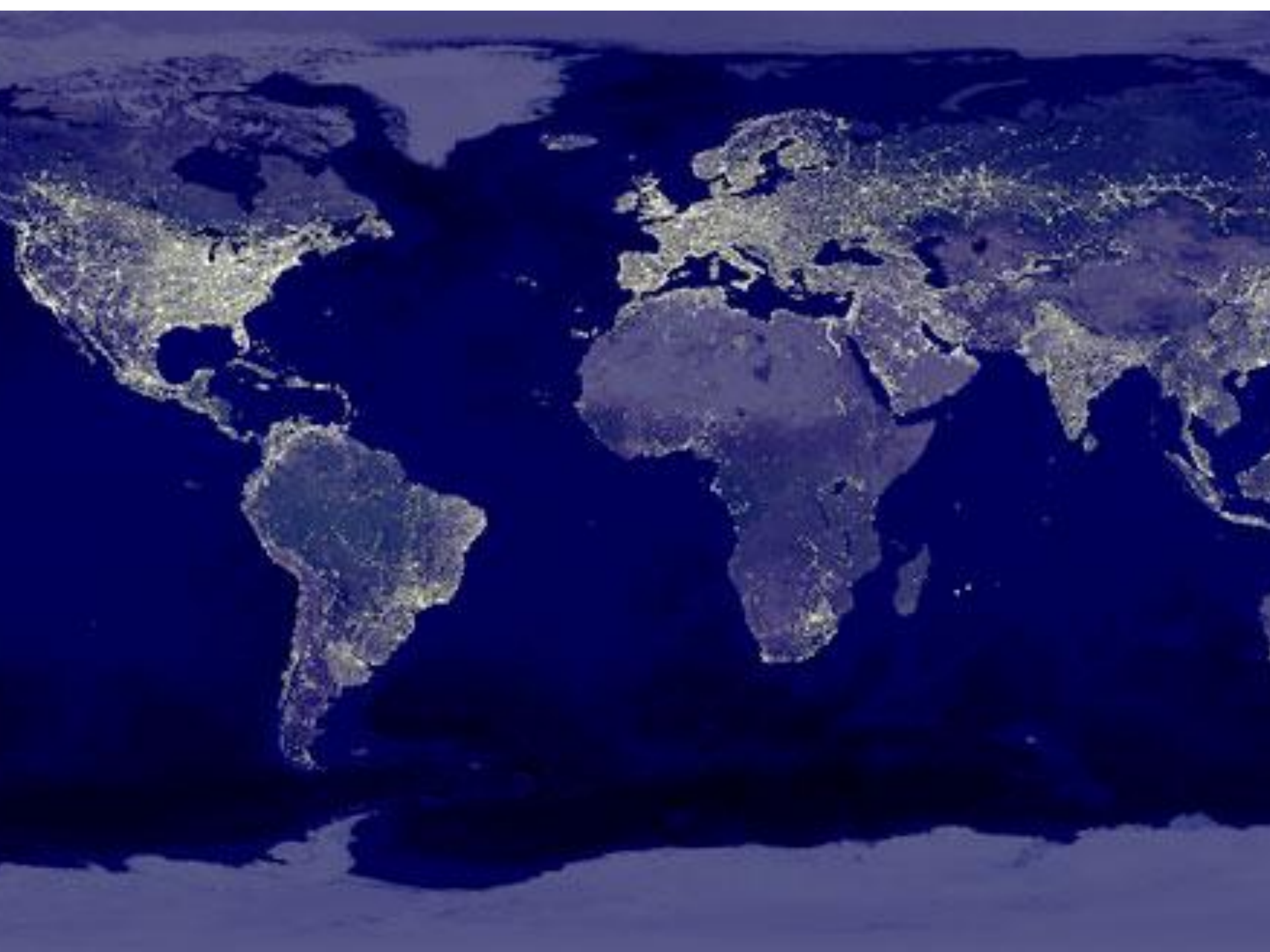
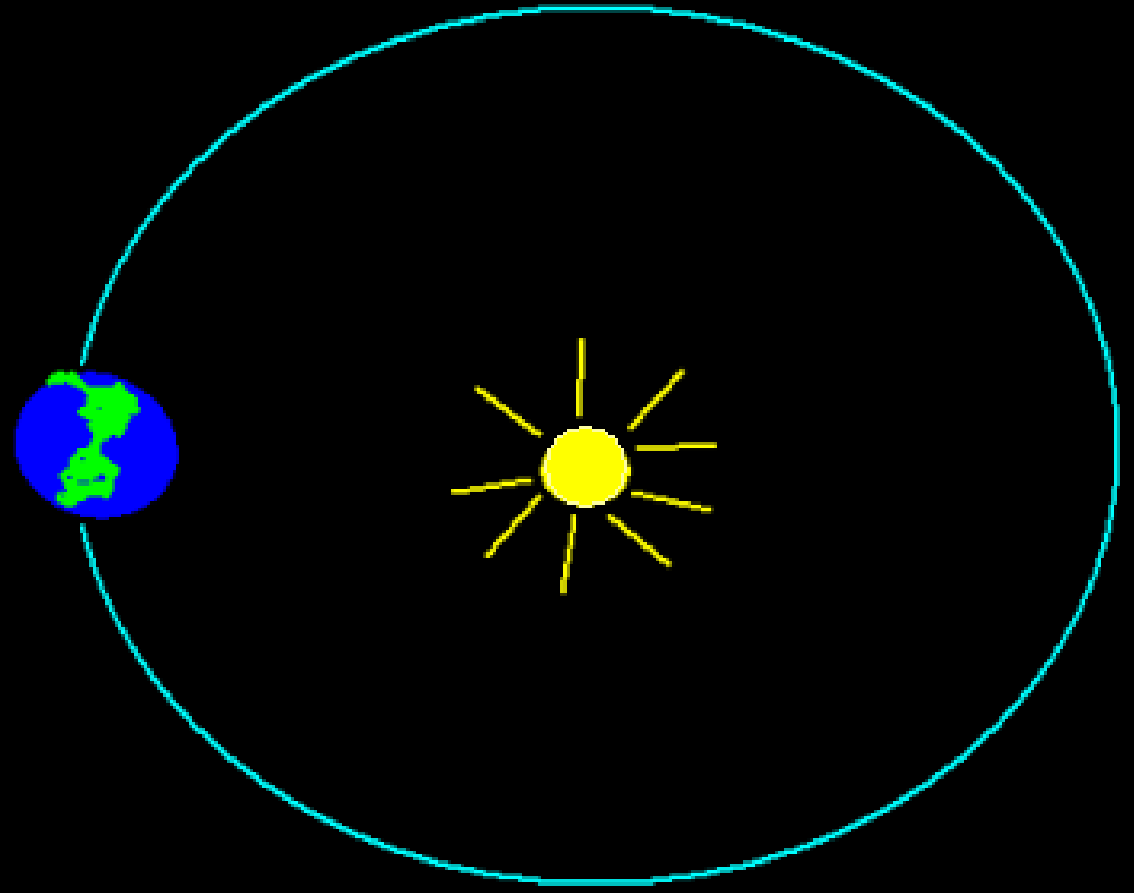
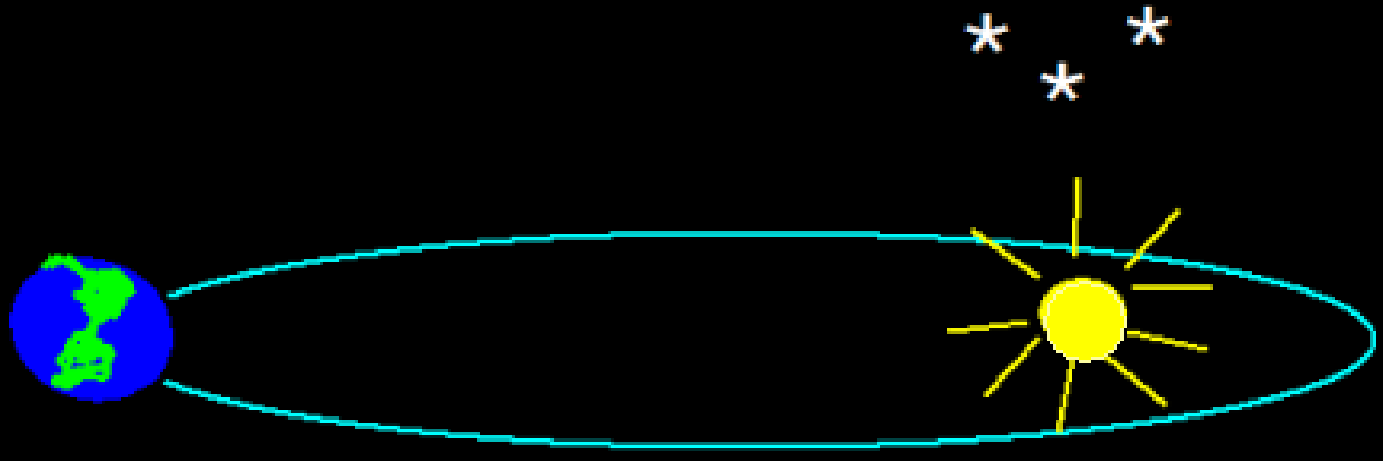


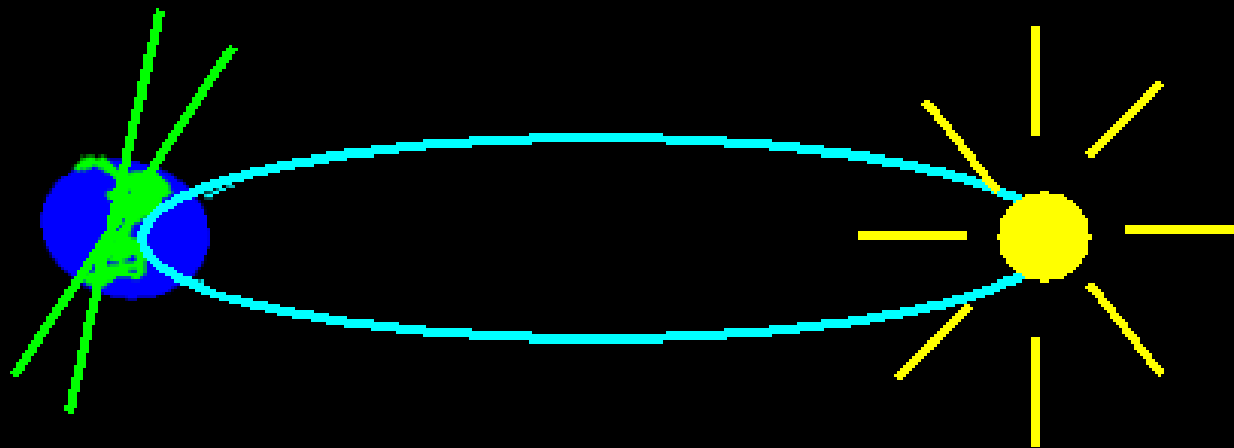
# The Nuclear Future in an Era of Climate Change

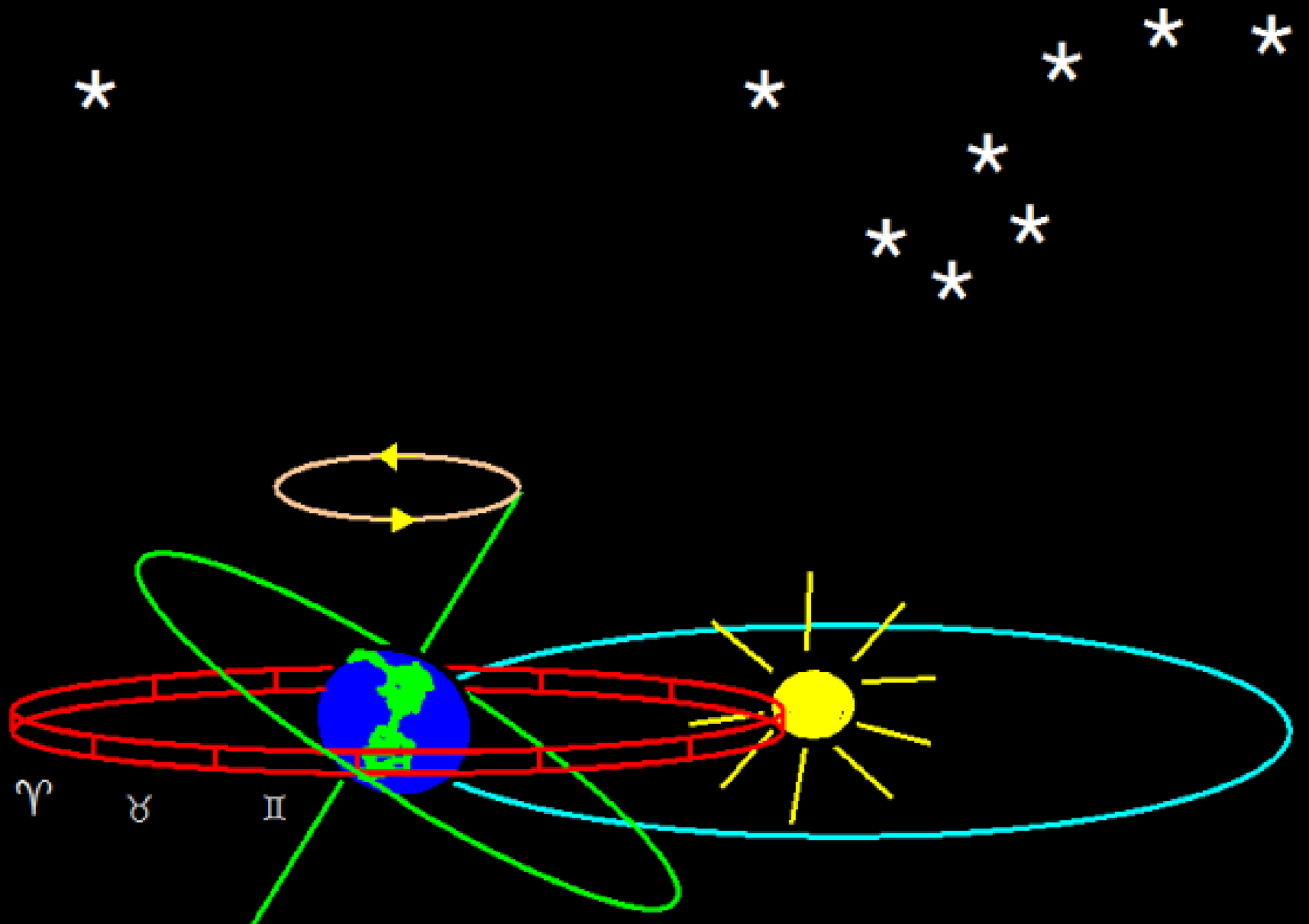
John Bird



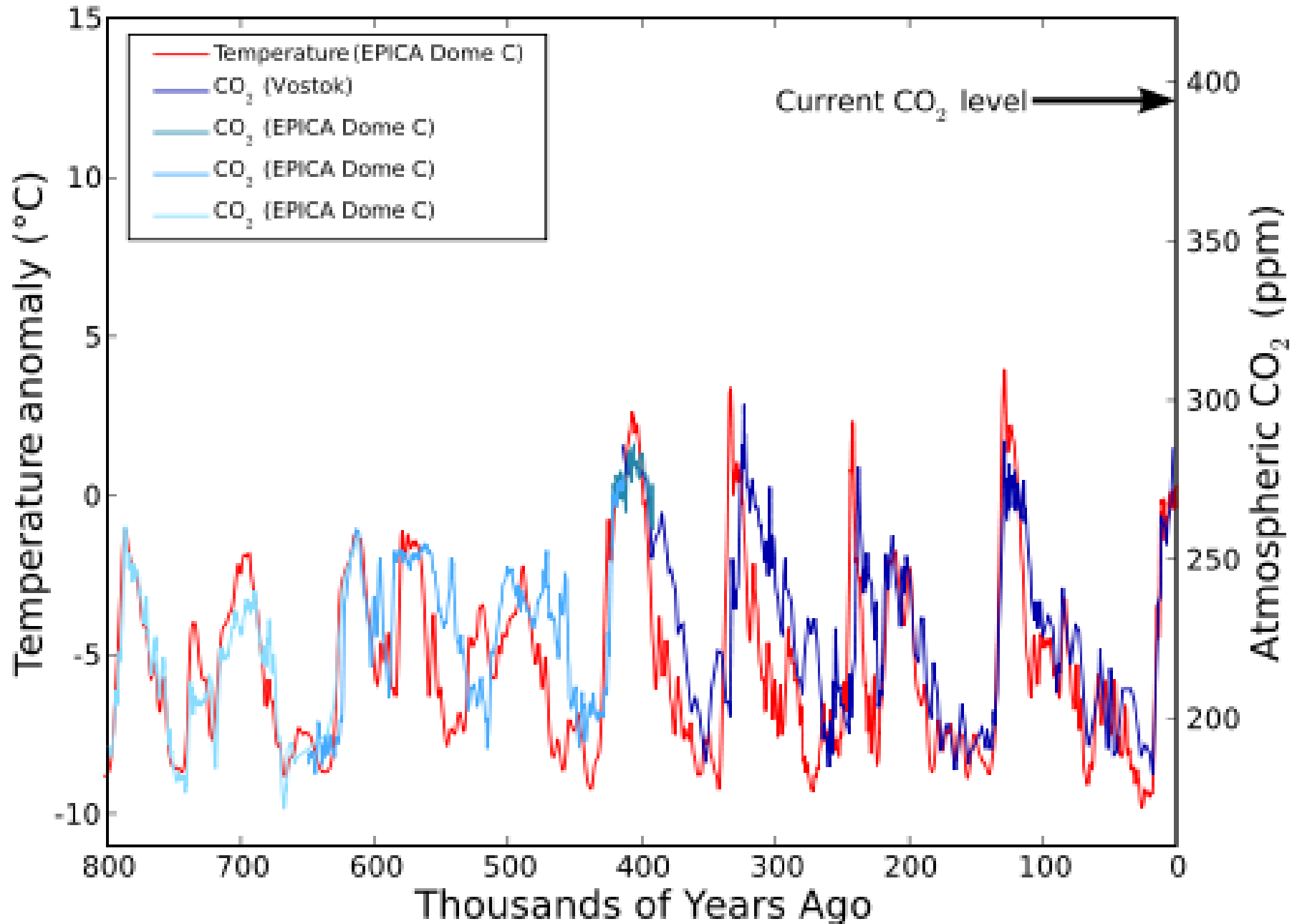


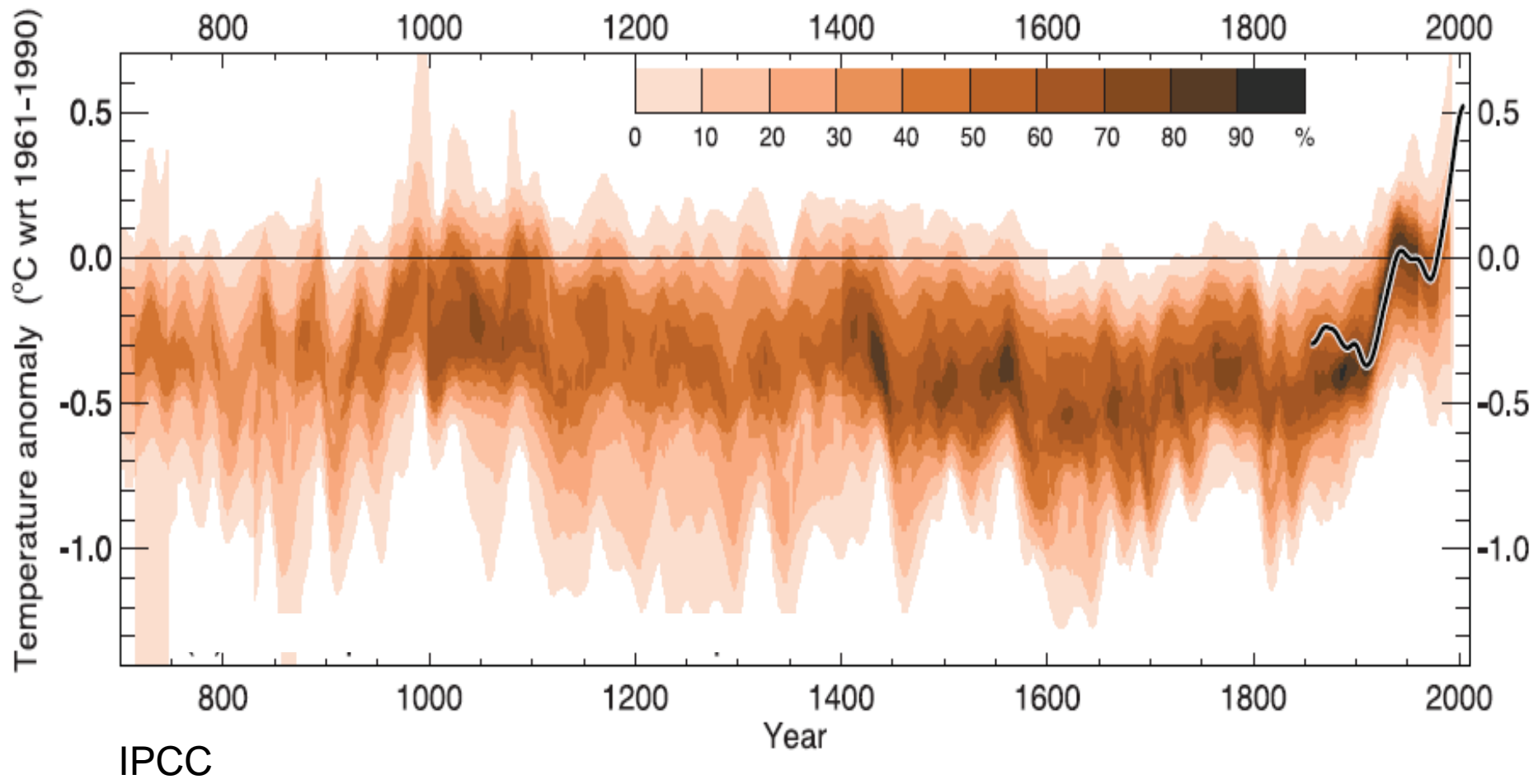






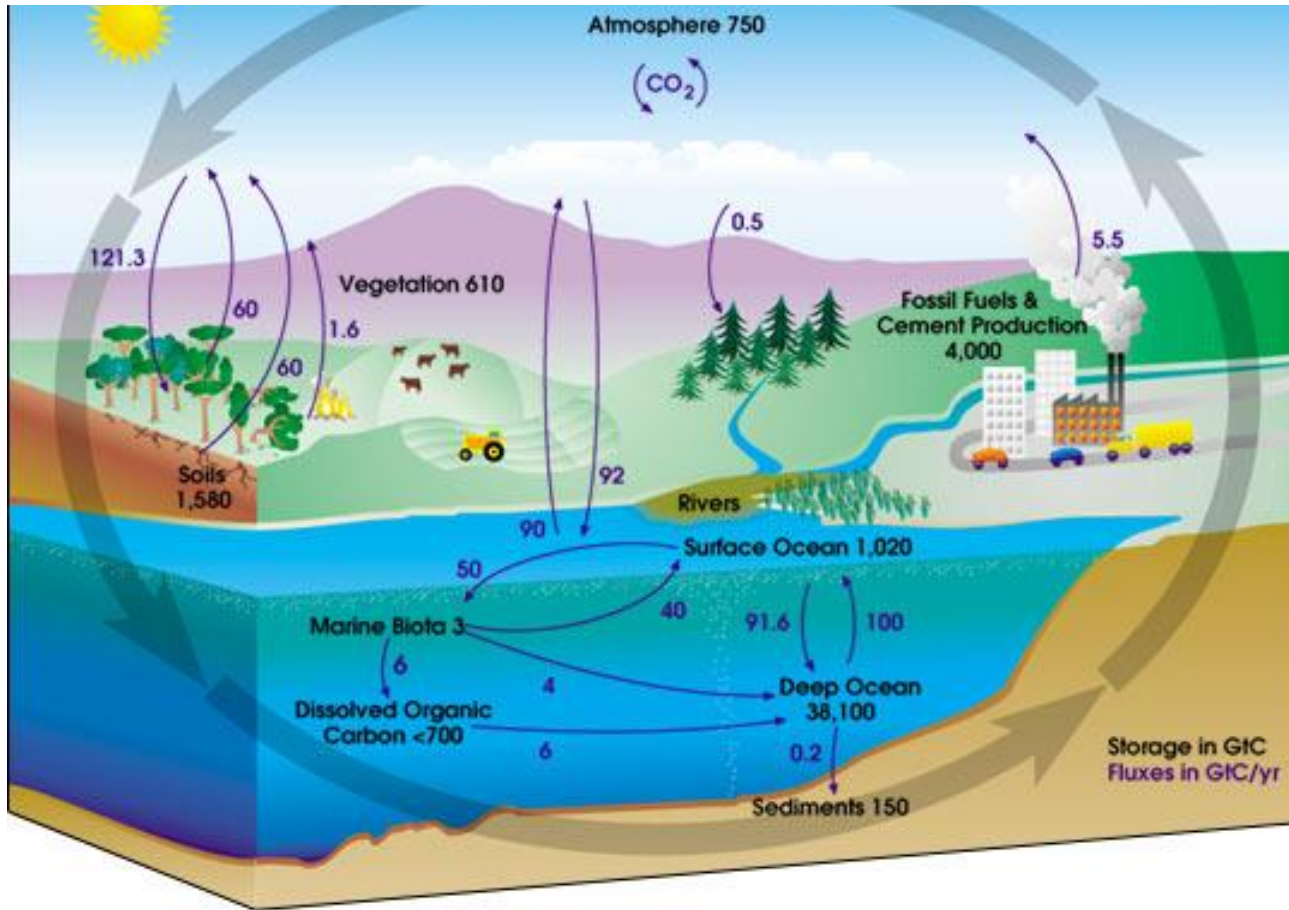
# Temperature and CO<sub>2</sub> Records



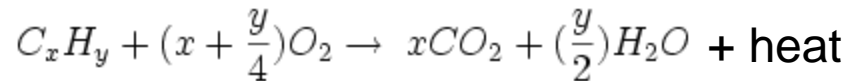




carbon dioxide + water + light energy  $\rightarrow$  glucose + oxygen + water



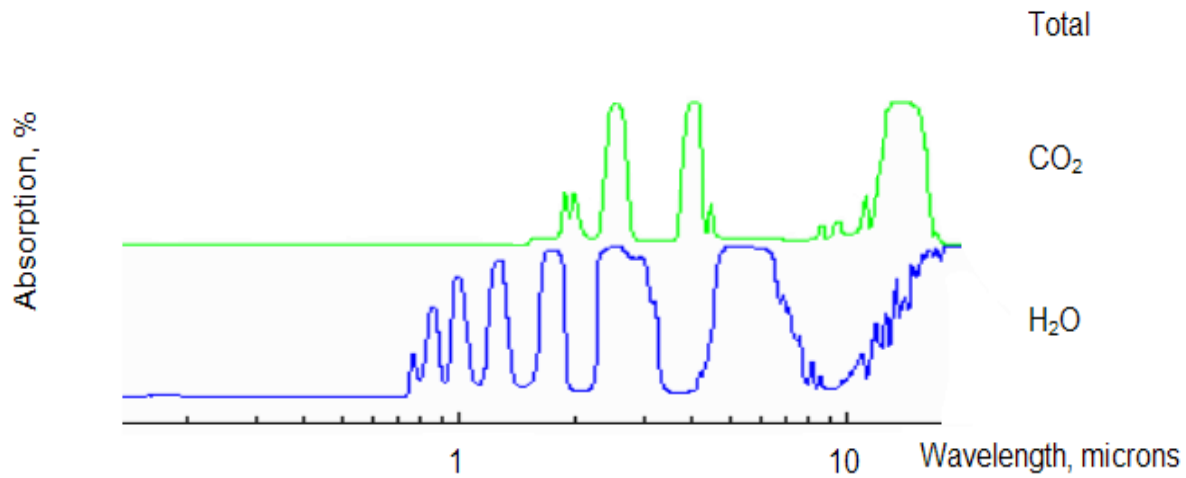
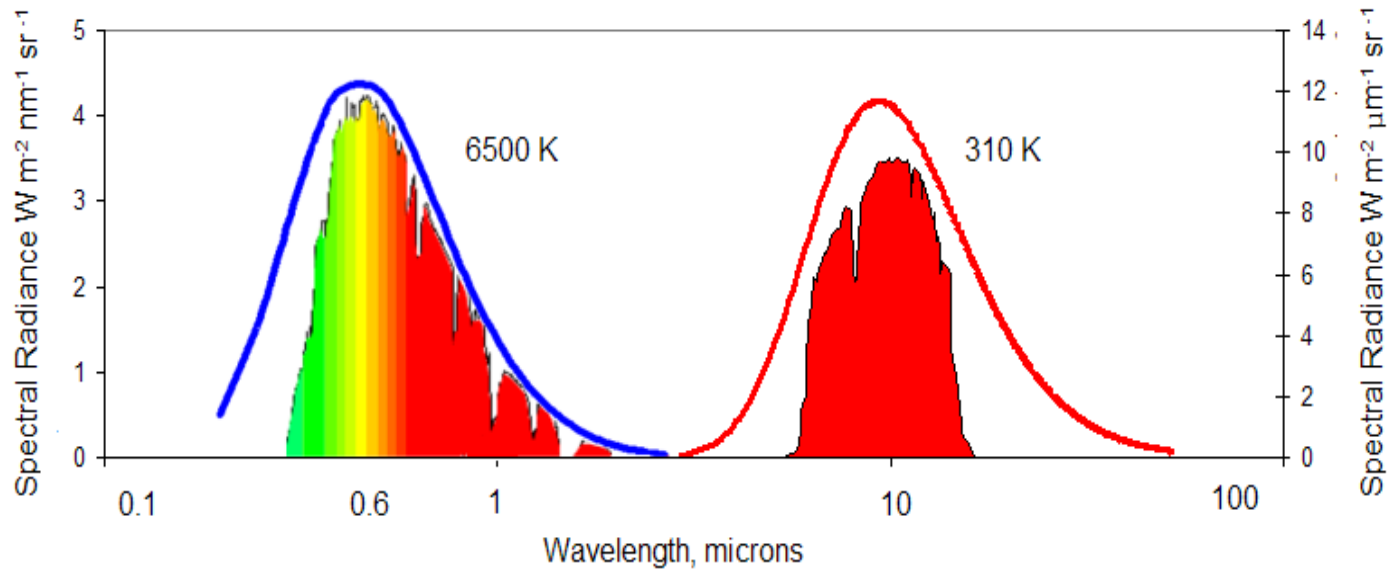
Combustion

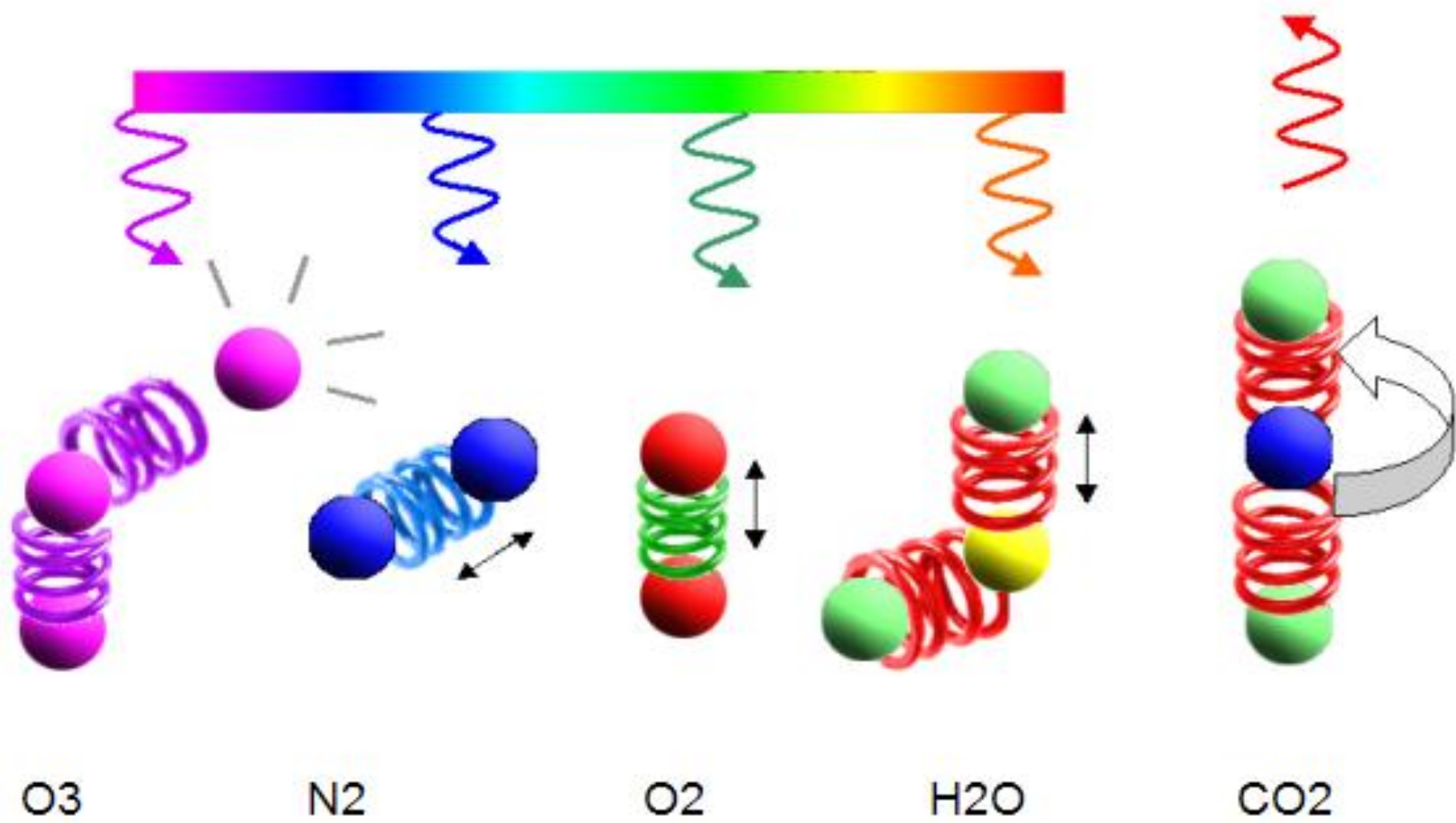


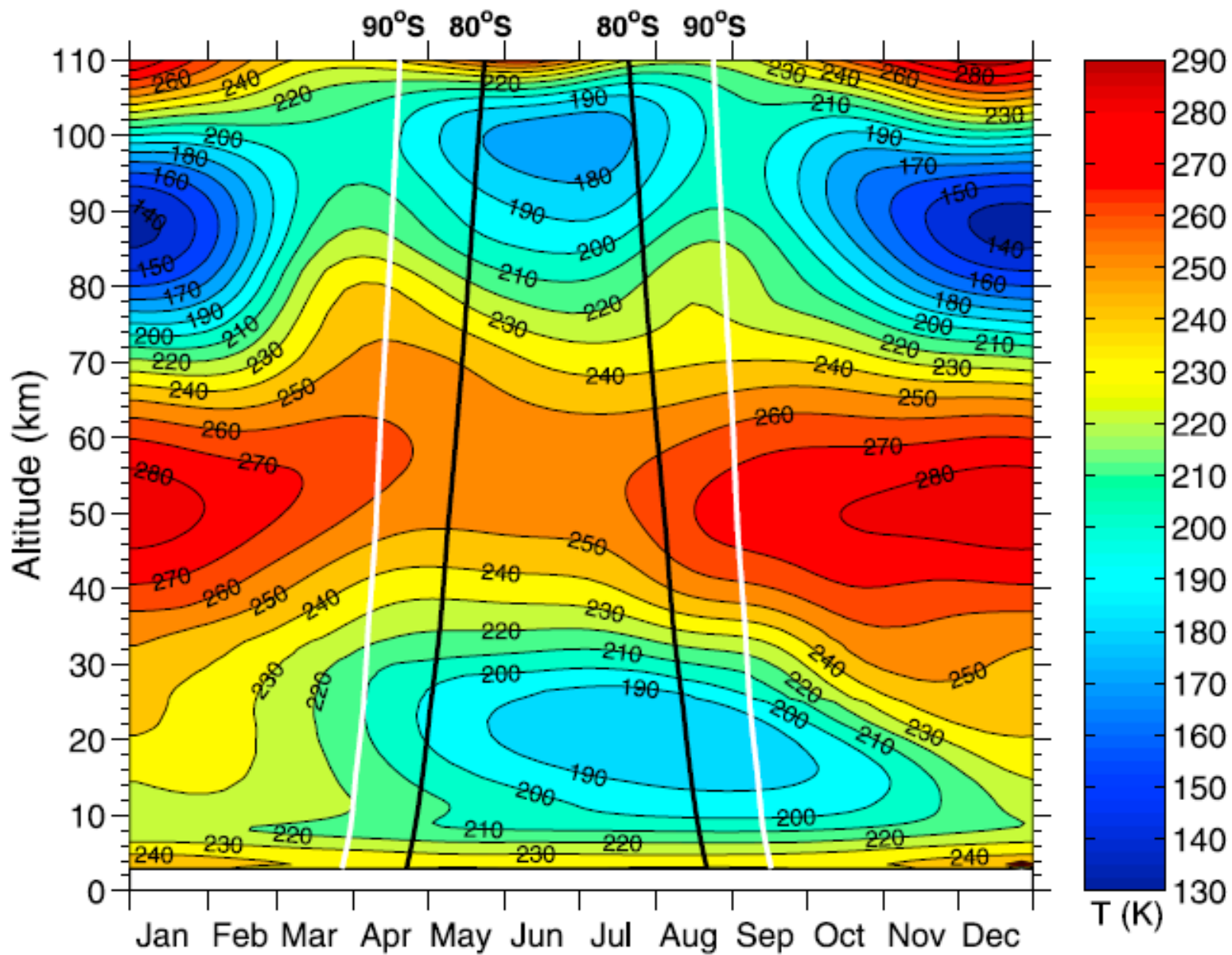
GHG

NASA



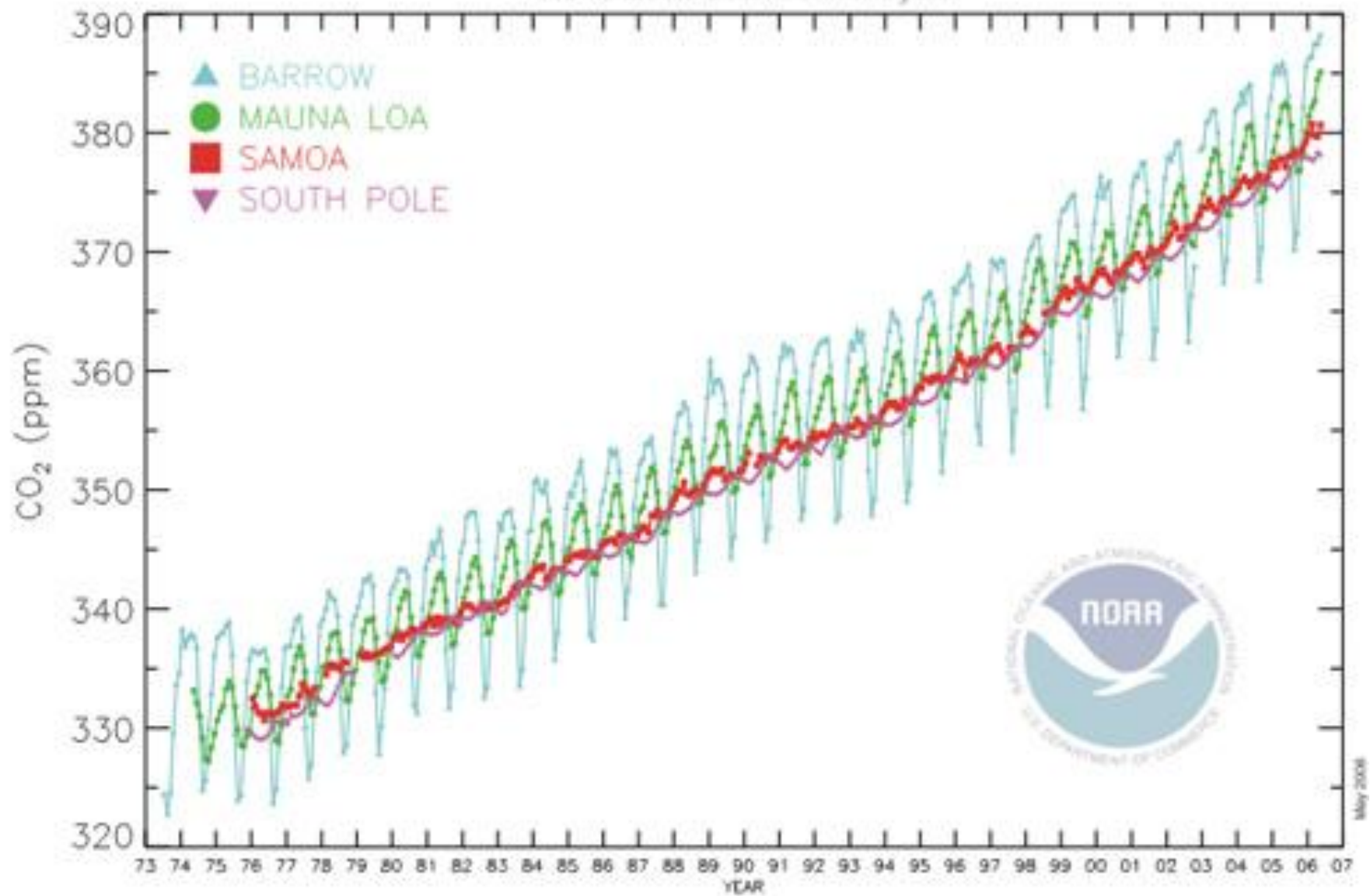






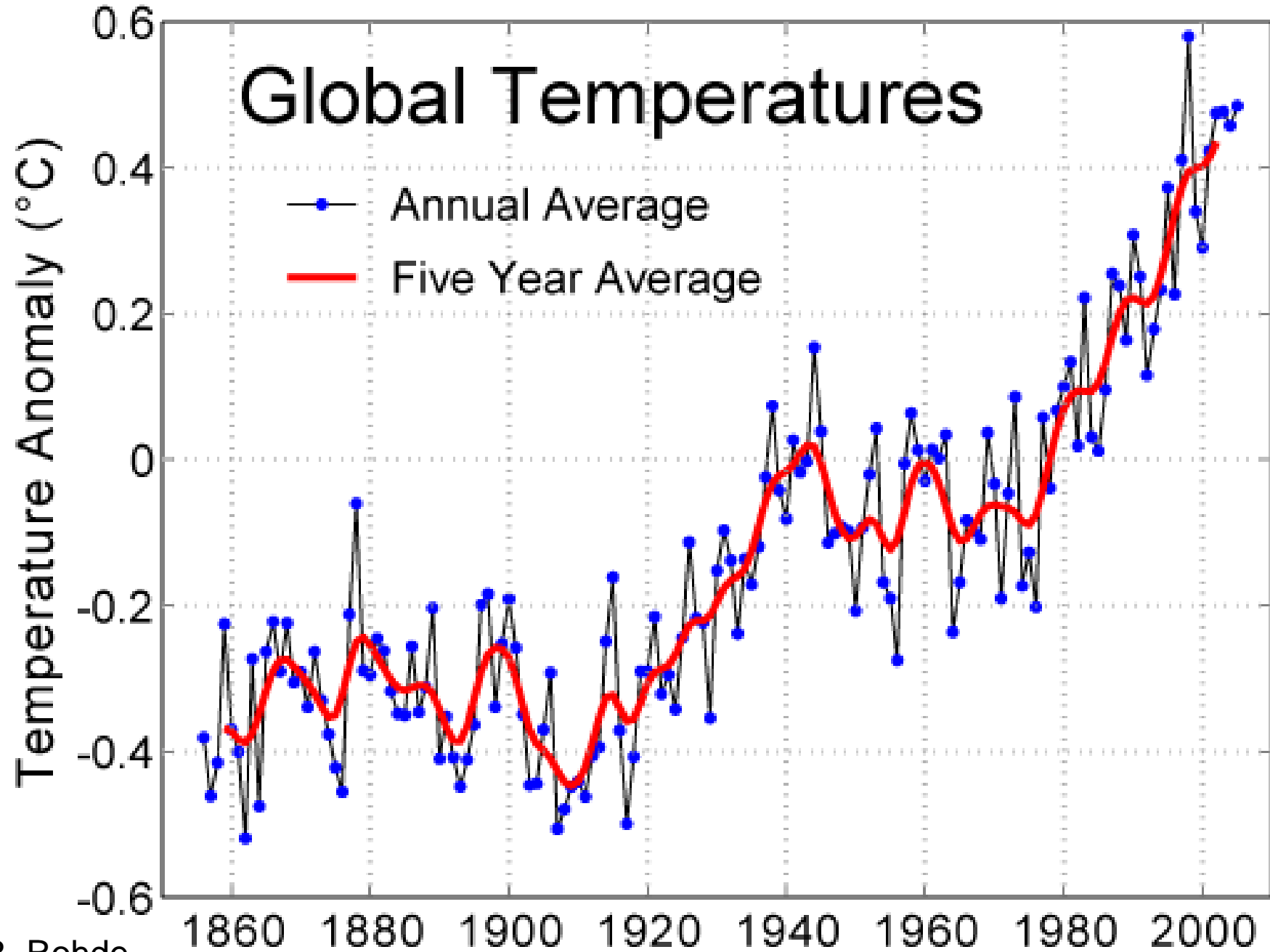
# Monthly Mean Carbon Dioxide

NOAA ESRL GMD Carbon Cycle



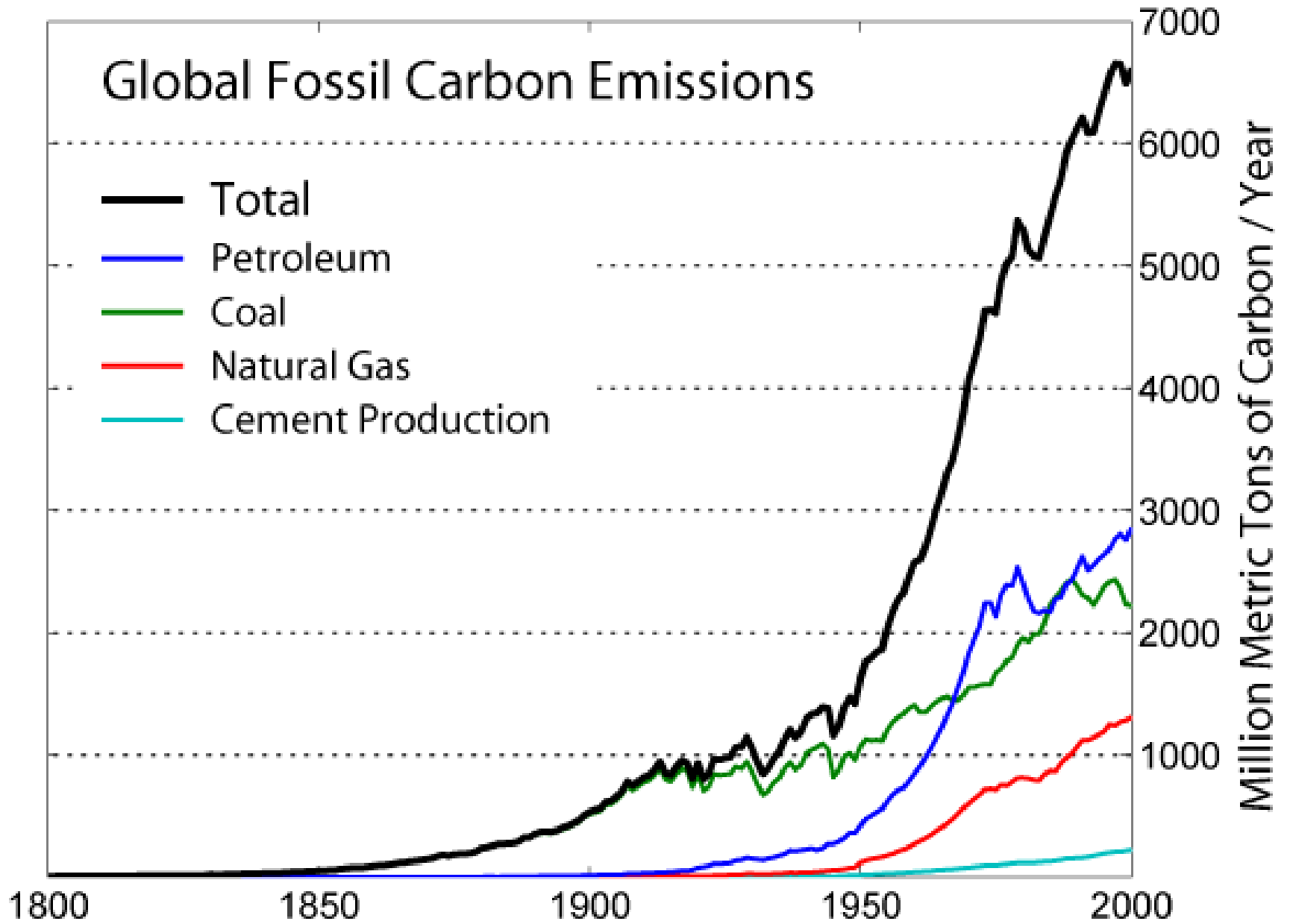
May 2008

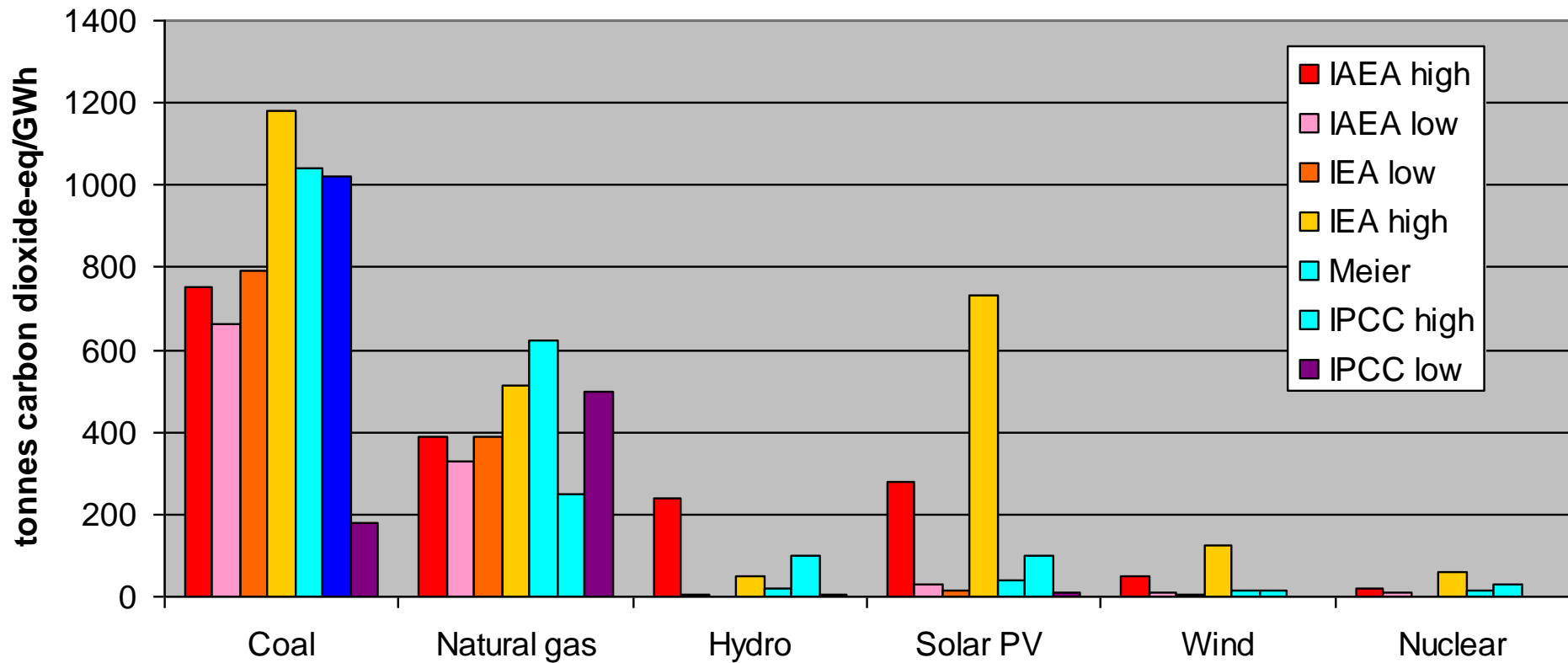
# Global Temperatures



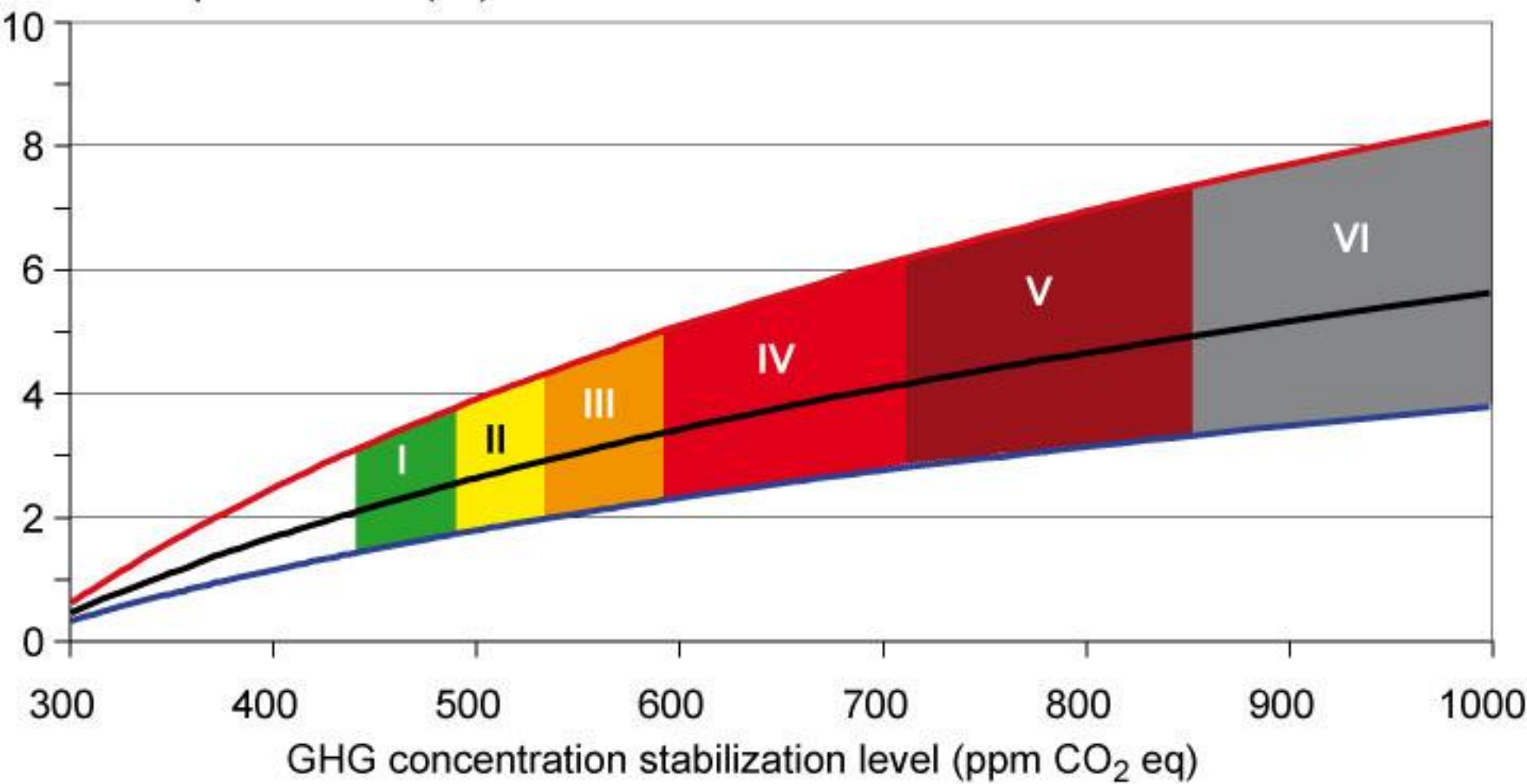
# Global Fossil Carbon Emissions

- Total
- Petroleum
- Coal
- Natural Gas
- Cement Production



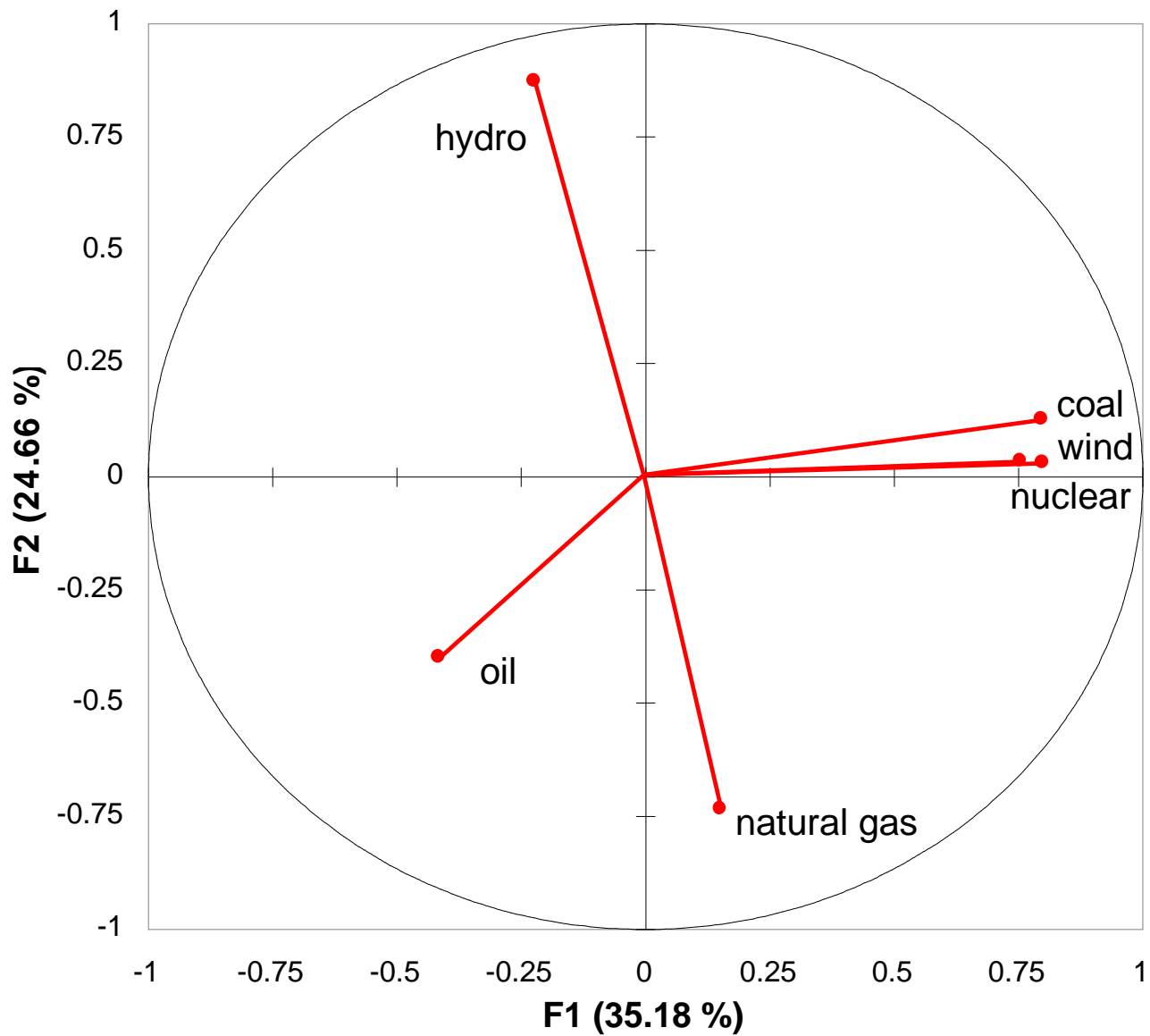


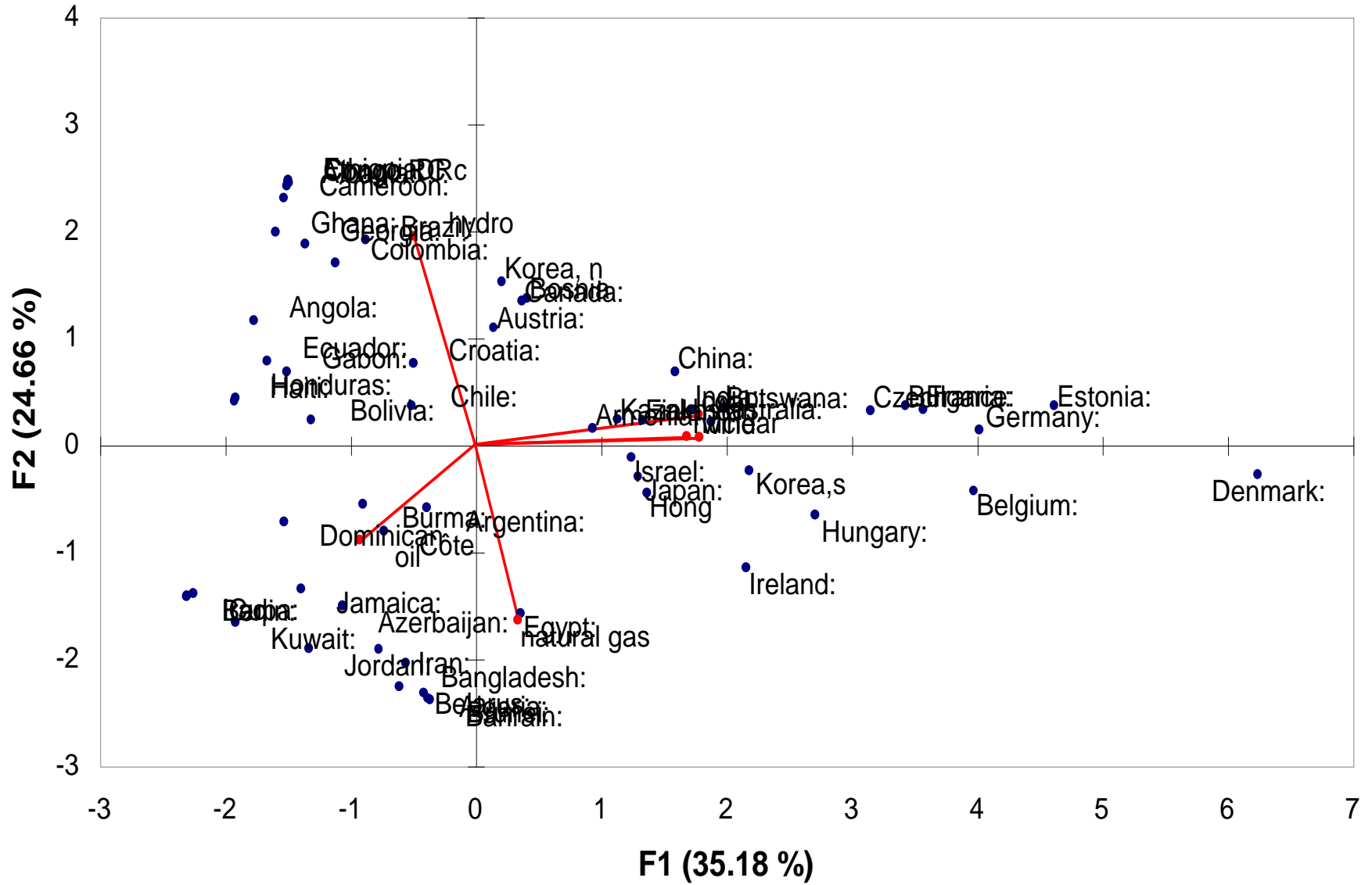
Equilibrium global mean temperature increase  
above preindustrial (°C)





### Variables (axes F1 and F2: 59.84 %)





	Nuclear	Coal	Oil	Natural Gas	Hydro	Wind	Emissions
Emissions, gCO <sub>2</sub> eq/kW-hr	14.0	1100.0	750.0	470.0	5.5	19.0	gCO <sub>2</sub> eq/kW-hr
United States	19.7%	48.2%	3.0%	21.4%	6.0%	1.2%	656.6
France	76.2	5.0	1.0	3.2	14.0	1.1	89.8
Germany	28.3	50.5	1.6	10.1	4.2	6.6	620.5
Canada	14.8	19.0	3.0	6.0	58.0	1.1	265.2
UK	13.5	34.0	1.2	40.6	0.9	2.0	576.1
Sweden	42.0	1.6	1.3	0.5	50.8	1.0	38.6
Spain	18.3	29.0	8.6	20.0	18.2	11.1	483.2
Belgium	53.8	13.6	2.0	25.5	0.6	5.0	293.0
Finland	22.0	27.5	0.7	14.9	18.7	0.2	381.9
South Africa	5.3	93.2	0.0	0.0	1.1	0.1	1026.2
Netherlands	3.8	26.0	2.8	60.6	0.1	2.9	592.9
Italy	0.0	17.4	15.7	44.2	18.4	1.4	518.2
Denmark	0.0	46.1	4.0	24.7	0.1	19.1	656.8
Australia	0.0	79.2	0.7	12.3	8.3	1.1	934.9
Ireland	0.0	30.6	12.7	51.1	2.3	6.9	673.5

