

DRAFT Preparation Form for Proposed IPY Activity

This WORD template is to assist in developing an agreed document for submission to IPY by June 30, 2005. Submissions to the IPO are to be made ONLY via the online version of this form which will be available at www.ipy.org.

1.0 PROPOSER INFORMATION

1.1 Title of Activity

Change and variability of the Arctic Systems – Nordaustlandet, Svalbard

1.2 Short Form Title of Proposed Activity

Kinnvika

1.3 Activity Leader Details

First Name		Surname	
Paula		Kankaanpää	
Affiliation		Country	
Arctic Centre, University of Lapland		Finland	

1.4 Lead International Organisation(s) (if applicable)

1.5 Other Countries involved in the activity

Sweden	Norway	Poland	Russia
UK	USA	Canada	Japan
Estonia	Germany	Switzerland	France
Iceland	Denmark	The Netherlands	

1.6 Expression of Intent ID #'s brought together in the proposed activity(Lead first)

564									

1.7 Location of Field Activities (Arctic, Antarctic or Bipolar)

Arctic

1.8 Which IPY themes are addressed (insert X where appropriate)

1. Current state of the environment	X	4. Exploring new frontiers	X
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2. Change in the polar regions	X	5. The polar regions as vantage points	
3. Polar-global linkages/tele-connections	X	6. The human dimension in polar regions	X

1.9 What is the main IPY target addressed by this activity (insert X for 1 choice)

1. Natural or social science	X	3. Education, Outreach, Communication	
2. Data management		4. Legacy	

2.0 SUMMARY OF THE ACTIVITY (maximum of 1 page A4)

We will mount a series of research expeditions during IPY to Nordaustlandet, Svalbard, the northernmost island in the Nordic Arctic sector which is 90% ice covered. The multi-disciplinal and multi-national initiative is composed by 26 projects, having individual goals, but well integrated common themes (www.eld.geo.uu.se/IPY/projects). The spectrum of projects from geosciences to the humanities, investigates how the environmental and anthropogenic dynamics have changed recently in comparison with past records of change from existing expedition logs and photographs, proxy climate data from ice-, lake- and sea-sediment cores, and dynamic studies both on terrestrial as marine ice, comprising more than 80 Principal Investigators (www.eld.geo.uu.se/IPY/personnel).

We will monitor atmospheric, terrestrial and cryospheric chemical, and physical fluxes continuously over, and beyond, the period of the IPY. The activities will be integrated to existing research and monitoring in Svalbard as well as to relevant IPY –projects to which Kinnvika base will serve an important add on site.

Historical remains in the field and in archives from a succession of cultures of whale hunting, trapping, exploration and mineral exploitation are abundant on Nordaustlandet and northwestern Spitsbergen. Economic change and cultural variability are major themes in the interdisciplinary humanistic research that will investigate these traces at significant sites, esp. natural harbours located at good hunting grounds of the past. Historical archaeology, including pioneering arctic marine archaeology, will be combined with scientific investigations of e.g. soil chemistry, erosion and local biological alterations resulting from human interaction with the wilderness of Spitsbergen. History of science will be a major integrating endeavour in this, relating a temporal and geographical sequence of aboriginal and Western knowledge projects to the crucial transition from colonial to post-colonial arctic science and scholarship.

Earlier research expedition data viewed through modern surveys and data gathering will provide data on the degree of change and variability in this particular system. Proxy-records from a variety of natural archives will bring a time-dimension to more process-focused or monitoring studies. Special attention will be paid to the response of the cryosphere to past climate and environmental changes. This is closely linked to geological assessment of glacial history and monitoring of atmospheric pollutant transport pathways. Advanced statistical methods and numerical models will be used to elucidate linkages between the systems and global teleconnections.

We aim to provide a platform for broadband scientific endeavour into a relatively poorly investigated part of the Svalbard Archipelago. The plethora of instruments and methods we plan to unleash are required to fully measure change and variability in the Arctic system – both from the human use to the resonances within the natural system. For synergies sought between different research fields, see (www.eld.geo.uu.se/IPY/synergies).

We will provide a legacy in the form of a renovated scientific base for future, primarily Nordic field research on Nordaustlandet

2.1 What is the evidence of inter-disciplinarity in this activity?

The Kinnvika is multidisciplinary project which includes human and natural sciences. It has 26 Working Packages as follows:
 5 in Atmospheric studies;
 3 in Biosphere studies;
 4 in Climatic and environmental archives;
 3 in Studies of the lithosphere;
 3 in Ice Mass focused studies;
 2 in Landscape focused studies;
 2 in Oceanography;
 3 in Society focused studies
 1 Systems focused study
 (see: www.eld.geo.uu.se/IPY/projects).

The multidisciplinary and co-operation by disciplines is guaranteed by (i) common geographic location by the research, (ii) by the fact that the groups will work simultaneously in a common base, (iii) by organizing regular workshops for the Work Packages during the interpretation phase of research and (iv) combing the results into multidisciplinary articles and a common publication.

2.2 What will be the significant advances/developments from this activity? What will be the major deliverables, including the outputs for your peers?

#numbers refer to projects listed at www.eld.geo.uu.se/IPY/projects and themes refer to the IPY.

Theme 1: Monitoring campaigns: Aerosols, heavy metals, radiation, carbon, nitrogen, sea ice, climate, landscape dynamics, plankton dynamics, snow chemistry, (#1-7, 16-18, 20, 22).

Theme 2: Process studies: Air/snow, terrestrial ecosystem, paleoclimate, archaeological and bibliographic archives, permafrost thawing, ice and landscape dynamics, and numerical experiments (#2, 6, 8-11, 14, 20-21, 23-26).

Theme 3: By finding statistical relations between variability found at the studied site and global phenomenon. (#2, 8, 9, 11, 14, 26).

Theme 4: Novel techniques: Remote sensing for landscape evolution.(#12, 20, 22).

Theme 6: Site examinations, bibliographical archives and interviews. (#23-25).

2.3 Outline the geographical location(s) for the proposed field work (approximate coordinates will be helpful if possible)

Location(s)	Coordinates
The island Nordaustlandet of the Svalbard Archipelago, with logistical focus on Kinnvika, the bays and fiords surrounding Nordaustlandet, and the ice caps Austfonna and Vestfonna, and their forelands.	
Kinnvika	N80°03.1', E18°13.4'

Vestfonna	N80°, E19°
Austfonna	N79°5, E24°

2.4 Define the approximate timeframe(s) for proposed field activities?

Arctic Fieldwork time frame(s)	Antarctic Fieldwork time frame(s)
07/06 – 07/06	mm/yy – mm/yy
04/07 – 05/07	mm/yy – mm/yy
07/07 – 08/07	mm/yy – mm/yy
04/08 – 05/08	mm/yy – mm/yy
07/08 – 08/08	mm/yy – mm/yy
04/09 – 05/09	mm/yy – mm/yy

2.5 What major logistic support/facilities will be required for this project? (see notes)

Ice strengthened research ship	Ice drilling capability
Helicopters	Existing field stations
Re-opening of a field station	Small boats, snowmobiles

Summer 2006: Ice strengthened vessel, Fuel and Food depots; **Spring 2007:** Ice breaker/Helicopter input of equipment; **Summer 2007:** Ice strengthened research vessel sea ice margin/marine biology equipment to erect base @ Kinnvika, and Small boats/Zodiacs; **Spring 2008:** Helicopter, Snowmobiles **Summer 2008:** Helicopter, Ice strengthened research vessel

2.6 How will the required logistics be supplied? Have operators been approached?

Source of logistic support	X for likely potential sources	X where support agreed
Consortium of national polar operators	X	
Own national polar operator		X
Another national polar operator	X	
National agency		X
Military support		
Commercial operator	X	
Own support		
Nordic Council of Ministers	X	X (seed funding for planning phase and preparatory trip)

2.7 If working in the Arctic regions, has there been contact with local indigenous groups or relevant authorities regarding access?

The Svalbard governance administration has been consulted about the project and there is an active connection to them.
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3.0 STRUCTURE OF THE ACTIVITY

3.1 Origin of the activity(X for one choice)

Is this a new activity developed for the IPY period?	
Is this activity the start of a new programme that will outlive IPY?	X
Is this a pulse of activity during 2007-2009 within an existing programme?	
If part of an existing programme please name the programme -	

3.2 How will the activity be organised and managed? Describe the proposed management structure and means for coordinating across the cluster

Basic idea:

The project is a combination of a scientific project, logistical co-operation and a legacy effort. The idea is based on the co-ordinated work of a variety of scientific projects that are carried out at a common field site using existing co-ordinated logistics. The project strengthens old and opens new and concrete avenues for international co-operation in the high arctic. The project is initiated from a “grass root level” by researchers. The project has the following goals:

1. To support high level multidisciplinary scientific research;
2. To complement the legacy of Arctic research stations by re-opening a base in a specific high-arctic area;
3. Strengthen and widen the logistical co-operation by international Arctic research expeditions both with respect to a land base as well as aerial, marine and terrestrial transportation.

Leadership:

- The project is led by a Steering Group which has members from institutes from all Nordic Countries, and Poland. The Steering Group is chaired by Arctic Centre, Finland.
- The task of the Steering Group is to co-ordinate the logistics and science work of the project. The steering group has expertise of leadership of scientific institutions, leadership of scientific projects and international scientific networks, in demanding field experiments and by leadership of national research expedition logistics.
- The day to day planning of the projects will be handled by the project leader with liaison to the Steering Committee which will coordinate expedition science activities.

Science work:

- The scientific work of the project is divided into 25 different research projects, or Work Packages.
- Individual Work Packages will be managed by a Principal Investigator.
- Each Work Package will take care of their own research strategy, its funding and related research logistics needs.
- Experience has shown that the most effective way to implement multidisciplinary research is to have a common scientific problem for various disciplines as well as to organise field efforts by using a common field site. The Kinnvika-project will serve both as catalysis and conductor between the different Work Packages and meld them into a multidisciplinary overview of the change and current status of the area.
- The project will organise a series of multidisciplinary workshops including major kick-off and wrapping-up conferences.
- The project will establish a potential base for a possible longer term permanent or semi-permanent monitoring work.

Logistics:

- Overall logistics will be coordinated by a 3 year appointed professional with responsibility for detailed planning and acquisitions and liaising with national polar operators and other logistic operating in the vicinity of Nordaustlandet.
- The logistics will be based on co-ordination and share of existing national and commercial logistics.
- The research site is based on existing facilities by re-opening a field station which was set up during IGY 1957.
- Despite of remoteness of this high arctic area the transportation facilities are relatively modest and feasible within our expected budget.

Outreach

- • The project has a strong outreach component through the co-operation with the Science Centre Exhibition and Information Services international networks by the Arctic Centre, Finland. The Centre and the Kinnvika project will co-operate in a new dedicated IPY out-reach project to be filed with the IPO: "IPY Histories: International Polar Year Activities Past and Present: Museum and Virtual Exhibitions."
- The Steering Group has established a co-operation with mass media such as TV-film production.

Data services

- Data services will be co-ordinated by Steering Group and will be organised according to guidelines by IPY Metadata guidelines.

Education

- Education plans will be coordinated by the steering committee, with several complete programme wide activities detailed in sections 3.6-3.9.
- Education activities will be linked with the University of Arctic international secretariat which is based at the Arctic Centre.

Links to IPY-projects:

We are coordinating closely with various large international IPY projects of relevant focus, here we list the key projects and the contact member of Kinnvika with liaison responsibilities:

- ARCDIV & POLAP (Piotr Głowacki),
- GLACIODYN(Jon Ove Hagen),
- LASHIPA(Urban Wråkberg),
- CARE (John Moore)

We have steering committee members within the steering committees of the above mentioned projects and thus we participate in science activities. Steering group members (Piotr Głowacki & Elisabeth Isaksson) are also participating to SVALBASE led by Norwegian Polar Insititute.

Preparatory tasks:

- A reconnaissance visit to Kinnvika will be done in September 2005 by Steering Group members from Finland, Sweden and Norway and is already funded by Nordic Council of Ministers.
- A meeting by the Steering group and key logistic parties will be organised in October/November, and is already funded by Nordic Council of Ministers.

Project history:

- A plan was initiated in Finland already in November 2002, Sweden in 2003, and the other countries came in 2004. The scientific interest towards it has been high. The project is directed to the historic site of the Swedish-Finnish-Swiss IGY expedition in 1957. The project has close link to Norwegian activities in the area. The proposal is also part of the future plans of the internationally open research network of the Swedish Programme for Social Science Research in the Polar Regions, which is a part of an ongoing work since 1997.

3.3 Will the activity leave a legacy of infrastructure and if so in what form?

The project has good potential for longer term legacy of infrastructure. The base at Kinnvika was established in 1957. It will be renovated for research and expedition activities during IPY. This allows possible continued usage as a base for research after IPY if regarded useful by scientists and consistent with requirements of Environmental Impact Assessment and limitations of working in the Nordaustlandet Nature Reserve. The Kinnvika Base will provide another concrete platform for international and Nordic cooperation in the High Arctic.

3.4 Will the activity involve nations other than traditional polar nations? How will this be addressed?

Yes. Finland's high arctic research has been extremely limited to date, despite being one of the 8 Arctic countries. Finnish researchers can feel they have a high Arctic base of operations at Kinnvika for several years. Additionally countries such as Estonia are involved. The internet will allow a virtual participation of anyone in the planned outreach and field activities

3.5 Will this activity be linked with other IPY core activities? If yes please specify

The IPY core education and outreach activity is the initiative of the University of Arctic whose international secretariat is based at Arctic Centre.
We are waiting to hear what the other core activities are, certainly we will work closely with whatever are relevant.

3.6 How will the activity manage its data? Is there a viable plan and which data management organisations/structures will be involved?

Arctic Centre hosts several Arctic databases and has an Information Service currently comprising 9 members including Arto Vitikka, Finnish member of the IPY-JCADM as well as Arctic Portal initiative by the Arctic Council. We will be active in formulating, and subscribe fully, to the IPY DIS plan. We will be able to create new databases and provide data dissemination to other specialist international data repositories appropriate for each field of research undertaken by the expedition.

3.7 Data Policy Agreement (Place X in box for agreement)

Will this activity sign up to the IPY Data Policy (see website)	X
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3.8 How will the activity contribute to developing the next generation of polar

scientists, logisticians, etc.?

Most of the field projects will use doctoral students, and much of the research will be done by young scientists and post-docs. An exchange program for PhD's and researchers will be established between the partners to improve future links and joint work.

The Kinnvika base will require a team of about 3 logistics persons personnel on site. We will additionally hire a logistical coordinator for 3 years to run the whole project. As Finland, and to an extent also Sweden, lack a high Arctic research station, this will provide a new focus for Arctic scientific research and aspirations of the young within the countries.

3.9 *How will this activity address education, outreach and communication issues outlined in the Framework document?*

The Arctic Centre is a multidisciplinary research institute, including a science centre and an electronic information services institution, and having long expertise on education and popularisation of science to wide public and school pupils. The Arctic Centre houses the core IPY Education and Outreach activity carried by the international secretariat of the University of Arctic, and we have already begun to discuss education activities with the UArctic team.

A travelling/parallel exhibition will be prepared from the expedition by hired producer guided by Science Centre professional staff by the Arctic Centre. A website is a part of the exhibition production and it enables schools and media to follow the research in the field. The website is established by support of Information Services Unit by the Arctic Centre, by the Swedish Programme for Social Science Research in the Polar Regions and may also be supported by the Swedish Natural Historic Museum (Geologins dag). The expedition already enjoy considerable media interest e.g. due to the historical value of the Kinnvika Site, which will lead to a series of small broadcasted programs filmed during the pre-site survey in September, 2005.

The Lashipa initiative also plans a travelling exhibition of historical IPY photographs and on-going IPY activities, that we will work closely with through the Kinnvika steering committee member Urban Wråkberg and the archive of Barents region historical documentary film archive (Afbare) based at the Arctic Centre.

3.10 *What are the proposed sources of funding for this activity?*

The scientific work will be funded mostly through the participating institutes through salaries and research equipment. Extra funding for research is being sought from national research councils and foundations. The logistic funding will be based partly on the existing national equipment by the countries and their shared use. The running costs will be applied, and some support for reconnaissance work and project meetings has already been allocated by the Nordic Council of Ministers. Additionally funding is being sought through domestic ministries. The national polar logistic operators in Finland and Sweden have been positive towards the proposal. The Polish research vessel Horyzont II has been promised for logistic supply and scientific transport during summer 2006 and 2007 at very low cost as we will coordinate our logistic activities with the Polish Polar research station in Hornsund.

3.11 *Additional Comments*

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4.0 CONSORTIUM INFORMATION

4.1 Contact Details

	Lead Contact	Second Contact
Title	Director, Professor	Associate Professor
First Name	Paula	Veijo
Surname	Kankaanpää	Pohjola
Organisation	Arctic Centre	Uppsala University
Address	University of Lapland Box 122 Rovaniemi	Dept of Earth Sciences Villavägen 16 Uppsala
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Telephone	+358 341 2768	+46 18 471 2509
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Email	Paula.kankaanpaa@ulapland.fi	veijo.pohjola@geo.uu.se
Repeat Email	Paula.kankaanpaa@ulapland.fi	veijo.pohjola@geo.uu.se

4.2 Other significant consortium members and their affiliation

Name	Organisation	Country
Steering committee members		
John Moore	Arctic Centre	Finland
Urban Wråkberg	The Swedish Programme for Social Science Research in the Polar Regions	Sweden
Piotr Głowacki	Polish Academy of Science	Poland
Elisabeth Isaksson	Norwegian Polar Institute	Norway
Ólafur Ingólfsson	University of Iceland	Iceland
Jon Ove Hagen	University of Oslo	Norway
Dorthe Dahl-Jensen	University of Copenhagen	Denmark
Other participants		
	John Moore Arctic Centre Finland Piotr Głowacki Polish Academy of Science Poland	

	<p>Ólafur Ingólfsson University of Iceland Iceland Jon Ove Hagen University of Oslo Norway Dorthe Dahl-Jensen University of Copenhagen Denmark Urban Wråkberg The Swedish Programme for Social Science Research in the Polar Regions Sweden Elisabeth Isaksson Norwegian Polar Institute Norway Julian Dowdeswell University of Cambridge UK Mark Hermanson University of Pennsylvania USA Veli-Pekka Salonen University of Helsinki Finland Jon Børre Ørbæk Norwegian Polar Institute Norway Timo Vihma Finnish Meteorological Institute Finland Jack Kohler Norwegian Polar Institute Norway Jacek Jania University of Silesia Poland Roderick van de Wal Utrecht University The Netherlands Bruce Forbes Arctic Centre Finland Jussi Patero Finnish meteorological Institute Finland Rein Vaikmäe Tallin Technical University Estonia Tonu Martma Tallin Technical University</p>	
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	<p>Estonia Alexander Wolfe UNIS Norway Chris Zdanowicz Geological Survey of Canada Canada Kumiko Goto-Azuma National Institute of Polar Research Japan Gerhard Bax Uppsala university Sweden David Gee Uppsala university Sweden Krzysztof P. Krajewski Polish Academy of Sciences Poland Andrey Glazovskiy, Russian Academy of Science Russia. Yuri Macharet Russian Academy of Science Russia Sverker Sörlin, Swedish Institute for Studies in Education and Research Sweden Sheila Hicks University of Oulu Finland Matti Perttilä Finnish Institute of Marine Research Finland. Kimmo Kahma Finnish Institute of Marine Research Finland. Matthias Braun Bonn University Germany Regine Hock Stockholm university Sweden Jan Boelhouwers Uppsala university Sweden Achim Beylich Norwegian Geological Survey Norway</p>	
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Notes for completing the WORD template for Proposed IPY Activities

- ** The form is not for submission (that must be done online) - it is a tool for preparing the material required for completing the online form.
- ** This form is 7 pages long and the online form will match this length so if your completed WORD template is 7 pages you will have no problems in cutting and pasting to the online form
- ** We suggest you use 11 pt Times or Times Roman for text entry.

Proposer Information

- 1.1 A full title for the proposed activity
- 1.2 Please provide a short title, ideally an acronym which will help with database searching.
- 1.3 This should be the person nominated to lead the activity. They may also be the primary contact with whom the IPO and JC will interact (see 4.1)
- 1.4 Where an international organisation is involved in the activity, they should be named (acronym is sufficient)
- 1.5 These are countries other than that of the activity leader. There will be more cells available on the web form. It is important that each activity demonstrate that there is internationalisation. Components of IPY activities can be operating at simply a national level but should synchronize with comparable groups in other nations activities to ensure internationalization at the IPY activity (core project) level.
- 1.6 The ID # for each EoI (from the Jan 14 exercise) involved in the activity should be named here. This will allow the IPO to track EoI's that have joined or left clusters identified in the original assessment.
- 1.7 Insert only one of the three choices.
- 1.8 Put an X against all of the themes for which the activity is relevant.
- 1.9 Put an X against one of the IPY targets which most closely describes the activity's main target

Activity Description and Time/Location Information

- 2.0 A description of what the activity entails and that includes reference to how the various component EoI's contribute to the overall activity. The description should focus on what will be undertaken within the activity and not how it will be organised. The text must not include graphics, equations or substantial formatting as these all cause problems for the database search engine. The JC only wants text entry in this field – leave the fancy presentations for the funding agency applications. Do not exceed 1 page.
- 2.1 The IPY is promoting interdisciplinary science and it is one of the IPY criteria that researchers should attempt to address.
- 2.2 This should focus on what will broadly emerge from the activity and if possible list some deliverables. It will be valuable to outline what outputs will be targeted at your peers – papers, workshops, e-media.
- 2.3 IPY activities should be polar-focussed (not necessarily located in polar regions. These fields should identify one or more areas where field activities will occur, e.g. West Antarctic Ice Sheet, Weddell Sea, Svalbard, Greenland. There is no need to include reference to Antarctica or Arctic (picked up in 1.7). If approximate coordinates are available this will allow distribution maps to be generated for IPY planning and promotional activities and assist logistic operators. An IPY activity does not have to include a field component but will do so in most cases.
- 2.4 IPY activities should occur during 2007-2009. Use the given format to define fieldwork periods.
- 2.5 This refers to major facilities and infrastructure and some examples (not comprehensive) are given below. Please use the fields to enter logistic requirements and use the text box to add further details.

Ice-breaker	Multi-instrumented platforms	Snow terrain vehicles
Ice strengthened research ship	Helicopters	Existing field stations
Ship-based drilling capability	Fixed wing geophysical aircraft	New field station
Ship recovery of buoys etc	Fixed wing transport aircraft	Observatories
Submarines	Rockets	Fuel depots
Autonomous Underwater Vehicle	Satellites	Ice drilling capability
Remotely Operated Vehicle	Radars	Rock-drilling capability

Please note if your project will share facilities with other IPY activities, or if there is capacity to support other projects as part of your activity (e.g. a marine biodiversity cruise could feasibly offer to deploy or recover buoys, moorings, etc., for an ocean/climate project).

- 2.6 Mark X against the 1 or more support options you would anticipate using and place an X against those which have been agreed or are being considered by logistic operators.
- 2.7 Access to certain Arctic areas is subject to licensing and should not be assumed will be granted so a dialogue with relevant authorities will be necessary. The Canadian IPY Office is a useful start point.

Structure of the Activity

- 3.1 Identify if your activity is a new activity limited to the IPY period, a new one that may be running for many years but will use IPY to kick start its programme, or an existing programme that will undertake a pulse of activity to coincide with the IPY period. If the latter please name the programme.
- 3.2 A major IPY criterion is “evidence of a viable management plan” and this is an opportunity to outline how the cluster will organise itself and ensure there is proper coordination. The Joint Committee for IPY 2007-2008 will be overseeing Polar Year activities but will not be managing the individual projects. It is anticipated that IPY projects will be self-managed, free-standing activities or be part of a planned or existing programme that has an established management structure. The JC will need to be satisfied that all proposals have realistic plans for structuring and managing activities. For the larger proposals the JC anticipates that a Project Steering Committee will be established.
- 3.3 Whilst IPY is envisaged as primarily a pulse of activity during 2007-2009, it is hoped that, as with many IGY initiatives, the initial activity leaves a legacy longer term which could be for example – an observational network, a field research facility, an accessible database, an education course or a health monitoring programme.
- 3.4 The IPY wants to broaden interest in the polar regions to include nations not traditionally involved in polar activities and has included this as one of its criteria. In some cases this may involve researchers joining clusters for field work but could also be, for example, through attendance of a workshop organised by the cluster.
- 3.5 The Joint Committee envisages a relatively small number of substantial core projects during IPY and it is anticipated that the JC will assist these projects to interact. Some activities are already considering formal and informal links with related clusters which will bring added value to these IPY activities.
- 3.6 IPY will generate enormous quantities of data and it should be accessible data so core projects will have to agree a data policy that will allow interaction across projects and early availability to the community. This field offers the opportunity to demonstrate that the components of the cluster have an agreed and valid approach to data management which can be considered alongside other approaches across IPY by the Data Management Sub-Committee to ensure effective coordination. Data organisations such as the World Data Centres, JCADM or national data centres.
- 3.7 IPY wishes all data to be freely available to the community (accepting certain exceptions e.g. human research) and all core projects will be expected to agree to sign up to the IPY Data Policy (which will be available on the website before the end of May 2005).
- 3.8 IPY has the development of the next generation of polar researchers as a high priority and IPY activities should show evidence of having considered how to address this issue.
- 3.9 All activities are expected to give consideration to addressing education, outreach and communication (mainly media focussed). Establishing a website will be a popular suggestion but interactions with schools, involving children/teachers in field activities, holding workshops, producing books or electronic media, collaborating with film-makers are all further possibilities.
- 3.10 It is recognised that many proposed activities will not yet have established funding lines but it should be demonstrated that valid sources of funding will be approached to support the activity.
- 3.11 This field can be used for any additional information that you feel is not addressed in the rest of the form or it maybe a specific piece of information that helps a national committee locate its nation’s proposed activities.

Consortium Information

- 4.1 Details for the two primary people in each activity that the IPO can then contact where necessary on behalf of the consortium.
- 4.2 A list of other significant consortium members, their affiliation and country. The on-line form will also ask for email addresses. Up to 35 additional names can be added to this table, more will be available in the online version.