

Cédric Ringenbach

Les pionniers de la science du climat



James Hansen, 1988



Devant le Sénat américain

1990



Premier rapport du GIEC

1992

Sommet de la Terre
à Rio et création
de la CCNUCC

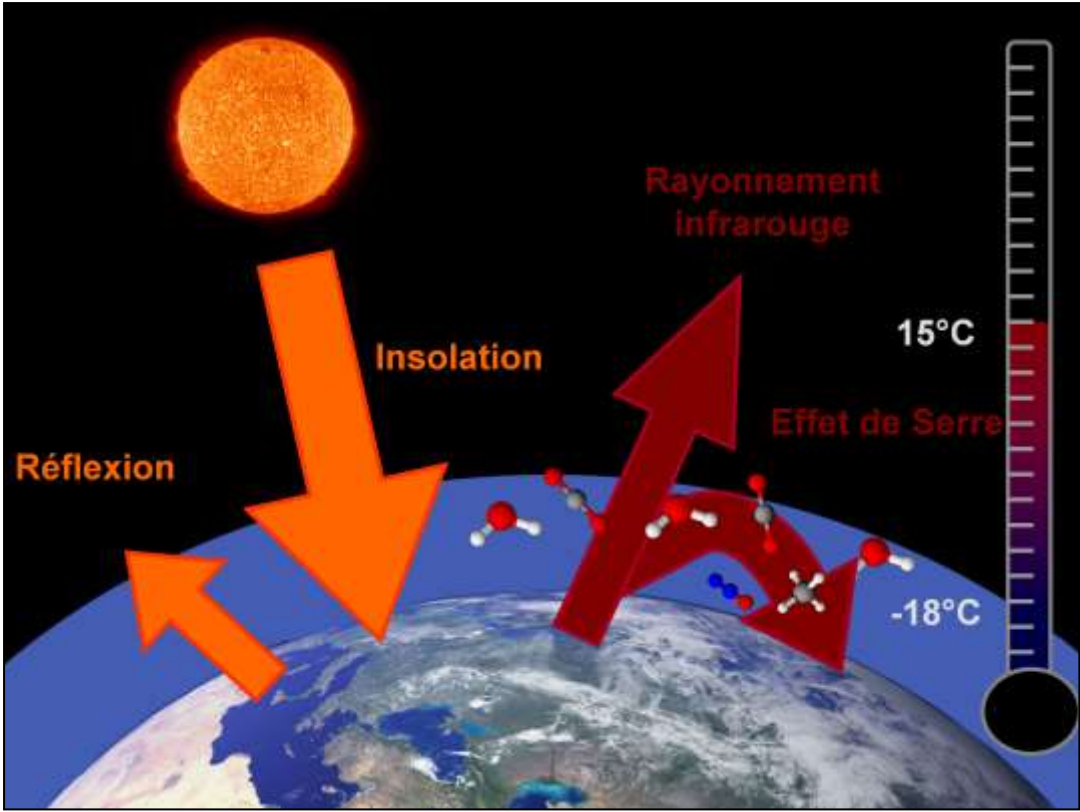
2015

Accord de Paris

James Hansen, 1988



XIXe siècle





Joseph Fourier

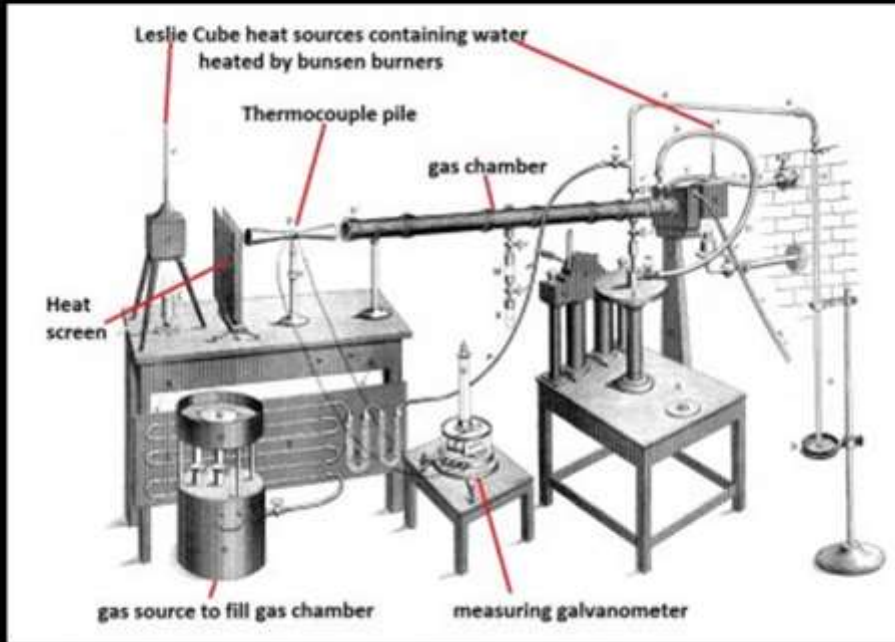


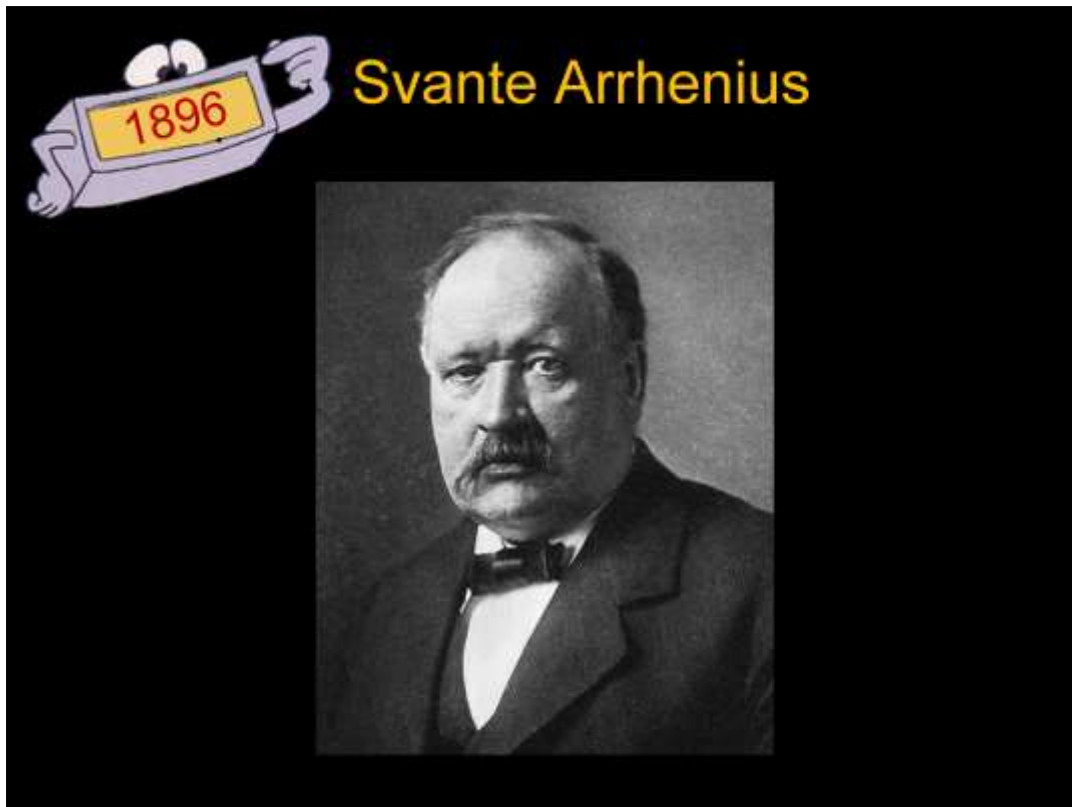


John Tyndall



John Tyndall's experimentation





dissociation électrolytique



Charles Keeling



Charles Keeling



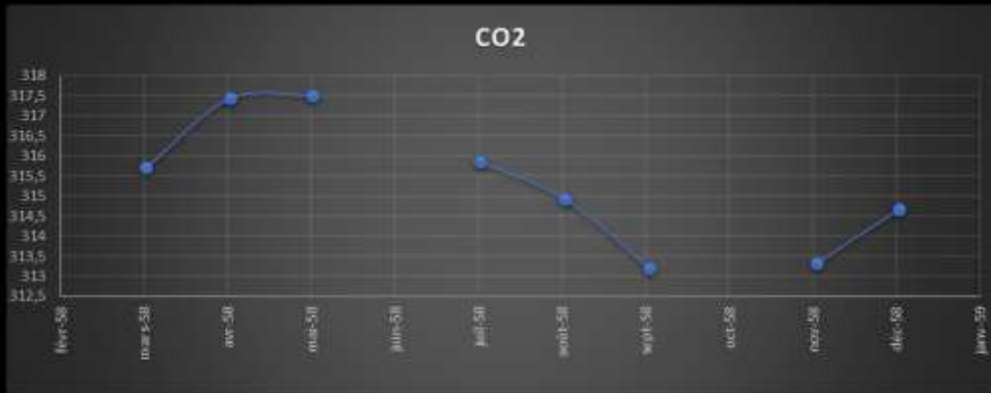




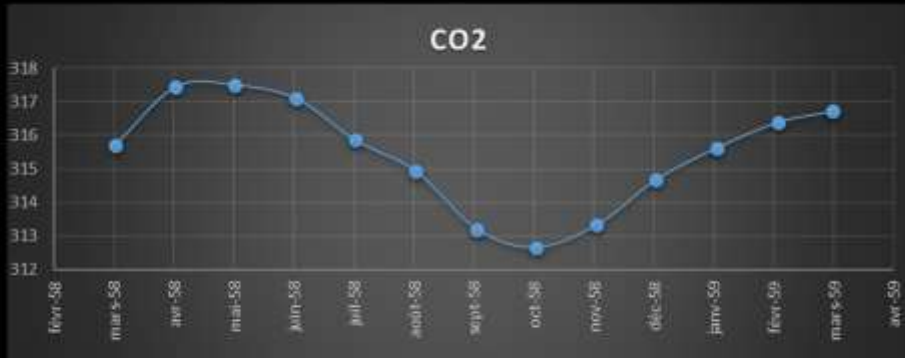
Charles Keeling



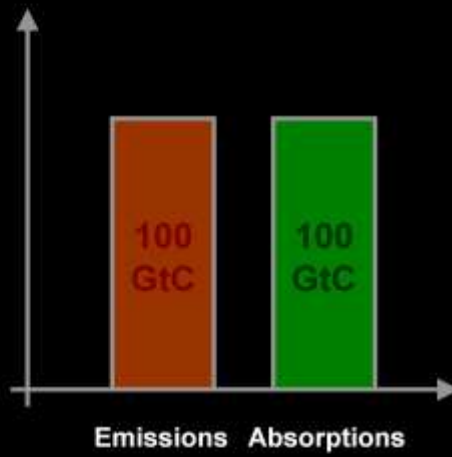
Mauna Loa Curve



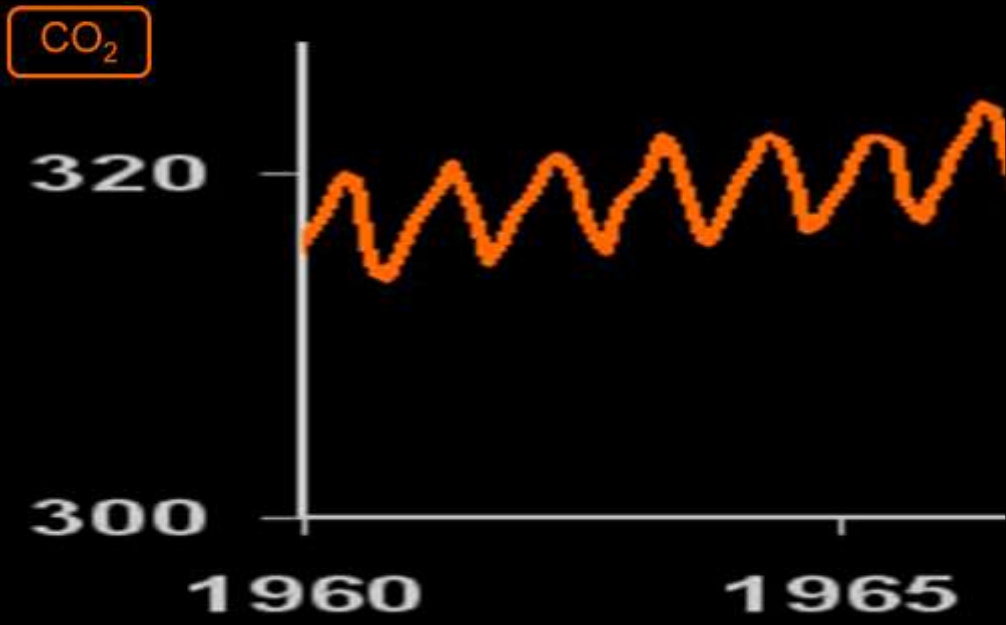
Mauna Loa Curve



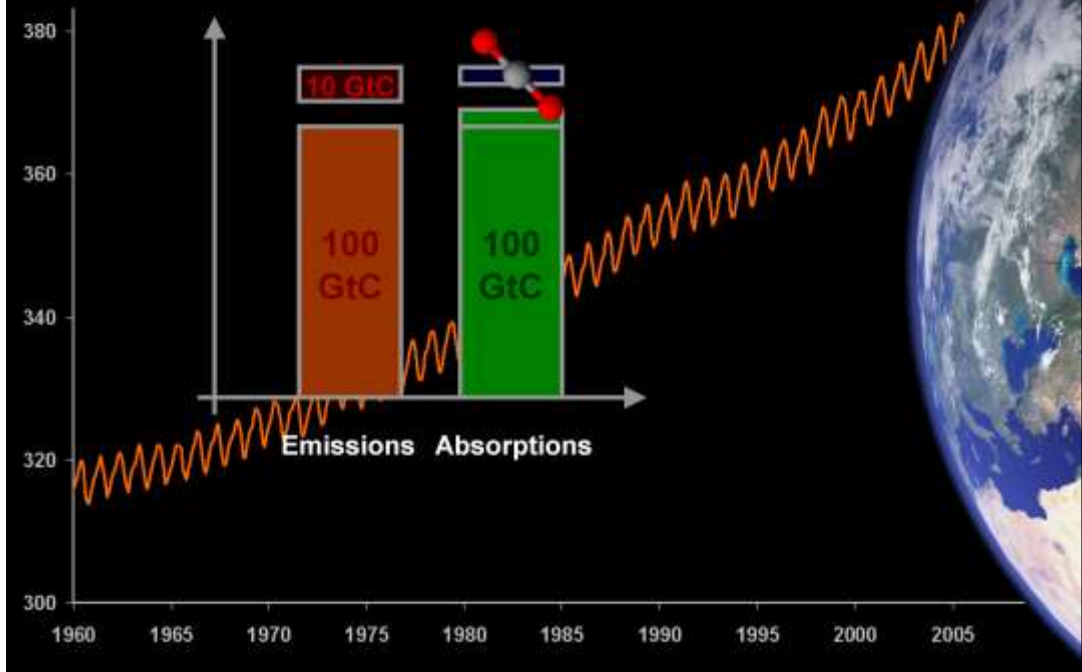
Emissions naturelles et anthropiques



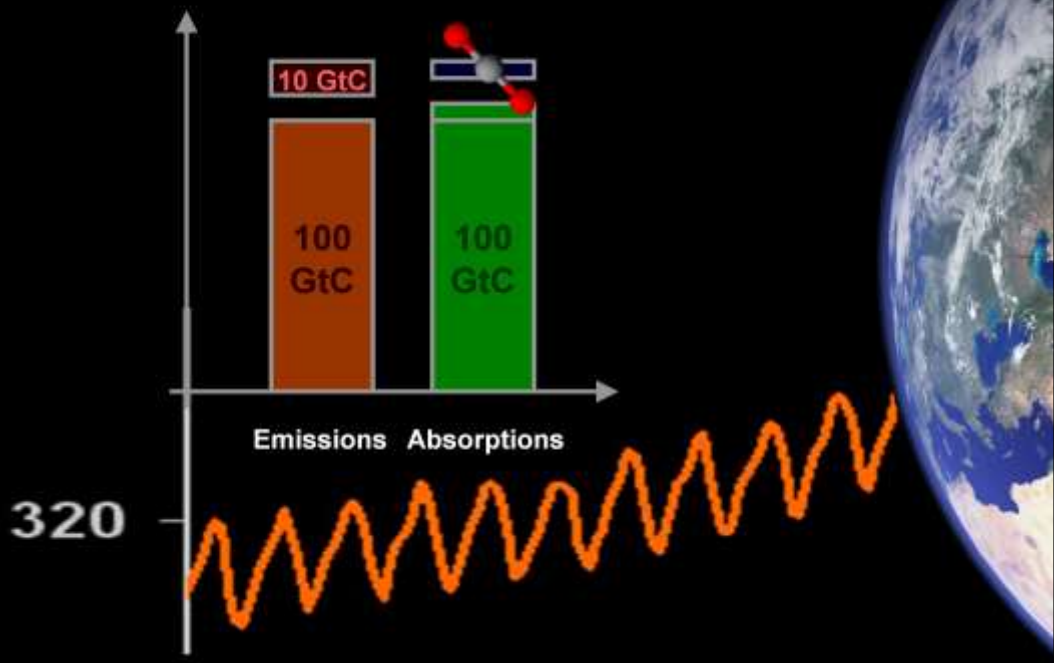
Mesures du CO₂ à Mauna Loa



Emissions naturelles et anthropiques



Emissions naturelles et anthropiques



Charles Keeling





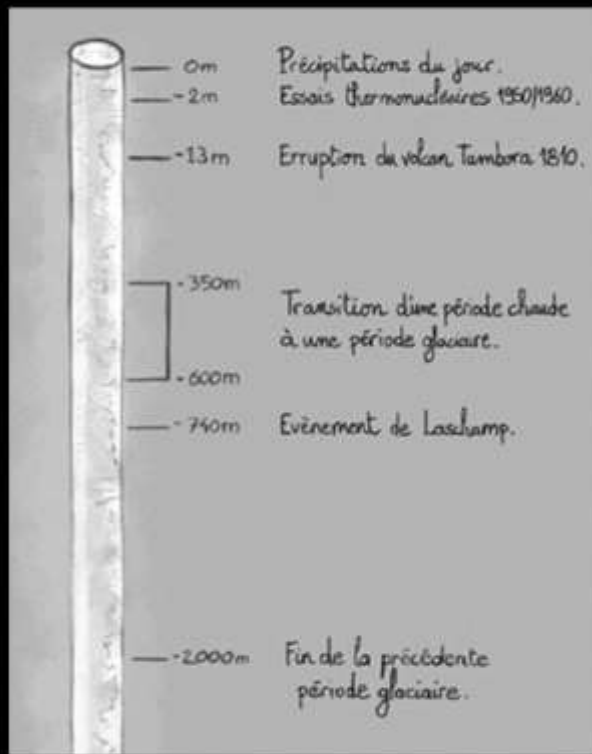
57 : Charcot

58 : service militaire retour Paris, deuterium, thermometre isotopique

Re-espédition. C'est lui le chef. On fait des trous.

Archives glaciaires







655m, cristaux : période glaciaire.

+ 15 jours : 892m de profondeur. Stop: le matériel pas adapté. Fin de la mission. Pour le moment....

40.000 ans

Archives glaciaires



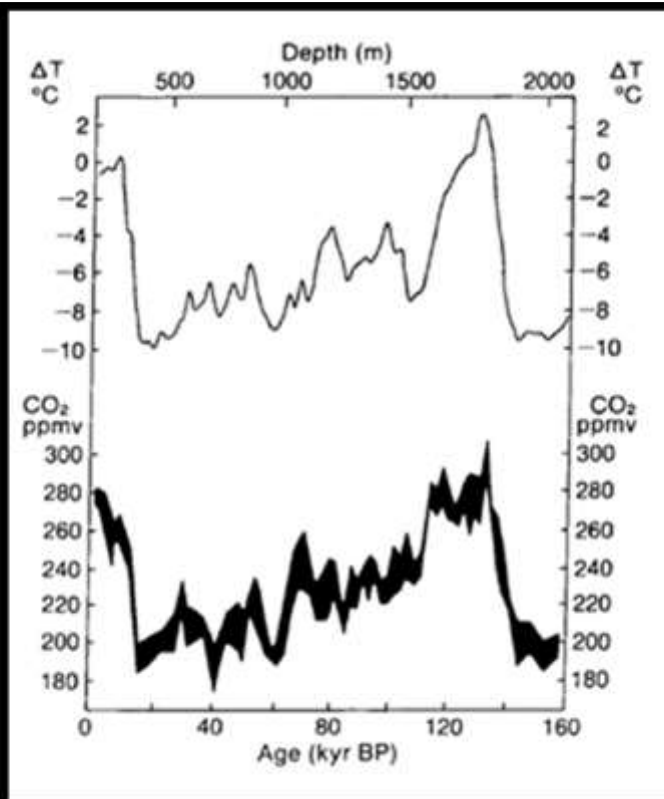
Intuition



Base de Vostok



A. EKAIKIN





Chaire de mathématiques appliquées à l'université de Belgrade (Serbie).

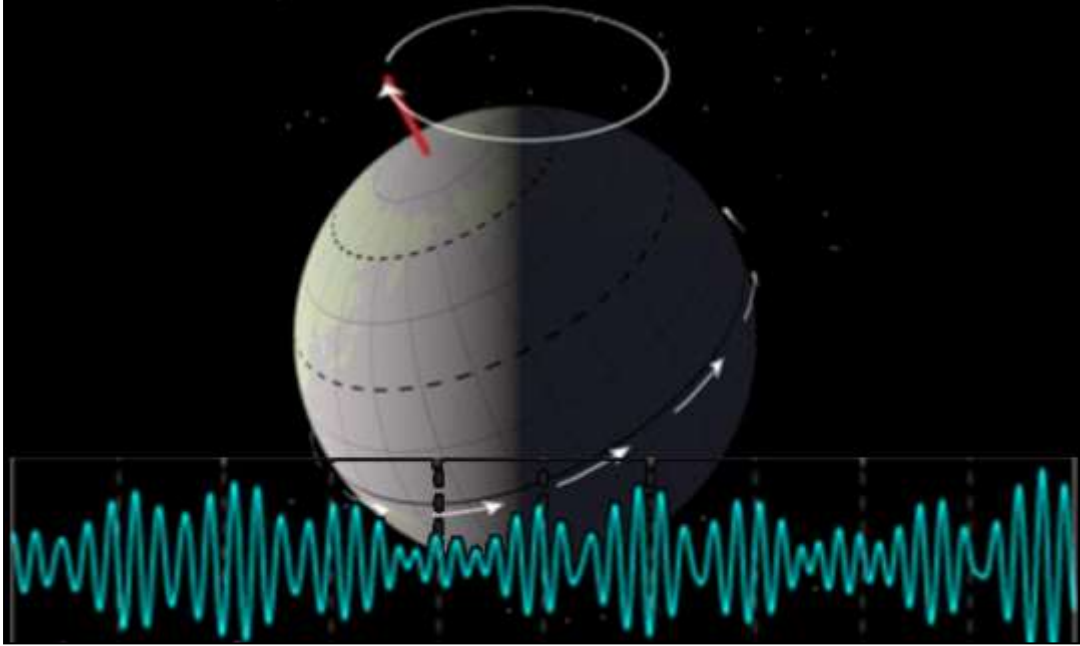
Logique, de mécanique céleste, et de physique théorique.

Voyage de noce en Autriche-Hongrie

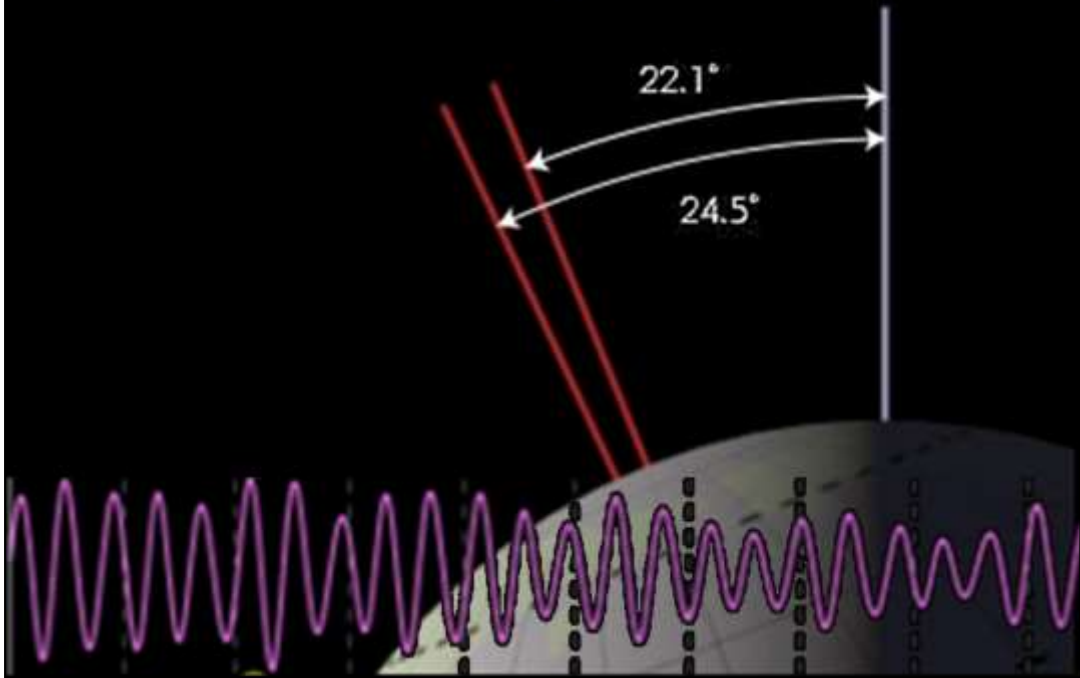
directeur de la bibliothèque de l'Académie des Sciences de Budapest, un mathématicien

l'Institut Central de... devinez quoi ! l'Institut Central Météorologie.

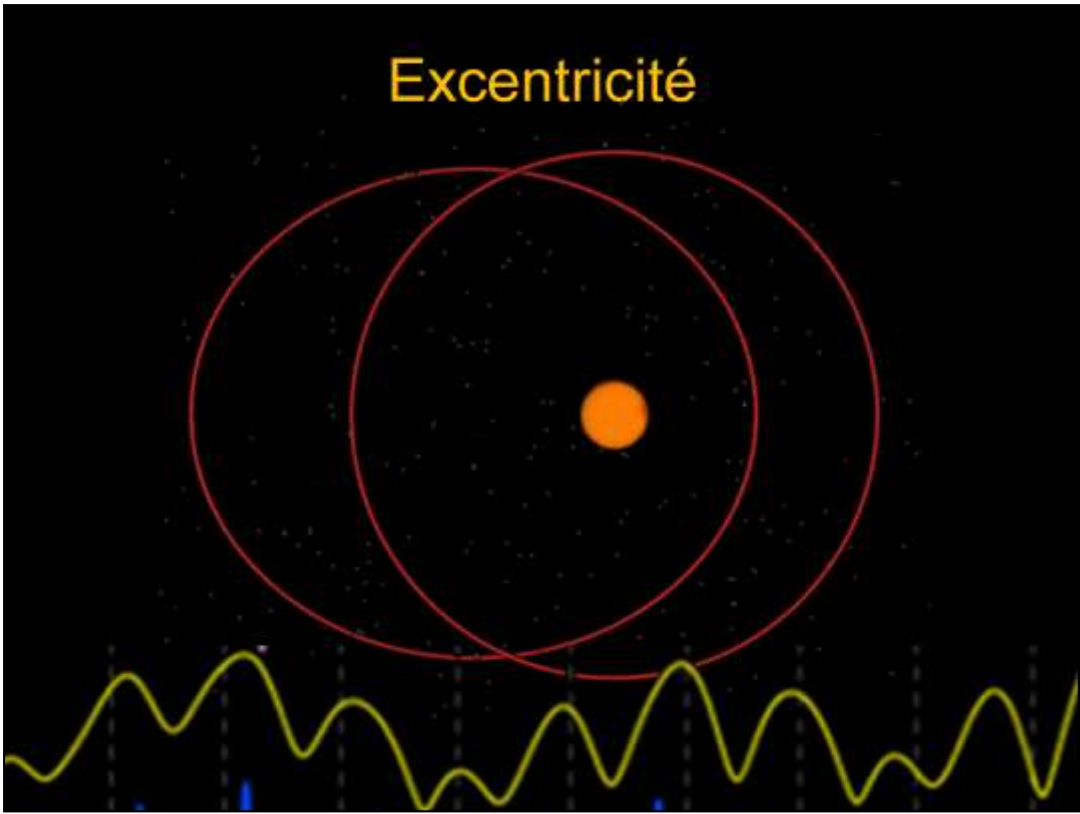
Précession



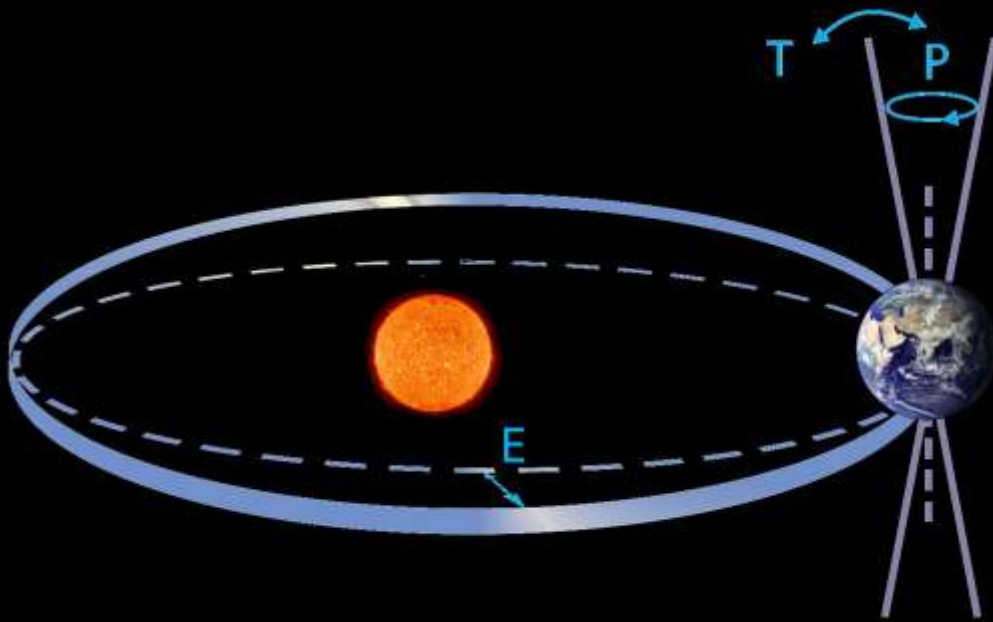
Obliquité



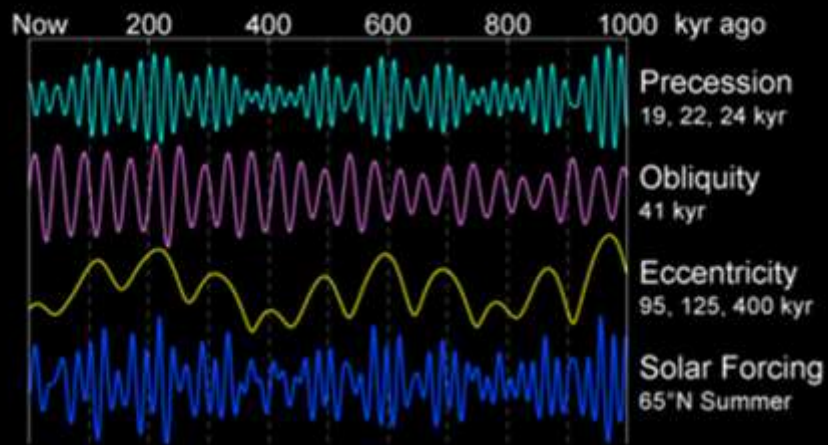
Excentricité



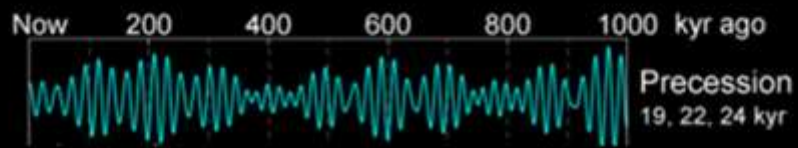
Les cycles de Milankovitch



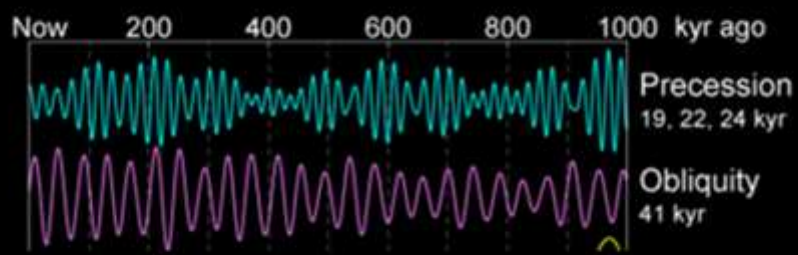
Cycles de Milankovitch (1924)



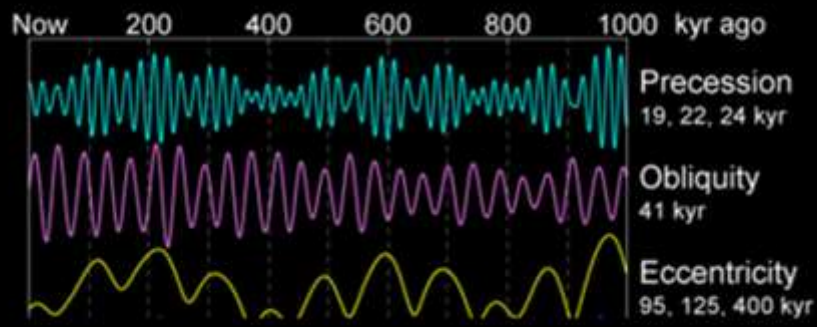
Cycles de Milankovitch (1924)



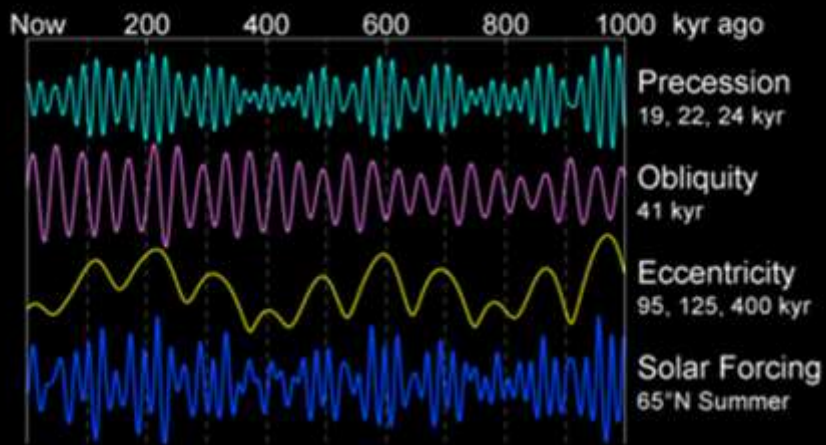
Cycles de Milankovitch (1924)



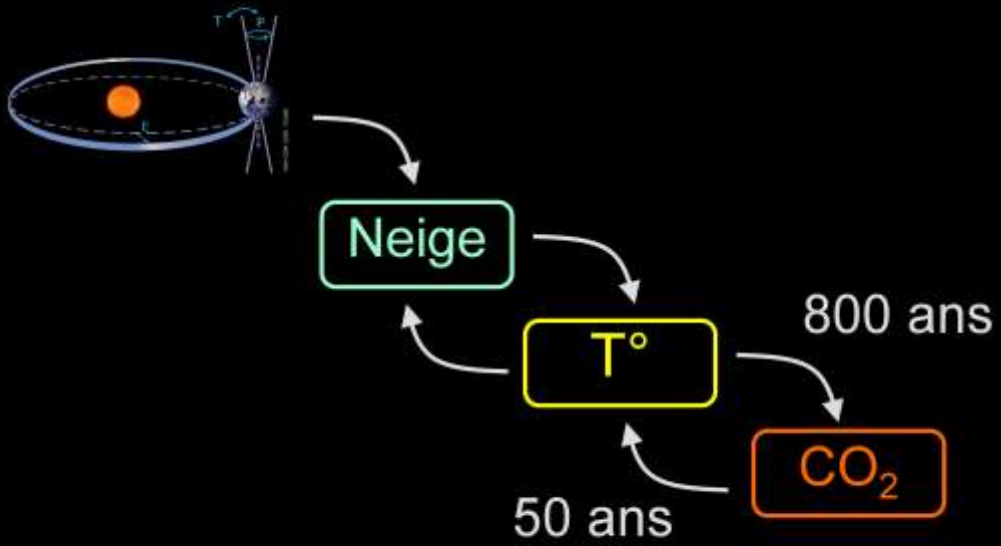
Cycles de Milankovitch (1924)



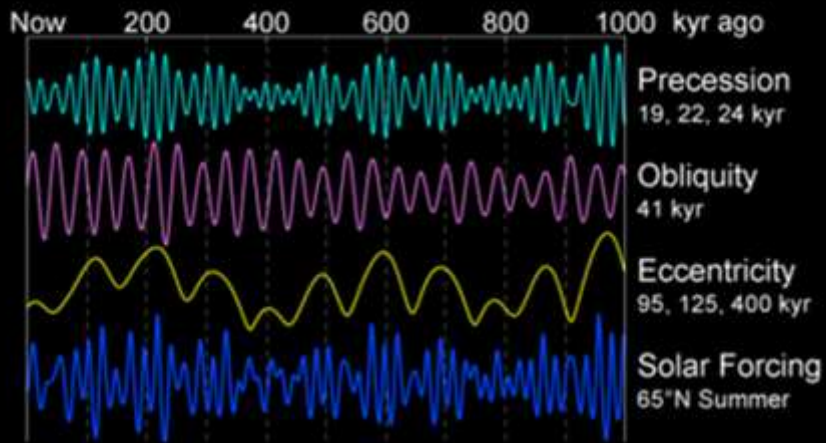
Cycles de Milankovitch (1924)



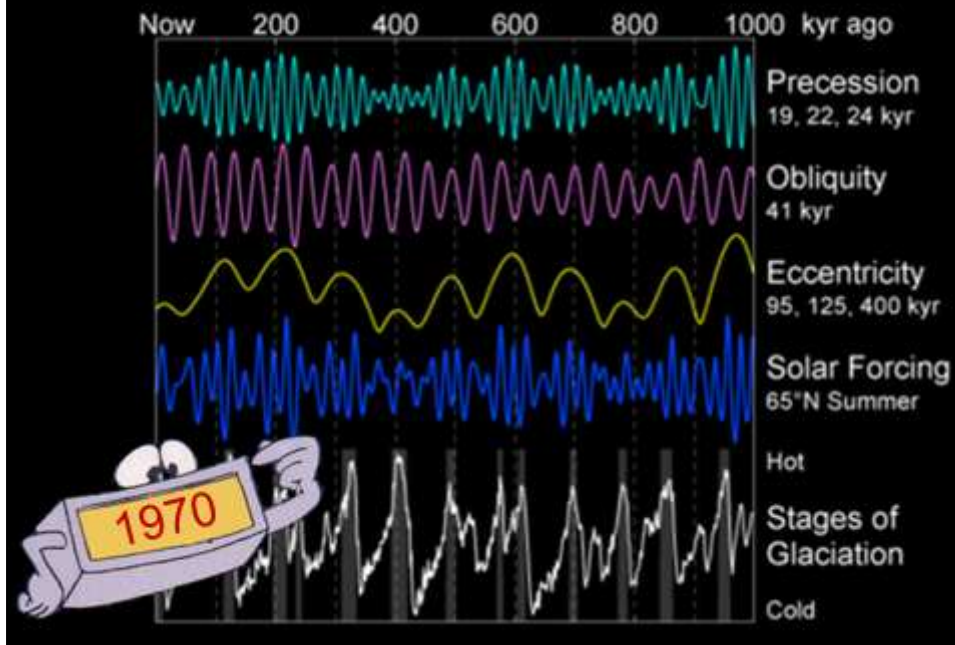
Un peu de systématique



Cycles de Milankovitch (1924)

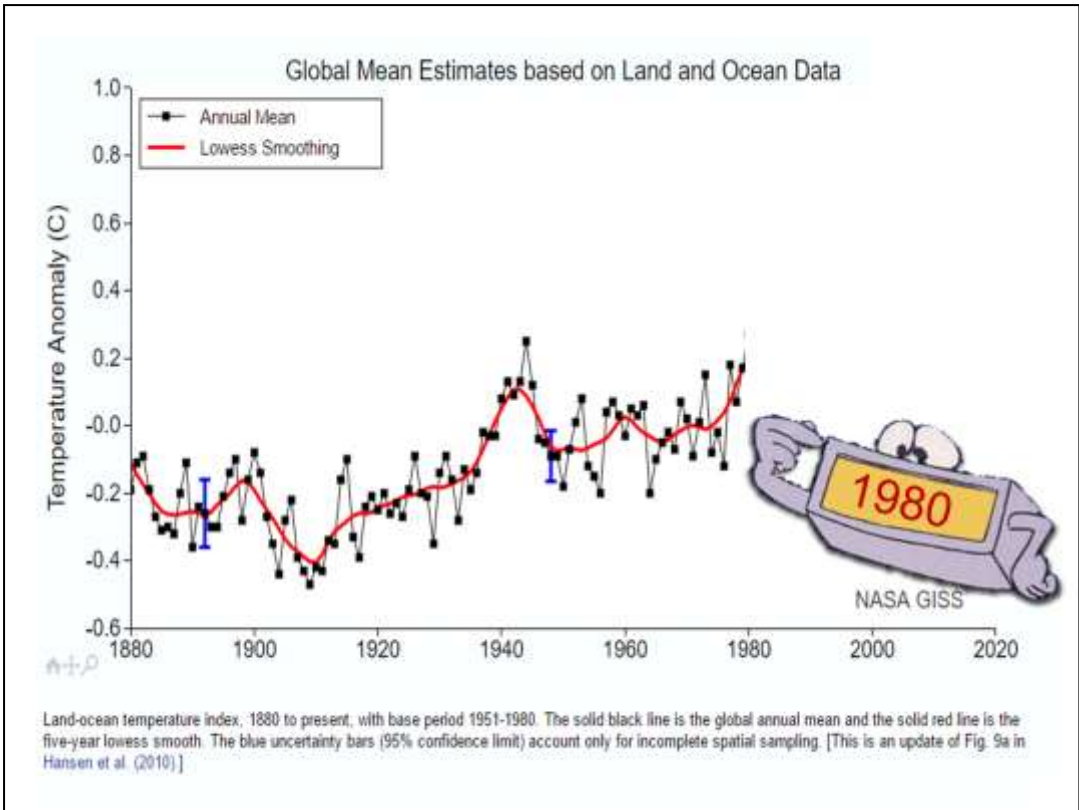


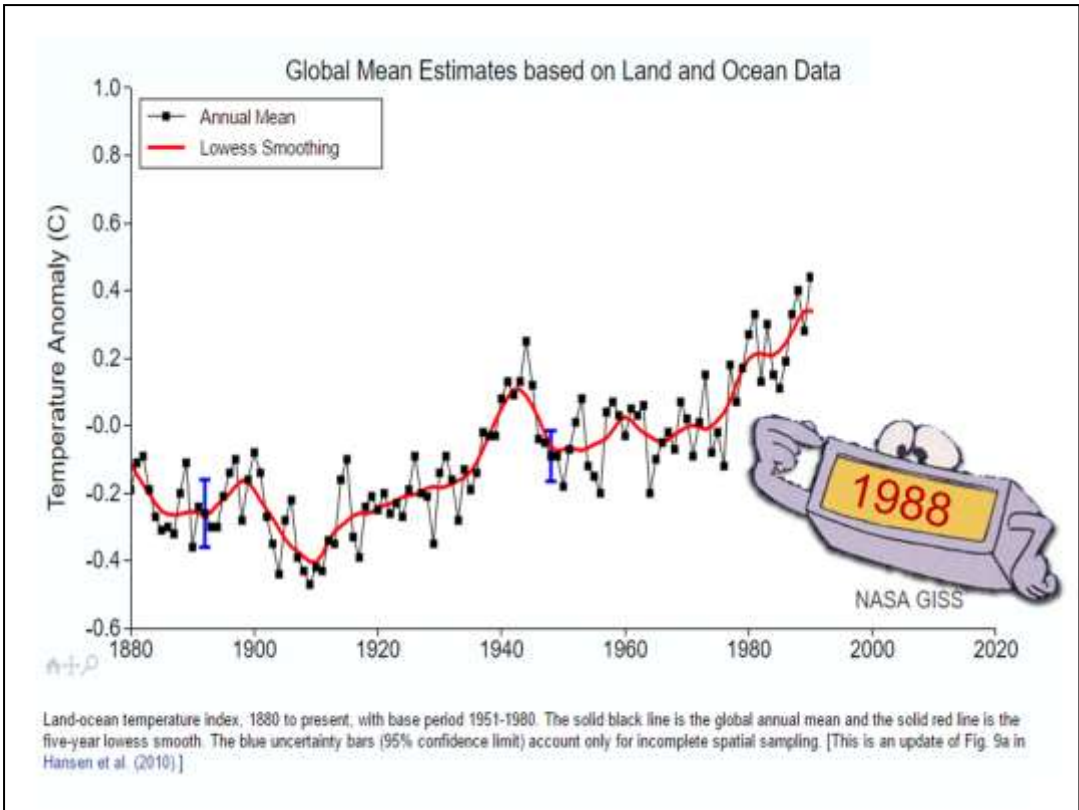
Cycles de Milankovitch (1924)

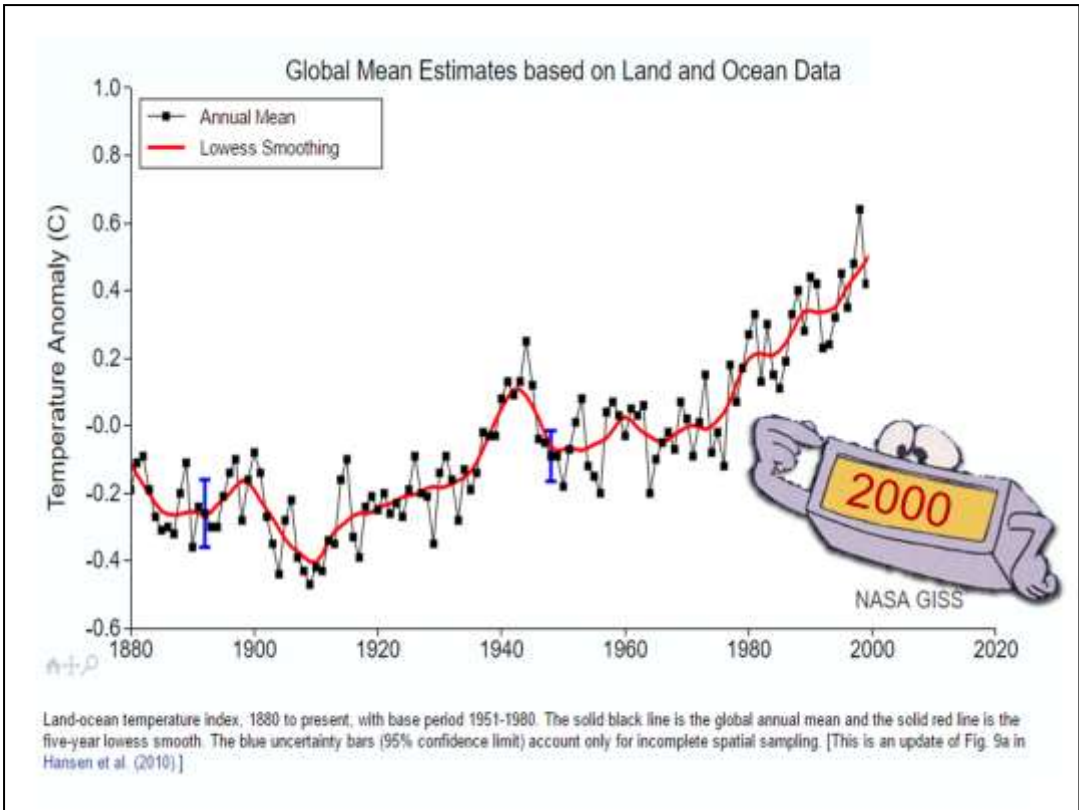


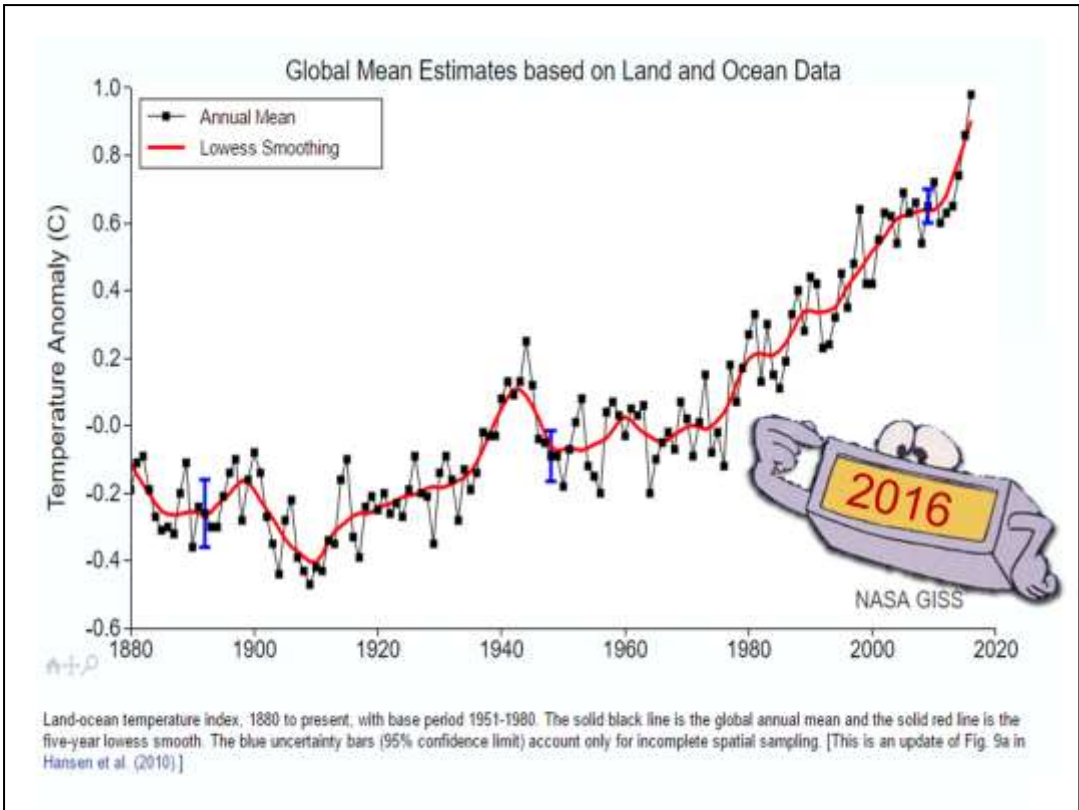
James Hansen











James Hansen

