# International Polar Data Forum: Abstract Submission

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* Please delete as appropriate

# Abstract

**Presentation type:** [ x ] Oral                   [  ] Poster


**Session theme:**
[ x ] Data: Lessons learned from IPY
[  ] Best Practise: Data Administration
[  ] Best Practise: Data Publication and Citation
[  ] Best Practise: Data Sharing and Observing Networks
[  ] Best Practise: Handling Dark and Big Data
[  ] Current Data Practises: SCAR, IASC, SAON, SOOS
[  ] Data Centre Accreditation
[  ] The Future of Polar Data Management
(Please check with an **X** the Forum session(s) most appropriate to the topic of your presentation[†].)


**Abstract title:**

Preservation and publication of IPY data – a collaborative effort of PANGAEA, ICSTII, and the ICSU WDS.


**Keywords:**

**Abstract**:
In a collaborative effort between PANGAEA – Data Publisher for Earth and Environmental Science, the ICSU World Data System (WDS), and the International Council for Scientific and Technical Information (ICSTII) data resulting from projects related to the International Polar Year (IPY) have been extracted from literature for long time preservation and publication. In a first step ICSTII staff compiled a bibliography using keywords relevant to IPY projects. This bibliography referencing around 500 articles served as basis for PANGAEA staff to filter out journal articles having supplementary data that could be extracted either from the articles or from supplementary materials supplied with the publication. Preparation of data included a technical quality control of data (check for outliers, correctness of geocoding, precision of values etc.) and – using the editorial system of PANGAEA - annotation with metadata. Data and metadata were imported into the PANGAEA archive (relational database – RDB). Due to harmonization of content and structure of data and metadata archived data sets are efficiently usable. Data can be retrieved via the PANGAEA data portal (http://www.pangaea.de/search?q=project%3Aipy or via the WDS data portal (http://www.icsu-wds.org/services/data-portal) using the keyword IPY. Due to collaborations of PANGAEA with science publishers data can be cross-referenced with science articles. In some cases data are directly accessible from the article's splash page (e.g. http://www.sciencedirect.com/science/article/pii/S0012821X11001233). Until end of July 2013 more than 300 data sets have been archived. The initiative presented here describes a data management effort following the IPY. Notwithstanding the overall positive effect of the work performed the initiative also exemplifies the limitations of data management efforts that are not

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[†] For Scientific Organizing Committee guidance only; your presentation may be moved to another session

synchronized with science activities. Not only can be assumed that large parts of existing data from IPY projects are not archived and openly accessible, also must be noted that due to the mostly missing communication data producers cannot be included into the editorial and final assessment of data. Ideally early involvement of organizations like ICSU WDS and of WDS members would allow a better planning and also funding of project data management activities. This not only leads to more collaboration and synergies between projects during the runtime of a science program but also improves the data basis for on-going programs and projects. It is therefore one of the declared aims of ICSU to establish a closer context between science programs and WDS.

# Guidelines for Extended Abstracts to be presented at the International Forum: 'Polar Data Activities in Global Systems'

*1st Author's Name*[1]*, *2nd Author's Name*[2]

[1]* *1st Author's Affiliation, Address, City, State/Province, Postal Code, Country*
[2] *2nd Author's Affiliation, Address, City, State/Province, Postal Code, Country*
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**Summary.** The following is a set of guidelines for preparing an extended abstract submission for the International Forum: 'Polar Data Activities in Global Systems'. Guidance is given on layout, text formatting, figures/tables, and references such that each submission is clear and has a high level of conformity. This template is presented exactly as your extended abstract should appear, and it is highly advised to use it to prepare your submission in Word format. Your summary should be a brief, informative abstract of approximately 100–150 words. It should be a single paragraph and references should not be cited. Leave a single line space above the keywords.

**Keywords.** A list of up to 5 words describing the main concepts in the abstract, separated by commas.

## 1. Introduction

The typography, layout, and style used in this template match those required when preparing your extended abstract for the International Forum 'Polar Data Activities in Global Systems'.

The preferred language for abstracts is British English; but other English styles may be used, as long as this usage is consistent throughout the text. Only minimal editing will be applied to each abstract. Therefore, if English is not your first language, please have the text checked by a competent editor. The narrative should be written in the third-person; and pronouns such as 'I' or 'we' used sparingly.

The manuscript should not exceed two pages in length, and should fit within the margins given in this template.

## 2. Abstract Title and Authors

Capitalization of the title should follow standard conventions; specifically, all words except articles, prepositions, and conjunctions should be set with an initial capital.

Author names should be written in the format: First_Name Middle_Initial(s) Last_Name (e.g., John F. Smith). Do not use academic titles. Author affiliations are indicated by superscript numbers, and listed underneath in enumerated order.

The ordering of authors is not prescribed; however, the presenting author should be additionally marked with an asterisk (*) and their email address added directly below the affiliations.

## 3. Headings and Text

The initial paragraph in each section should be left-aligned and subsequent paragraphs indented by 0.5 cm. A single line space is left only between sections.

### 3.1 Headings

- For section headings use 12 pt, **boldface** type. Sections are consecutively numbered and headings follow the same capitalization convention as the abstract title.
- For subsection headings use 10 pt, **boldface** type. Number each subsection according to it section and capitalize only the first word of its heading.
- For inline headings use 10 pt, **boldface**, *italic* type. These headings are

unnumbered, only the first word is capitalized, and they end with a full stop.

### 3.2 Text styles

- A single space is used after punctuation denoting a pause in, or end of, a sentence (comma, full stop, question mark, etc.).
- Acronyms should be spelt out in their first instance and the acronym used thereafter, for example, International Council for Science (ICSU).
- Use *italics* for emphasis and quotes, but try to minimize their use.
- Do not use symbols that cannot be represented in Myriad Pro.
- Keep hyphenation to a minimum.
- Use only bullets '•' or Arabic numerals (e.g., 1., 2., 3., etc.) for displayed lists.

### 3.3 Equations

Equations should be typeset following usual mathematic norms (e.g., variables denoted by *italic* type). Displayed equations should be centred and consecutively numbered within parentheses along the right margin for reference:

$$x^2 + y^2 = 31 \tag{1}$$

All numbered equations must be referenced in the text, and are referred to by using 'Equation' for example, 'From Equation (1)'.

## 4. Figures and Tables

Please ensure that all figures/tables are of sufficient quality (minimum font: 8 pt) to enable clear reproduction in greyscale. Colour images will be used only where absolutely necessary.

Each figure/table must have a 9 pt (centre-aligned) legend prefixed with '**Figure/Table #.**' where # is next consecutive number for that figure/table. Use (a), (b), (c), and so on to distinguish between subfigures.

All figures/tables must be referenced in the text, and are referred to by using 'Figure'/'Table'. Place figures/tables as close to the relevant citation as possible. However, if a figure or table spans both columns of the manuscript, it must be placed either at the bottom of the first page or at the top/bottom of the second one (see Table 1).

## 5. Conclusions

All abstracts should include a short Conclusions section reiterating the main outcomes of the work.

## References

1. Author1, A. B., Author2, C. D., Title of journal article. *Journal*, volume, 1st page–last page, Year
2. Author3, E., Author4, F.-G., Author5, H. I, Title of conference article. In: Editor1, J. K. (Ed.), *Title of proceedings*, Place of conference, 1st page–last page, Year
3. Author6, L. M. O., Author7, Q. R., *Title of book*. Publisher Name, Publisher City, Year
4. Author8, S. T., Title of book chapter. In: Editor2, U. V., Editor3, W. Y. (Eds.), *Title of book*, Publisher Name, Publisher City, 1st page–last page, Year
5. An Organization, http://www.their-website.org [accessed on: Month Year]

References are cited by using square brackets with consecutive numbering. Number ranges should be grouped within the same brackets, for example, [1–3]. Please ensure that all references listed in the Reference section are cited in the text and vice versa.

References are listed as in Section 3.2, and should follow the format shown above. All references should be written using the Latin alphabet. If the reference is in a language other than English, for example, Japanese; then please write (in Japanese) at the end.

**Table 1.** An example of a table spanning both columns.

|  | Variable_1 | Variable_2 | Variable_3 | Variable_4 |
|---|---|---|---|---|
| **Sample_1** | Result_1,1 | Result_1,2 | Result_1,3 | Result_1,4 |
| **Sample_2** | Result_2,1 | Result_2,2 | Result_2,3 | Result_2,4 |

| Sample_3 | Result_3,1 | Result_3,2 | Result_3,3 | Result_3,4 |