



EXPRESSION OF INTENT FOR ACTIVITIES IN IPY 2007-2008.

Deadline for Submission - January 14, 2005
Email to jcel@bas.ac.uk or Fax to +44-1223-221270

1.0 PROPOSAL INFORMATION

1.1 Title of proposed activity

International Partnerships in Ice Core Sciences – IPY
Alternative title: Frozen in time

1.2 Acronym or short form title of proposed activity

IPICS-IPY

1.3 Concise outline of proposed activity

400 words max

1.4 Which IPY 2007-2008 theme(s) will be addressed by the project (see Note 1)

Theme 1 – The current state of the polar environment	N
Theme 2 - Change in the polar regions	Y
Theme 3 - Polar-global linkages and interaction	Y
Theme 4 - Investigating new frontiers	Y
Theme 5 -The polar regions as vantage points	N
Theme 6 - Human societies in polar regions	N

1.5 What is the major target of the proposed activity (specify one – see Note 1)

Natural or social science research	Y
Education/Outreach and Communication	N
Data Management	N
Legacy	Y
Other Targets	N

1.6 What significant advance(s) in relation to the IPY themes and targets can be anticipated from this project?

The main advance will be that we will have established the first steps in a major (at least decade-long) programme to obtain critical new Earth System information from ice cores, something that can only be done at international level. Specifically, we will, by the end of the IPY period, have Gained the information necessary to decide on one or more sites to obtain the oldest possible ice core record from Antarctica (to be drilled as a fully international operation); this will be a “new frontier” as well as a science objective; Set in place all the infrastructure to complete a drilling through the last interglacial period in Greenland; Provided the skeleton of a multi-timescale network of cores all over the polar regions that will allow us to define climate variability and change on timescales from annual to multimillennial

1.7 What international collaboration is involved in this project? (see Note 2)

IPICS has developed from an international meeting held in Washington in April 2004. It builds on existing successful multinational projects such as EPICA and ITASE. The IPICS science plan will guide sub-groups about locations of survey and drilling activities. IPICS has a small steering committee, and has established two international writing groups.

2.0 FIELD ACTIVITY DETAILS

2.1 Outline the geographical location(s) for the proposed field work (see Note 3)

Central East Antarctica (survey for deep core), NW Greenland (deep core), coastal Antarctica, Greenland and Arctic islands (intermediate cores), entire polar regions (shallow cores).

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

Arctic Fieldwork time frame(s)	Antarctic Fieldwork time frame(s)
05/07 – 09/07	11/07 – 03/08
05/08 – 09/08	11/08 – 03/09

2.3 What significant logistic support/facilities will be required for this project?
Can these resources be usefully shared with other projects? (see Note 4)

<p>Central Antarctic: aircraft for airborne survey NW Greenland: C130/Twin Otter support for drilling camp Other locations: support for field camps and traverses</p>

2.4 Will the project leave a legacy of infrastructure? (see Note 1)

<p>The project will leave:</p> <ol style="list-style-type: none"> 1. Geophysical information required to decide on a location for extracting the oldest possible ice core from Antarctica 2. Drilling camp, pilot hole, and start of drilling for full interglacial in Greenland 3. The skeleton of a major network of cores of different timescales across the polar regions to provide eventually a full picture of polar climate change

2.5 How is it envisaged that the required logistics will be secured? (one or more options can be identified)

Consortium of national polar operators	Y
Own national polar operator	Y or N
Another national polar operator	Y or N
National agency	Y or N
Military support	Y or N
Commercial operator	Y or N
Own support	Y or N
Other sources of support	Y or N
<p>It is anticipated that the Antarctic survey will be carried out by one or more national operators; the o Greenland drilling by one or more national operators, and components of the remaining network by individual operators at each site or group of sites.</p>	

2.6 Has the project been "endorsed" at national or international level (see Note 5)

Y	The project was agreed as a consensus plan at the IPICS meeting in April 2004, attended by most major international ice coring groups, and several logistic operators. We will seek adoption by ????
---	--

3.0 PROJECT MANAGEMENT AND STRUCTURE

3.1 Is the project a component (established over the IPY 2007-2008 timeframe) of an existing plan, programme or initiative or is it a new autonomous proposal?

New Project ?	Component of an existing or planned activity Y
IPICS has emerged as the next logical step in ice core activity after the success of projects such as EPICA, Vostok, Dome Fuji. This IPY activity gives an essential focus for starting IPICS as an international activity.	

3.2 How will the project be organised and managed? (see Note 6)

Organisation will be discussed fully at a meeting to be arranged by ESF in 2005. The existing steering committee (set up initially to organise the first meeting) will be expanded and made more international. Its role will be to define the target drill sites and to collate the outcomes. Individual activities will be organised and run by separate national and international consortia.

3.3 What are the initial plans of the project for addressing the education, outreach and communication issues outlined in the Framework document? (see Note 7)

Ice cores are a natural and very attractive topic for outreach. ??????

3.4 What are the initial plans of the project to address data management issues (as outlined in the Framework document)? (see Note 8)

Data will be managed by WDC-A and Pangaea????

3.5 How is it proposed to fund the project? (see Note 9)

As with previous ice core drillings, funds will be obtained for each sub-component from national operators, as well as from international funding sources such as the EU.

3.6 Is there additional information you wish to provide?

Individual sub-components of IPICS may choose to submit separate, more detailed proposals that also contribute to this overall umbrella.

4.0 PROPOSER DETAILS

4.1 Lead Contact for the Expression of Intent

Title ????Ken? Mark?

First Name

Surname

Organisation

Address 1

Address 2

Address 3

Postcode/ZIP

Country

Telephone

Mobile

Fax

Email

Repeat Email

4.2 List up to six other project members and their affiliation.

Name 1 Steering Committee?

Organisation

Name 2

Organisation

Name 3

Organisation

Name 4

Organisation

Name 5

Organisation

Name 6

Organisation

Accompanying Notes for submission of IPY 2007-2008 Expressions of Intent

Note 1 – IPY projects can take a number of forms.

a) 1.4 - They may address one or more of the IPY 2007-2008 themes and if so will be expected to have component activities addressing education, outreach, data management and possibly legacy.

b) 1.5 - The main focus can be on science or on one or more aspects of education, outreach and communicating the Polar Year, an activity that addresses data management or that explicitly leaves a legacy (such as building a new polar facility or establishing new systems).

Note 2 - An important characteristic of IPY 2007-2008 projects will be their international structure in order to facilitate research impractical for a single nation to undertake. Whilst project components are likely to be primarily funded at a national level, the projects are expected to be established and coordinated internationally. The Joint Committee will be looking for evidence of international collaborations developing in the Expressions of Intent and established by the June 2005 full proposal deadline.

Note 3 – The geographic locations need not be precise but logistic operators will want to broadly know where activities will occur, e.g. West Antarctic Ice Sheet, Weddell Sea, Svalbard, Greenland, etc. If you have more detail please supply. An IPY project can also be one that involves no field activities.

Note 4 - This refers to major facilities and infrastructure and some examples (not comprehensive) are given below.

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)

Note 5 - All IPY projects will ultimately be subject to assessment by National (and/or International) funding agencies. However it will be important to establish coordination of IPY 2007-2008 at the national and international level. Both National IPY Committees and International bodies supporting IPY 2007-2008 will have an important role in this. Contact with these bodies may occur before January 14 2005 but should certainly take place before the June 2005 deadline for full proposals.

Note 6 – 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.

Note 7 – It will be a requirement of IPY proposals that there is a clear plan for Education, Outreach and Communication (EOC) activities in the full proposal for the June 2005 deadline. If initial ideas for EOC have been established these can be outlined in the Expression of Intent.

Note 8 – It will be a requirement of IPY proposals that there is a clear plan for the management of project data, including its early availability to the community, presented in the full proposal for the June 2005 deadline. Initial ideas for data management should be outlined in the Expression of Intent, including which data organisations are likely to be involved, e.g. ICSU World Data Centres, Joint Committee for Antarctic Data Management, WCRP, etc.

Note 9 – It is anticipated that funding for IPY 2007-2008 will be primarily obtained through national funding agencies but in some cases will involve international funding agencies (e.g. European Union) and in some cases will come from private sources. Certain projects will be part of programmes already funded and if so these can be identified here.