



WP3

***D3.8 White paper on European
polar data accessibility***

EU-PolarNet retreat

WP3 goal

Allow implementation of mechanisms for joint programming of infrastructure to enable bigger and more complex science to be undertaken

- Design a resource-oriented European infrastructure access and usage plan
- Identify short and long-term science needs
- Optimise the use of polar infrastructure for multi-platform science missions
- Build on current EU networks
- **Create a coordinated European polar research data infrastructure**
- Enable wider and coordinated use of space based assets by European polar operators

Main Objectives

1. *Design a resource-oriented **European infrastructure access and usage plan** for the Integrated Polar Research Programme (improve coordination incl with industry, optimise asset use, identify gaps)*
2. *Determine the best approach to wider and more **coordinated use of space-based assets**, spanning satellite communication, navigation and observation, to support European polar operators*
3. *Work towards a **coordinated European polar research data infrastructure** and improve open access to quality controlled data*

Task 3.3 – deliverables

	Deliverable name	Task	Lead partner	Delivery date	Due date	
D3.1	Survey of the existing polar research data systems and infrastructures, including their architectures, standards/good practice baselines, policies & scopes	3.3	CNR-DTA	12	Feb 2016	✓
D3.5	Data management recommendations for polar research data systems and infrastructures in Europe	3.3	AMAP	32	Oct 2017	✓
D3.8	White paper on European polar data accessibility	3.3	RBINS	48	Feb 2019	

D3.5

Deliverable 3.5: “Data management recommendations for polar research data systems and infrastructures in Europe”

- Lead: AMAP
- Delivered October 2017
- Approved by Executive Board December 2017
- Provides 16 recommendations

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Polar-specific recommendations

- Establish an overview of the current polar data 'ecosystem'.
- Establish a catalogue of metadata for all polar data.
- Define a metadata profile (and related vocabularies) for polar data management.
- Develop a polar model that can support the linking of metadata that is created using different standards or dialects of a standard .

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Global recommendations

- Further develop national/institutional/local catalogues and inventories of observing and data management activities.
- Engage with global data initiatives on developing a federated data search framework.
- Work to develop a strategy and work plan to move forward on semantic interoperability.
- Engage with global data initiatives on developing powerful brokering platforms.
- Make connections between prominent cloud platforms for seamless integration of data and results and establish models for sharing algorithms and software within and between platforms.
- [Polar] data management policies should be established for all institutions and organizations involved in the management of [polar] data.

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Global recommendations (cont'ed)

- Funding for data management should be an integral part of funding for all data collection activities.
- The need for sustained long-term data archives should be acknowledged.
- Data management as a discipline should be acknowledged, and data users, contributors and managers should have adequate training.
- Mechanisms for crediting the data provider must be developed and integrated in a [polar] data management strategy.
- Protocols should be developed that allow for ethical sharing of documented traditional and local knowledge.
- Strengthen the mentioned regional institutions and give them the mandate, competences and capacity to act as the forum for endorsement and quality assurance of data portals, repositories, and nodes.

D3.8 White paper

White paper on European polar data accessibility, including proposals for capacity building methodology to interconnect the existing and upcoming polar research data systems and infrastructures and thus ensure data are made more widely available and in a timely manner.