



*The Educational Activities of the
European Geosciences Union*

Carlo Laj

Chairman

EGU Committee on Education

Cape Town, August 2017

The Committee on Education of EGU was created in 2002 with the purpose of developing educational activities at EGU.

1) Geosciences Information for Teachers (GIFT) workshops

(At the EGU General Assemblies and more recently at Alexander von Humboldt topical Conferences)

2) Educational sessions at EGU General Assemblies (teachers and scientists and sciences educators)

3) Gift Distinguished Lectures series

4) Teachers at sea

5) Foster collaborations between schools

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3) Gift Distinguished Lectures series

4) Teachers at sea

5) Planet Press

5) Foster collaborations between schools

Typically a GIFT workshop in Vienna includes:

80 participants

20 countries

8-9 conferences

2 half-days practical works with hands-on activities experts

4 oral teacher-to-teachers communications

40-45 teachers' posters

1 visit to local institutions in Vienna (UNOOSA, IAEA...)

Visit and reception at the Vienna Museum of Natural History



2009

Topic: The Earth from Space

Programme Presentations Brochure Web Conferences

2008

Topic: The Carbon Cycle

Programme Presentations Brochure

2007

Topic: Geosciences in the city

Programme Presentations Brochure

2006

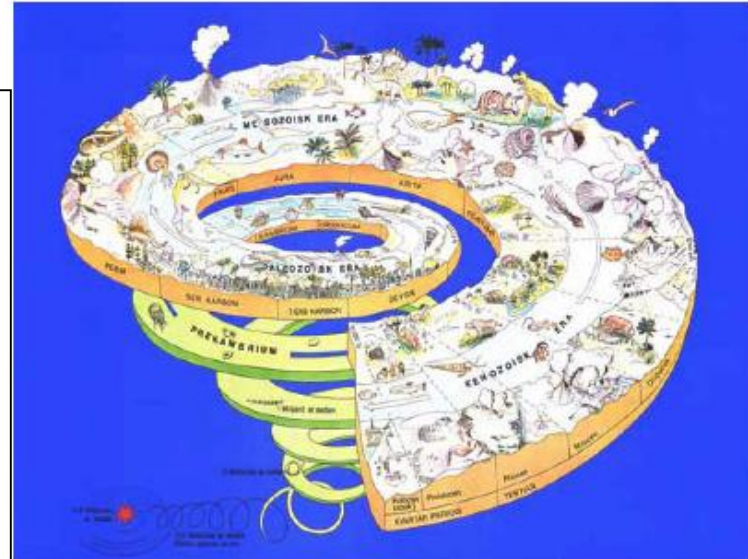
Topic: The Polar Regions

Programme Presentations Brochure

2005

Topic: The History of the Earth

Programme Presentations Brochure



*The time spiral, ©Sveriges geologiska undersökning (SGU)
Permission 30-109/2005 from the Geological Survey of Sweden*

GIFT - 2005

The History of the Earth

Geophysical Information for Teachers Workshop

Vienna, Austria, 26-27 April 2005



European Geosciences Union



GIFT - 2004

The Ocean

Geophysical Information for Teachers Workshop

Nice, France, 29-30 April 2004



European Geosciences Union



GIFT - 2010

Energy and Sustainable Development

*Geosciences Information for Teachers Workshop
Vienna, Austria, 2-5 May 2010*



European Geosciences Union

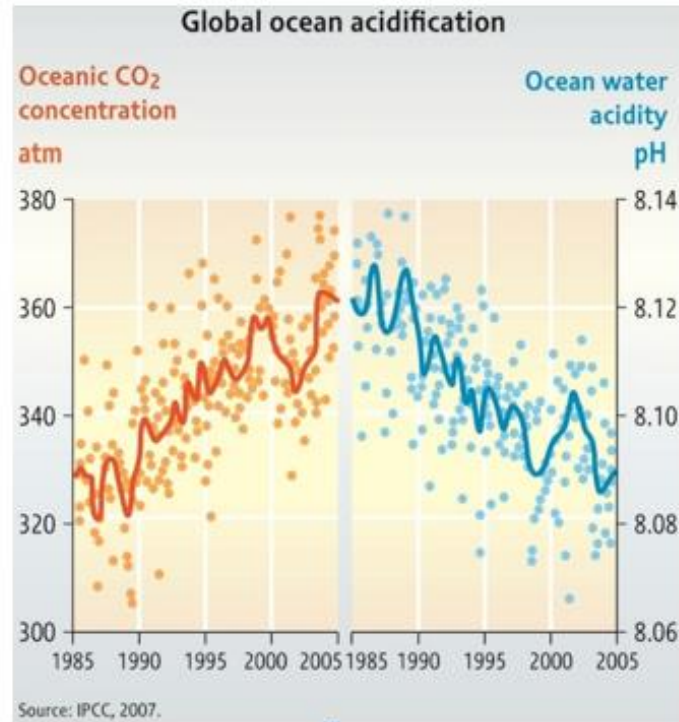
Committee on Education



GIFT - 2012

Water!

*Geosciences Information for Teachers Workshop
Vienna, Austria, 23-25 April 2012*



GIFT - 2011
Ocean Acidification

Geosciences Information for Teachers Workshop

Penang, Malaysia, June 23-24, 2011



*Tenth EGU Alexander von Humboldt International
Conference*



*GIFT - 2015
Water!*

*Geosciences Information for Teachers Workshop
Addis Ababa, Ethiopia, November 18-19-2015*



GIFT - 2012

*Natural Disasters, Global Change, and the
Preservation of World Heritage Sites*

*Geosciences Information for Teachers Workshop
Cusco, Peru, November 15-16, 2012*



GIFT Workshop 2016
Mineral Resources - Natural Hazards
Cape Town, South Africa, 27 & 28 August, 2016

Circa 906.000 risultati (0,40 secondi)

European Geosciences Union

www.egu.eu/ Traduci questa pagina

European Geosciences Union (EGU) - Dedicated to the pursuit of excellence in the geosciences and the planetary and space sciences for the benefit of ...

Meetings

Meetings. General Assembly. The EGU General Assembly is a ...

[Altri risultati in egu.eu »](#)

Publications

The EGU, through Copernicus Publications, publishes 17 peer ...

European Geosciences Union



La European Geoscience Union o è una associazione interdisciplinare aperta a persone che hanno un ruolo professionale o sono associate con le Scienze della Terra, Planetologia, Scienze dello spazio e relativi studi. [Wikipedia](#)

Sede: Monaco di Baviera, Germania

Fondazione: 2002

[Feedback](#)

www.egu.eu

European Geosciences Union General Assembly 2016 Vienna Austria 17-22 April ... their work and discuss their ideas with experts in all fields of geoscience.

European Geosciences Union - Wikipedia

https://it.wikipedia.org/wiki/European_Geosciences_Union

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European Geosciences Union - Wikipedia, the free ...

https://en.wikipedia.org/.../European_Geosciences_... Traduci questa pagina



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NEWSFOCUS

Pollutants Capture the High Ground in the Himalayas

EARTHQUAKE HUNTERS

Mariners of the Lost Sea

physics world

Northern exposure

ISLAND

Press Release: Applications open for EGU 2016 Science Journalism Fellowships (up to €5k)

The European Geosciences Union (EGU) is now accepting applications for the 5th edition of its Science Journalism Fellowship competition. The fellowships enable journalists to follow scientists on location to report on ongoing research in the Earth, planetary or space sciences. Successful applicants receive up to €5000 to cover expenses related to their projects. The deadline for applications is 6 December. [[Read more](#)]

News

[View all](#) | [RSS](#)

Journal Watch

[View all](#) | [RSS](#)

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Voting for the next EGU President/Vice-President and General Secretary

From now until 4 December 2015, EGU



Ice water content vertical profiles of high-level clouds: classification and impact on radiative fluxes



European Geosciences Union Education



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- Teacher's Corner
- GeoLocations Database
- I'm a Geoscientist
- Committee on Education

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Education

Welcome to the EGU's Education section! Here you can find information about EGU's educational initiatives, including:

- [Geosciences Information for Teachers \(GIFT\) workshops](#)
- [Planet Press - geoscientific news for children](#)
- [Teacher's Corner - teaching resources in the geosciences](#)
- [GeoLocations Database - geological locations across Europe](#)
- [I'm a Geoscientist - engagement event connecting school students and geoscientists](#)

You can also access the contact details of the EGU [Committee on Education](#) on this page.

News

- **Geosciences Information for Teachers (GIFT) Workshop - Topic: The Solar System and beyond**
The GIFT-2016 will take place in Vienna, April 18-20 2016, during the General Assembly of the European Geosciences Union. The theme of this workshop, organized in close cooperation with the European Space Agency (ESA) is « The Solar System and Beyond ». During two and a half days, the workshop will explore the major characteristics of the solar system with the latest information gathered from recent space exploration using man-made satellites and give also the latest theories on the formation of the solar system. Special attention will be paid to the Moon and to Mars. [[Read more](#)]
- **GIFT Distinguished Lectures Series - Call for Proposals**
The EGU Committee on Education is going to inaugurate an annual series of Geosciences Information for Teachers (GIFT) Distinguished Lectures, to be given by top scientists who have previously participated as speakers in GIFT workshops during EGU General Assemblies. High school teachers, high school directors and educators for teachers from the European area are welcome to request a lecture, for which the EGU Committee on Education will cover the travel and subsidise the costs of the speaker. [[Read more](#)]



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GIFT - Geosciences Information For Teachers

The EGU Committee on Education has organised Geosciences Information for Teachers (GIFT) Workshops since 2003. These are 2.5 day teacher enhancement workshops held in conjunction with EGU's annual General Assembly. There, selected top-level scientists working in the Earth Sciences offer the invited teachers talks centered on a different theme every year.

The main objective of the GIFT workshops is to spread first-hand scientific information to science teachers of primary and secondary schools, significantly shortening the time between discovery and textbook, and to provide the teachers with material that can be directly transported to the classroom. In addition, the full immersion of science teachers in a truly scientific context (EGU General Assemblies) and the direct contact with world leading geoscientists are expected to stimulate curiosity towards scientific research that the teachers then transmit to their pupils.

Aims & Scope

The EGU Geosciences Information for Teachers (GIFT) Programme offers teachers of primary school to high school the opportunity to upgrade their knowledge in geophysical themes and to shorten the time between new discoveries and textbook information.

The Programme includes three different activities:

- The GIFT Workshop:** Organised at each EGU General Assembly, this symposium combines presentations on current research by leading scientists with hands-on activities presented by science educators for about 100 invited teachers.
- The Fall Meeting:** Organised over a long weekend, this workshop brings together representatives of the European funded and the international "science and education" programmes on selected topics to prepare the next EGU GIFT Symposia.
- The GIFT Home Site:** Organised as open platform for all national, European or international "science and education" programmes, scientists interested in sharing their results with educators, and teachers interested in bringing the geosciences into



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GIFT Workshops

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| 2017 GA 2017 GIFT Workshop
Austria Center Vienna, Vienna, Austria, 24 - 26 April 2017
Topic: The Mediterranean | <ul style="list-style-type: none">▪ Presentations & Videos▪ Brochure (PDF, 15.6 MB) |
| 2016 Merida 2016 GIFT Workshop
Merida, Yucatan, Mexico, 05 - 08 October 2016
Topic: Natural Hazards, Disaster Risks and Societal Implications | <ul style="list-style-type: none">▪ Presentations▪ Brochure (PDF, 14.0 MB) |
| 2016 Cape Town 2016 GIFT Workshop
Cape Town, South Africa, 27 - 28 August 2016
Topic: Mineral Resources – Natural Hazards | <ul style="list-style-type: none">▪ Presentations▪ Brochure (PDF, 5.4 MB) |
| 2016 GA 2016 GIFT Workshop
Austria Center Vienna, Vienna, Austria, 18 - 20 April 2016
Topic: The Solar System and beyond | <ul style="list-style-type: none">▪ Presentations & Videos▪ Brochure (PDF, 5.7 MB) |
| 2015 Adis Ababa 2015 GIFT Workshop
Adis Ababa, Ethiopia, 18 - 19 November 2015
Topic: Water! | <ul style="list-style-type: none">▪ Presentations▪ Brochure (PDF, 1.6 MB) |
| 2015 GA 2015 GIFT Workshop
Austria Center Vienna, Vienna, Austria, 12 - 15 April 2015
Topic: Mineral Resources | <ul style="list-style-type: none">▪ Presentations & Videos▪ Brochure (PDF, 3.0 MB) |
| 2014 GA 2014 GIFT Workshop
Austria Center Vienna, Vienna, Austria, 27 - 30 April 2014
Topic: Our changing Planet | <ul style="list-style-type: none">▪ Presentations & Videos▪ Brochure (PDF, 6.7 MB) |
| 2014 Istanbul 2014 GIFT Workshop
Istanbul, Turkey, 27 - 28 March 2014
Topic: High Impact Natural Hazards Related to the Euro-Mediterranean Regions | <ul style="list-style-type: none">▪ Presentations▪ Brochure (PDF, 2.9 MB) |
| 2014 2014 UNESCO-EGU-ESA GIFT Africa Workshop
Port Elizabeth, South Africa, 26 - 28 February 2014
Topic: Climate Change and Human Adaptation | <ul style="list-style-type: none">▪ Presentations▪ Brochure (PDF, 2.3 MB) |
| 2013 GA 2013 GIFT Workshop | <ul style="list-style-type: none">▪ Presentations & Videos |



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GA 2015 GIFT Workshop - Mineral Resources

Monday, 13 April 2015

- Welcome!**
Günter Bloeschl
President of EGU
- Practical instructions for the workshop**
Carlo Laj
EGU Committee on Education
- Mineral raw materials: sustainability issues for the XXIst century**
Patrice Christmann
BRGM, France
[Presentation](#) (PDF, 2.1 MB)
- Mineral deposits – where do they come from and how did they get there?**
Laurence Robb
Department of Earth Science, University of Oxford, UK
[Presentation](#) (PDF, 9.4 MB)
- Role of organic geochemistry in mineral deposits**
Kliti Grice
Department of Chemistry, Curtin University, Australia
[Presentation](#) (PDF, 5.2 MB)
- Instructions for the poster session EOS02**
Eve Arnold
Stockholm University, Sweden
- Presentation of CD 'Minerals in your life'**
Claudia Delfini



GIFT WORKSHOP – 2015



MINERAL DEPOSITS WHERE DO THEY COME FROM AND HOW DID THEY GET THERE?

Laurence Robb

Dept of Earth Sciences, University of Oxford



EUROPEAN GEOSCIENCES UNION
COMMITTEE ON EDUCATION

Geosciences Information for Teachers Workshop 2015: MINERAL RESOURCES

GIFT Workshop 2015, Vienna Austria 12–17 April 2015
EGU General Assembly 2015 - Austria Center, Vienna



GÜNTER BLOSCHL

INTRODUCTION

Welcome to GIFT2015



**INTERNATIONAL
CO-OPERATION
AND
EXPLORATION
OF MINERAL
RESOURCES**



**GLOBAL
NATURAL
RESOURCE USE**

Stefan Giljum
Institute for
Ecological



**LIGHTING UP
THE
SUBSURFACE**

John Ludden
British Geological
Survey



**MINERAL RAW
MATERIALS**

Patrice Christmann
BRGM
France



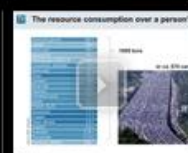
**ROLE OF
ORGANIC
GEOCHEMISTRY
IN MINERAL
DEPOSITS**

Kliti Grice



**THE
GEOLOGICAL
HISTORY**

Majken D. Poulsen
Geological Survey of
Denmark and



**CITIES-
TOMORROW'S
MATERIAL
RESERVOIRS**

Helmut Rechberger
Vienna University of



**MINERAL
DEPOSITS**

Laurence Robb
Department of Earth
Sciences
University of
Oxford, UK

Geoscience Information For Teachers Workshop 2015: MINERAL RESOURCES

MINERAL DEPOSITS
from GIFT2015 PLUS 5

.....tube worms

.....chemosynthetic bacteria

35:43

HD vimeo

EUROPEAN GEOSCIENCES UNION
COMMITTEE ON EDUCATION
Geoscience Information For Teachers Workshop 2015

GIFT WORKSHOP 2015
Vienna, Austria
EGU General Assembly 2015
Austria Center, Vienna

MINERAL DEPOSITS from GIFT2015 on Vimeo.

INTERNATIONAL CO-OPERATION AND EXPLORATION OF MINERAL RESOURCES

GLOBAL NATURAL RESOURCE USE

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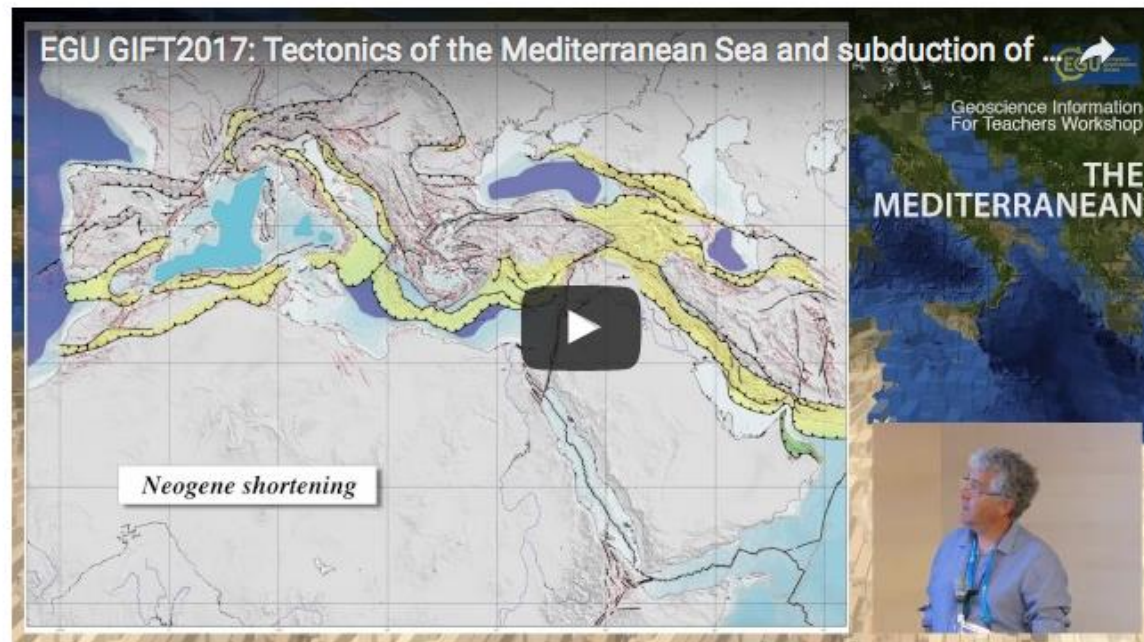
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GA 2017 GIFT Workshop - The Mediterranean

Monday, 24 April 2017

- **Welcome!**
Hans Thybo, President of EGU
- **Introduction to the 2017 GIFT workshop**
Carlo Laj, EGU Committee on Education
- **Tectonics of the Mediterranean Sea and subduction of the African plate: from basins to mountains, from mountains to basins**
Laurent Jolivet, Université d'Orléans, Paris, France
[Presentation](#) (PDF, 139.0 MB)



Tuesday, 25 April 2017

Living in a caldera: The case of Campi Flegrei, Italy

Paolo Papale, INGV, Pisa, Italy

Presentation (PDF, 9.9 MB)

Presentation (AVI Video, 27.0 MB)

Presentation (AVI Video, 8.0 MB)

EGU GIFT2017: Living in a caldera: The case of Campi Flegrei, Italy

Volume of products from historical eruptions

Volumi di materiali emessi dalle eruzioni storiche più importanti

50 km³

20 km³

15 km³

10 km³

Tambora (Indonesia) 1815
Santorino (Grecia) 1500 a.C.

Krakatoa (Indonesia) 1883

Katmai (Alaska) 1912

Vesuvio (Italia) 79 d.C.
Pinatubo (Filippine) 1991

St. Helens (USA) 1980

Vesuvio (Italia) 1631
Mt. Pele (Martinica) 1902
Etna (Italia) 1991-93

EGU Geoscience Information For Teachers Workshop

THE MEDITERRANEAN

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You can also access the contact details of the EGU [Committee on Education](#) on this page.

News

▪ **EGU Committee on Education seeking two new members**

The Committee on Education, which coordinates the EGU activities related to secondary and tertiary education, is looking for new members to help further its programmes. [[Read more](#)]

▪ **Geosciences Information for Teachers (GIFT) Workshop - Topic: The Mediterranean**

The 2017 Geosciences Information For Teachers (GIFT) workshop will take place on April 24-26 2017 at the EGU General Assembly in Vienna, Austria. The theme for the GIFT workshop is 'The Mediterranean'. It has been organized by the Committee on Education of EGU, with a large participation of the Istituto Nazionale di Geofisica e Vulcanologia (INGV) Roma, Italy.

The mediterranean area shows a distinctive geological fingerprint which attracted generations of Earth scientists. Mountain chains, orogenic belts, extensional basins, active volcanoes, violent earthquakes, tsunamis, landslides and floods testify to the vigorous active tectonics that characterize the region. The same area, owing to the favorable climate, availability of resources (i.e., water and raw materials) and the presence of the sea, allowed for trade and cultural exchanges, and made it a cradle of culture.

Currently, the area is densely populated with progressively increasing anthropogenic pressures, which, when combined with the peculiar geological setting, result in heightened vulnerability to climate change enhanced by increasing atmospheric carbon dioxide.

The workshop will explore most of these aspects. A hands-on experience session will also be part of the workshop. [[Read more](#)]

▪ **GIFT Distinguished Lectures Series - Call for Proposals**

The EGU Committee on Education is going to inaugurate an annual series of Geosciences Information for Teachers (GIFT) Distinguished Lectures, to be given by top scientists who have previously participated as speakers in GIFT workshops during EGU General Assemblies. High school teachers, high school directors and educators for teachers from the European area are welcome to request a lecture, for which the EGU Committee on Education will cover the



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EGU Planet Press

You can find all Planet Presses, including print versions and translations, in the [Articles](#) section.

What is it?

The EGU began producing science press releases in February 2012 to help raise awareness of exciting and relevant geoscience research published in one of the EGU's [17 open access journals](#) spanning the Earth, planetary and space sciences.



Press releases are aimed at journalists to help them digest the scientific research quickly and write up their own stories for media outlets – newspapers, television and online. Most science journalists however have a background in science, or at least a lot of experience dealing with cutting-edge scientific research, so we wanted to produce a version of our press releases that could be understood by everyone – even kids!

So say hello to Planet Press, the [new bitesize press releases for kids](#), parents and educators to get to grips with the latest geoscientific research going on across the world.

Planet Press is an initiative aimed at getting kids (mainly 7-13 year olds), parents, and educators interested in and engaged with up to date scientific research and news. Each Planet Press is reviewed by at least one scientist and one educator to ensure the content is scientifically accurate and that the language used is appropriate for the 7-13 age range.

How to use Planet Press

We have designed our Planet Press releases to be used by kids, parents and educators at home or at school as a learning aid, inspirational tool or simply as news pieces to help you keep up to date with exciting new science.

If you are an educator these press releases can be used in the classroom to aid teaching about current subjects such as climate change or earthquakes and tsunamis, to make lessons more interesting and relevant by taking into account modern science and developments. Use Planet Press releases in conjunction with other educational resources we have on offer through our [educational database](#).

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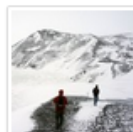
47 items found



Remove carbon dioxide from the air or risk young people's future

18 July 2017

According to a team of scientists led by James Hansen, a professor at the Columbia University Earth Institute in the US, formerly at NASA, we need to remove some of the carbon dioxide already in the atmosphere to limit global warming to a level that would safeguard children's futures. [\[Read more \]](#)



High altitudes help slow down Antarctica's warming

18 May 2017

When it comes to climate change, the Arctic and the Antarctic are poles apart. At the north of the planet, temperatures are increasing twice as fast as in the rest of the globe, while warming in Antarctica has been milder. A new study published in Earth System Dynamics shows that the high elevation of Antarctica might help explain why the two poles are warming at different speeds. [\[Read more \]](#)



Rising seas and erosion spell trouble for coral reefs

20 April 2017

Coral reefs can usually be found in shallow, clear waters in tropical oceans. They might look like they are made up of rocks, but they are actually live organisms that need sunlight to survive. If the sea level rises too fast, the corals can't grow fast enough to keep up. If the water gets too deep, corals can't get the sunlight they need. And that's not all that cause trouble for corals. [\[Read more \]](#)



Less snow and a shorter ski season in the Alps

16 February 2017

A new research study, published in the scientific journal The Cryosphere by Swiss scientists, shows that large parts of the Swiss Alps could lose up to 70% of snow cover by 2100. However, if humans manage to control greenhouse gas emissions and limit global warming, only about 30% of snow cover will be lost

[\[Read more \]](#)



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Remove carbon dioxide from the air or risk young people's future



18 July 2017

Greenhouse gases, including carbon dioxide, trap energy from the Sun in the Earth's atmosphere. Human activities including farming, transport and industry release a large amount of these gases to the air. There is so much in the atmosphere now, that the Earth is heating up faster than at any time in the planet's recent history. This global warming will have unpleasant consequences, such as more frequent and severe heat waves or droughts, as well as a rise in sea level, which could affect millions of people living in coastal areas.



We can limit these effects by reducing the amount of greenhouse gases we release to the atmosphere: by using energy more efficiently and from renewable sources, improving air conditioners or eating less meat, for example. But a new study published in *Earth System Dynamics* says this will not be enough. According to a team of scientists led by James Hansen, a professor at the Columbia University Earth Institute in the US, formerly at NASA, we also need to remove some of the carbon dioxide already in the atmosphere to limit warming to a level that would safeguard children's futures.

Hansen says that if we start to reduce how much we emit right now, we only need to remove a small amount of carbon dioxide from the atmosphere to ensure warming does not get out of hand. Simple and relatively cheap measures, such as planting more trees, could do the trick. But if we continue to release greenhouse gases the way we have been doing, we would need to develop new technology to suck up huge amounts of carbon dioxide from the atmosphere to avoid global warming's most dangerous consequences.

"It is apparent that governments are leaving this problem on the shoulders of young people. This will not be easy or inexpensive," says James. Hopefully this study will encourage governments to take action against global warming.



Large-scale wind power plant in China (Credit: Wenzhu Hou, distributed via Imaggeo.egu.eu)



Find out more

Discuss with your teacher or parents

What is sea-level rise and why would it increase in a warmer world?

How can humans limit the amount of greenhouse gases going into the atmosphere?

Why does planting trees help remove carbon dioxide from the atmosphere? What other measures can we take to extract greenhouse gases from the atmosphere?

Did you know that there is a group of children in the US who are taking their government to court for failing to protect them against global warming? Find out more at: egu.eu/2Z0E2C.

This is a kids' version of the European Geosciences Union (EGU) press release '[Removing CO₂ from the air required to safeguard children's future](#)'. It was written by Bárbara Ferreira (EGU Media and Communications Manager), reviewed for scientific content by John Connolly (DCU School of History and Geography) and Aimée Slanger (Researcher, NIOZ, Netherlands), and for educational content by Rachel Hay (Geography Teacher, George Heriot's School, Edinburgh, UK). For more information check: <http://www.egu.eu/education/planet-press/>.



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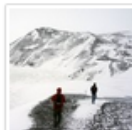
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Remove carbon dioxide from the air or risk young people's future

18 July 2017

According to a team of scientists led by James Hansen, a professor at the Columbia University Institute in the US, formerly at NASA, we need to remove some of the carbon dioxide from the atmosphere to limit global warming to a level that would safeguard children's future.



High altitudes help slow down Antarctica's warming

18 May 2017

When it comes to climate change, the Arctic and the Antarctic are poles apart. At the poles, temperatures are increasing twice as fast as in the rest of the globe, while warming is much milder. A new study published in Earth System Dynamics shows that the high elevations help explain why the two poles are warming at different speeds. [[Read more](#)]



Rising seas and erosion spell trouble for coral reefs

20 April 2017

Coral reefs can usually be found in shallow, clear waters in tropical oceans. They might be made up of rocks, but they are actually live organisms that need sunlight to survive. If the water gets too deep, corals can't grow fast enough to keep up. If the water gets too deep, corals can't get the sunlight they need. And that's not all that cause trouble for corals. [[Read more](#)]



Less snow and a shorter ski season in the Alps

16 February 2017

A new research study, published in the scientific journal The Cryosphere by Swiss scientists, shows that large parts of the Swiss Alps could lose up to 70% of snow cover by 2100. However, if humans manage to control greenhouse gas emissions and limit global warming, only about 30% of snow cover will be lost

[[Read more](#)]

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The coldest decade of the millennium

01 December 2016

The temperature at the surface of our planet is increasing and we are likely to experience warmer decades in the future. But if we go back in time, all the way to the 15th century, a different type of change in weather and climate resulted in the coldest decade of the millennium: the 1430s. [[Read more](#)]



Antarctic explorations 100 years ago tell us where sea ice was found

24 November 2016

During expeditions some 100 years ago, Antarctic explorers kept a ship's log book where they would write down observations, including about the weather and sea conditions. Modern day scientists have now used these records to learn where sea ice (frozen sea water) was found in the waters around Antarctica.

[[Read more](#)]



How are melting glaciers affecting people in Bolivia?

20 October 2016

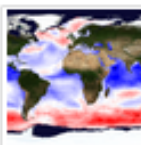
Due to climate change, glaciers around the world are shrinking. Global temperatures are increasing, which causes the glaciers to melt more and more. Scientists in the UK and Bolivia have published a new study in The Cryosphere that used images from satellites to see how these glaciers are changing. [[Read more](#)]



Loss of Arctic sea ice affecting all polar bears

14 September 2016

In a new study, published in The Cryosphere and funded by NASA, researchers at the University of Washington have found that sea ice is now melting earlier in the spring and freezing later in the autumn across all regions of the Arctic where polar bears live. [[Read more](#)]



Using ocean and weather data to find MH370

27 July 2016

Eric Jansen, a researcher at the Euro-Mediterranean Center on Climate Change in Italy, and his team have used a computer model to find out where the Malaysian airlines MH370 plane might have crashed.

[[Read more](#)]



Fire clues in cave dripwater

21 July 2016

Researchers in Australia and the UK have found that stalagmites and stalactites can be used to help trace past wildfires that burned above the cave. Fires change the chemistry of the water above ground, and these subtle changes leave traces in the stalactites and stalagmites that form when the water drips in the

caves underground. [[Read more](#)]



El glaciar y el lago glaciar de los Andes bolivianos (crédito: Simon Cook)

¿Cómo afecta el deshielo de los glaciares a la gente de Bolivia?

La cordillera de los Andes es el cordón montañoso más largo del mundo. Se extiende a lo largo de siete países de la costa oeste de América del Sur, uno de los cuales es Bolivia. En lo alto de las montañas, donde hace mucho frío, hay grandes cuerpos de hielo denominados glaciares que se forman cuando la nieve cae y se comprime por el peso de más nieve que sigue cayendo encima. Los glaciares se extienden por la ladera de la montaña y, por lo general, el extremo inferior del glaciar se derrite y se produce agua que abastece a los ríos. En La Paz y El Alto, dos de las ciudades más grandes de Bolivia, casi 2,3 millones de personas dependen en parte de esta agua de deshielo para beber, cultivar y generar energía.

Debido al cambio climático, los glaciares de todo el mundo están retrocediendo. La temperatura global está en aumento, lo que hace que los glaciares se derritan cada vez más. Los científicos en el Reino Unido y Bolivia han publicado un nuevo estudio en [The Cryosphere](#) en el que usaron imágenes satelitares para observar cómo cambian los glaciares. Descubrieron que los glaciares bolivianos se redujeron a casi la mitad de su tamaño entre 1986 y 2014. Según Simon Cook, el científico principal, esto significa que las comunidades que dependen de los glaciares tendrán más dificultades para acceder al agua en el futuro, ya que los glaciares siguen retrocediendo.

Además, a medida que el tamaño de los glaciares disminuye, es posible que el agua de deshielo genere lagos. Las avalanchas, los desprendimientos de roca y los terremotos (que suelen ocurrir en esa parte del mundo) pueden hacer que los lagos se desborden y esto puede causar daños en los pueblos cercanos. Simon afirma: «Es algo parecido a cuando alguien salta en una piscina: se crea una ola que se extiende a los lados de la piscina. Aquí, se trata de una avalancha de piedras o nieve que cae en el lago y envía agua hacia afuera y aguas abajo, y puede causar daño en los pueblos».

La investigación científica de este tipo contribuye a que la gente esté preparada para el impacto del deshielo de los glaciares de Bolivia. De esta forma, los científicos pueden ayudar a proteger a los pueblos cercanos y así salvar vidas.

Find out more

Conversa con tu docente o tus padres sobre lo siguiente:

- ¿Por qué la temperatura global está en aumento?
- ¿Dónde se ubica la cordillera de los Andes y por qué se forman glaciares allí?
- ¿Qué son las avalanchas, los desprendimientos de roca y los terremotos?
- ¿Qué otras cosas pueden verse con los satélites en la Tierra?

Este artículo es una versión para niños del artículo titulado 'Retreating glaciers in Bolivia leave communities at risk' que publicó la European Geosciences Union (EGU). La autora del artículo es Sarah Connors (investigadora asociada de Política Científica en la EGU), la revisión del contenido científico estuvo a cargo de Simon Cook (profesor en la Universidad Metropolitana de Manchester, Reino Unido) y Dirk Hoffmann (coordinador e investigador en el Instituto Boliviano de la Montaña), y la revisión del contenido educativo estuvo a cargo de Teresita Gravina (Liceo Dan Giacchi, Maddaloni, Italia). Traducción de Elisa López Schiaffino. Si desea más información, consulte el sitio web: <http://www.egu.eu/education/planet-press/>.

Many persons, not only from the Committee on Education of EGU, have given their time and energy to the preparation of this Workshop!

We all hope that you'll enjoy it and most of all that it will be useful in your teaching.

**But we also expect something from
you!**

We would like to continue to offer teachers the opportunity to attend GIFT and similar workshops, but **this depends upon us being able to show our sponsors that teachers have used the GIFT information and science didactics in their daily teaching**, or as inspiration for new ways to teach science in their schools.

Therefore we ask you:

Therefore, we ask you

1. To fill in the evaluation forms as soon as possible and email them back to us

EGU GIFT WORKSHOP
(Cape Town, South Africa, August 27-28, 2016)

EVALUATION FORM

to be emailed to Carlo Laj <education@egu.eu>
and Friedrich Barnikel friedrich.barnikel@awg.musin.de

NAME of the Teacher

School name and address :

Score (5 = very good, 0 = poor)	5	4	3	2	1	0
What is your overall evaluation of the course?						
How would you rate the course with respect to its usefulness for your work?						
How would you rate the lectures?						
How would you rate the practical sessions?						

What are the main benefits that you will take from the course?

How will you apply the skills/knowledge acquired during the course to your work?

Do you plan to apply some of the GIFT 2016 educational material for your classe? If so, please specify which material and for which course (Geography, Science, Physics, other).

Did the course meet your expectations? If not, why not?

Which subjects/lectures did you find most useful?

Were there any topics which you feel could have been covered in more detail, or which should have been added to the course?

Were there any subject areas which you feel were unnecessary?

2. Make a presentation of your experience at GIFT to a group of your teaching colleagues sometime after you return from EGU

3. Send us reports and photographs about how you have used the GIFT information in your classrooms.

And finally answer to the frequently asked question:

Can I come again to the GIFT workshop?

Every year, we welcome 10-15 % of teachers who have already attended GIFT in previous years.

These teachers are selected among those who have given us the reports!

But we have a problem for teachers coming from far away developing countries who cannot financially contribute to the air flight expenses.

I will explain on Friday how we can solve this problem for really exceptional teachers.

Enjoy the 2016 - GIFT Workshop!

The Committee on Education of EGU

