

A person in dark winter gear stands on a vast, icy landscape, holding a tool. The scene is dominated by a massive, textured ice wall on the left, covered in numerous long icicles. The ground is a smooth, reflective ice surface. The sky is a clear, pale blue. The overall atmosphere is cold and majestic.

# INTERNATIONAL POLAR FOUNDATION

## ANNUAL REPORT **2011**

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# I. Foreword

Following its completion in 2010, the International Polar Foundation's landmark Princess Elisabeth Antarctica project came of age in 2011, when it reached its visionary potential of being powered solely by sun and wind and became the first ever zero emission polar research station.

During the 2010-2011 and 2011-2012 austral summers, the Foundation's team at Princess Elisabeth Antarctica welcomed a host of scientists from Belgium, Europe and further afield, who travelled to Antarctica to carry out polar scientific research, crucial for broadening understanding of our planet's mechanisms. While at the station, visitors learned that its integrated smart grid offered energy on a needs and demand basis – and came to understand that this electricity must be used with consideration.

This kind of revolutionary behavioural change is crucial for addressing current and future energy challenges, and forms the root of the International Polar Foundation's work in Antarctica, Europe and throughout the world.

In 2011, the Foundation continued to contribute to a greater understanding of climate issues and acceptance of renewable energy amongst EU citizens, through programmes such as Class Zero Emission, which engages hundreds of school age children and teachers on polar science, climate change, and our everyday use of energy.

In the course of the year, the Foundation's representatives took leading roles in financial, educational and scientific fora, projects and initiatives in Europe and beyond, and continued to develop appreciation of the role of polar science, and the need for an intelligent and considered global response to climate change including the reduction in our use of fossil fuels

The successful Arctic Futures Symposium, held in Brussels in October 2011, once again showed the Foundation's support for increased EU engagement and responsibility in Arctic issues. The event found that international cooperation between all stakeholders is the way forward achieving sustainable Arctic policies.

In late 2011, the International Polar Foundation's Polaris Climate Change Observatory was launched in Cape Town. Designed to be a state-of-the-art, interactive facility, the PCCO will display polar research via innovative installations, and provide tools for improving public understanding of the mechanisms driving climate change, and possible responses to prevent or adapt to them. The Foundation is actively working to establish further PCCOs in Europe and in other regions.

In 2012, the International Polar Foundation looks to further developing its projects, and proving that the climate challenge can be met through goodwill and collaboration between civil society, business and governments, and that it is possible to achieve a low carbon society without compromising our collective or individual wellbeing.

A handwritten signature in black ink, reading "Alain Hubert". The signature is fluid and cursive, with a long horizontal line extending to the right from the end of the name.

Alain Hubert, President of the Board of Directors of the IPF

# **II. The International Polar Foundation: Connecting science and society**

The International Polar Foundation supports polar scientific research for the advancement of knowledge, the promotion of informed action on climate change, and the development of a sustainable society.

The Foundation was created with the objective of providing a novel interface between science and society, and was recognised by Belgian Royal Statute as a foundation for the public good in 2002. It seeks to bring about a keener appreciation of the role of science, particularly research in the Polar Regions, through a re-examination of the planet's interconnections, its fragility, the impact of human actions on the environment, and the evolution of millennial climate cycles.

As we advance through the 21st century, there is an urgent need to find coherent responses to questions concerning our relationship with the Earth, with particular regard to climate change. The impact of human activities on the finite, fragile biosphere on which we depend for survival has disturbed natural cycles. The future depends on our ability to objectively unravel the complexity of natural variations and to analyse the risks of a deviation. This heightened understanding will enable us to make a rapid and intelligent response to the unprecedented situations that humanity currently faces. The longer we wait before taking substantive action, the more limited our choices.

Researchers in the Polar Regions are actively trying to fill gaps in knowledge that will address the uncertainties surrounding the pace, magnitude and direction of change related to global warming.

Painstaking research on the polar ice caps of Antarctica and Greenland has yielded evidence of the causal link between human-related carbon dioxide emissions, mean surface temperature, and climate change.

Even better tools are now needed to further assess future risks from warming phenomena, which could accelerate the melt of polar ice sheets and cause sea levels to rise.

The dual function of the Arctic's sea ice also has a part to play. Its particular sensitivity to warming trends on the planet make it both an early warning system and a reflective shield that keeps warming partially in check.

Due to the crucial role of the Poles in regulating the Earth's heat balance, it is necessary to sustain scientific efforts towards understanding these mechanisms, and to facilitate the transmission of the latest scientific findings to the wider public. To this end, the International Polar Foundation supports the efforts of the global scientific community by providing new tools for disseminating and communicating research findings, and by leveraging support for research infrastructure and activities.

# III. International Polar Foundation Structure

## Honorary President:

HRH Prince Philippe of Belgium

## Founders:

Alain Hubert – Civil Engineer, Polar Explorer, Mountain Guide

André Berger - Climatologist, Emeritus Professor at UCL (Belgium), Honorary President of the European Geosciences Union

Hugo Declair - Glaciologist, Emeritus Professor at VUB (Belgium)

## Honorary Members:

Roger Barry, National Snow and Ice Data Centre (NSIDC), USA

Paul Crutzen, Max Planck Institute, Mainz, Germany

Ivan Frolov, Arctic and Antarctic Research Institute (AARI), Russia

Claude Lorius, Laboratoire de Glaciologie et Géophysique de l'Environnement (LGGE), France

Lawrence Mysak, McGill University, Canada

Olav Orheim, Norwegian Research Council, Norway

Dahe Qin, China Meteorological Administration (CMA), China

Chris G. Rapley, University College London (UCL), UK

Susan Solomon, Massachusetts Institute of Technology (MIT), USA

Konrad Steffen, Cooperative Institute for Research in Environmental Sciences, University of Colorado

Jorn Thiede, St Petersburg State University, Russia

Svein Tveitdal, GRID Arendal, UNEP, Norway

Okitsugu Watanabe, National Institute of Polar Research (NIPR), Japan

## Management Committee:

Alain Hubert: President

Nighat Amin: Vice President, International Affairs

Thierry Touchais: Executive Director

Henri Tassenoy: Financial Director

# International Polar Foundation Board Members

Alain Hubert - Founder - Chairman of the Board of Directors  
Explorer, Emeritus Writer, Civil Engineer, Mountain Guide

André Berger - Founder  
Climatologist, Emeritus Professor at the Université Catholique de Louvain (Belgium) and former President of the European Geophysical Society

Hugo Decler - Founder  
Glaciologist, Emeritus Professor at the Vrije Universiteit Brussel (Belgium)

Jacques Brassinne de la Buissière – Vice-President IPF  
President of the Brussels Museum of Polar History and Exploration  
N.F.D. Johnson-Amin – Vice-President IPF  
Environmental Chemist, Global Strategies Director

François-Xavier Huberlant  
CEO Airpar

Philippe Bodson  
Engineer & MBA, Independent Director

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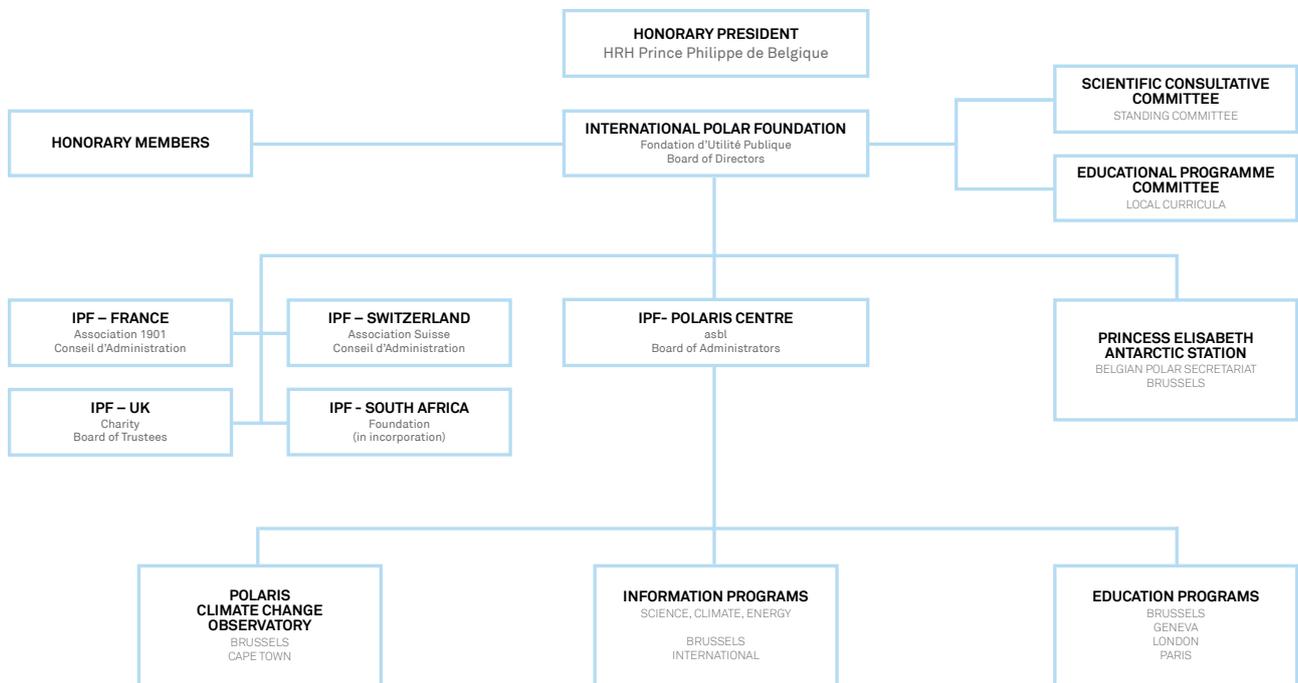
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# Organization chart



# **IV. Focus of the Year: Princess Elisabeth Antarctica**

The Princess Elisabeth Antarctic project came to fruition in 2011, with the station reaching its planned potential as a Zero Emission installation, powered only by the sun and wind.

The International Polar Foundation is the Antarctic Operator of Princess Elisabeth Antarctica on behalf of the Belgian state and the Belgian Polar secretariat.

The station, which continues to be an exemplary and evolving technical prototype, is designed and constructed to seamlessly integrate passive building technologies, renewable wind and solar energy, water treatment facilities, continuously monitored power demand and a smart grid for maximising energy efficiency.

The success of Princess Elisabeth Antarctica marks an important development in the philosophy of sustainable development, demonstrating how the climate challenge can be met through goodwill and collaboration between civil society, business and governments. The project proves how readily accessible technology can be harnessed to achieve a low carbon society, without compromising our collective or individual wellbeing.

The energy solutions perfected at Princess Elisabeth Antarctica are already being successfully commercialised by the project's technical partners for use in mainstream applications that will redefine energy use in commercial and industrial buildings, and in every home, town and city across the world.

## **2010-2011 Antarctic Season**

During the 2010-2011 season, the International Polar Foundation continued the development of its autonomous micro smart grid, an innovative energy management system that balances electricity offer and demand to maximize energy efficiency and optimize energy use. The station's occupants learn that the energy on offer, and must be used wisely – a behavioural lesson that must be learned by energy users worldwide.

The team increased power reliability, installed new backup generators (required under the Madrid Protocol rules) and carried out test on grid synchronization. They upgraded the system software, and fine-tuned performance across the entire Princess Elisabeth System, including the water treatment and solar thermal heating installations used for melting of ice and water heating.

## **2011-2012 Antarctic Season**

Further development of the Antarctic station's energy efficient zero emission systems has been carried out over the 2011-2012 season, such as upgrading to higher capacity storage batteries, which will produce an estimated 25% increase in capacity.

# V. Activities of the IPF

## Antarctica

### BELARE 2010-2011

The season saw an impressive array of science projects at the station, with the BELISSIMA (glaciology) team conducting measurements on the Antarctic coast in order to better understand the interactions between the ocean and the ice at their contact point with the ice shelf.

Later in the season, scientists from the MICROMETA (Meteoritics), SAMBA (Meteoritics), GIANT/LISSA (Geomorphology), BELATMOS (Meteorology), HYDRANT (Meteorology), and BELDIVA (Microbiology) scientists all came to work at Princess Elisabeth Antarctica.

Princess Elisabeth Antarctica continues to welcome international scientists, and in 2010-2011 saw the arrival of teams from the German BGR (Geology) and DoCo (Geophysics) projects, while Japanese scientists working on the SAMBA meteorite project (Cosmochemistry), collaborated with Belgian geochemist Steven Goderis.

### BELARE 2011-2012

For the 2011-2012 season, the Princess Elisabeth Antarctica team provided professional support to 20 geologists, glaciologists, microbiologists, seismologists and meteorologists from Belgium, Germany, Japan and the US, ensuring they could work smoothly and safely in the harsh Antarctic conditions, in what would be the most logistically demanding season since operations began in 2008. In addition, further development of the Antarctic station's energy efficient zero emission systems was planned, such as upgrading to higher capacity storage batteries, which will produce an estimated 25% increase in capacity.

## Arctic Futures Symposium

As global warming continues to drive change throughout the region, the 2011 Arctic Futures Symposium again proved to be an important platform for frank and animated debates amongst the region's stakeholders. The two-day event found that international cooperation is the key to achieving sustainable policies for the Arctic that benefit the people that live and work there, to protect the region's fragile ecosystem and explore the way forward for scientific research and the development of natural resources.

The need for enhanced Arctic search and rescue (SAR) capabilities and environmental protection measures were among the Symposium's main findings, while cooperation and dialogue among Arctic States, inhabitants and other stakeholders of the unique and environmentally fragile region were also amongst the issues highlighted.

Held at the Lippens Auditorium at the Royal Library of Belgium in Brussels in October, the Arctic Futures Symposium brought together EU and foreign policymakers, scientists, industry representatives, indigenous peoples and academics.

Arctic Futures is an initiative of the International Polar Foundation, in partnership with the Prince Albert II of Monaco Foundation, under the themes of cooperation, science, economy and peoples in the Arctic. Featured speakers at the 2011 symposium included HSH Prince Albert II of Monaco, Iceland's President Ólafur Ragnar Grímsson, and key EU and Senior Arctic Council Officials.  
[www.arcticfutures.org](http://www.arcticfutures.org)

## Education

### Class Zero Emission

The International Polar Foundation's highly successful pedagogical workshop, Class Zero Emission brings new interactive methods into the classroom, reaching school age children and their teachers with current science knowledge on polar science and climate change. Class Zero Emission combines the tools and methodology of science with hands-on experiments and activities that can be integrated into existing curricula.

The classes allow students to follow in the footsteps of research scientists and polar explorers, and learn practical ways of applying 'sustainable' actions to their daily lives.

Class Zero Emission started 2011 by updating its existing polar and climate-related experiments and adapting them to specific ages and teaching levels. Over the course of the year, Class Zero Emission provided more than 27 demonstrations to 563 French-speaking students and 20 demonstrations to 390 Dutch speakers.

### Polar Quest

In May, Belgian schooleacher Koen Meirlaen led his class at Leiepoort Deinze Campus Sint-Hendrik school to victory in the Polar Quest contest, for developing the AHA project to increase the awareness of teachers, parents and students alike towards sustainable development.

During the 2011-2012 Antarctic season, Koen will spend a month at Princess Elisabeth Antarctica, where he will communicate the work of polar scientists to students back in Belgium, as an addition to their normal curriculum.

Polar Quest is an initiative of the International Polar Foundation, supported by the Action Plan of the Government of Flanders, to inform students of the challenges and importance of scientific research in the Polar Regions, with particular focus on Princess Elisabeth Antarctica polar research station.

The AHA Project, and the Polar Quest project originated in school's classroom, and eventually involved the entire school, the town and won a strong following in the whole region.

### Students on Ice

In July 2011, education officer Isabelle Du Four joined the Students on Ice ship expedition to the Arctic, where she provided workshops on polar fundamentals and environmental issues.

The Students on Ice program provides youth from around the world with ship-based educational expeditions to the Arctic and Antarctica, in order to educate and inspire the next generation of polar scientists and environmental leaders – foster a greater understanding and respect for the planet. Since 2000, over 1,600 high school and university students from 40 countries have taken part.

### Scientix

In May, the Head of the Foundation's education team, Sandra Vanhove took part in Scientix, the web-based community for science education in Europe open for teachers, researchers, policy makers, community leaders, parents and anyone interested in science education. Sandra gave a presentation on Class Zero Emission, and the importance of linking polar sciences and basic curriculae for a more comprehensive approach, and to broaden students' views about the complexity of the earth's climate systems.

## U4Energy

Education officer Isabelle Noirot lead a strong collaboration between the Foundation and U4Energy, an initiative funded through the Intelligent Energy Europe programme, and managed by managed by European Schoolnet. U4Energy is a competition for teachers and pupils to learn about energy efficiency, by performing short and longterm actions that help reduce daily consumption.

## Italian Summer School

The education team's Sandra Vanhove was invited to give a Class Zero Emission workshop for the first edition of the Italian Polar Summer School for Science Teachers (SPEs) in Genova, Italy, from 18-23 July 2011. The school, which was launchin response to a need to "illustrate the relevance of polar science topics and their enormous educational potential", trains teachers to address polar science in their classroom, and aims to drive momentum for the inclusion of polar science-based education tools in current curriculae. The school is organized by the National Museum of Antarctica with the Italian Ministry of Education, as part of the International Polar Year 2012.

## Polaris Climate Change Observatory

On December 8th 2011, Their Serene Highnesses Prince Albert II and Princess Charlene of Monaco honoured the official launch of the Polaris Climate Change Observatory (PCCO), a project conceived by the International Polar Foundation, at the ceremony at the Clock Tower in Cape Town, South Africa.

The Polaris Climate Change Observatory is designed to be a state-of-the-art, interactive facility, where polar research findings can be displayed through innovative installations, explained in a global context. It will provide tools for improving public understanding of the mechanisms driving climate change, and possible responses to prevent or adapt to them.

By exploring and understanding the natural workings of the Earth's climate, the PCCO will retrace the evolution of the Earth's climate, and its possible future. The Observatory work to explain the current drivers of climate change fueled by human activities (including industry and agriculture), and how our future actions will depend on our capacity to understand the pace and direction of these changes.

The PCCO project is strongly supported by the City of Cape Town and the developers of the V&A Waterfront. Scheduled to open its doors to the public in 2014, the Polaris Climate Change Observatory will be a benchmark in design and technology in a city recently chosen to be the "World Design Capital" for 2014.

The International Polar Foundation is working with local partners to establish Polaris Climate Change Observatories in locations around the World. The PCCO regional platforms will provide the public, policy makers, industry and civil society with a forum for interaction, and for developing the collaborative actions required for an adapted response to global development in the face of climate change.

[www.polarisobservatory.org](http://www.polarisobservatory.org)

# Other Activities

## Awards

### InBev-Baillet Latour Antarctica Fellowship

The InBev-Baillet Latour Antarctica Fellowship is awarded annually to young polar scientists, providing them with the means to pursue scientific research in the Antarctic, in the vicinity of Princess Elisabeth Antarctica station.

A joint initiative of the InBev-Baillet Latour Fund and the International Polar Foundation, the €150,000 Fellowship promotes scientific excellence in Antarctica and polar science's crucial role in furthering our understanding of the Earth. Awarded annually to young polar scientists, the fellowship provides the means to pursue scientific research in the Antarctic, in the vicinity of Princess Elisabeth Antarctica station.

The November 2011 call for project proposals for the first time opened up to the Fellowship to doctoral and post-doctoral researchers under 35, from anywhere in the world. Research areas selected were glaciology, microbiology (excluding marine), and geology. An international scientific jury and fellowship committee are set to consider applications, and the chosen laureate will be announced in October 2012.

### EE Awards

The 2011 International Polar Foundation Award, for candidates who have a beneficial impact on the struggle against climate change, was presented to Eandis at the 6th edition of the Energy and Environment Awards in Tour & Taxis (Brussels) on May 27th. Eandis is an investment project, partnered with the City of Antwerp to reduce the energy consumption and costs in Antwerp schools by at least 26%. The aim of Eandis, in partnering with the City of Antwerp, is to reduce energy consumption and take green measures in schools. With 50 schools involved, this project is set to become a model for the entire Flemish Community and the rest of Belgium. For the Foundation, the collaboration of industry, urban administrations and educational establishments matches our mission of raising awareness of climate change and the need for innovative responses to energy demands.

## Exhibitions

From March 30th to May 31st 2011, the International Polar Foundation was featured in the exhibition "From Brussels, Xiè Xiè Shanghai" ("Thank You, Shanghai"), at Tour & Taxi Brussels. The exhibition brought back to Brussels the chance to experience the Belgium Pavilion that featured at the 41st World Expo. The Foundation, whose Ice Cube was part of the Shanghai exhibition, was represented by a scale model of the Princess Elisabeth Antarctica, Antarctic meteorites and rocks, a video on the construction of the world's first "zero emission" station, along with a slide show presenting the various scientific projects conducted at the polar research station.

## Conferences and Participation

The Foundation's staff presented its work at several Belgian and International conferences and events in the course of 2011:

President Alain Hubert on gave a lecture at the Brussels Management School ICHEC, as part of its Sustainable Management Degree programme, where he focused on how scientific research teaches us about the climate, and on the key challenges posed by climate change.

Alain also participated in a conference organised by the Alumni of the Engineering Schools of the Université Libre de Bruxelles in October, titled "La Station Princess Elisabeth, une station de recherche Zero Emission".

The Foundation's Executive Director, Thierry Touchais spoke at a number of conferences during the year, including SIBOS, the annual financial services event, which took place in Toronto in 2011. The Foundation was the guest of its partner SWIFT, giving conferences on "Finance and Climate change" and taking part in the seminars "Innotribe" and "Banks for a Better World".

The Foundation was also present at the Paris Palais de la Découverte on February 15th, where Princess Elisabeth Antarctica was the focal point of the launch of the 'Mardis durables du Palais', a series of round tables on sustainable energy launched with the opening of the EU's FP7 SCICOM "Energy Island" exhibition.

In January 2011, the Foundation was invited as an expert contributor to the Climate Leadership Programme, an Executive Programme at University of Cambridge, to help senior sustainability professionals and leaders from business and the public sector to fully understand the drivers for change and the options for action.

In April 2011, the Foundation held a press conference titled 'Zero Emissions - A Day in the Life of Princess Elisabeth Antarctica Station' as part of EU Sustainable Energy Week.

The Foundation became the first associate member of the University of the Arctic, a network of universities, colleges, research institutes, and other organizations. The Foundation contributes expertise on education and outreach on polar issues to this multinational consortium, which aims to empower residents of the Circumpolar North, by building human capital through higher education.

On November 24th, president Alain Hubert signed a Memorandum of Understanding on educational collaboration between the Foundation and the Chinese Arctic and Antarctic administration on board the Chinese polar vessel Xua Long before she sailed to the Antarctic, during a trade mission to China led by HRH Prince Philippe of Belgium to mark the 40th anniversary of China-Belgium diplomatic relationship. A logistics agreement between the Belgian Polar Secretariat and the Polar Research Institute of China was also signed.

On November 22nd, the International Polar Foundation welcomed a delegation of representatives from Arctic Indigenous Peoples' organizations. The visit came after the 2011 Arctic Futures Symposium, during which Indigenous peoples' issues were one of the four main themes addressed along with international cooperation, science and economy. The visitors were able to gain a better understanding of the Foundation, its mission and its projects.

From September 4th to 8th, the International Polar Foundation participated in the 6th Science Centre World Congress held in Cape Town (South Africa).

In 2011, the International Polar Foundation, in its role as a member of the Polar View expert consultant group, produced an important video on Arctic policy and how it relates to Earth Observation for Polar Monitoring. The Polar View consortium, the most experienced and comprehensive group in the world of polar Earth Observation experts, is supported by the European Space Agency (ESA) and the European Commission, with participation from the Canadian Space Agency, and consists of companies, government agencies and research institutes across Europe and Canada.

[www.polarview.org](http://www.polarview.org)

# VI. Online Outreach

Over the course of 2011, the International Polar Foundation's five websites received a total of 201,705 unique visitors, serving 1,066,397 pages to a worldwide audience.

## Polarfoundation.org

The International Polar Foundation's principal website communicates the initiatives, projects, and events, that form the Foundation's mission to connect science and society.

Polarfoundation.org speaks directly to the general public and features movies, flash animations, picture galleries, news items, press releases, and a calendar of events to give a clear of the International Polar Foundation's objectives.

In 2011, polarfoundation.org served 107,334 pages to 23,450 unique international visitors. The top ten countries were Belgium, United States, United Kingdom, France, Canada, Germany, South Africa, India, Spain and the Netherlands.

## Antarcticstation.org

Featuring the International Polar Foundation's flagship project, Princess Elisabeth Antarctica the world's first zero emission polar research base. The website keeps the general public and the scientific community up-to-date with the day-to-day operations, science projects, and the evolution of the remarkable renewable energy systems and smart grid being used at the station.

The site features regular news updates and picture galleries videos, project updates, as well as interviews with team members.

In 2011, the antarcticstation.org website served a total of 331,019 pages to 31,600 unique visitors. The site has a broad International audience, but with and a strong focus on Belgian visitors. Top 10 countries arranged by the number of visits: Belgium, France, United States, Netherlands, United Kingdom, Germany, Canada, Switzerland, Luxembourg and Japan.

## SciencePoles.org

Dedicated to raising global public awareness of polar science, the SciencePoles.org platform supports polar research institutions and scientists in the communication of their research findings. By clearly explaining and demystifying complex scientific issues, the website contributes significantly to the Foundation's mission to connect science and society.

- Catering to policy makers as well as the general public, Sciencepoles.org features:
- news updates on recent findings and publications,
- in-depth interviews with prominent members of the polar research community,
- feature galleries on polar environments and research,
- picture galleries of polar landscapes, logistics, and scientific fieldwork,
- a detailed calendar of polar research-related events.

In 2011, SciencePoles.org attracted 101,174 pages to 40,595 unique Visitors. The site has a very broad International audience, with visitors from the United States, United Kingdom, Canada, Australia, Italy, Belgium, France, India, Germany and the Philippines.

## **EducaPoles.org**

EducaPoles.org brings together the International Polar Foundation's educational and multimedia tools, with the missions of informing the teaching community, raising awareness of the poles' importance as an early warning system and unique laboratory, and mobilising people, by providing the means to take informed action against climate change.

Aimed at teachers, future teachers, and all those involved in education, EducaPoles.org offers pedagogical dossiers, flash animations, videos, picture galleries, tales and ready-made contents such as quizzes, scientific experiments, and classroom activities.

EducaPoles.org served a total of 439,586 pages in 3 languages to 87,571 unique visitors in 2011, led by France, Belgium, United States, Canada, United Kingdom, Netherlands, Switzerland, Australia, India and Morocco

Breakdown of EducaPoles visitors by languages:

- French: 51,0%
- Dutch: 19,5%
- English: 29,5%

In 2011, a total 5,893 pedagogical dossiers were downloaded. If we assume that each dossier was shared with on average of 15 students, then around 88,395 students were reached.

Breakdown of downloads per language, for 5,893 Downloads

- French downloads: 4213 - 71%
- English downloads: 891 - 15,12%
- Dutch downloads: 789 - 13,39%

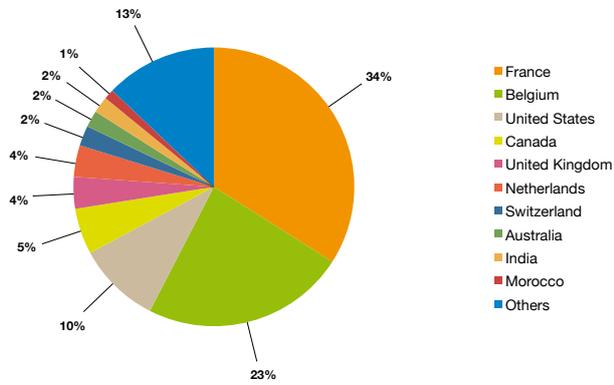
## **ExploraPoles.org**

Dedicated to Arctic and Antarctic expeditions, Explorapoles.org uses polar adventures as a means to raise awareness, especially within younger generations, of the Earth's current situation and future fate, and the evolution of our understanding of the Polar Regions.

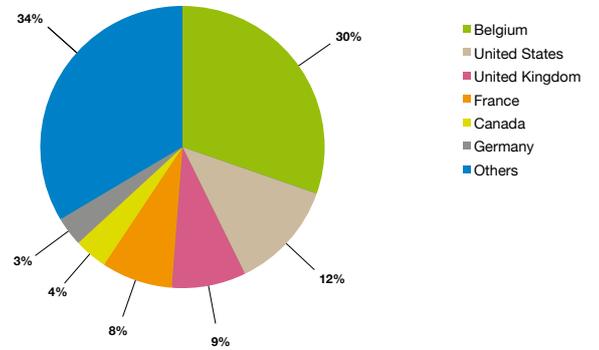
The website follows polar expeditions in the Arctic (from mid-February until the end of June) and the Antarctic (from mid-November until the end of February), and has already covered hundreds of expeditions and featured many accomplished polar explorers.

In 2011, ExploraPoles.org delivered 87,741 pages to 18,615 unique visitors, mainly from the United States, United Kingdom, France, Belgium, Canada, Australia, Germany, Hungary, Norway and Italy.

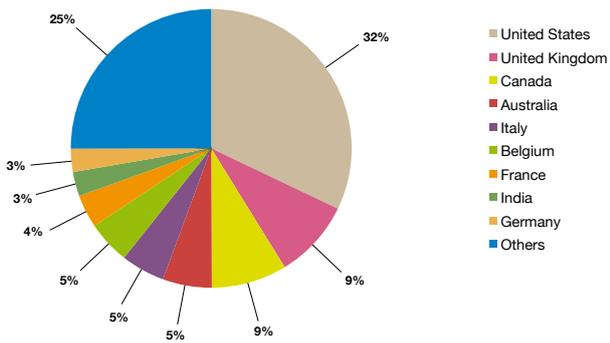
**EducaPoles: Visits per Country**



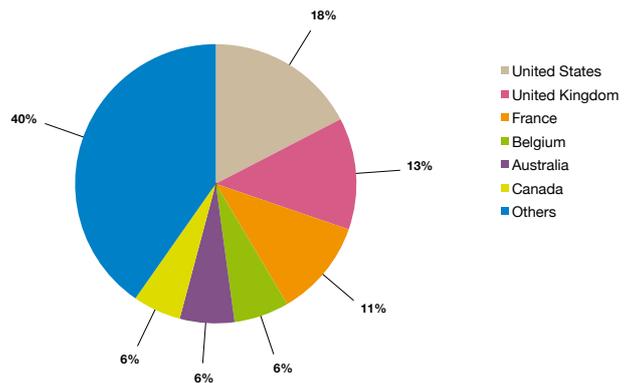
**PolarFoundation: Visits per Country**



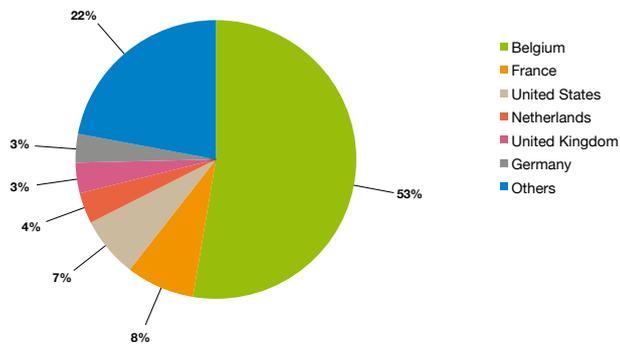
**SciencePoles: Visits per Country**



**ExploraPoles: Visits per Country**



**AntarcticStation: Visits per Country**



# VII. IPF Publications

## SciencePoles Publications

- Bruno Danis: SCAR-MarBIN, ANTABIF and the Importance of Keeping Tabs on Biodiversity in Antarctica 24.01.2011
- Willi Dansgaard: Pioneer of Paleoclimate Research - 28.02.2011
- David Barber: Arctic Sea Ice in a Changing Climate - 21.03.2011
- David Vaughan on Ice2sea: Providing the IPCC with Sea Level Rise Projections -18.04.2011
- The Measured and the Catastrophic: David Vaughan on Glacial and Ice Sheet Melt  
- 03.05.2011
- Bruno Delille: A Closer Look at Carbon Cycling in Antarctica - 27.06.2011
- Tas van Ommen: What Ice Cores from Law Dome Can Tell Us about Past and Current Climates - 12.08.2011
- Tas van Ommen: East Antarctica's Vulnerability to Climate Change and the Search for the Oldest Ice - 22.09.2011
- José Xavier: Winner of the 2011 Martha T. Muse Prize - 18.10.2011
- Martin Jakobsson: Investigating Arctic Paleoclimates - 29.11.2011

## EducaPoles Publications

In 2011, the International Polar Foundation published a series of energy factsheets and action sheets on the EducaPoles website, in English, French and Dutch with the objective: What we can do at home and at work to reduce our greenhouse gas emissions?

- Energy Fact Sheet: Reducing Our energy Consumption, A strategy for Our Future!
- Energy Fact Sheet: Household Energy Use and Electrical Appliances
- Energy Action Sheet: Insulation of your Home
- Energy Action Sheet: Standby Power
- Energy Fact Sheet: Grey Energy
- Energy Action Sheet: Meat Consumption
- Energy Action Sheet: Recycling
- Energy Action Sheet: Product Packaging

## Other Publications

"Princess Elisabeth Antarctica: an International Polar Year outreach and media success story", Polar Research (peer-reviewed journal), Joseph Cheek, Ben Huyge & Jean de Pomereu

The work of the Foundation has been documented in title 'Puzzelen met de Polen' in brochure 'Belgians at the world's poles -The Fourth International Polar Year' by BELSPO, Belgian Federal Science Policy Office.

'Science education at the International Polar Foundation – From climate change to sustainable actions'; by Sandra Vanhove, in Learning Teacher magazine, October 2011, EU Learning Teacher Network

# VIII. Financials 2011

## Consolidated Income Statement

Euros

Revenue	4 439 126
Expenses	- 4 890 984
<b>Result from activities</b>	<b>- 451 858</b>
<b>Excess from Continuing Operations</b>	<b>- 485 749</b>
<b>Excess (Deficit) Before Income Tax</b>	<b>- 310 486</b>
<b>Excess (Deficit) of the Period</b>	<b>- 310 621</b>

## Consolidated Balance Sheet

Euros

Non-Current Assets	12 676
Current Assets	7 509 167
<b>Total Assets</b>	<b>7 521 843</b>
Equity	25 000
Retained Earnings	573 219
Accounts Payable	6 923 624
<b>Total Liabilities</b>	<b>7 521 843</b>

