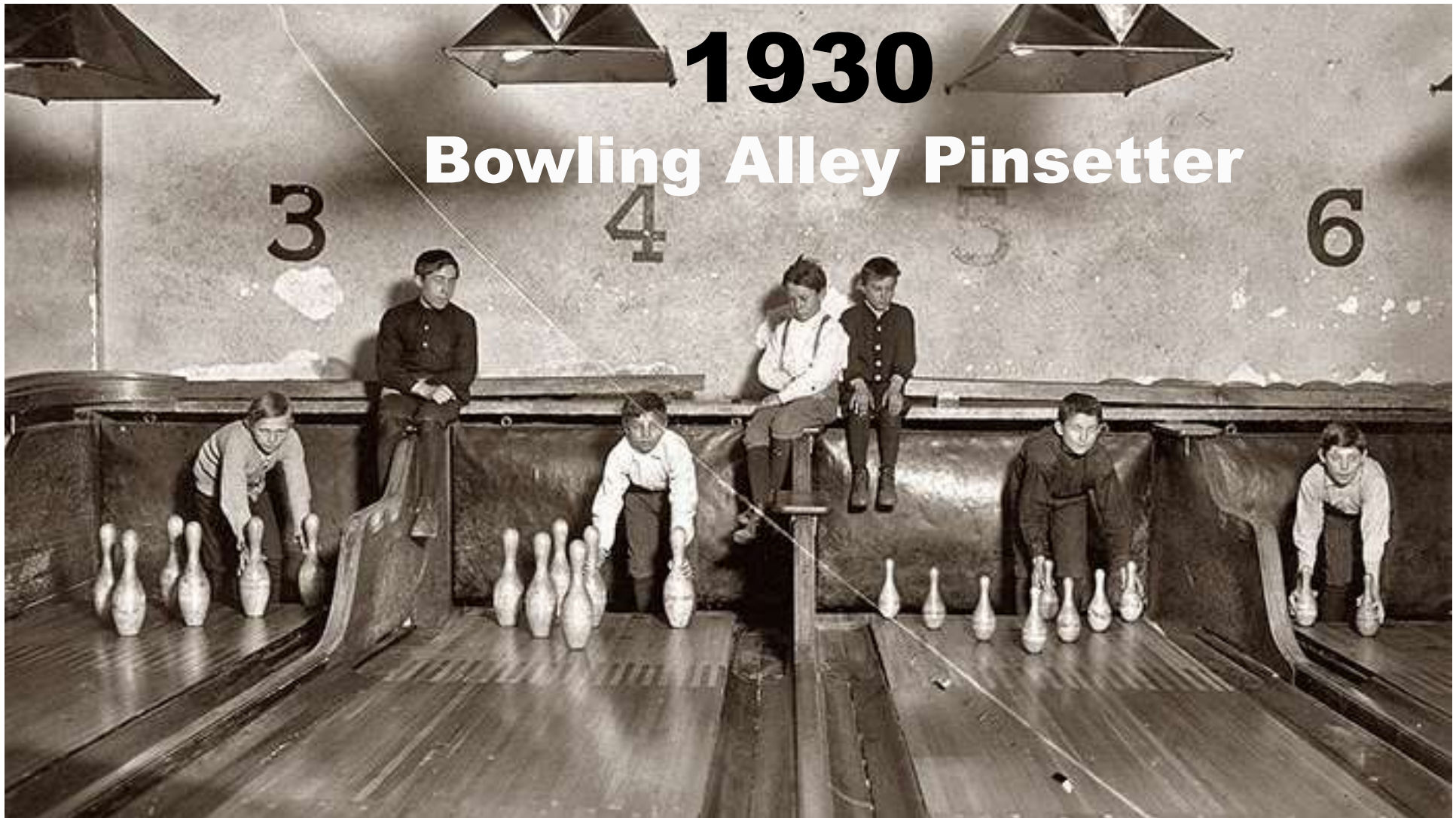


1910
25 billion kg
Ice Trade



1930

Bowling Alley Pinsetter



Jobs that didn't exist 20 years ago

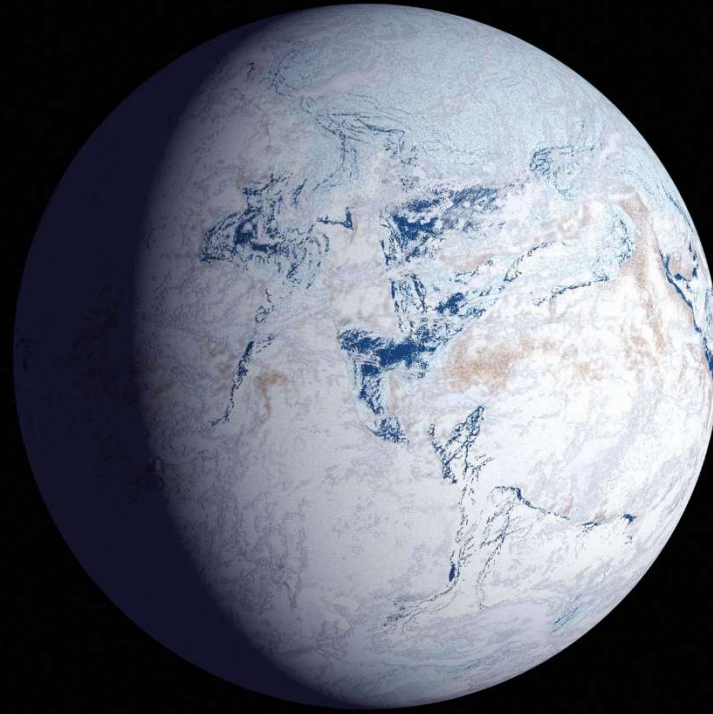




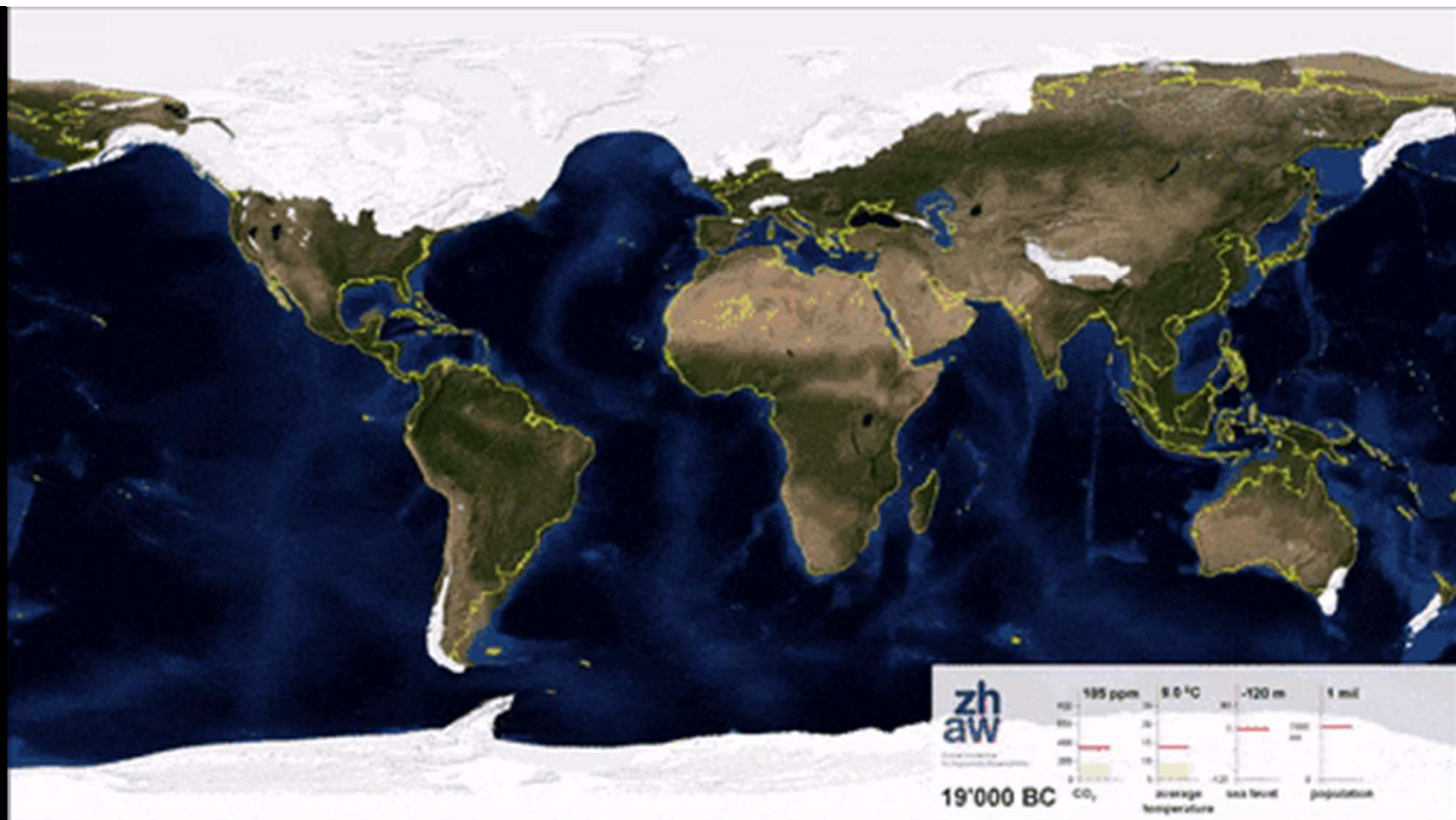
**Earth
4 bil years ago**



Earth
3.26 bil years ago



Snowball Earth
Twice at least
720 - 635 m years ago



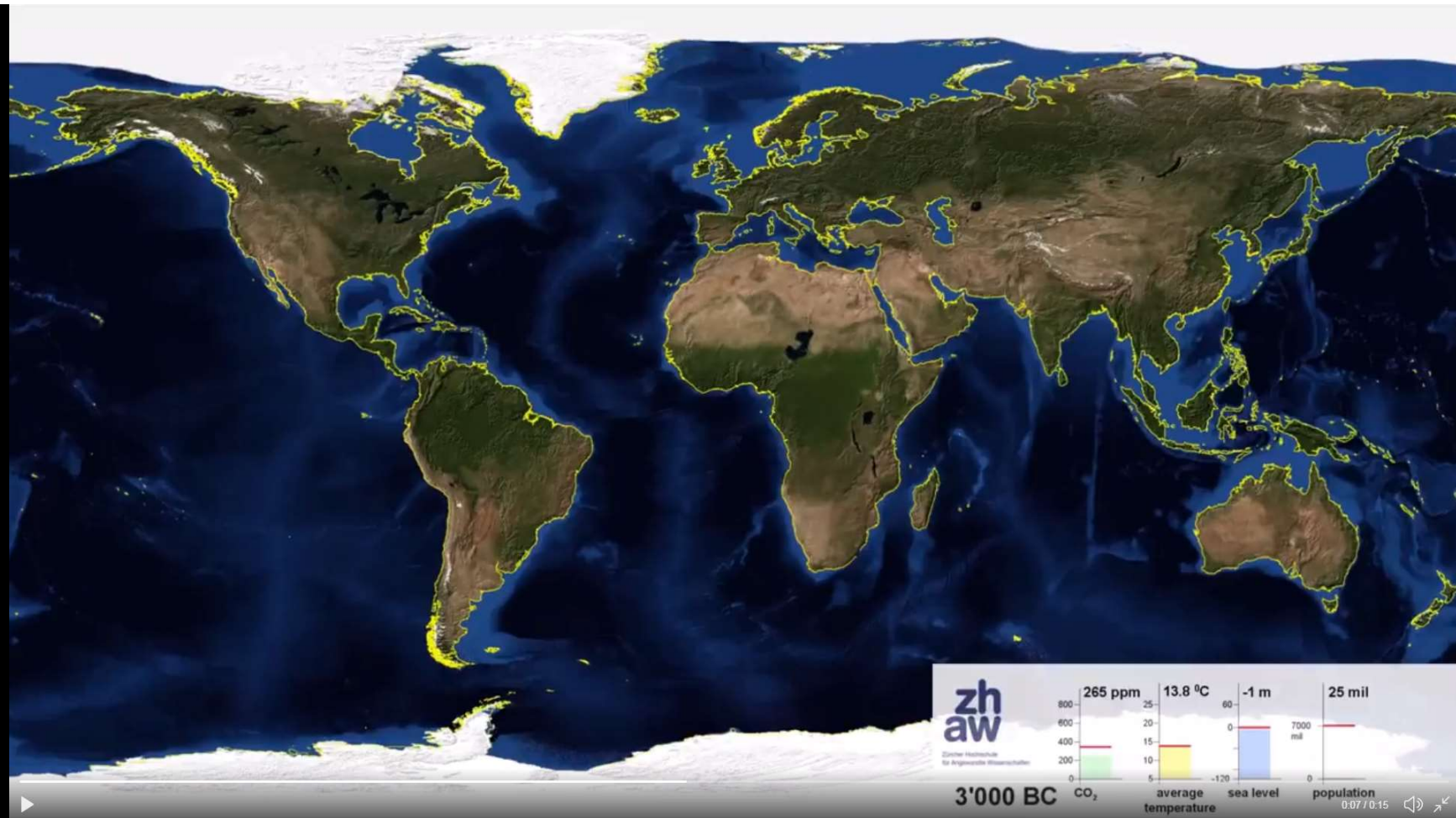
SINCE THE LAST ICE AGE



Hunter & Gather



• **Mammoth, Sabertooth go extinct** •



Stonehenge, Great Pyramid of Giza •



Today 2020



1000 years in the future

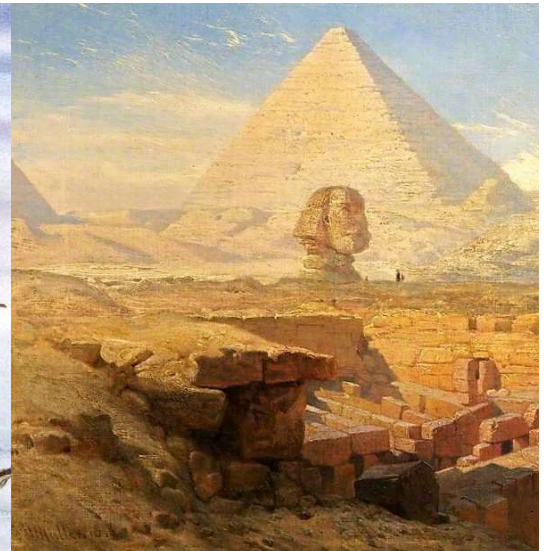


ICE AGE
300,000 years ago

•

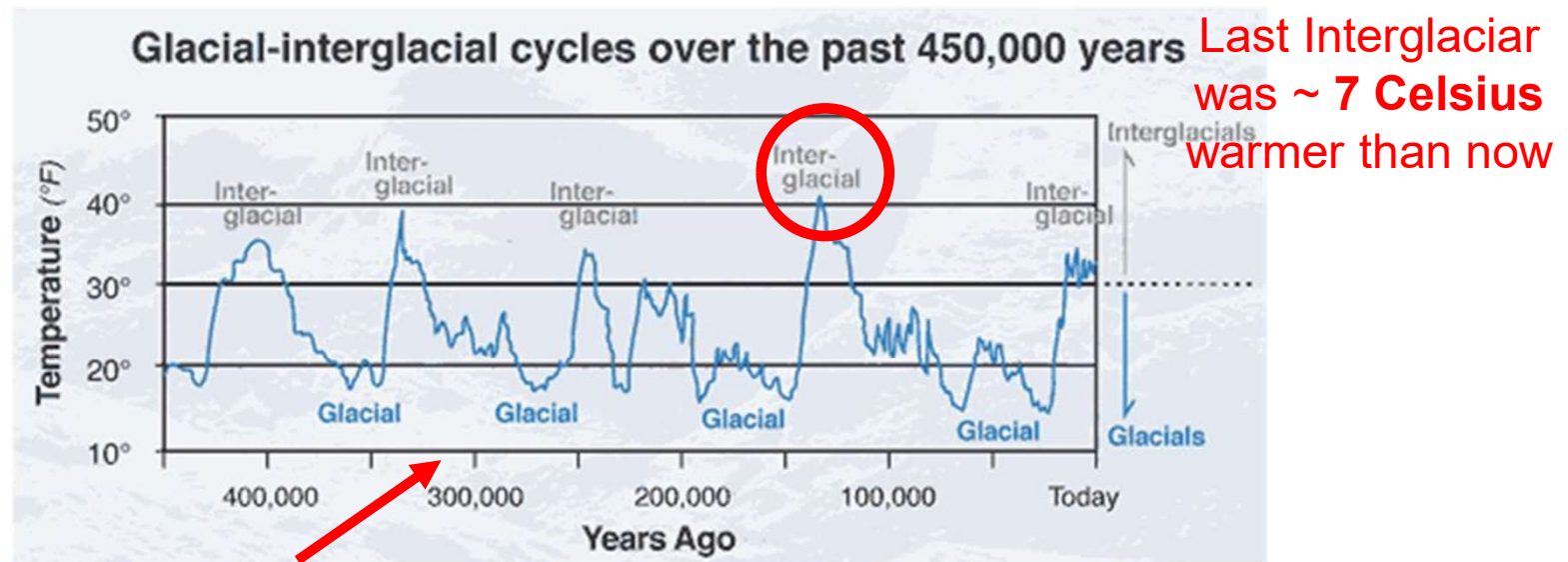


END OF LAST ICE AGE
12,000 years ago



GREAT PYRAMID
4,500 years ago

•



Homo Sapiens

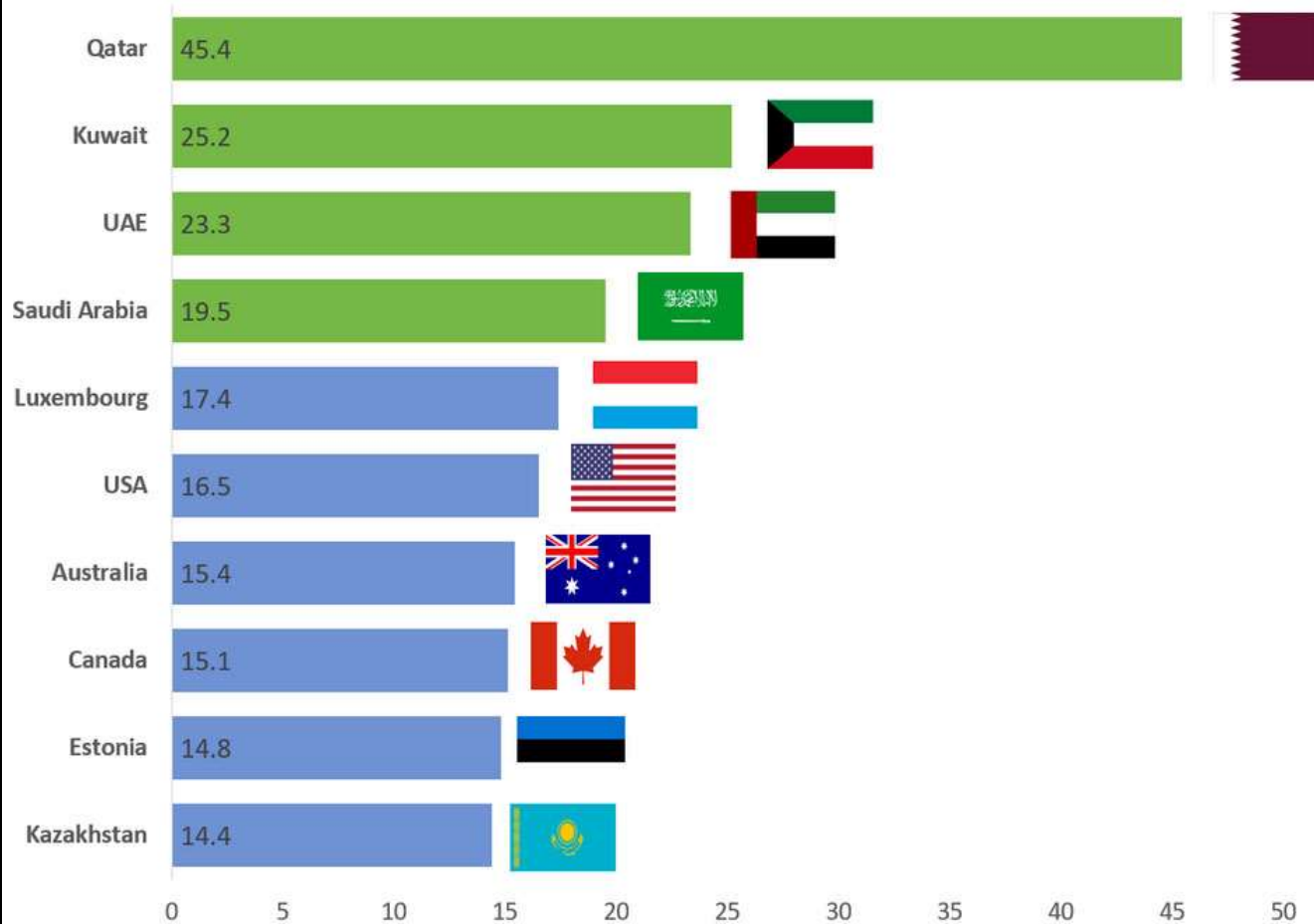
“subtle changes in the **Earth’s orbit around the Sun** are responsible for the comings and goings of the ice ages” NASA Global Climate Change

“During a time of dramatic climate change 300,000 years ago, *Homo sapiens* evolved in Africa.”
Smithsonian Institution




Homo Sapiens **survived at least 2 ice ages**

Next ice age in **50000 years**

Top 10 Countries with Highest CO2 Emissions (excluding small island countries)



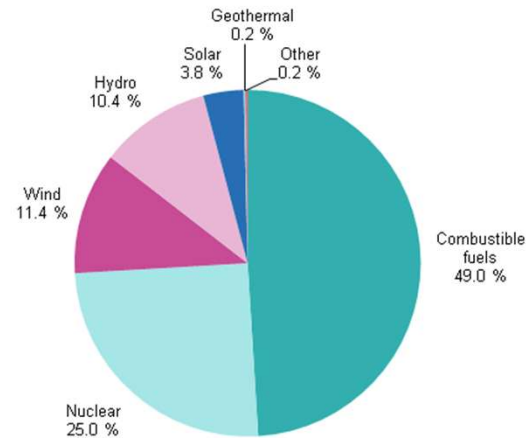
**per
capita**

Rank	Country	Emissions in 2017 (MtCO ₂)	% of Global Emissions
#1	 China	9,839	27.2%
#2	 United States	5,269	14.6%
#3	 India	2,467	6.8%
#4	 Russia	1,693	4.7%
#5	 Japan	1,205	3.3%
#6	 Germany	799	2.2%
#7	 Iran	672	1.9%
#8	 Saudi Arabia	635	1.8%
#9	 South Korea	616	1.7%
#10	 Canada	573	1.6%
#11	 Mexico	490	1.4%
#12	 Indonesia	487	1.3%
#13	 Brazil	476	1.3%
#14	 South Africa	456	1.3%
#15	 Turkey	448	1.2%
	 Top 15	26,125	72.2%
	 Rest of World	10,028	27.7%

#50 Romania
80mtCO₂

0,22%

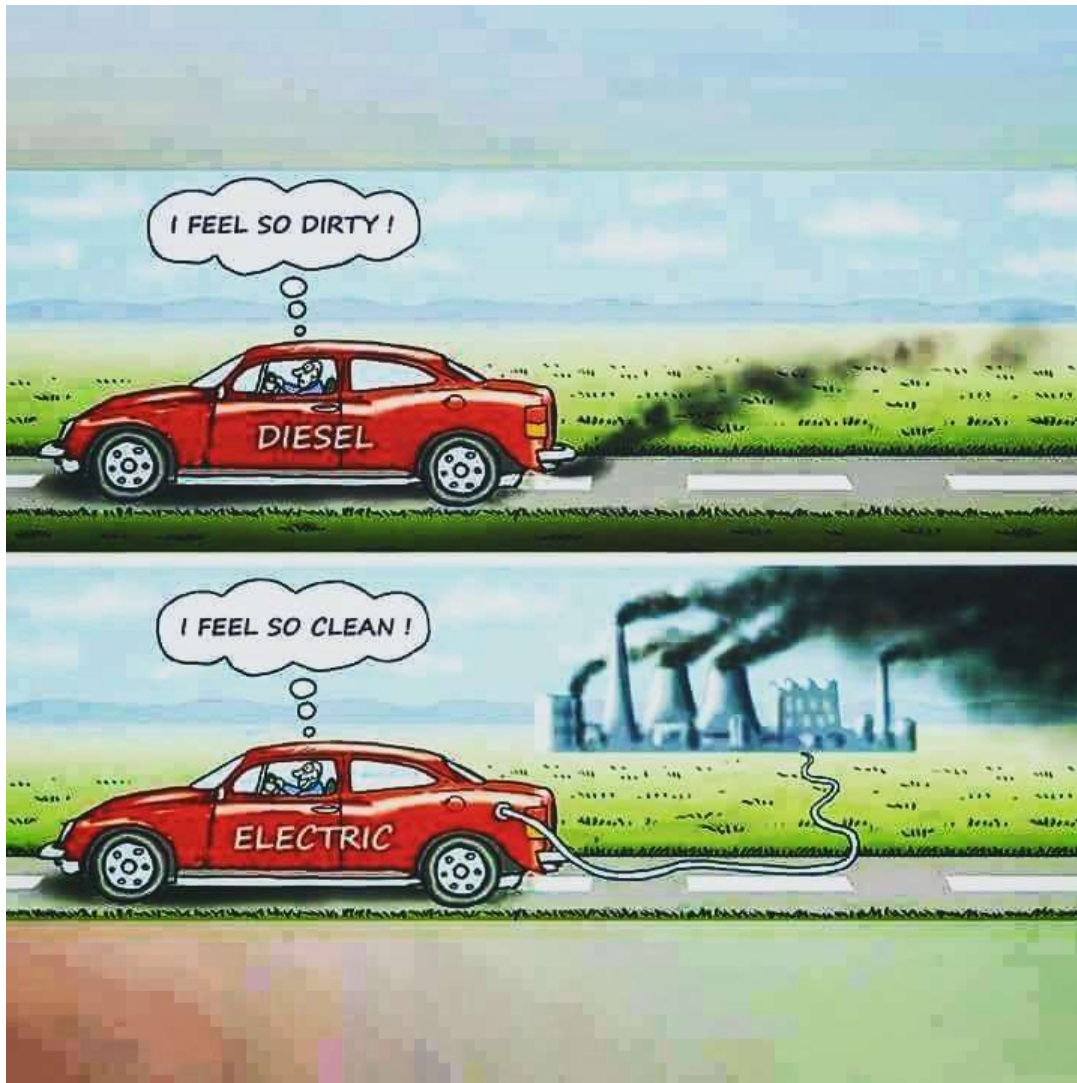
Net electricity generation, EU-28, 2017
(% of total, based on GWh)



Source: Eurostat (online data code: nrg_ind_peh)

eurostat 

50% from fuel and gas
25% from Nuclear
25% from renewable



Electric cars in EU

**50% by fuel and
gas**

25% by nuclear



Before

Aug. 4, 2009

Jupiter

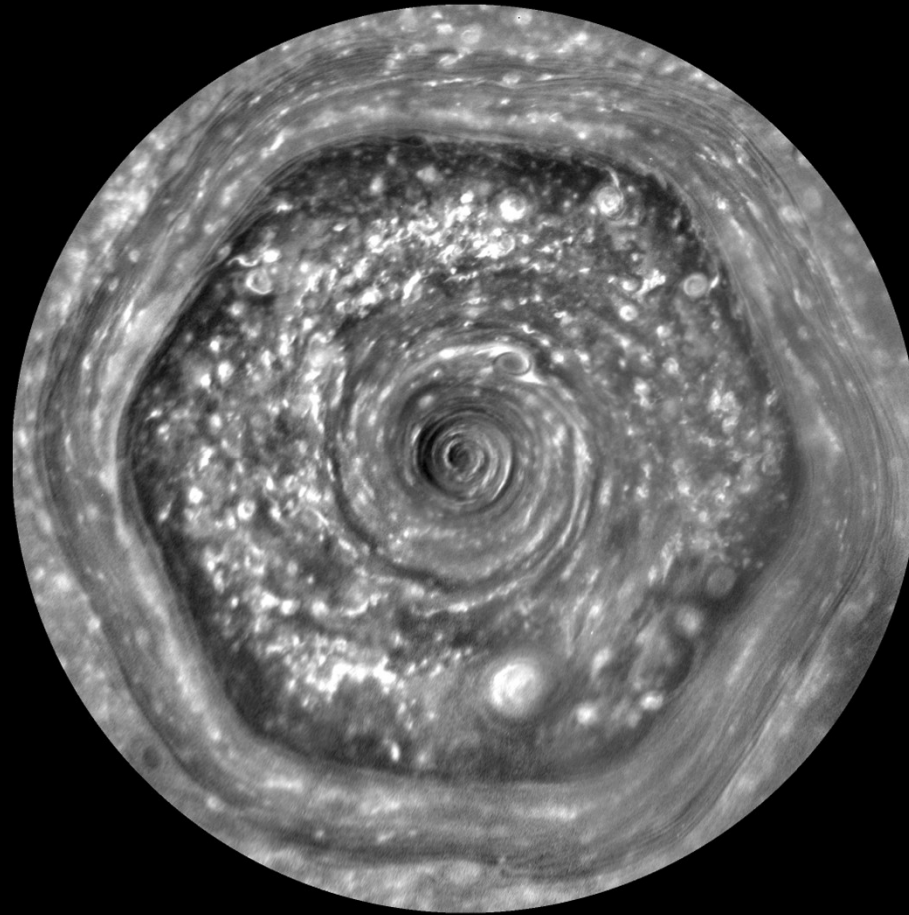
Credit: Anthony Wesley



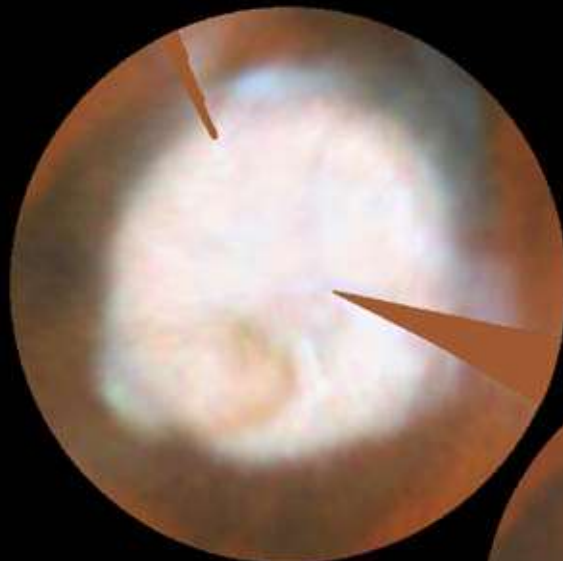
After

May 8, 2010

- **Major Climate change on Jupiter** •

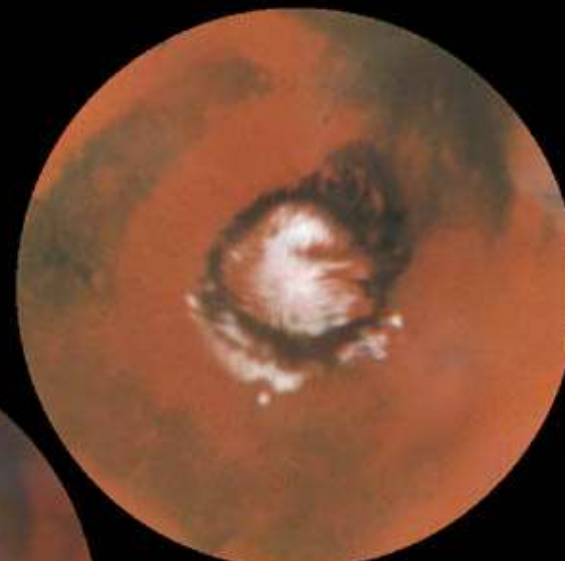


• **Saturn North Pole Hexagon** •



October 1996

January 1997



March 1997

Mars North Polar Cap

HST • WFPC2

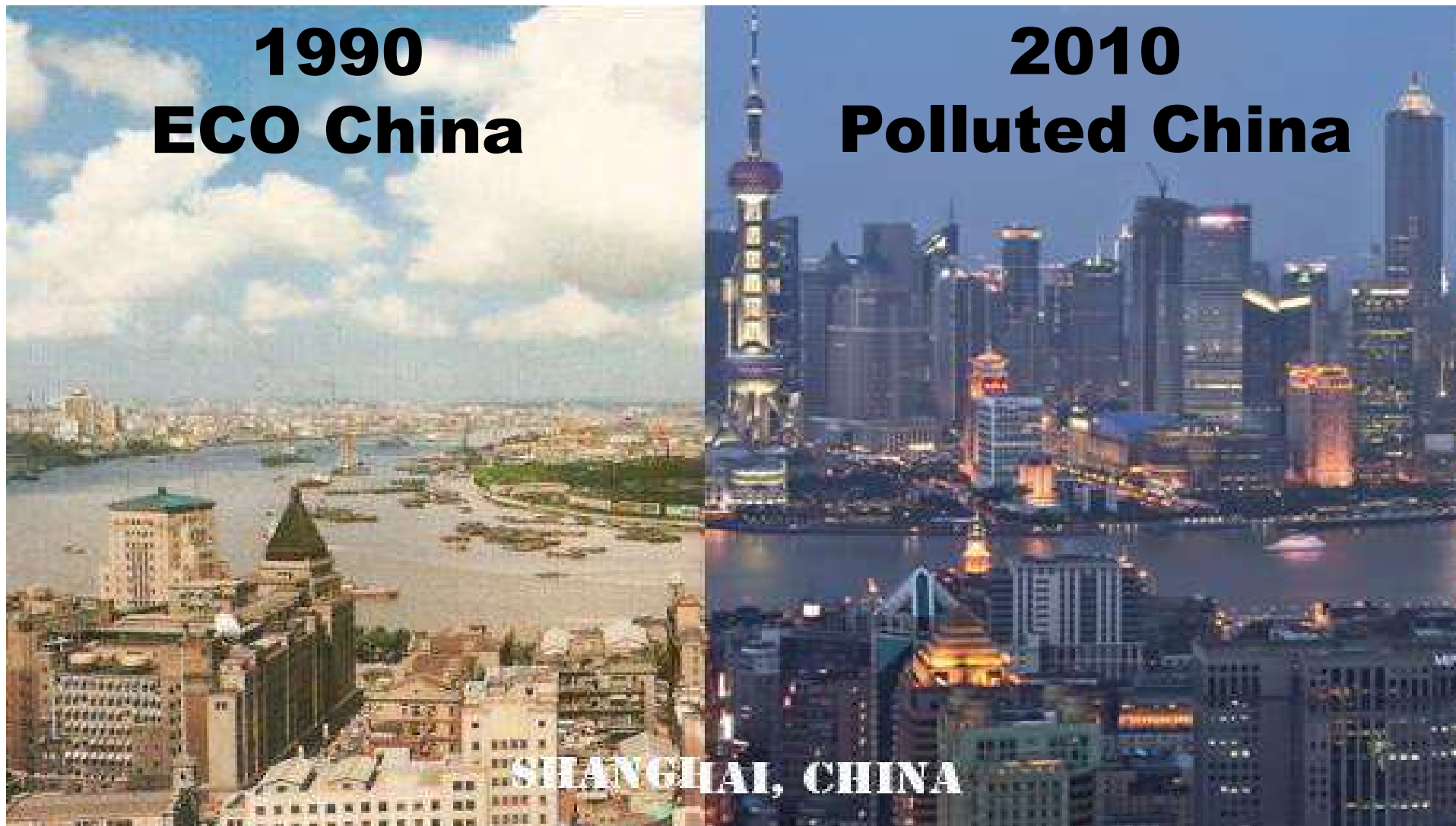
PRC97-15b • ST ScI OPO • May 20, 1997

P. James (Univ. Toledo), T. Clancy (Space Science Inst.), S. Lee (Univ. Colorado) and NASA

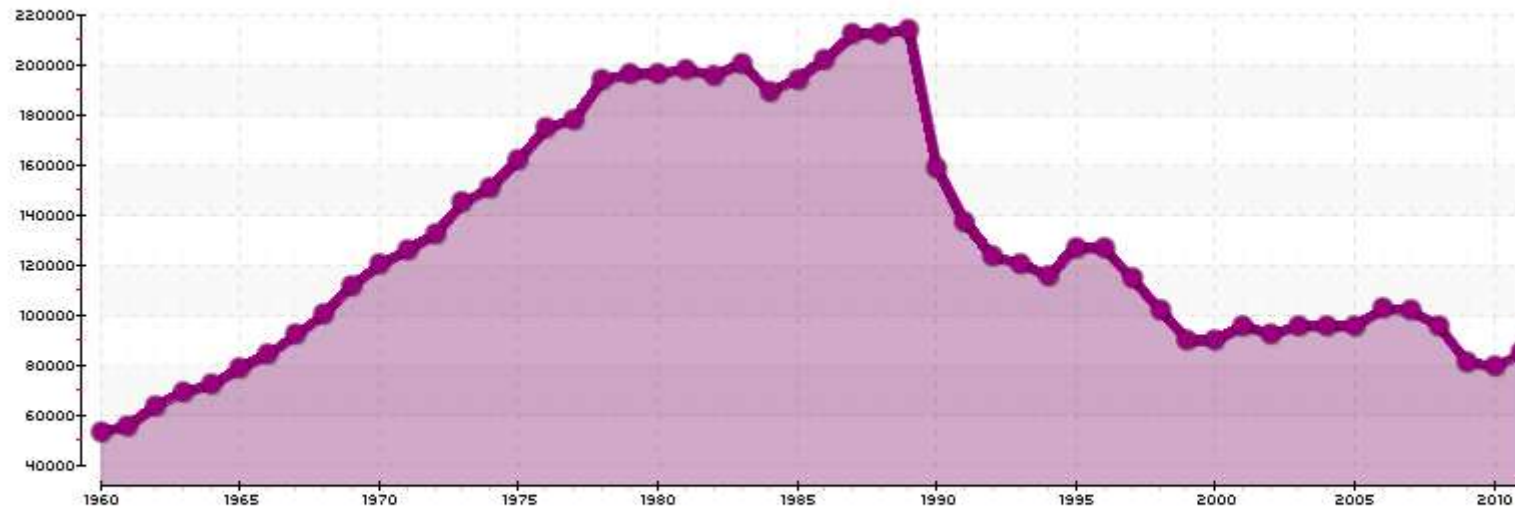
**1990
ECO China**

**2010
Polluted China**

SHANGHAI, CHINA



Romania - CO2 emissions (kt)



Source : The World Bank
Date : 2015
Creation: Actualitix.com - All rights reserved



Romania closed factories in 1990s

Is green necessary ?



**We need Urbanization,
Industry, Education,
Health, Employment**



In Squamish British Columbia there is one company that wants to stop Climate Change