

What can GCOS contribute to achieve the Paris Agreement?

How to reduce the carbon footprint of GCOS?

For the SC-26 2018: Michael Zemp



WORLD
METEOROLOGICAL
ORGANIZATION



IOC

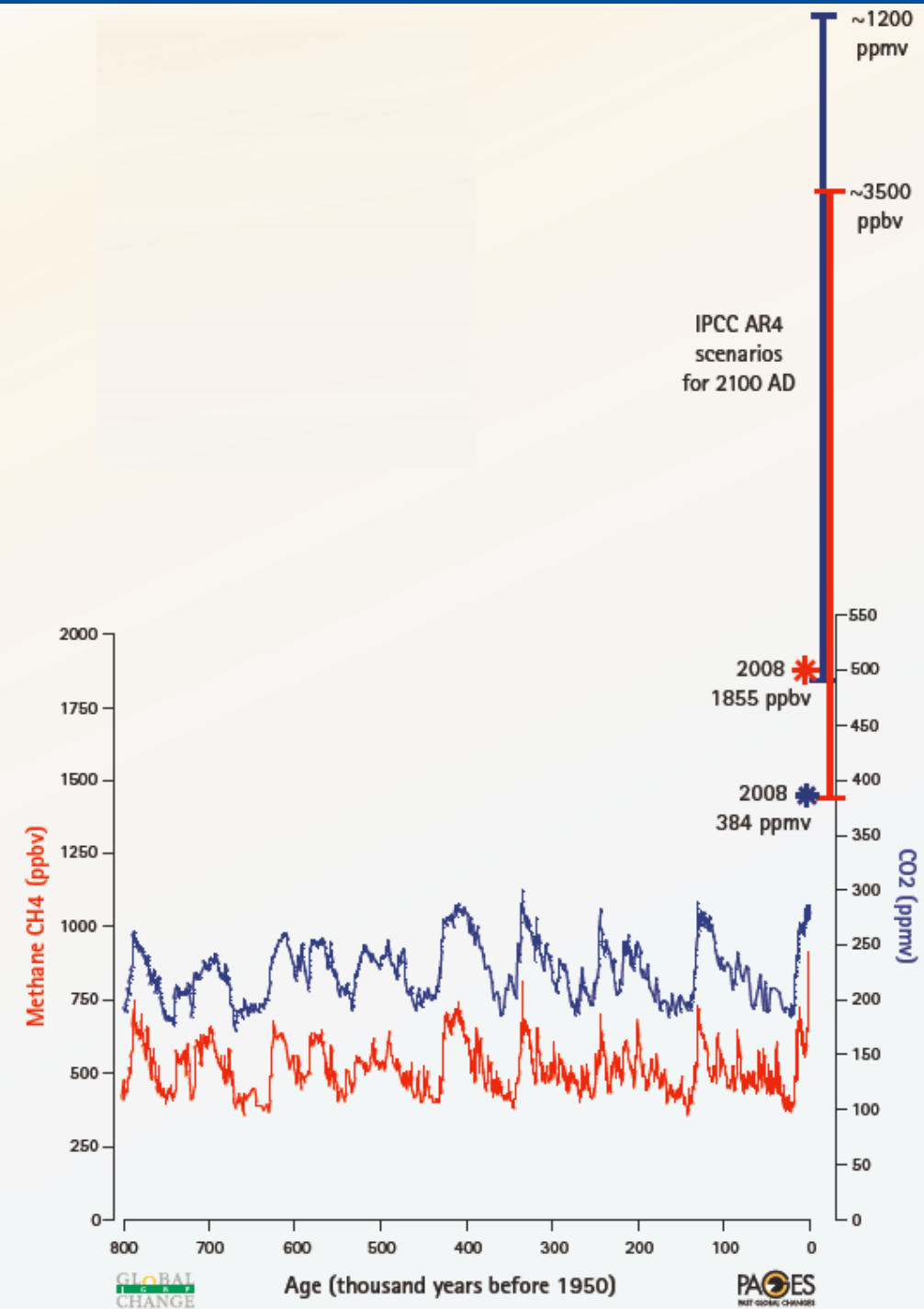
International
Science Council



UN
environment

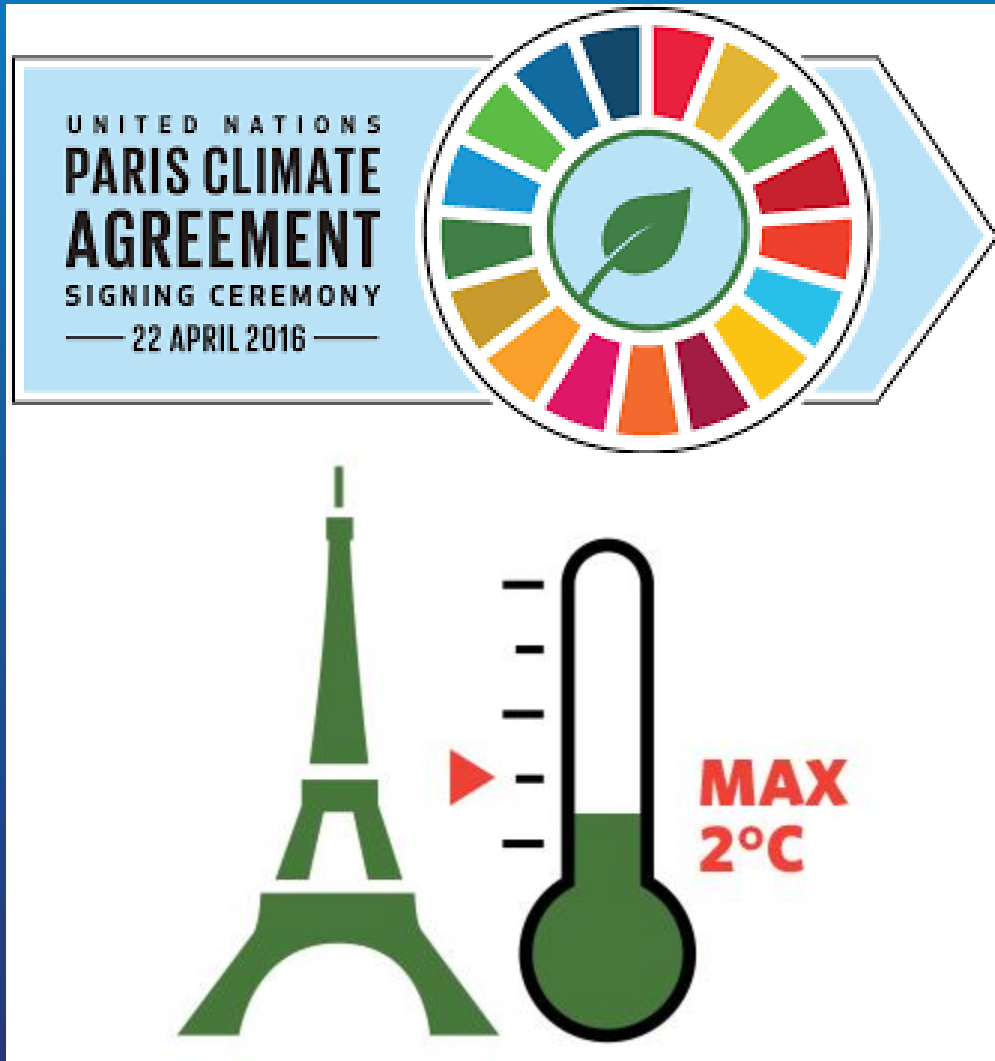


Ice core – photo from telegraph.co.uk





CO₂ emissions: pathways to 2°C



Source: unfccc.int

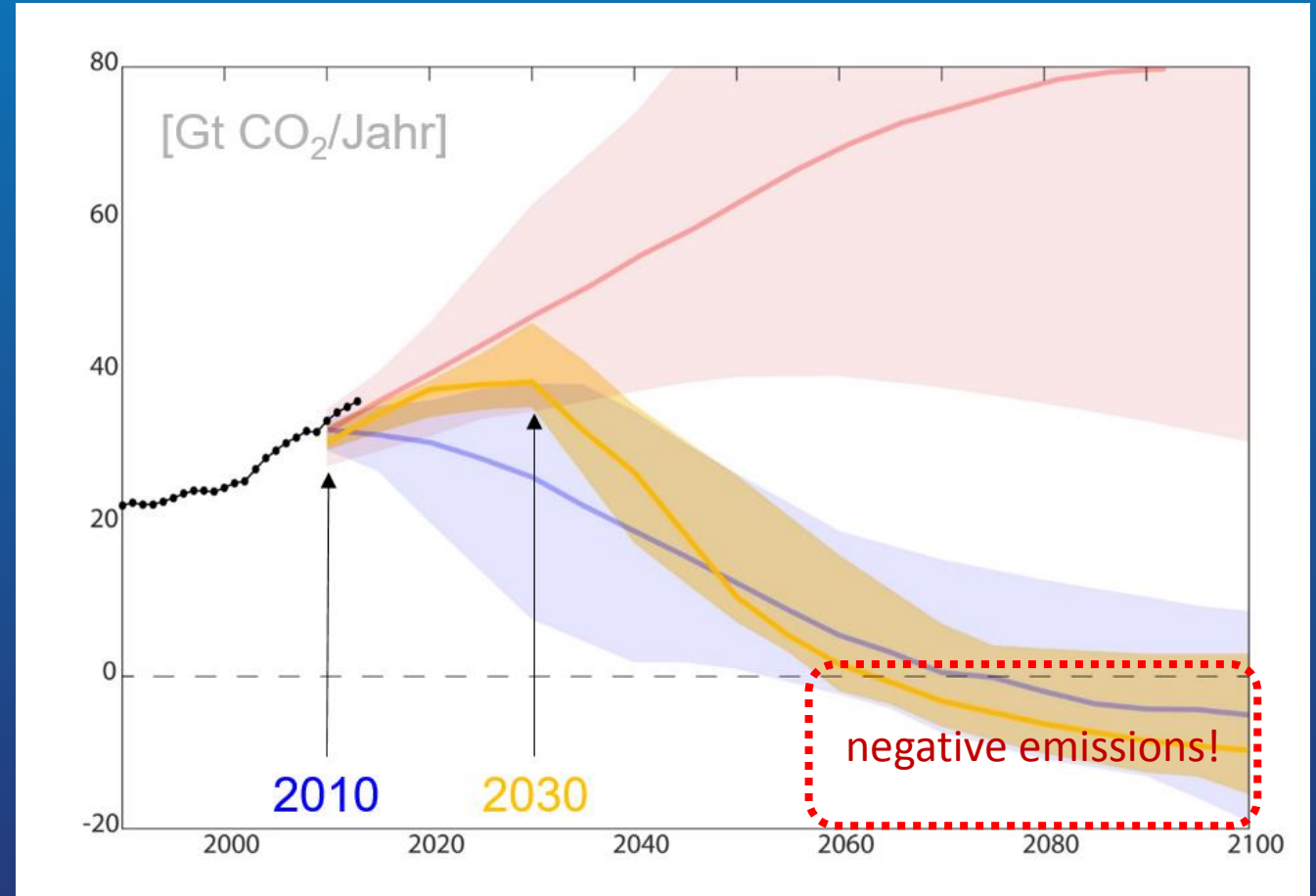


Figure from Reto Knutti, ETHZ



ZERO emission by 2050

=> We ALL need to reduce our carbon footprint, NOW.

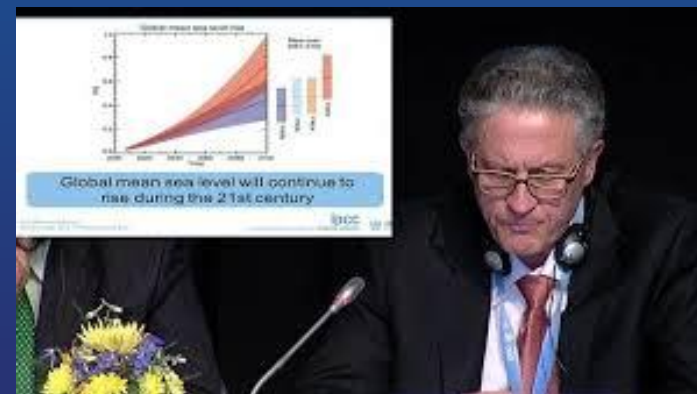
=> For the climate community this is also a question of credibility.

DIE WELTWOCH

Umwelt

Prosit Klima!

Thomas Stocker und Bertrand Piccard sorgen für mehr CO2 in der Luft.





CLIMATE NEUTRAL

MEASURE
REDUCE
OFFSET **NOW**

IPCC meetings go carbon-neutral

GENEVA, June 15 – The Intergovernmental Panel on Climate Change (IPCC) achieved carbon neutrality at its last plenary session, thanks to generous support from host country France.

The 47th Session of the IPCC, held in Paris on 13-16 March 2018, is thus the first climate-neutral meeting of the IPCC.

The IPCC worked with the Climate Neutral Now initiative of the United Nations Framework Convention on Climate Change (UN Climate Change, or UNFCCC) to offset carbon emissions involved in participant travel to the meeting and arising from the meeting itself at the conference location.



United Nations
Framework Convention on
Climate Change

DATE: 30 MAY 2018
REFERENCE: VC3472/2018

VOLUNTARY CANCELLATION CERTIFICATE

Presented to
Ministere de la Transition Ecologique et Solidaire
Reason for cancellation
I want to contribute to climate action

Number of units
cancelled

254 CERs
Equivalent to 254 tonne(s) of CO₂

Start serial number: IN-5-211600991-2-2-0-8855
End serial number: IN-5-211601244-2-2-0-8855

The certificate is issued in accordance with the procedure for voluntary cancellation in the CDM Registry. The reason included in this certificate is provided by the cancellor.

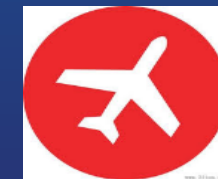




How to reduce our carbon footprint?



- Start monitoring
- Set reduction goals
- Take reduction measures
 - Implement 2000-watt office
 - Reduce air miles
 - Develop new meeting culture
 - ...
- Offset baseline emissions
- Communicate good examples

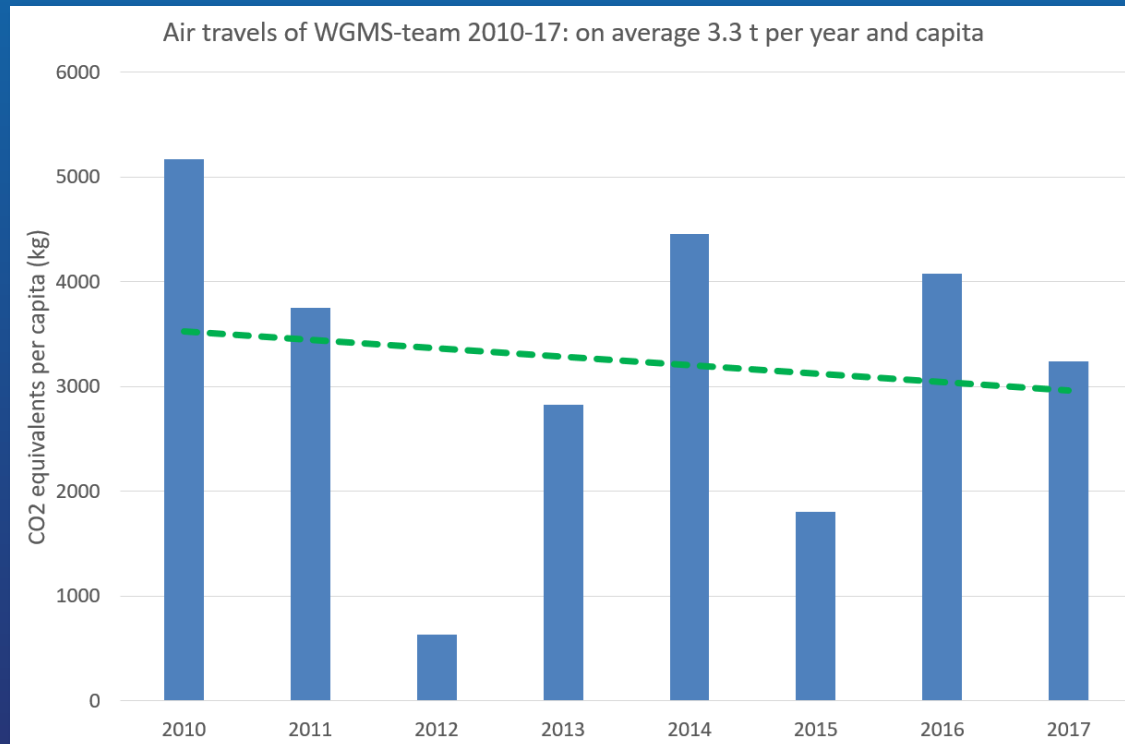




How to reduce our carbon footprint?



Example: air miles monitoring & reduction goals

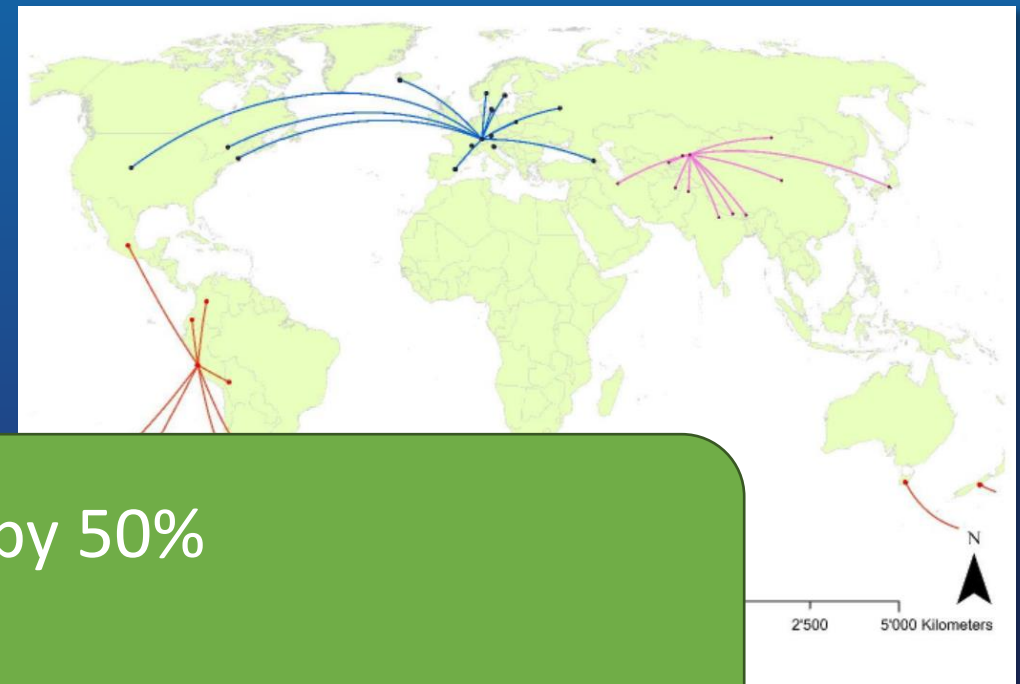




How to reduce our carbon footprint?



Example: general assembly of national correspondents



- => air miles reduction by 50%
- => same budget
- => better focus on regional issues



How to reduce our carbon footprint?

Example: train travel to conferences



EGU European Geosciences Union
General Assembly 2018
Vienna | Austria | 8-13 April 2018

EGU.eu

- Home
- Information
- Programme
- Webstreaming
- Abstract management
- Townhall and Splinter meetings
- Guidelines
- Rules of conduct
- PICO

Aims & scope

The EGU General Assembly 2018 will bring together geoscientists from all over the world to one meeting covering all disciplines of the Earth, planetary and space sciences. The EGU aims to provide a forum where scientists, especially early career researchers, can present their work and discuss their ideas with experts in all fields of geoscience. The EGU is looking forward to cordially welcoming you in Vienna.

Reduce your carbon footprint between Switzerland and Austria

The EGU is pleased to support the initiative of Swiss colleagues to reduce the carbon footprint of your travel to the EGU General Assembly 2018. Why not consider going to Vienna by train? Take the train from Zurich to Vienna and SBB offers you a CHF25 discount.

EGU webstreaming

SBB CFF FFS



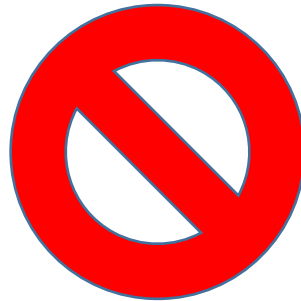
How to reduce our carbon footprint?



Example: WMO air travel policy



Zurich – Beijing, Beijing – Hangzhou
 Hangzhou – Beijing, Beijing – Zurich
 Travel time: **32 hours**
 Costs: **1,400 CHF**
 CO2-emissions: **1,924 kg**



Zurich – Shanghai, bullet train Shanghai - Hangzhou
 bullet train Shanghai – Hangzhou, Shanghai - Zurich
 Travel time: **26 hours**
 Costs: **1,940 CHF**
 CO2-emissions: **791 kg**

Reimbursement regulations need to consider ecological criteria and get rid of current «cheap flight» obsession.



How to reduce our carbon footprint?



Example: virtual conference



Virtual Conference 2017:

“University Air Miles Reduction”

=> virtual intro session

=> local workshops (face-2-face)

=> virtual conclusion session

=> policy briefs to univ. directors

- AUSTRALIAN NATIONAL UNIVERSITY | ETH ZURICH
- NATIONAL UNIVERSITY OF SINGAPORE | PEKING UNIVERSITY
- UNIVERSITY OF CALIFORNIA, BERKELEY | UNIVERSITY OF CAMBRIDGE
- UNIVERSITY OF CAPE TOWN | UNIVERSITY OF COPENHAGEN
- UNIVERSITY OF OXFORD | THE UNIVERSITY OF TOKYO | YALE UNIVERSITY





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