

#### Data Sharing Policies The International Polar Year Case

Hans Pfeiffenberger Alfred Wegener Institut / Helmholtz Gemeinschaft





Hans Pfeiffenberger, OGF23, Barcelona , 2008-06-05



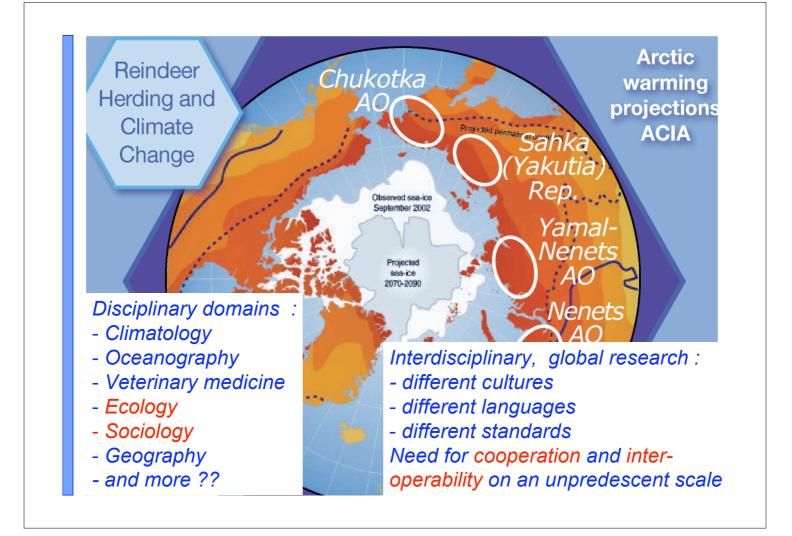
- What is the IPY (and its mission)
- What are the challenges
- Official Data Policy of IPY
- Real World limitations and obstacles
- Implications and challenges for
  - repositories in general and
  - AAI matters in particular

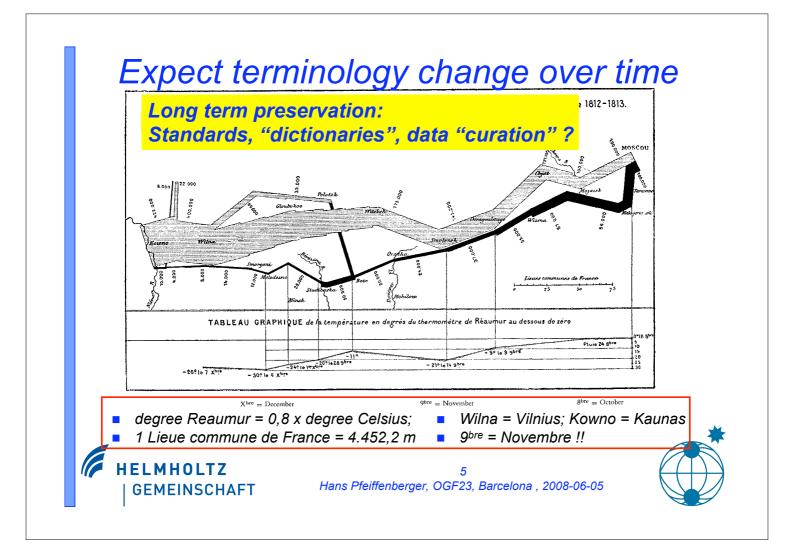












# Data policy of the IPY 2007/2008

- "In order to be considered as officially part of IPY, each Project must follow the IPY 2007-2008 Data Policy"
- "... the IPY Joint Committee requires that IPY data, including operational data delivered in real time, are made available fully, freely, openly, and on the shortest feasible timescale

"... to ensure the lasting legacy of IPY, it is essential to ensure long-term preservation and sustained access to IPY data. All IPY data must be archived in their simplest, useful form and be accompanied by a complete metadata description."

"… it is the responsibility of individual IPY projects to make arrangements with long-term archives …"

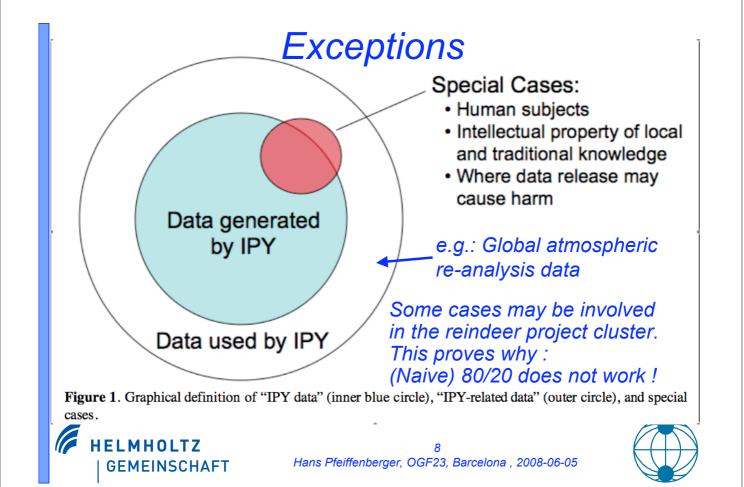
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#### Deal with exeptions

- Data "owners" need trustworthy assertions, e.g.:
  - "I am doing non-commercial research" (ECMWF reanalysis)
  - "(S)he is a member of a trustworthy group" (nesting sites)
  - "(S)he needs to know" (sociological details)
- Repositories need to implement owners "policy"
  - Fine grained access rights ("policy" decision/enforcement)
  - YES/NO or "selective availability" (taylored precision)
- Who are the autorities? Mind the long term !!
  - The user-individual himself (license agreement)
  - The owner-individual/organisation herself/itself
  - A group (a project PI, a peer group, a learned society)

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## **Objections**

"These are my data, I wish to exploit them exclusively for years..."

"I would need to explain the data to a user anyway"

"I am required to sell the data by my funding agency"

**....** 

- Except for the last argument, all other boil down to:
  - I have put much work into the data and
  - would need to put more work into it to make it re-usable.
  - Where is the compensation?

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### More "Objections" to Open Access

- Would like to have a contract ...
  Granting offer of co-authorship if publishing about data
- Would like each user to register, be alerted about each download by registered users
- Restrict access to
  - Personal use for one year
  - project (cluster) members for 3 years
  - public thereafter
  - This is the policy of the "Network for the Detection of Stratospheric Change" (15 reference observatories)

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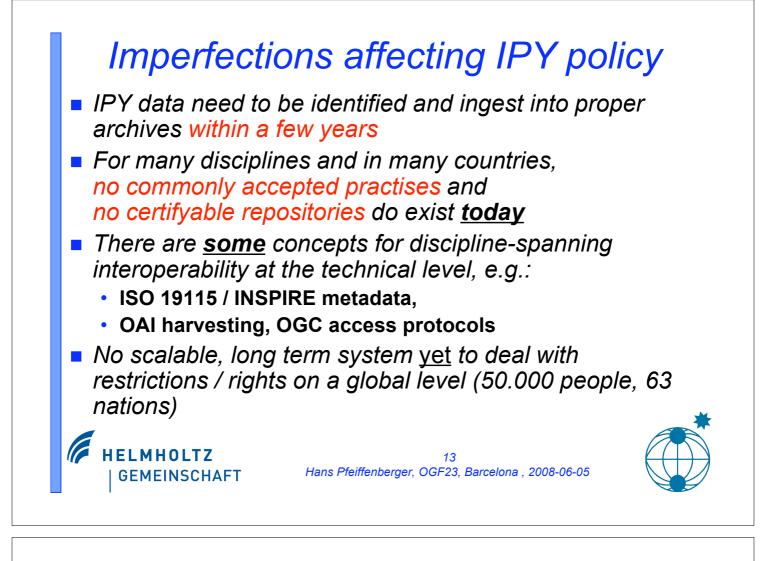
## Deal with objections

- The IPY Joint Committee has no means to enforce the data policy
- Build a culture of sharing (per discipline!)
  - "evangelism"
  - incentives : proper citation, data journals (CV!)
- Make repositories useful and reliable
  - high quality data !! (certification)
  - compatible with users' tools practises and pradigms (VO!)
- High level of scepticism of funders due to bad prior experience (junkyards or black holes)

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### Deal with imperfections

"An IPY Data and Information Service (IPYDIS http://ipydis.org) should help projects identify appropriate long-term archives and data centers …"

IPYDIS is a framework for global cooperation to tackle IPY data challenge

Unfortunately, this <u>IPY project (!!)</u> is un(der)funded

- Realistic funding would be in low % range of research cost
- Even given "realistic" money, too late to build capacity during IPY itself (but it is worth doing for IPY!)
- However, some realistic national funding for national data (Canada), some for specific data types (remote sensing, meteorology) is available

 Must work on a number of problems simultaneously, on a best effort basis, provide "glue", bridge gaps, …

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#### Conclusion

- **The IPY data challenge is an opportunity**
- The problem seems to be overwhelming : "deluge" of contexts, as well as data,
- but it <u>must</u> be solved : <u>Much is to be gained</u> (or lost...)
- We must (and can) work on IPY data
  - pragmatically
  - addressing scientists / disciplines need & concerns
- IPY data as a whole could be a proving ground for all repository / data infrastructure concepts
- IPY data will be a data treasure for future generations

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