



**Networking workshop/ Research mission
'Agriculture, animal husbandry and
forestry to face climate change'**

Friday, June 26th 2020, on line workshop

**NEIKER-Basque Institute for Agricultural
Research and Development**

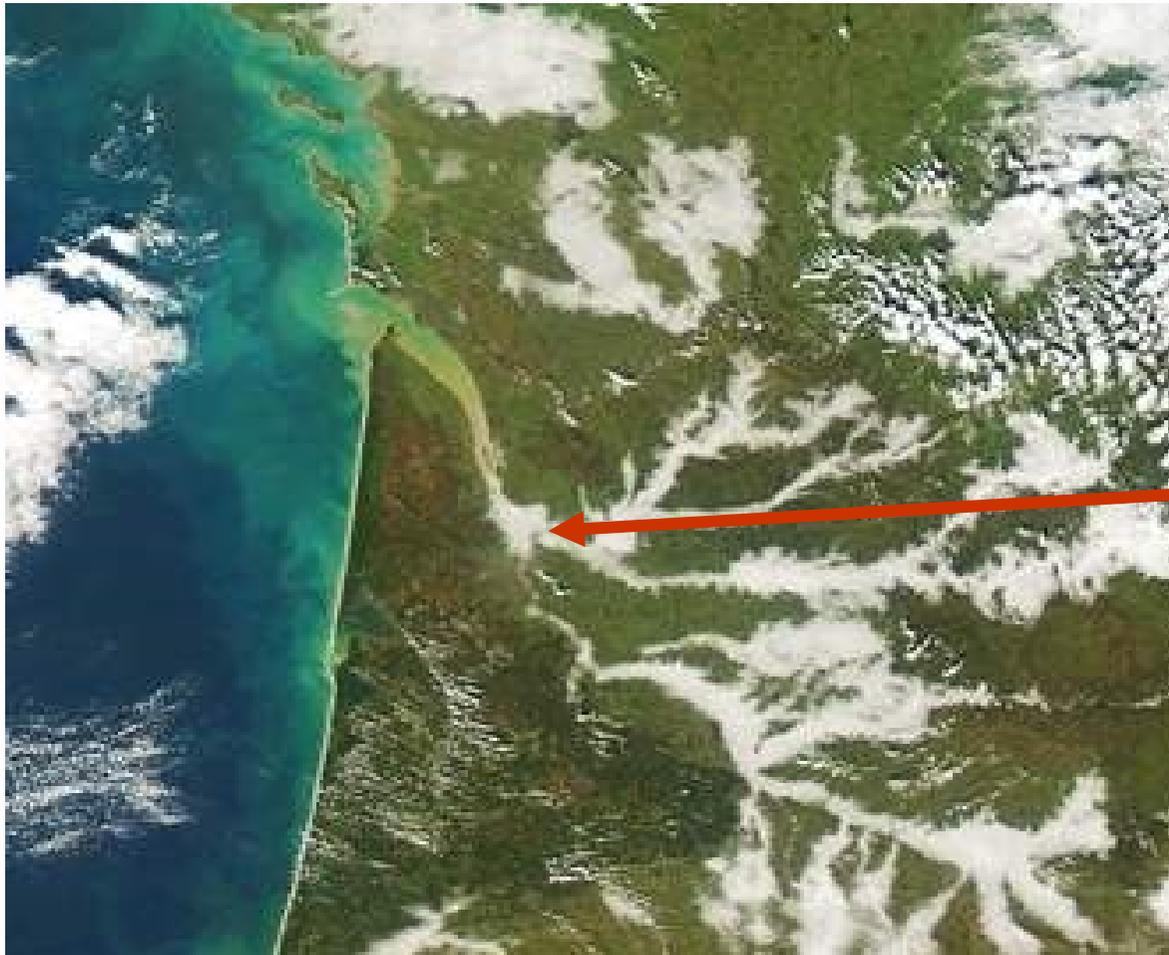


Capitalising Climate Change projects in Risk management for a better resilience

Dr. Jean-François
Berthoumieu

ACMG





We work
here

AGEN

Since 1959 on climate
scourges and
solutions for reducing
their impacts on
farming;
Since 1990 we work
on climate adaptation
and resilience

We are running a Climatological network since early 60ths

Fichier Édition Affichage Historique Marque-pages Outils Aide

Zimbra: Réception × Réseau Climatologique Acmg × Réseau Climatologique Acmg - Réseau Climatologique Acmg - +

← → ↻ 🏠 <https://www.google.com/maps/d/viewer?hl=fr&mid=1iNugrja45akEmAPoa44P22Gu98atZiJP&ll=44.30515>

☰ Réseau Climatologique ... 🔍 ⋮

17 vues ☆

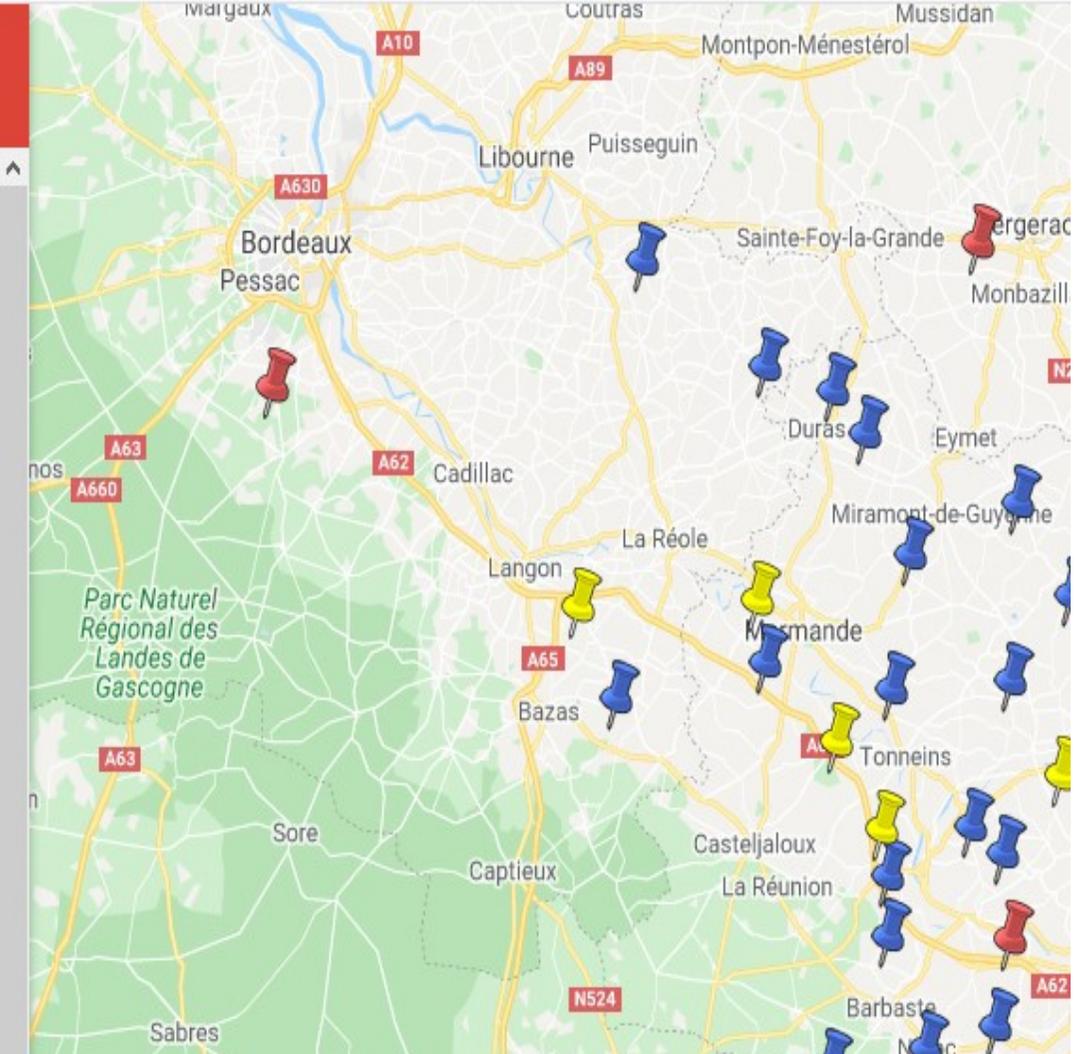
PARTAGER MODIFIER

Gel 2019

Tinytag

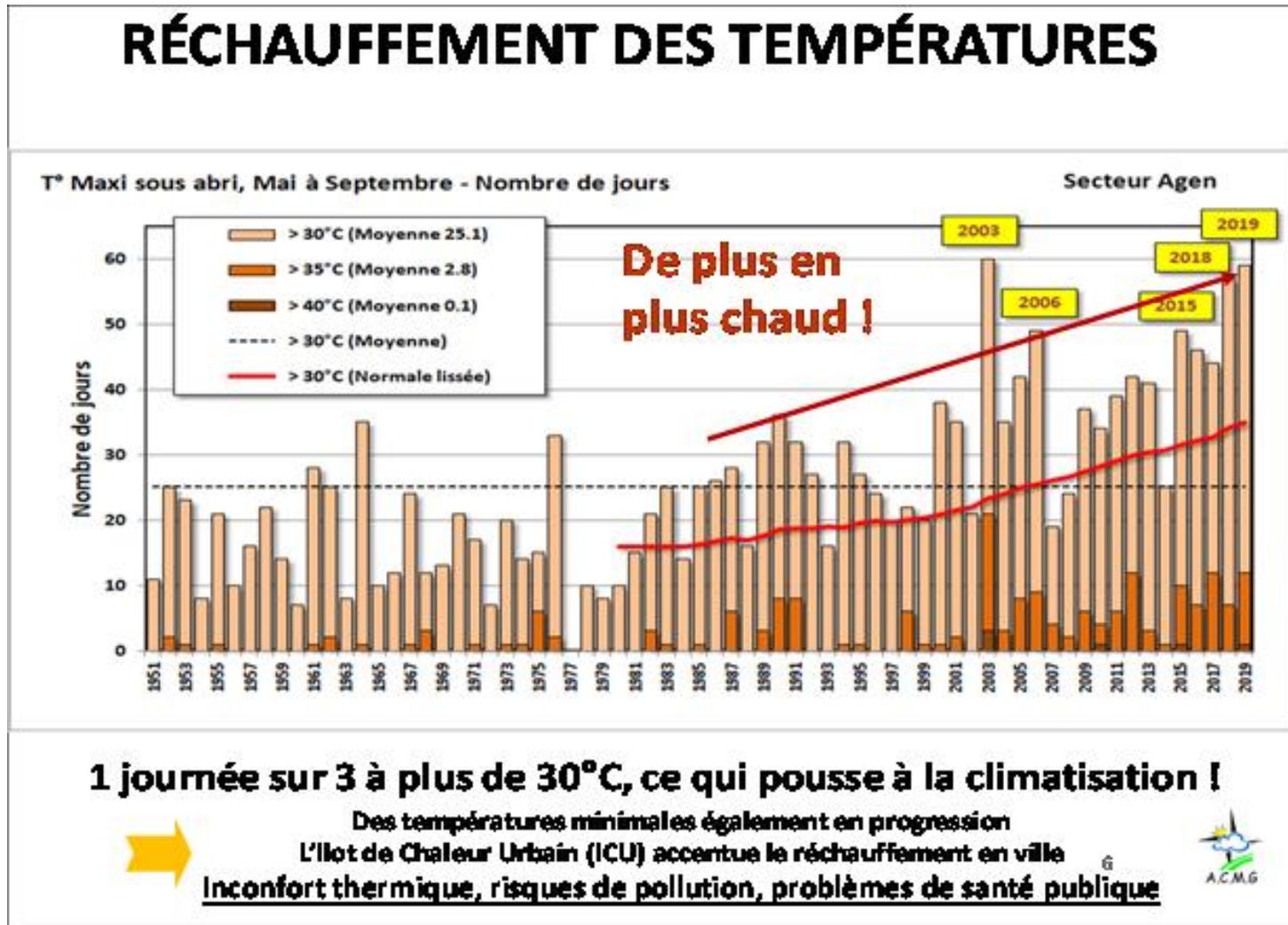
- Astaffort
- Calignac
- Samazan
- seyches
- ... 31 autres

Fox

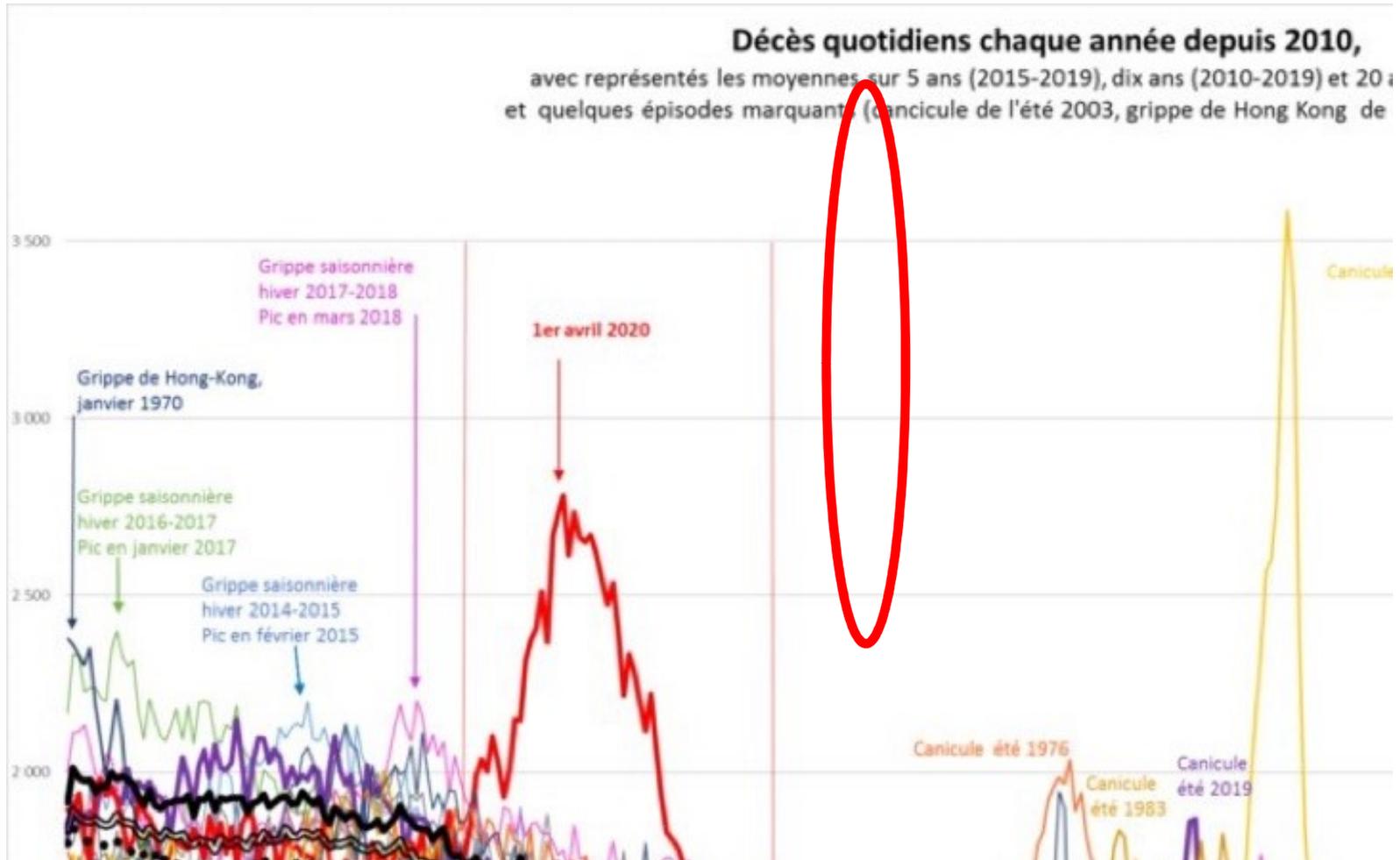


The map displays the Bordeaux region in France, including areas like Libourne, Puisseguin, and the Parc Naturel Régional des Landes de Gascogne. Numerous pins are placed across the map, representing the locations of the climatological network. The pins are color-coded: blue, yellow, and red. Major roads (A10, A63, A62, A65, A660, N524) and cities (Bordeaux, Pessac, Libourne, Cadillac, Langon, Bazas, Sore, Captieux, Casteljaloux, La Réunion, Barbazan) are labeled. The map is viewed from a satellite perspective.

We have had in 2019 almost as many days with high temperatures as in 2003



IN 2003, in France, during a heat wave, we realised that heat could kill people, more on 1 day than during the COVID19!



You know the Keeling curve showing the progression of CO₂ in the atmosphere

THE KEELING CURVE

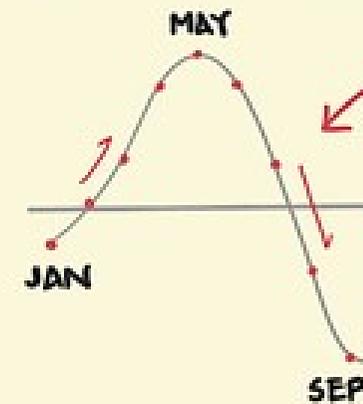
MEASURING ATMOSPHERIC CO₂ SINCE 1956

TAKEN AT
THE TOP OF
MAUNA LOA,
HAWAII

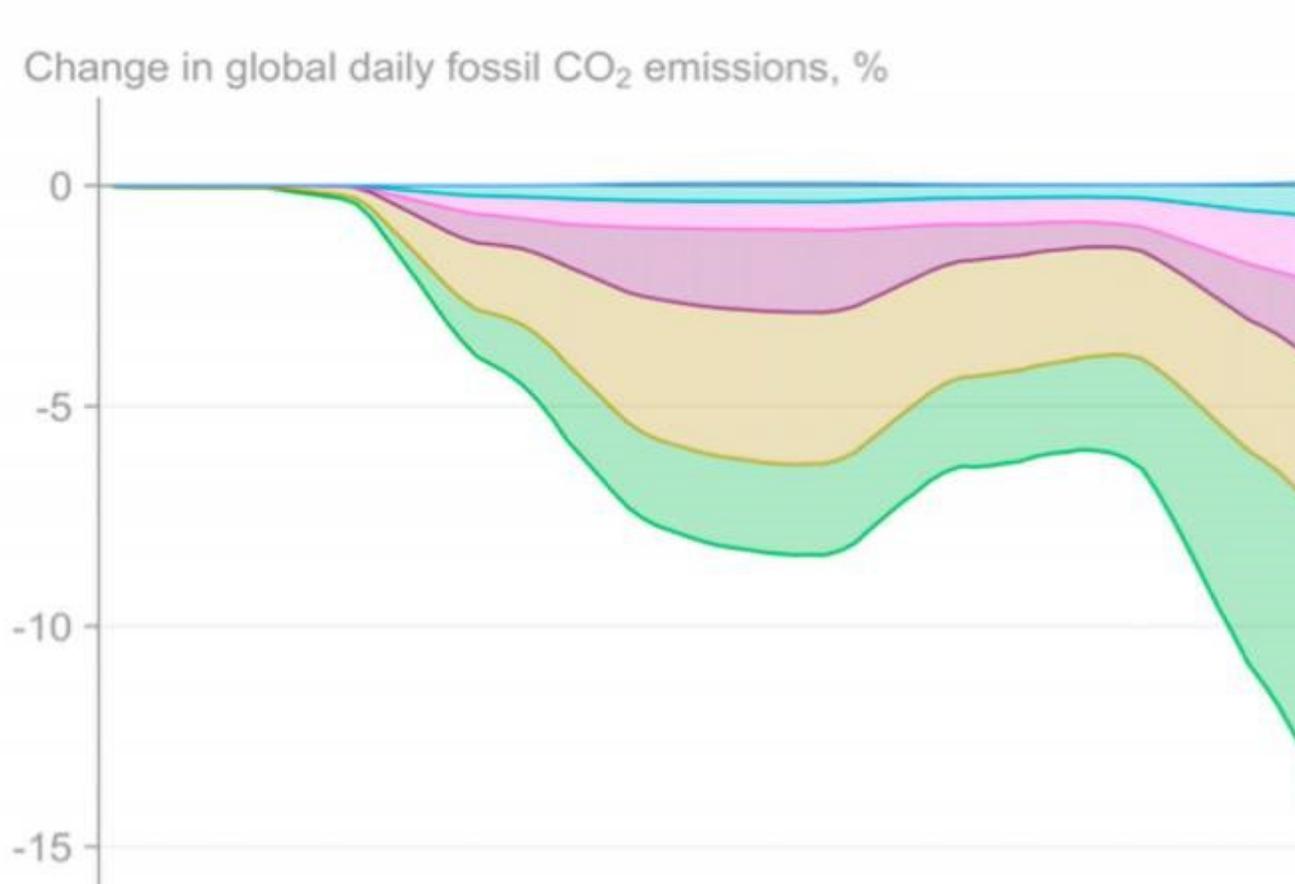
monthly average
CO₂ CONCENTRATION
PPM

420

Seasonal variation



During the COVID19 confinement, I hoped to see an effect on that curve as the reduction of global daily fossil emissions has dropped in early April by -15%

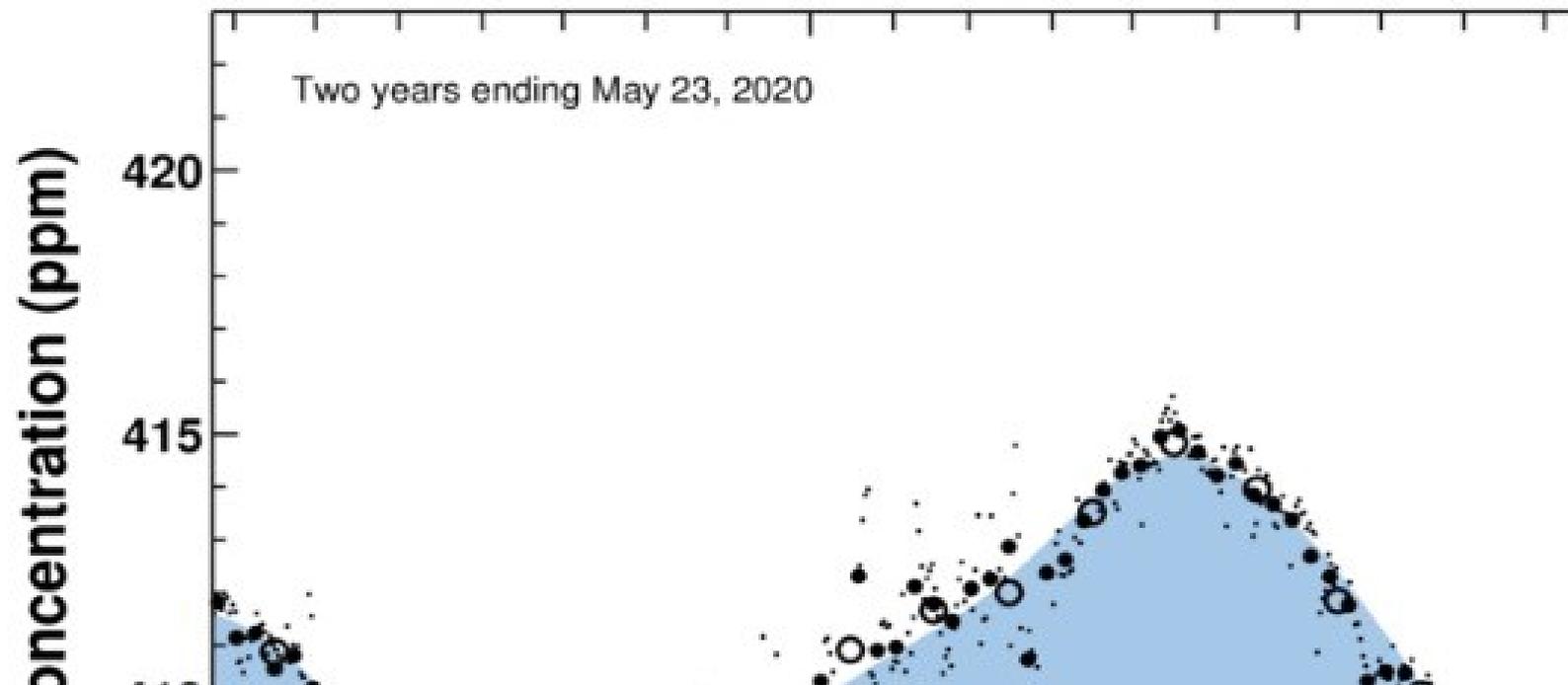


But no way! It is like nothing had changed

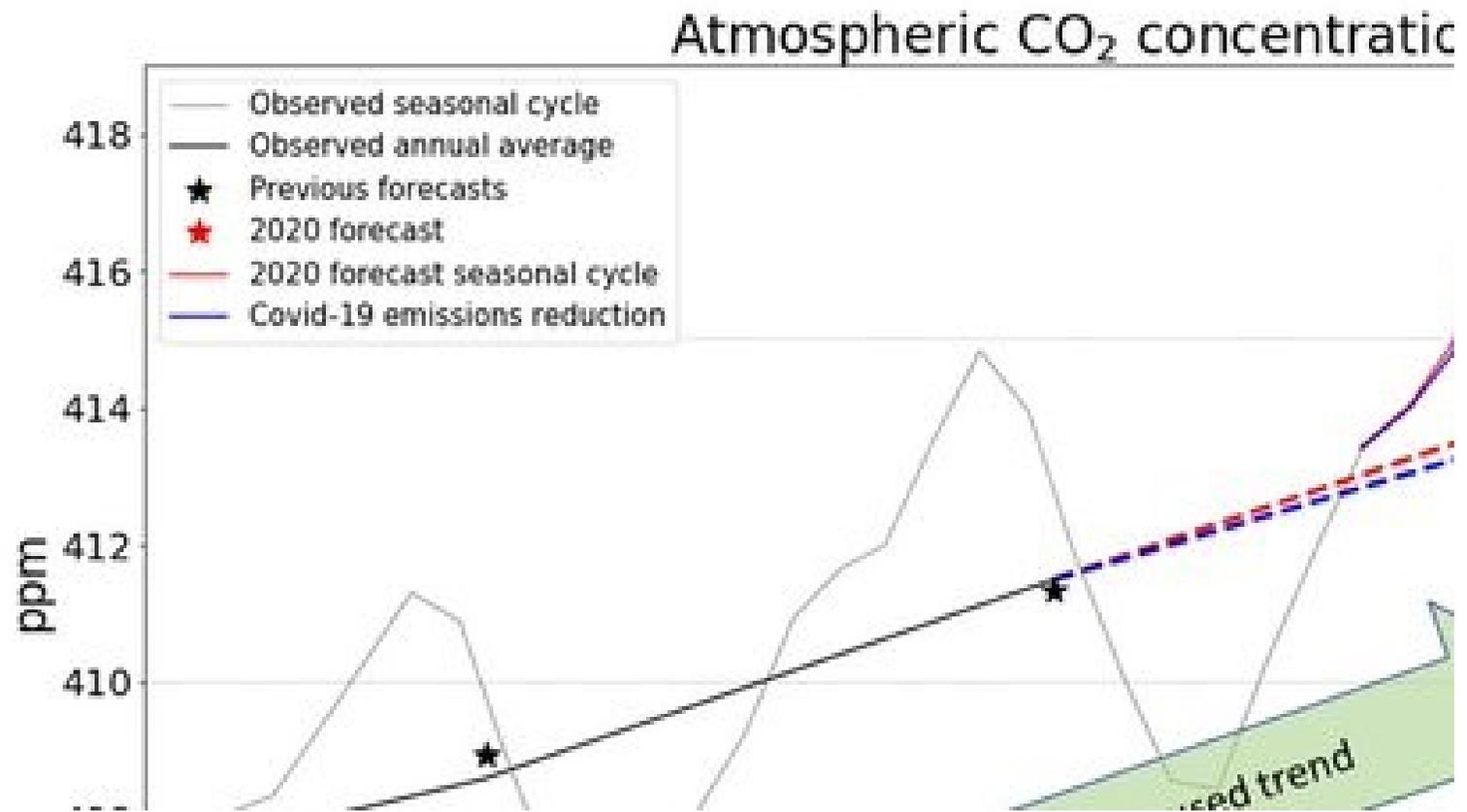
Latest CO₂ reading: **417.8**

May 23, 2020

Carbon dioxide concentration at Mauna Loa Observa



Richard Betts from the university of Exeter hopes a progression this year of 2.48 ppm instead of 2.8ppm = reduction of 0.32 !





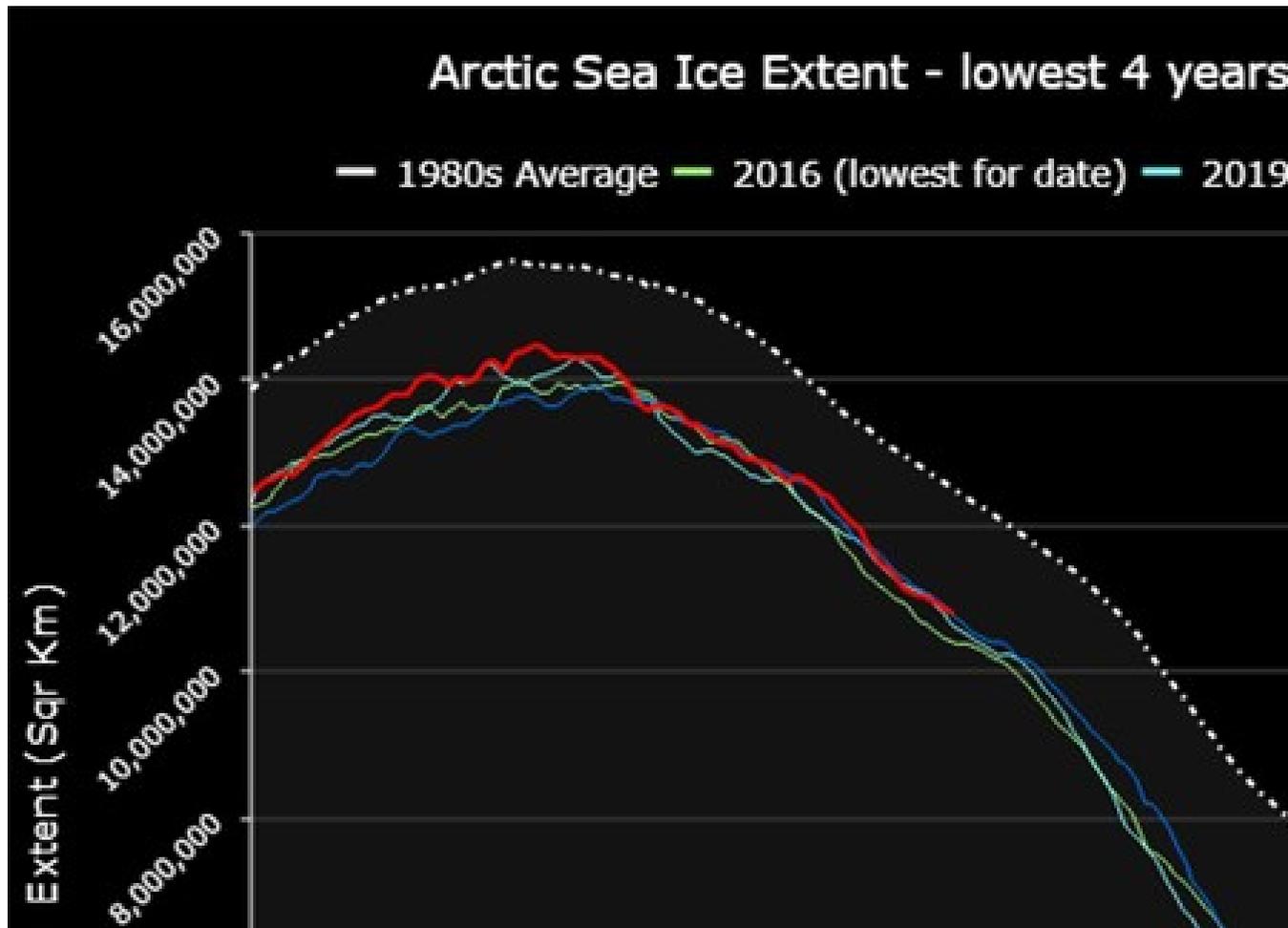
Recherche Twitter



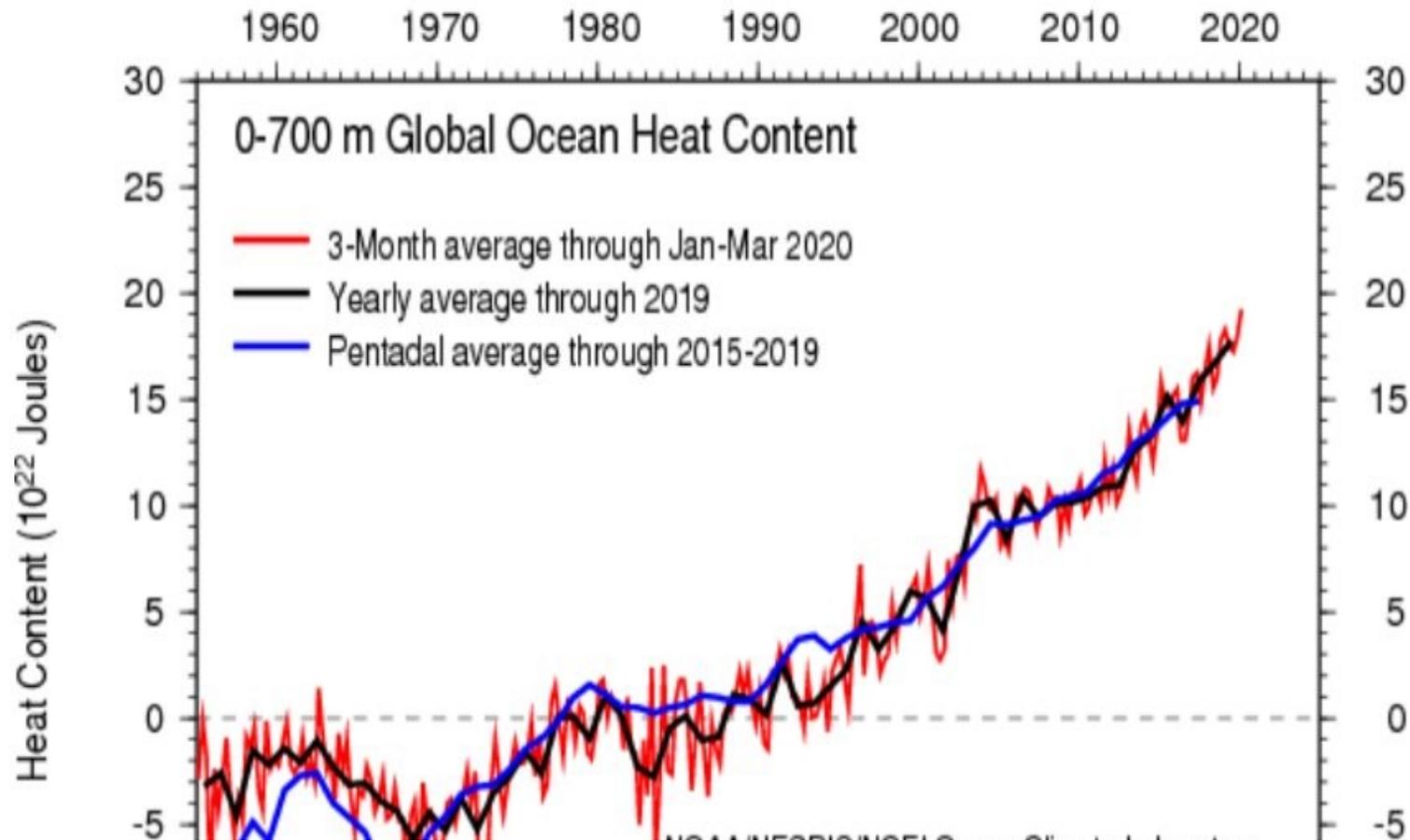
Richard Betts says!

Reducing emissions slightly does not immediately reduce concentrations, it only slows the rate of increase. For CO₂ to stop building up in the atmosphere, human-caused emissions would need to drop by around 50% in the short term (natural sinks already currently offset around 50% of emissions). The emissions cuts would need to be even larger in the long term, as the sinks will weaken if CO₂ starts to stabilise.

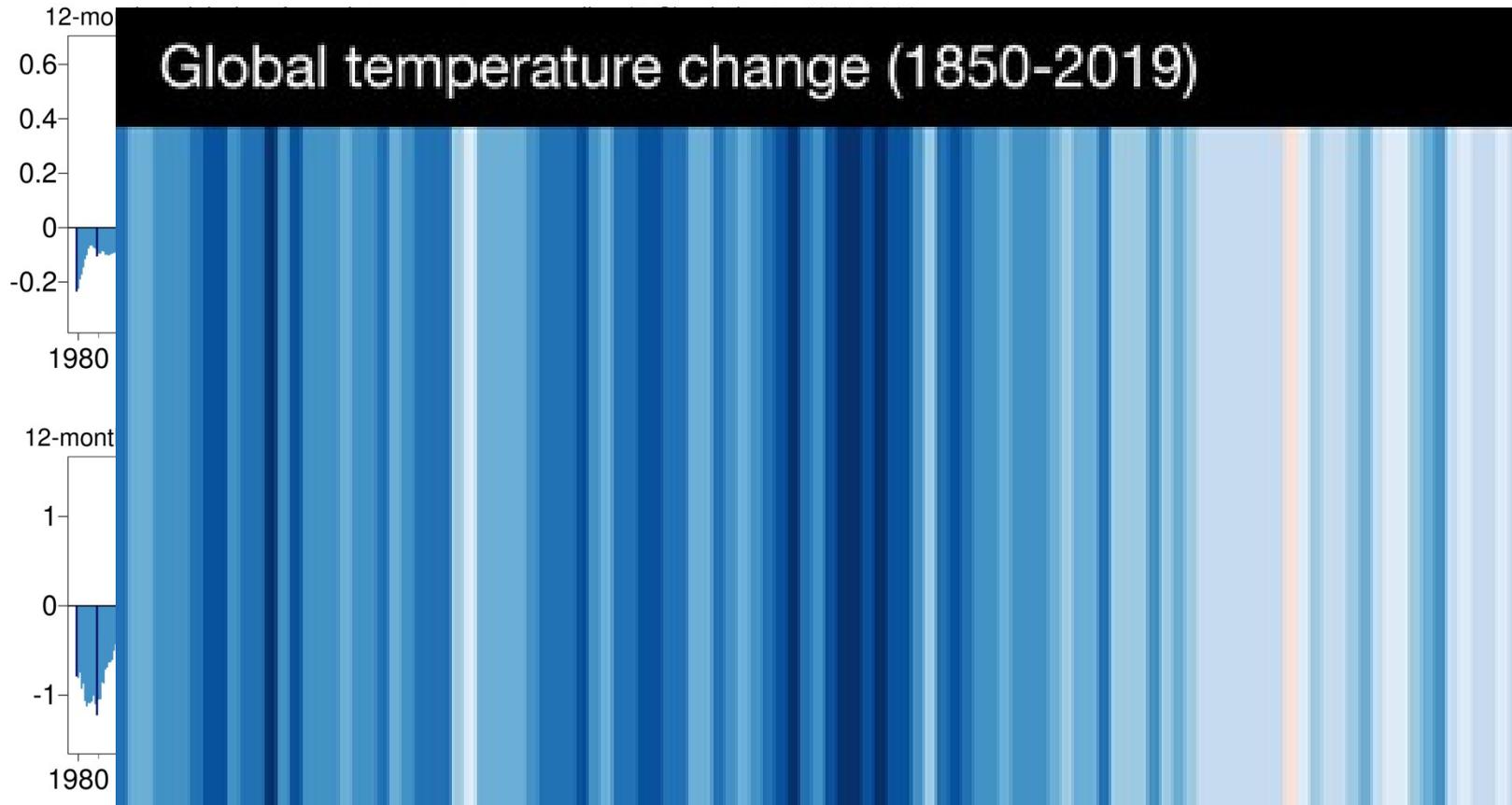
It means acceleration of ice melting
and sea level rise



Until now most of the energy that cannot escape because of CO₂ and other green house gazes is stored in the Ocean provoking acidification and migrations of fishes



WMO 05 02 2020



In Siberia, since January they have warmer temperatures



WMO will seek to verify reports of a new **Arctic** record temperature of



TRIPLE-C is willing to help for reducing emissions of CO₂, finding solutions to increase the sinks, to be more resilient and to adapt us to this future that is already present!

I welcome you to present and to explain us your solutions and we will help you to adapt them in as many places as it is possible.

Merci to Nieker for hosting this virtual meeting where we are quite proud to announce that comparing to our first meetings we are today saving 4 tons of CO₂



Eskerrik asko
Gracias
Obrigado
Thank you
go raibh maith agat
Pla merci
Merci

Dr. jean-François
Berthoumieu
ACMG

