



About us ...

... a highly reliable weather service provider, operating in the field of the applied research in meteorology and climate, providing valuable products to industry, media, public and private sectors, including educational activities for school and society

www.meteo.expert

...the experts of meteo



Scientific activities, modeling, projects and education

Previsioni globali, RM e regionali del CEM: 15 km

Centro EPSON Meteo participated to several scientific projects, both national and international, developing various innovative research projects related to meteorological and climate analyses, Ensethe comparison between models, the long-term simulations, the

emergency response to extreme events, the management of

Ossewater.

Our multi-model ensemble prediction system is run on different domains and spacetime scales to give the best forecast for all

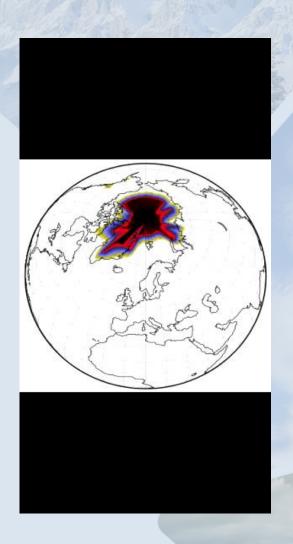
Applicazioni Specifiche application Risk Assessment Tools

METEOROLOGIA

• Several activities are related to communication and education on weather and climate also through training courses in meteorology and several publications including a number of books.

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Climate Change

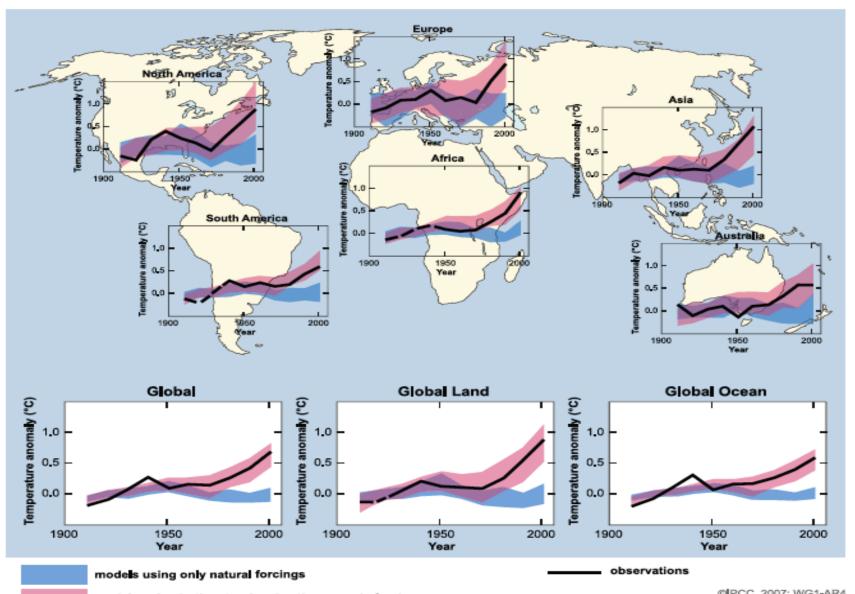
Artic ice and snow cover evolution in July, from present day to 2050

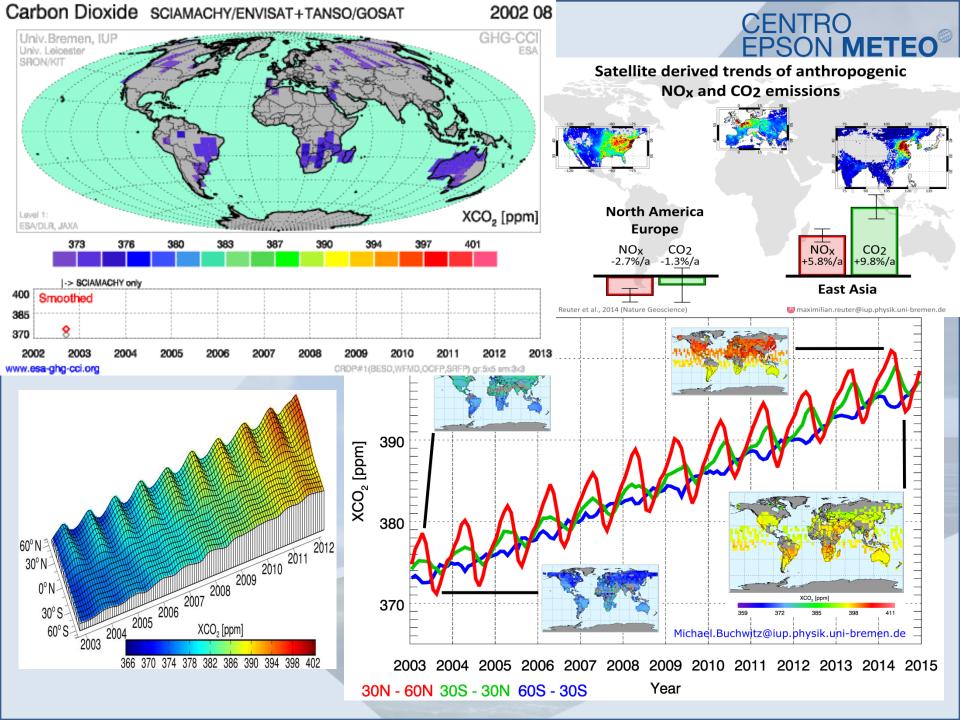
Darker colours mean greater depths, light red colour means thinner layers, white means no ice or snow





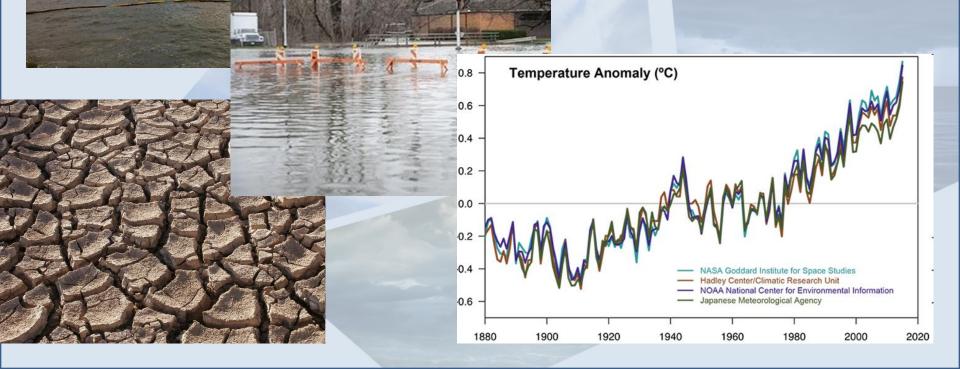
GLOBAL AND CONTINENTAL TEMPERATURE CHANGE







Temperatures will continue to rise
Changes in precipitation patterns
More droughts and heat waves
Sea level will rise 0.3-1.2m by 2100
Arctic likely to become ice-free





Communicating climate

National and local events that feed into or support the

Alta international event may be more useful.

Opzinteresting to local audiences.

Ensemble:

Osservazionia couple of simple rules

Dati Locali

• Climate messages can be stronger when linked to national and household economics. It is important to build awareness

Analisi del riscisteadily, over time, rather than just when a scientific story appears. Connect the message to day-to-day life. Generalities

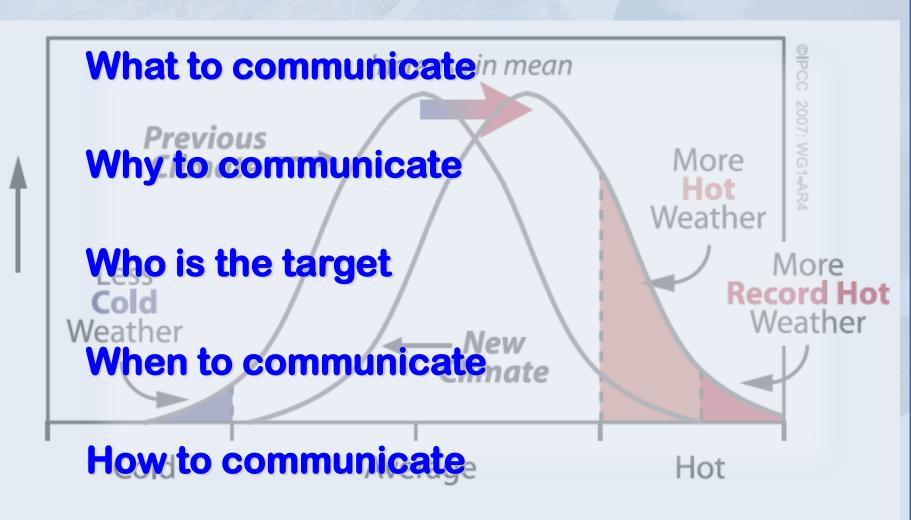
are less compelling than specifics. The messenger is

• Don't patronize but try to be engaging. Be entertaining but don't trivialize.

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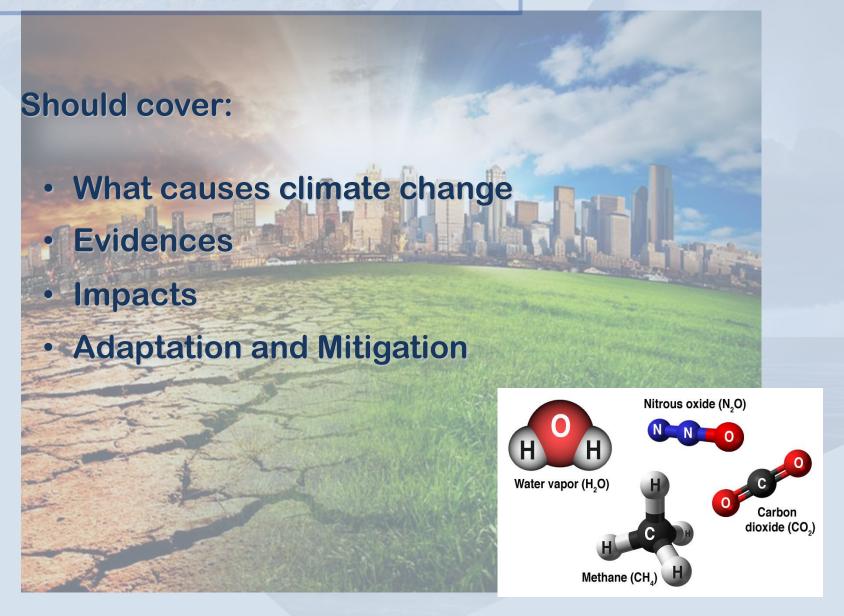


Communicating climate change





What to communicate





Why communicate

Carbon Dioxide

LATEST MEASUREMENT: March 2017

405.6 ppm

AY

- To maintain life
- To avoid the predicted catastroph
- To reduce pollution and change behaviors
- To inform, empower and mobilize
- To inspire decision makers
- To be ethical
- To inform on how to adapt



Who is the target





Target: economic sectors. What sensitivity?

Centro EPSON Meteo provides meteorological consulting and products to a variety of professional fields and both public or private businesses, using proprietary models and know-how:

- gas and power utilities to support policies for production, storage and distribution of energy, with specific solutions for renewable sources
- railways, motorways, regional and local authorities for the operational management of winter plans
- Air navigation, general aviation to suppor handlers on weather emergency plans
- shipping, yachting, coastal sailing, and every inshore and offshore maritime activities
- Media and Television (Meteo.it, Mediaset group)
- every business activity related to weather and climate

This sector has some knowledge about climate change but they haven't a clear idea of the impact on their business

This sector does not consider climate change and they have no ideas of the possible impact on their business

This sector has knowledge about climate change and they make considerations about the possible impacts on their activities

This sector has some knowledge about climate change and they have some ideas of the impact on their business



When to communicate



CENTRO EPSON METEO

How to communicate

 Preparing oneself (passion, knowledge, be authoritative



- Innovation: organize discussions
- Know data and resources about climate change
- Leveraging all communication media





Meteorology and Climate in Schools

Centro Epson Meteo is involved in education. Getting to know meteorology and understanding weather forecasts is very important because atmospheric events affect our daily life influencing our choices that go from the decision of what mean of transportation get to go to work to when to leave on a day trip.

The "School Project" was created with the intent to explain this complex science to the next generations: Centro Epson Meteo meteorologists teach classes for nearly 100 schools in one year, for students from elementary school up to high school.





Meteorology and Climate in the Society

Weather Lab

Centro Epson Meteo recreates weather phenomena with dedicated experiments, from recreating a cloud in a bottle to producing a water tornado.

Physics of the atmosphere can be **Simple and Fun**: have you ever considered how heavy air or clouds could be? Any explanation goes through fun facts in order to intrigue and explain the basics of meteorology.

UNDERSTANDING OUR SCIENCE IS A FUNDAMENTAL STEP TOWARD AWARENESS ABOUT A CHANGING CLIMATE





Mitigate global warming

Possible actions

MITIGATION means acting to counteract the increasingly severe negative impacts of the scientifically established human-caused global warming trend of climate change. Mitigation has a cost, but not mitigating climate change has a bigger cost. Think of mitigation as insurance within a climate risk management context. For example, house insurance costs something, but insurance payments are much less onerous than rebuilding your house if it burns down. For climate it is now clear that "Business as Usual" without mitigation will lead to disastrous impacts.

Personal practice is **IMPORTANT!!!**

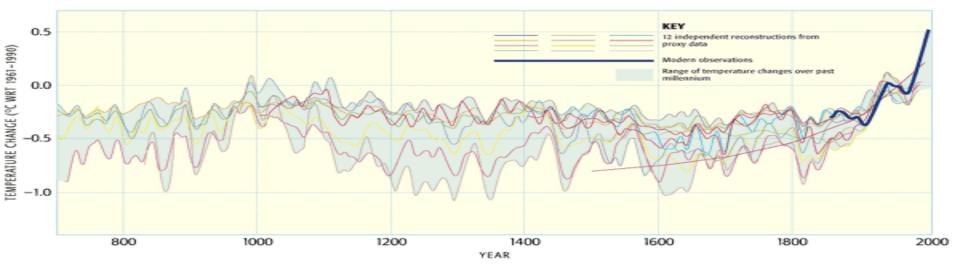




Mitigate global warming

There are many personal actions we can practice to contribute to reduce our impact on the Earth climate

NORTHERN HEMISPHERE TEMPERATURE CHANGES OVER THE PAST MILLENNIUM





Conclusions

- If climate model projections prove to be even moderately accurate, global temperatures by the end of this century will be higher than at any time during the last 120,000 years.
- Failure to introduce some form of global greenhouse gas emission reduction strategy will merely extend the timeframe of global warming that humanity is already witnessing, with very serious consequences for ecosystems and mankind, including risks of unsustainable social and economic costs which can lead to unpredictable direct consequences in many parts of our planet.
- We need to communicate evidences, causes, effects and how we can mitigate our impacts in a simple and effective way reaching as many as people, social and economic sectors, decision makers

