

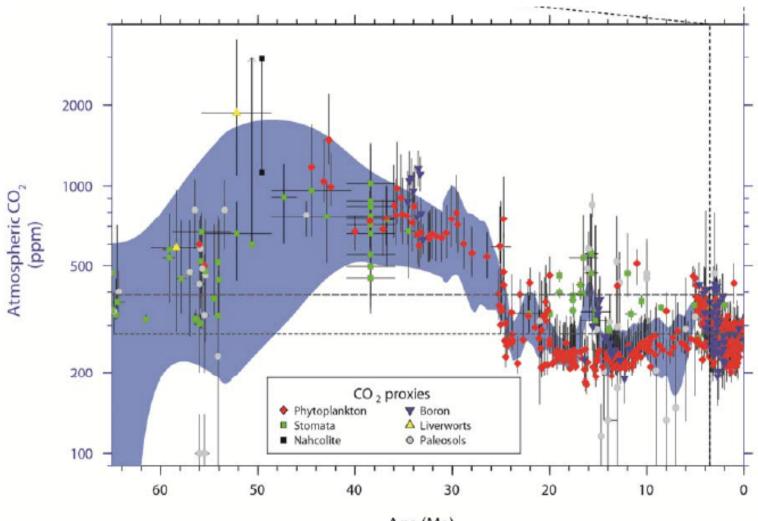
# **Intercontinental Academia**

## The Time Scales of Climate and Climate Change São Paulo, 22 April 2015

### Luiz Gylvan Meira Filho

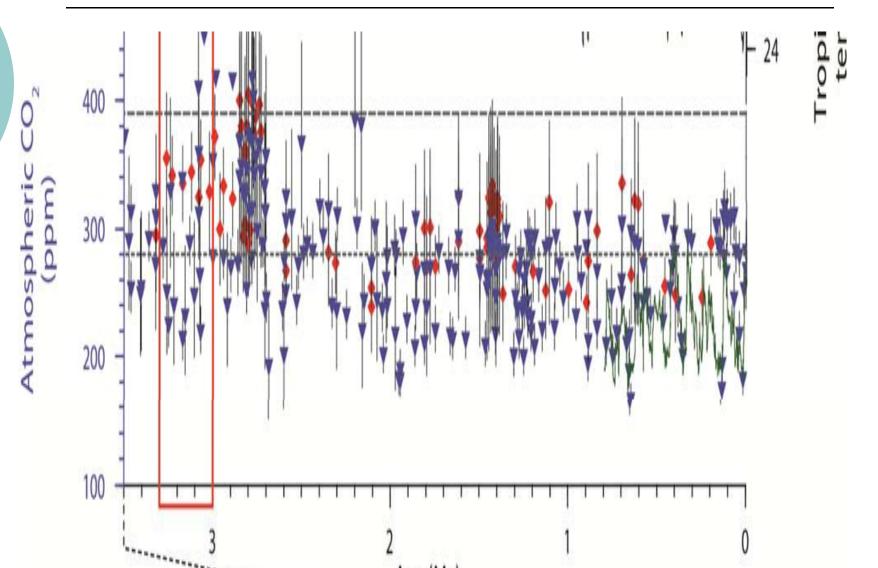
Visiting Researcher, Institute of Advanced Research of USP Senior Researcher, Vale Institute of Technology



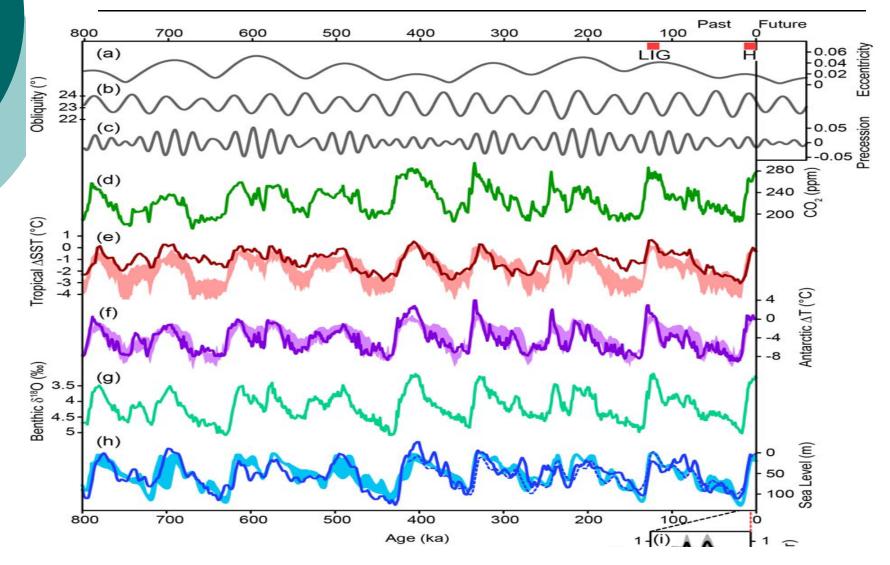


Age (Ma)

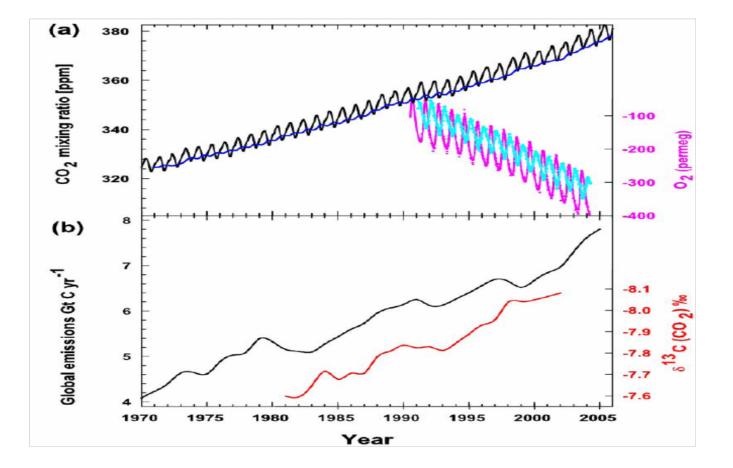




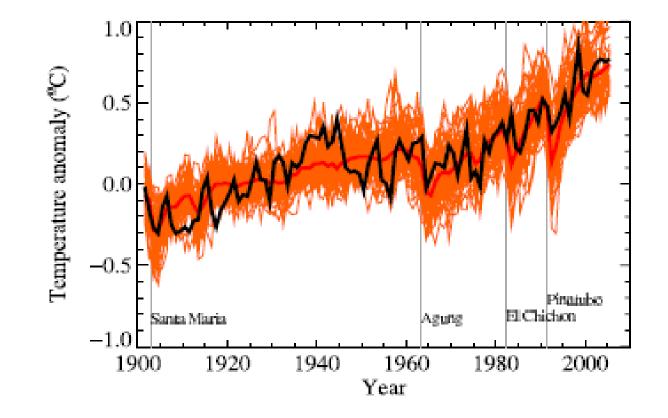




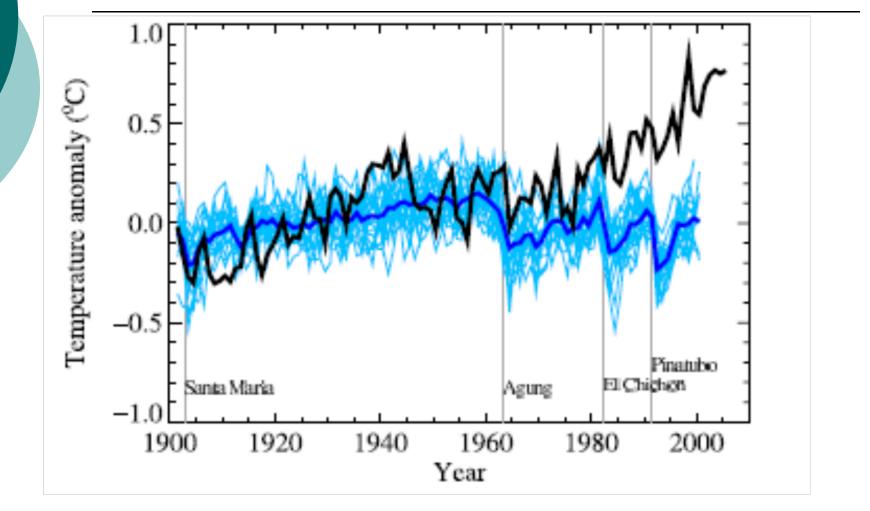




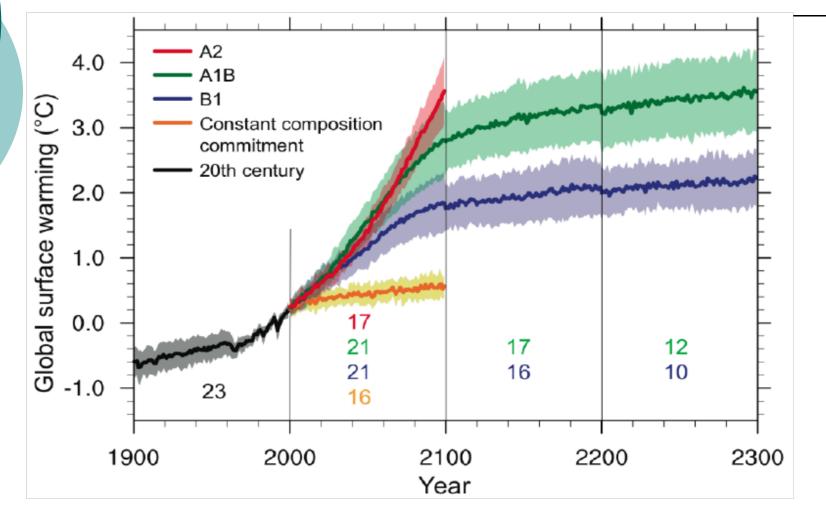


















- NATURE | Vol 455 | 9 October 2008
- ESSAY
- MEETINGS THAT CHANGED THE WORLD OPINION
- MADRID 1995: Diagnosing Climate Change



#### Máximo efeito sobre o clima ocorre décadas após a emissão

15% do gás carbônico permanece na atmosfera por mais de mil anos

100 80 (% do aumento) Temperatura 60 dióxido de carbono 40 metano 20 óxido nitroso 0 150 50 100 200 0 Anos após emissão



Illustrations from the IPCC Fifth Assessment Report, 2014, Working Group I – The Science Basis.

○ www.ipcc.ch

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# THANK YOU