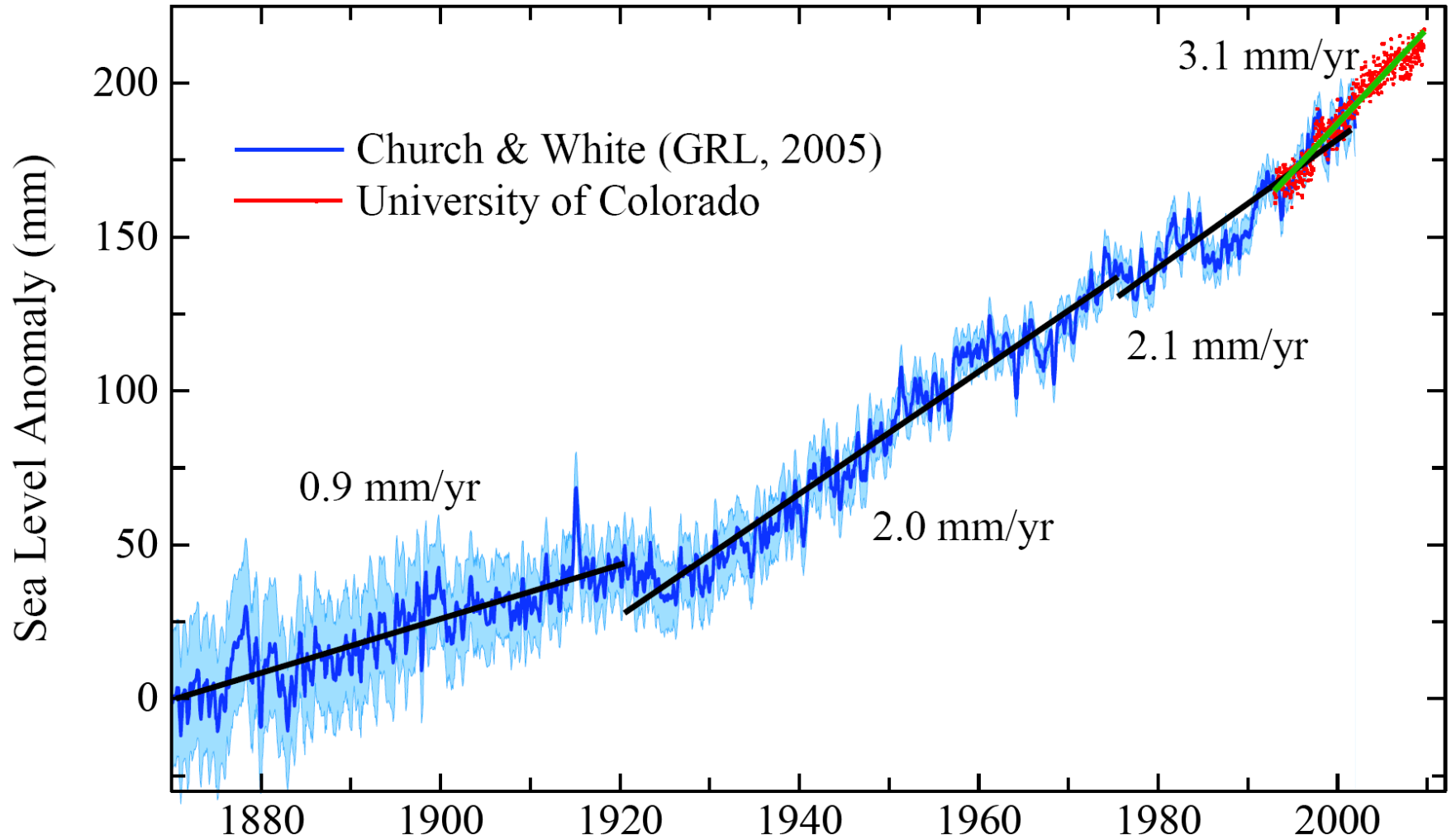


REKA PAD pri kraju Boretto v Severni Italiji (april 2007)

# LESS DRINKING WATER



# Global Mean Sea Level Change



# SEA LEVEL RISE





# PLANTS AND ANIMALS FEEL CLIMATE CHANGE, TOO



## Sea-ice extent

1979



1995



2007







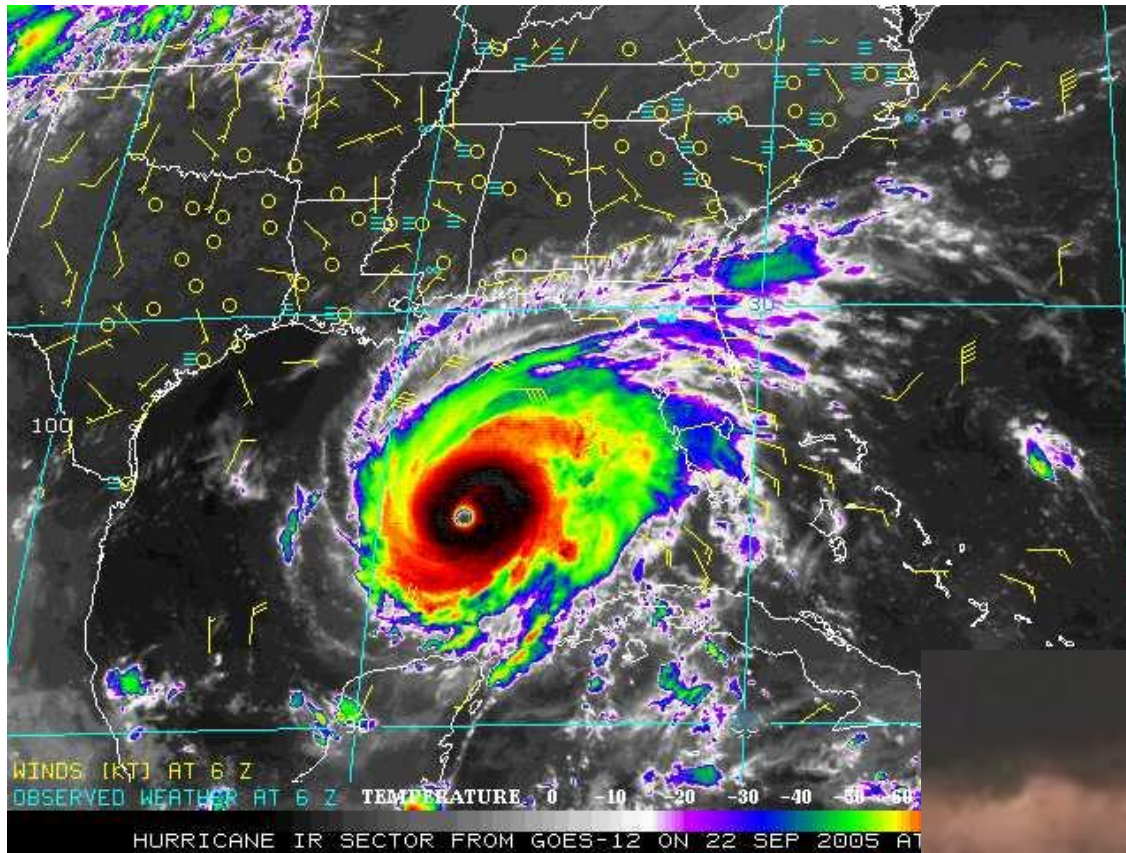


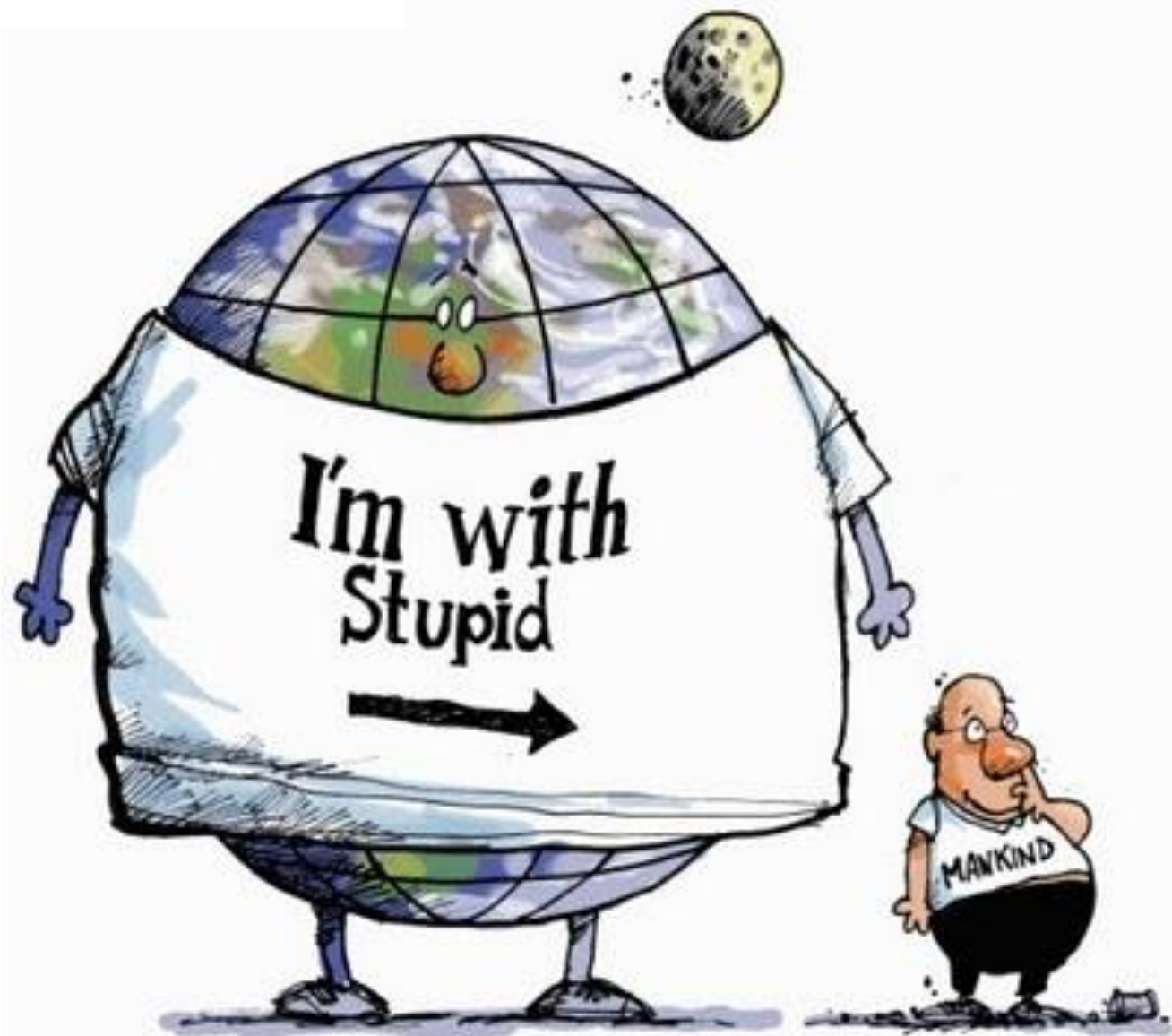
Permafrost - "Drunken Forest"



# PERMAFROST







# 50 Reasons Not To Change







Climate change is not  
all gloom and doom.

**There's plenty you can do!**

# YOU CAN HELP ...in your own little way

- **Get active!**

Talk with your friends, your teachers and your parents about what you could do.

- **Shop locally!**

Buy your food from local farm shops. Trucks and planes bringing in food and stuff from other countries, or from distant parts of your own country, use huge amounts of fuel.

- **Eat less meat!**



# YOU CAN HELP ...in your own little way

- **Go by bus!**

Get your family to go to school, work, market, holiday, place of worship on a bus rather than in daddy's car. It's cheaper too.

- **Walk or ride!**

Walk or ride a bike to the shop, market, school and everywhere. Sometimes there are too many cars causing heavy traffic and it is better to walk. It is also great exercise.

# YOU CAN HELP ...in your own little way

- **Protect and plant trees!**

Planting trees is fun and a great way to reduce greenhouse gases. Trees absorb CO<sub>2</sub> from the air. This means the air will be fresher and also help regulate climate.

- **Recycle, reduce and re-use items!**

Recycling, reducing the use of things and re-using things is a brilliant attitude for us to acquire. When we recycle cans, bottles, plastic and paper, we send less trash to landfill. It also helps save natural resources such as trees, oil and aluminum.