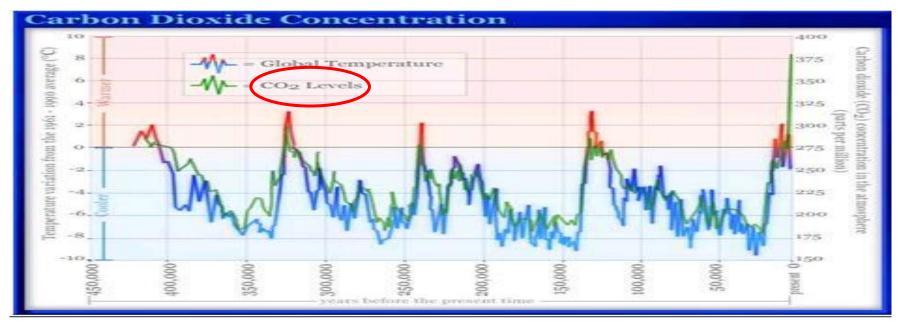
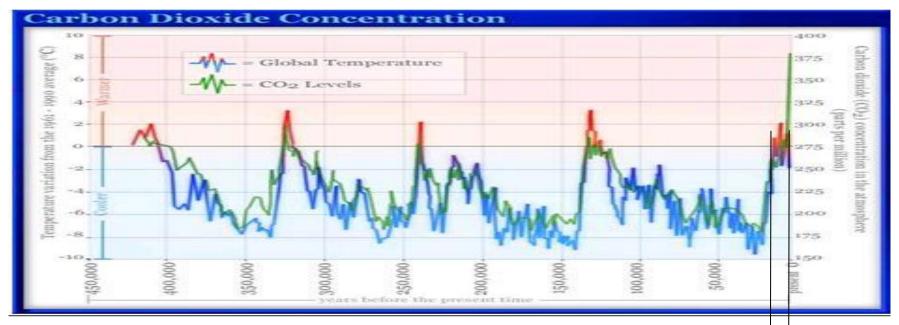
- correlation with average atmospheric temperature

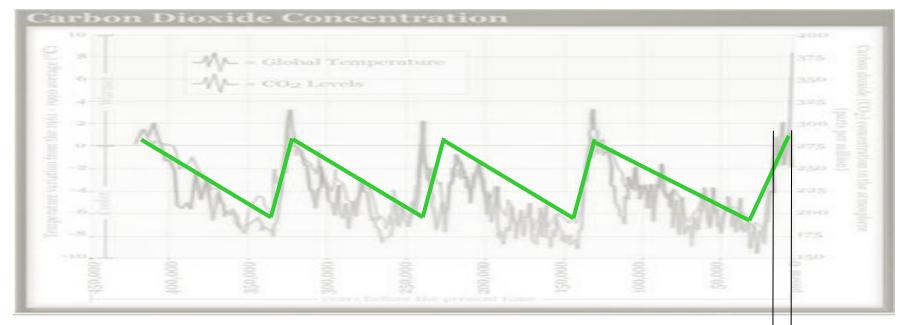


Source: Data adopted from National Oceanic & Atmospheric Administration <a href="http://www.noaa.gov/">http://www.noaa.gov/</a> Accessed at: <a href="http://www.seed.slb.com/en/scictr/watch/climate\_change/causes\_co2.htm">http://www.seed.slb.com/en/scictr/watch/climate\_change/causes\_co2.htm</a>



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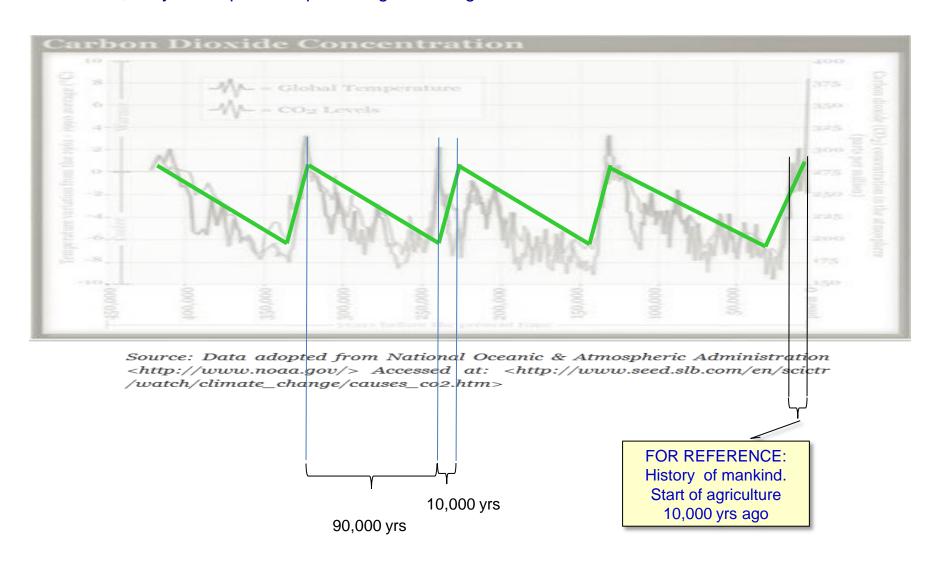
FOR REFERENCE: History of mankind. Start of agriculture 10,000 yrs ago



Source: Data adopted from National Oceanic & Atmospheric Administration <a href="http://www.noaa.gov/">http://www.noaa.gov/</a> Accessed at: <a href="http://www.seed.slb.com/en/scictr/watch/climate\_change/causes\_co2.htm">http://www.seed.slb.com/en/scictr/watch/climate\_change/causes\_co2.htm</a>

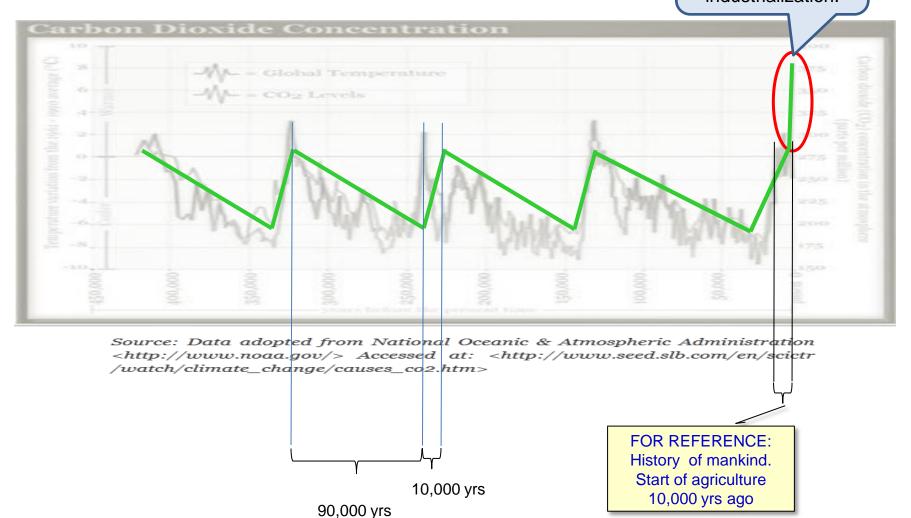
FOR REFERENCE: History of mankind. Start of agriculture 10,000 yrs ago

- 100,000 year sequence repeated again and again



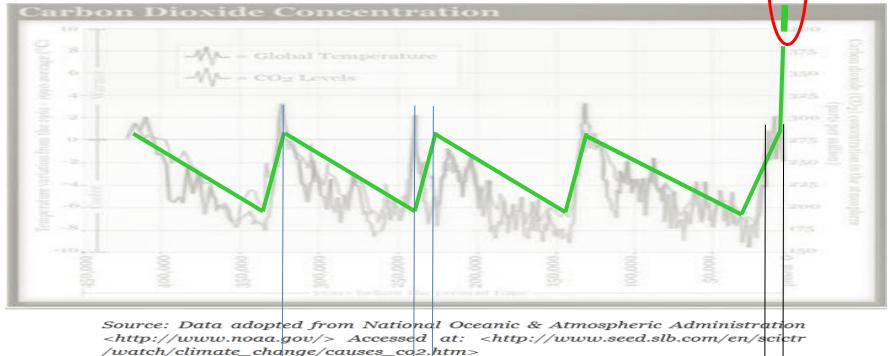
- dramatic deviation from repeated pattern

Latest 150 yrs. Clear link to industrialization.





Expected next 50 yrs.



FOR REFERENCE:
History of mankind.
Start of agriculture
10,000 yrs
90,000 yrs

# Effects of global warming

- a major shift of the World as we know it

Even "only" 2 degrees increase leads to major exstinction

	+2 degrees	+4 degrees
Eco systems in general: Portion of known species becoming extinct	20-30%	40 – 70 %
Corral reefs	Most corral reefs bleeched	Wide spread corral mortality
Rising seawater level	<ul><li>Coastal cities drowned</li><li>Decreased fresh water availability (salt water intrusion)</li></ul>	<ul><li>Same to larger extent</li><li>Same to larger extent</li></ul>
Food: Crop productivity	<ul> <li>Low latitude (e.g. Mediterranean): Decrease for some cereal.</li> <li>Mid to high latitude: Increase for some cereal.</li> </ul>	<ul> <li>Low latitude:     Decrease for all cereal.</li> <li>Mid to high latitude:     SuDecrease in some regions.</li> </ul>

Source: UNEP report "Climate in Peril, A popular guide to the latest IPCC reports" 2009