



European Geosciences Union General Assembly 2011

GeoCinema

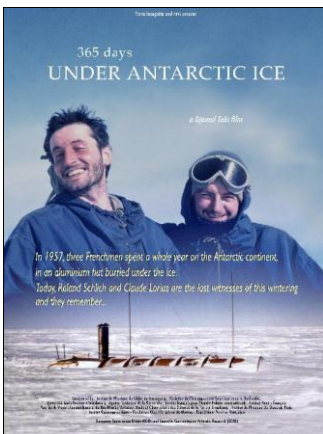
Film Information

All films have an English soundtrack or English subtitles.



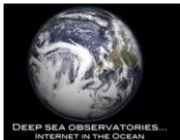
1755 The Lisbon Earthquake, 51mins

The topic is the 1755 earthquake and tsunami which destroyed Lisbon. The film combines historical sceneries from Lisbon 1755 with reports about an active seismic campaign in the Gulf of Cadiz carried out 2008 in the frame of the EU funded project NEAREST (years 2006-2010).



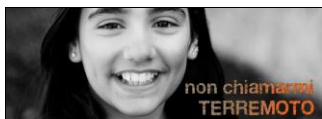
365 Days under Antarctic Ice, 60 mins

The 1st July 1957 marks the beginning of the International Geophysical Year. The scientific world decided to explore the Antarctic. Twelve nations would join efforts to initiate a vast research programme aimed to penetrate the mysteries of the white continent. Three Frenchmen, Jacques Dubois, a meteorologist, Roland Schlich, a geophysicist, and Claude Lorius a glaciologist, occupied the Charcot Station built near the South magnetic pole and located 320 km from the coast, during a whole year without any possibility of relief. They wintered from January 1957 to January 1958 in an aluminium hut only 24 m² in size, buried under the ice. Today, Roland Schlich of the School and Observatory of Earth Sciences, Strasbourg and Claude Lorius of the Laboratory of Glaciology and Geophysics of the Environment, Grenoble, are the last witnesses of this wintering and they remember... The film traces this human and scientific adventure, thanks to their evidence and unpublished documents, filmed 50 years ago. The English version of the film is sponsored by the European Geosciences Union (EGU) and the Scientific Committee on Antarctic Research (SCAR)



Deep Sea Observatories: Internet in the Ocean, 9 mins

ESONET movie to show observatories preparation and deployment on ESONET sites <http://www.esonet-noe.org/Gallery/Movies>.



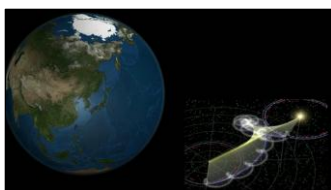
Don't call me earthquake, 30 mins

Docu-fiction between Bologna e L'Aquila with the aim of explain to teenagers how to prevent Earthquake risks. www.nonchiamarmiterremoto.it



Drill Bits, 20 mins in total

Drilling into Lake Peten Itza (Guatemala) for paleoclimate studies on drill core. Scientific drilling into Lake Malawi (Malawi) for paleoclimate studies. Drilling through the San Andreas Fault at seismogenic depths. Scientific Drilling at Hawaii to investigate Hot Spot volcanism. http://www.icdp-online.org/front_content.php?idcat=1275



Earth System Trailer, 7 mins

Trailer for a documentary feature about climate, what the scientists know, what is unknown and what needs to be done to improve our stewardship of this planet. ESS trailer explores the need for next generation supercomputing to develop climate models which are a prerequisite to predicting climate change with scientific certainty. <http://businessinfocus.wistia.com/projects/23124>



EISCAT_3D, our window to geospace, 7 min

FFAB:UK, together with EISCAT Scientific Association, has produced an information film about the EISCAT_3D project. It explains the background, the concept, and some of the new science that will be possible when the EISCAT_3D facilities are completed. <http://www.eiscat3d.se/content/film-eiscat3d-information>



Faces of Earth: Assembling America, 46 mins

Episode 3 of the AGI Faces of Earth series shows how the landscape of North America formed over the last several hundred million years, guided by leading geoscientists as they explore the story of the continent. This is part of the 4-part series produced by the American Geological Institute and originally aired by Discovery.



Faces of Earth: Building the Planet, 50 mins

Episode 1 of the AGI Faces of Earth series examines how the planet was formed, techniques used in the geosciences to examine the geologic past, and how earth materials are brought into being a cornerstone of society. This is part of the 4-part series produced by the American Geological Institute and originally aired by Discovery.



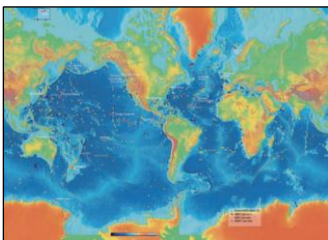
Faces of Earth: Human World, 45 mins

Episode 4 of the AGI Faces of Earth series examines how the Earth has shaped human evolution and how humans have become a force of nature themselves. Beginning with the dawn of agriculture and continuing into the future, this episode shows how humans are part of the natural world, both impacted by and influencing the Earth system. This is part of the 4-part series produced by the American Geological Institute and originally aired by Discovery.



Faces of Earth: Shaping the Planet, 48 mins

Episode 2 of the AGI Faces of Earth series examines how the planet is constantly changing. Viewers travel around the world with geoscientists to study why the ground is constantly shifting under our feet. Compelling special effects and advanced animation techniques take viewers inside of tectonic processes. This is part of the 4-part series produced by the American Geological Institute and originally aired by Discovery.



Future of Integrated Ocean Drilling, 8 mins

During the last four decades ocean research drilling has made it possible to gain a window through which we can see, explore, and analyse our planet's complex workings. Buried beneath the ocean floor, scientists have unveiled an archive of Earth's climatic, biological, chemical and geological history. The current phase of scientific ocean drilling, the Integrated Ocean Drilling Program, will end in 2013. Plans for the continuation and development of this program, to be known as the International Ocean Discovery Program, are currently under discussion. The video documents an important step in the ongoing process towards a new science plan: the INVEST conference, which was held in Bremen in September 2009. Eminent scientists from the IODP community point out why scientific ocean drilling is needed now and in the future. Authorship: Integrated Ocean Drilling Program, Management International (IODP-MI). <http://www.iodp.org/The-Future-of-Scientific-Ocean-Drilling/>



Greg Stone: Saving the ocean one island at a time, 17 mins

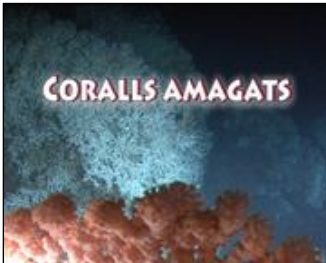
Aboard Mission Blue, scientist Greg Stone tells the story of how he helped the Republic of Kiribati create an enormous protected area in the middle of the Pacific -- protecting fish, sealife and the island nation itself. Talk from TED.com, distributed under a Creative Commons License.

http://www.ted.com/talks/lang/eng/greg_stone_saving_the_ocean_one_island_at_a_time.html



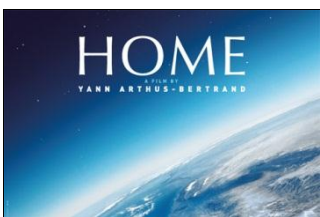
HIAPER, 45 mins

This is a film on the National Science Foundation project to build a new research aircraft -- Gulfstream G-V. The video documents the planning for, modifying of, and first use of this high performance aircraft.



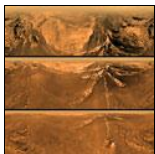
Hidden Corals, 27 mins

Imagine the dark, deep, cold, silent waters of the ocean floor. Imagine an unknown hidden world. Imagine turning on a light ... Realms of biodiversity, spectacular animal species associations that nobody could see; absolute beauty in darkness. Since they were discovered by accident about two hundred years ago, deep water corals found their way to the scientific community and to all people curious of the beauty of nature. Cold-water corals were, without any doubt, one of the best kept secrets of the deep ocean.



Home, 90 mins

Shot in 54 countries and 120 locations over 217 days, HOME presents the many wonders of planet Earth from an entirely aerial perspective. As such, we are afforded the unique opportunity to witness our changing environment from an entirely new vantage point. In our 200,000 years on Earth, humanity has hopelessly upset Mother Nature's delicate balance. Some experts claim that we have less than ten years to change our patterns of consumption and reverse the trend before the damage is irreversible. Produced to inspire action and encourage thoughtful debate, HOME poses the prospect that unless we act quickly, we risk losing the only home we may ever have. <http://www.homethemovie.org/>



Huygens probe landing on Earthlike world, 5 mins

This short film documents spectacular descent of ESA's Huygens on Saturn's giant moon Titan. http://www.esa.int/SPECIALS/Cassini-Huygens/SEMKVQOFGLE_0.html



Ice Bound in Antarctica, 55 mins

A day to day life on the edge of Antarctica, during one entire year in the French polar station Dumont d'Urville. 26 persons, researchers and technical staff cut off from the rest of the world, with no escape possible.

http://www.collectifpolaire.org/fr/index.php?Page=Prestations_Projections_Journal_D_Un_Hivernant.php



Ice Crystal, A Scientific Expedition Into the Heart of the Waterfall, 16 mins

This film presents a 3 year study about waterfall ice, formation, evolution and ending. The study was performed in the French Alps by a team of researchers from the Laboratoire de Glaciologie in Grenoble and mountain guides, and was financed by the Petzl Foundation and CNRS. The main topic is about the nature of the ice within the waterfall, the waterfall growth associated with temperatures, and its mechanical stability over a winter season. Key questions asked about safe ice climbing conditions are partly answered thanks to some of the results obtained by this original study.



Inspection Exercise in Jordan, 6 mins

This film discusses a simulated on-site inspection exercise that was carried out in regards to monitoring compliance of the Comprehensive Nuclear-Test-Ban Treaty.

<http://www.youtube.com/watch?v=77KcMbcLnk0>



IODP 318 Wilkes Land Expedition, 20 mins

From January to March 2010, the JOIDES Resolution sailed on IODP Expedition 318 to the Antarctic coastline of Wilkes Land. During this two-month voyage a team of top international scientists explored the history of Antarctic climate changes over the past 53 million years. By drilling for unprecedented sediment cores from the bottom of the Southern Ocean, scientists can begin to understand the process behind the transition from the greenhouse world into the present icehouse world and its impact on global climate. This 20 minute documentary tells their story; the adventures at sea, the scientific operations and life on board <http://www.youtube.com/watch?v=uHE34BgebY>



Lee Hotz: Inside an Antarctic time machine, 10 mins

Science columnist Lee Hotz describes a remarkable project at WAIS Divide, Antarctica, where a hardy team are drilling into ten-thousand-year-old ice to extract vital data on our changing climate. Talk from TED.com, distributed under a Creative Commons License. http://www.ted.com/talks/lang/eng/lee_hotz_inside_an_antarctic_time_machine.html



Listening for Nuclear Noise, 5 mins

This film discusses some of the technology used to monitor compliance of the Comprehensive Nuclear-Test-Ban Treaty. In particular the technology that goes into a typical infrasound monitoring station, this particular station is located in the Bavarian Forest. <http://www.youtube.com/watch?v=B7TxFKyW35M>



Michael Specter: The danger of science denial, 17 mins

Vaccine-autism claims, "Frankenfood" bans, the herbal cure craze: All point to the public's growing fear (and, often, outright denial) of science and reason, says Michael Specter. He warns the trend spells disaster for human progress. Talk from TED.com, distributed under a Creative Commons License.

http://www.ted.com/talks/lang/eng/michael_specter_the_danger_of_science_denial.html



Models and Reality: Alfred Wegener Medal Lecture by Prof. Pierre Morel, 47 mins

Discusses the role of theoretical investigation, versus observation of natural phenomena in the advancement of science.



Ocean Under Observation, 9 mins

This movie explain why now we have to go a step forward in the earth and Sea observation by developing and implementing deep sea observatories that are able to provide real time or near real time data continuously, with a high sampling frequency and on long term, (more than 10 years). the movie can be previewed at <http://www.esonet-noe.org/Gallery/Movies>.



River Trip with family, 5 mins

Water is life! A family experiences the element "water" in a series of different settings during a boat cruise on a river. The film gives an overview of the benefits hydrology provides to society in the context of the so-called State's provision of general public services. It was produced by the German Federal Institute of Hydrology (BfG), on behalf of the Federal Ministry of Transport, Building and Urban Affairs (BMVBS) to commemorate the anniversary "200 Years of Hydrology in Germany". Available on YouTube <http://www.youtube.com/watch?v=URbQGXRqyk>.



Rob Dunbar: Discovering ancient climates in oceans and ice, 18 mins

Rob Dunbar hunts for data on our climate from 12,000 years ago, finding clues inside ancient seabeds and corals and inside ice sheets. His work is vital in setting baselines for fixing our current climate -- and in tracking the rise of deadly ocean acidification. Talk from TED.com, distributed under a Creative Commons License.

http://www.ted.com/talks/lang/eng/rob_dunbar.html



Royal NIOZ, Fathoming the Sea, 10 mins

Once again a prominent scientific institute called Zenes help in making science accessible for all who are fascinated by marine sciences. After NWO, Utrecht University, European Science Foundation and NSF/IODP (USA), NIOZ, the Royal Dutch Maritime Research Centre, has asked us to produce a film focusing on how oceans work, global climate history, the dynamics of the coastal Waddenzee and the significance of Dutch maritime research. http://www.youtube.com/watch?v=l_BLG8AkV7M



Science@ESA: Solar System, Siblings of Earth and the Moon and Titan, 54 mins

In these Science@ESA vodcasts Rebecca Barnes looks at the Solar System. We'll discover the scale and structure of the Solar System, find out why we explore it and introduce the European missions launched on a quest to further investigate our local celestial neighbourhood. We'll look at two of the terrestrial planets: Venus and Mars, explore their similarities and differences to Earth and find out about the European missions that are helping to unravel their mysteries. Finally we'll look at the Earth's Moon and Titan, two very different natural satellites in our Solar System, and find out about the two ESA missions that have explored them.

<http://astronomy2009.esa.int/science-e/www/object/index.cfm?fobjectid=44686>



Signs of Life on Mars, 5 mins

A musical video to inspire the next generation of explorers

http://um3d.dc.umich.edu/proposals/TGMR/signs_of_life_on_mars.mp4 .



SNORTEX - Snow reflectance transition experiment 10 mins

The video introduces the SNORTEX (Snow Reflectance Transition Experiment) campaign taken place in Sodankylä (lat. 67.4N), Finland, in spring 2009. An overview on the background, objectives and expected scientific outcome of the campaign is given. Experimental methods and equipment employed in ground-based and air-borne measurements of snow reflectance and characterization of snow properties are presented. <http://media.seitasaatio.fi/mediapaja/NETTIVIDEOITA/Webbisivu/Snortex.html>



Stefano Mancuso: The roots of plant intelligence, 14 mins

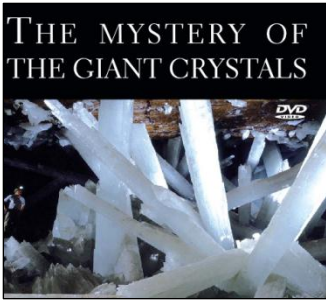
Plants behave in some oddly intelligent ways: fighting predators, maximizing food opportunities ... But can we think of them as actually having a form of intelligence of their own? Italian botanist Stefano Mancuso presents intriguing evidence. Talk from TED.com, distributed under a Creative Commons License

http://www.ted.com/talks/lang/eng/stefano_mancuso_the_roots_of_plant_intelligence.html .



The international charter on space and major disasters, 10 mins

A description of the international charter on space and major disasters. A joint effort of international space agencies like NASA and ESA to provide satellite data to help forces in the case of natural disasters or for humanitarian aid actions.



The Mystery of the Giant Crystals, 51 mins

This a fascinating adventure in scientific research. A journey into the depths of the Earth in search of the most beautiful treasures of the mineral world, to explain one of its great mysteries: the formation of giant gypsum crystals. From the Roman mines of Segóbrica described by Pliny the Elder, to Europe's biggest geode, found in Almería, Spain; from the volcanic depths of the Andes, to the grandiose "Cueva de los Cristales de Naica", an authentic crystal palace hidden beneath the Mexican desert of Chihuahua, we shall discover the wonderful world of crystals, their science and their beauty, through the guiding hand of Professor Juan Manuel García-Ruiz.

http://elmisteriodeloscristalesgigantes.com/www.elmisteriodeloscristalesgigantes.com/The_movie.html



The perfect eruption - Etna 2002-03, 30 mins

The 2002-03 Mt. Etna eruption represents an extraordinary and complex event. During the eruption several different phenomena occurred at the same time : propagation of eruptive fractures, formation of spectacular cones, explosive activity and ash fallout for months, threatening lava flows on different flanks of the volcanic natural park, notable deformation, marked seismicity. From a scientific point of view, a perfect eruption. The documentary describes the subsequence of the events and the complex system of scientific activity of monitoring and study set in motion that combined with the activity of the civil defence commendably for the protection of this extraordinary environment. The film has been produced by Istituto Nazionale di Geofisica and Vulcanologia (INGV) and RAI – Radiotelevisione Italiana. Recently it received several awards and prizes such as the award for the best documentary at "International documentary film festival of Sondrio (2008)", and the special award for scientific contents at "International Festival of scientific documentary for University and Research Institutions - DOCSCIENT of Rome (2009)"



Tipping Point, 54 mins

Increasing levels of CO₂ in the atmosphere are not only causing global warming. The oceans are also absorbing huge quantities of CO₂ which in turn is changing their chemical composition, severely damaging the marine environment. By following leading international researchers, "Tipping Point" takes us around the world and underwater to discover how ocean acidification is changing marine ecosystems and what scientific solutions can be found to solve the problem. Through beautiful shot undersea images and a careful scientific approach, the film tackles the main issues of this relatively new phenomenon by providing solutions before it is too late. Tipping Point" © Georama TV, HDCAM. Scientific Advisers: Jean-Pierre Gattuso and Ulf Riebesell. http://www.ebu.ch/en/eurovisiontv/science_education/tippingpoint.php



We are prepared - Tsunami Early Warning System, 5 mins

Describes the installation of a Tsunami Early Warning System (GITEWS) in Indonesia and shows some of the different components. It reflects the interaction as well as the human factor. http://www.gitews.de/fileadmin/documents/content/press/Trailer1Mbps_Stream.wmv

/WHERE
DINOSAURS
LIVED?/

Where dinosaurs lived? Documenting Cretaceous Palaeoclimate, 21 mins

Integrating field and laboratory team work in order to reconstruct the environment where the European island fauna lived during the Late Cretaceous