“Polar Data Journal”: A new data publishing platform for polar science

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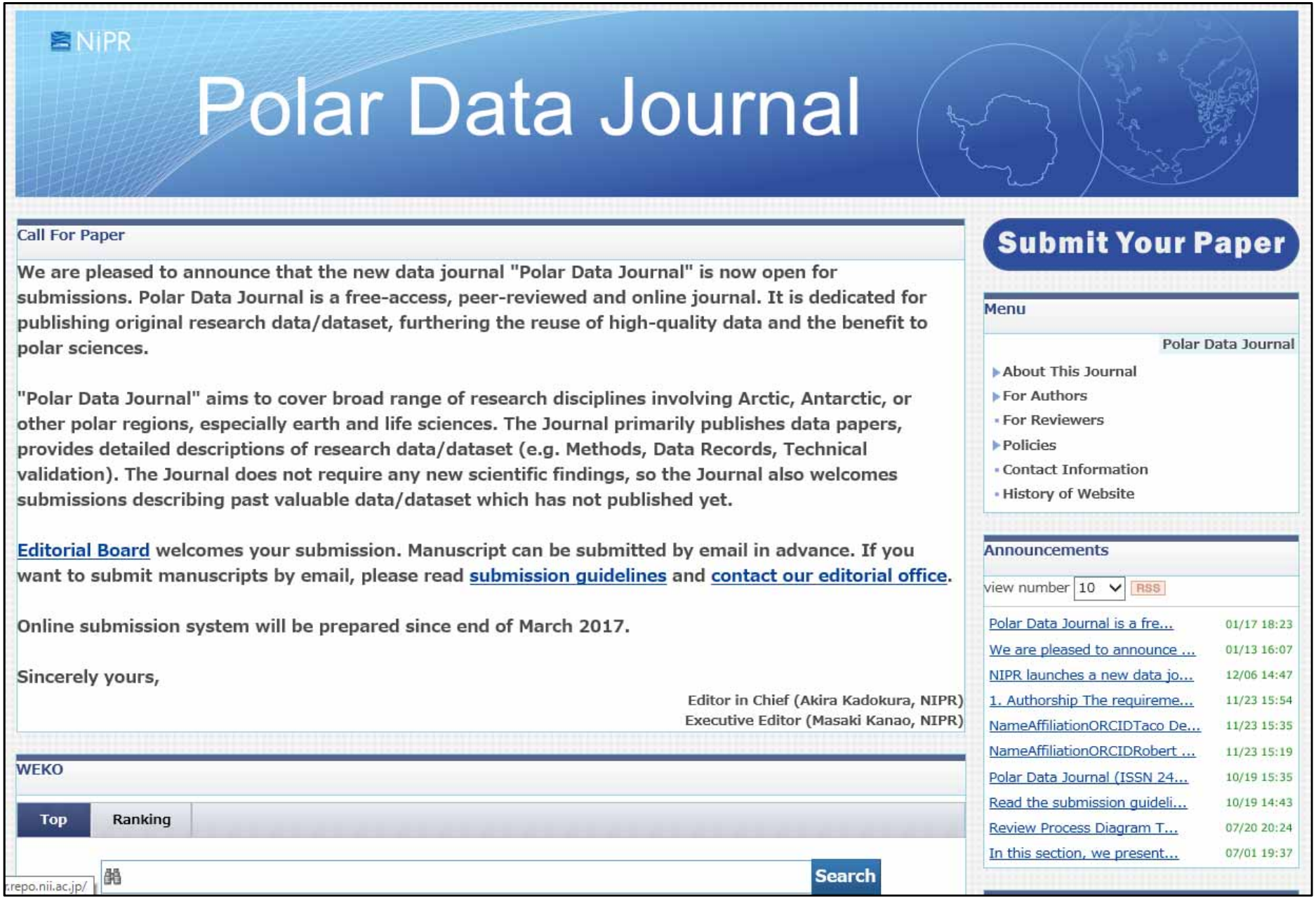
[3] National Institute of Informatics

A new data journal has been launched on 19 January, 2017 by the National Institute of Polar Research (NIPR)

https://pdr.repo.nii.ac.jp/



National Institute of Polar Research

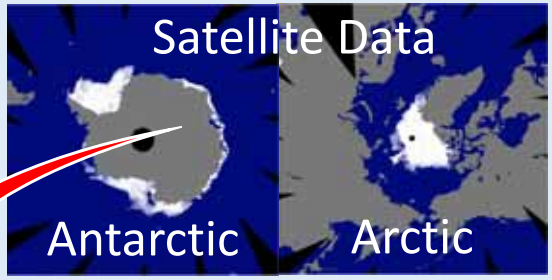
Research | Facility/Collaboration | Graduate Education | Database | Publication/Library

Antarctic Observation

Research activity

Arctic Research

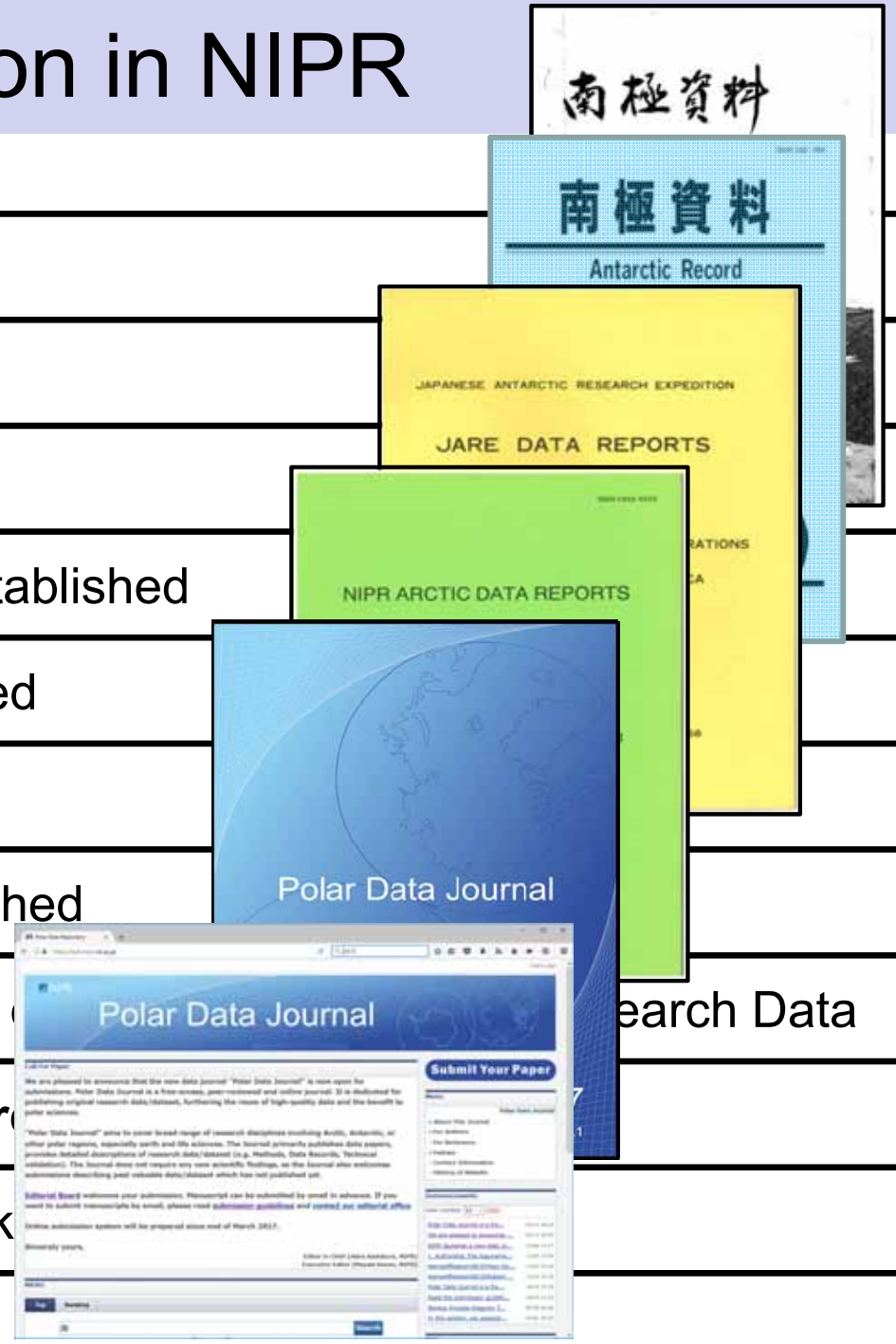
Data obtained by activities in polar region



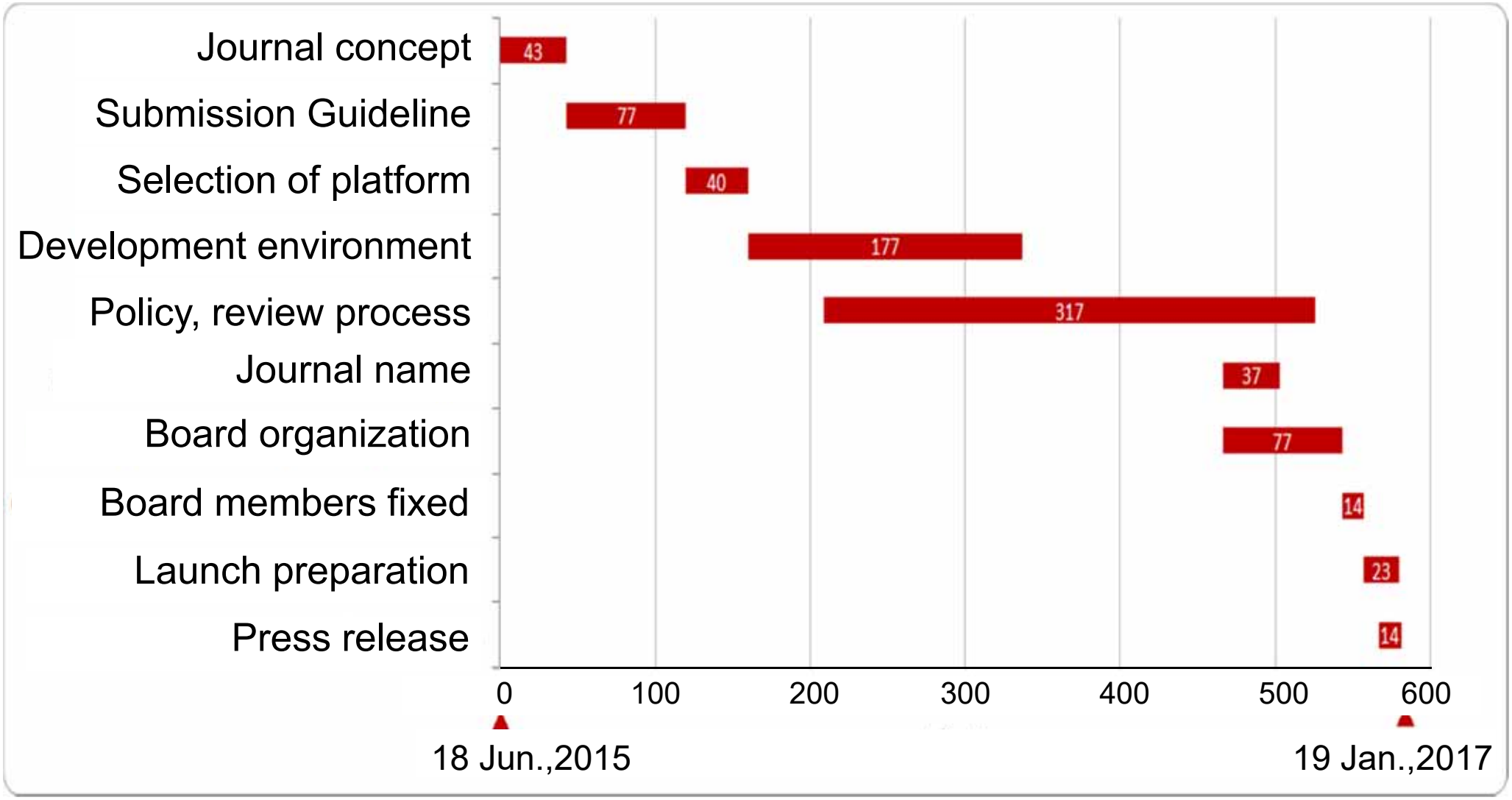
Data archive
Database
Data sharing
Data publication
Data science

History of Data Publication in NIPR

1957 Jan	**Syowa Station** established
1957 Dec	**Antarctic Record** launched
1968 Aug	**JARE Data Reports** launched
1991 Jan	**Ny-Ålesund Research Station** established
1996 Dec	**NIPR Arctic Data Reports** launched
2007 Aug	**NIPR Science Database** launched
2012 Aug	**Arctic Data archive System** launched
2014 Oct	Joined in The Experimental Project (earch Data
2014 Oct	**National Institute of Polar Resear**
2015 Jul	Data Reports Future Concept WG k
2017 Jan	**Polar Data Journal** launched

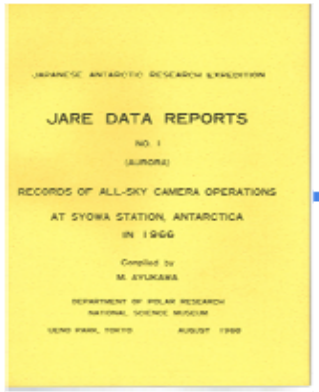


Gantt Chart of the Polar Data Journal Preparation

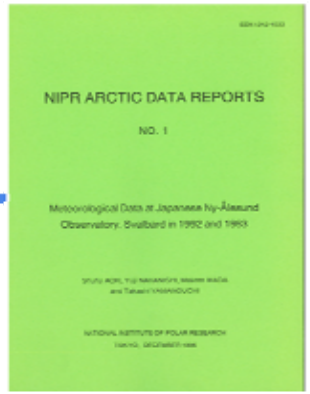


Polar Data Journal: free-access online journal

JARE Data Reports



Arctic Data Reports



https://pdr.repo.nii.ac.jp/

Metadata

Paper

Linkage

Publish

JAIRO Cloud

doi

CC BY

https://community.repo.nii.ac.jp/

Data Repository

ADS Arctic Data archive System

or

Trusted Data Reporistories

https://ads.nipr.ac.jp/

Polar Data Journal : Editorial Board

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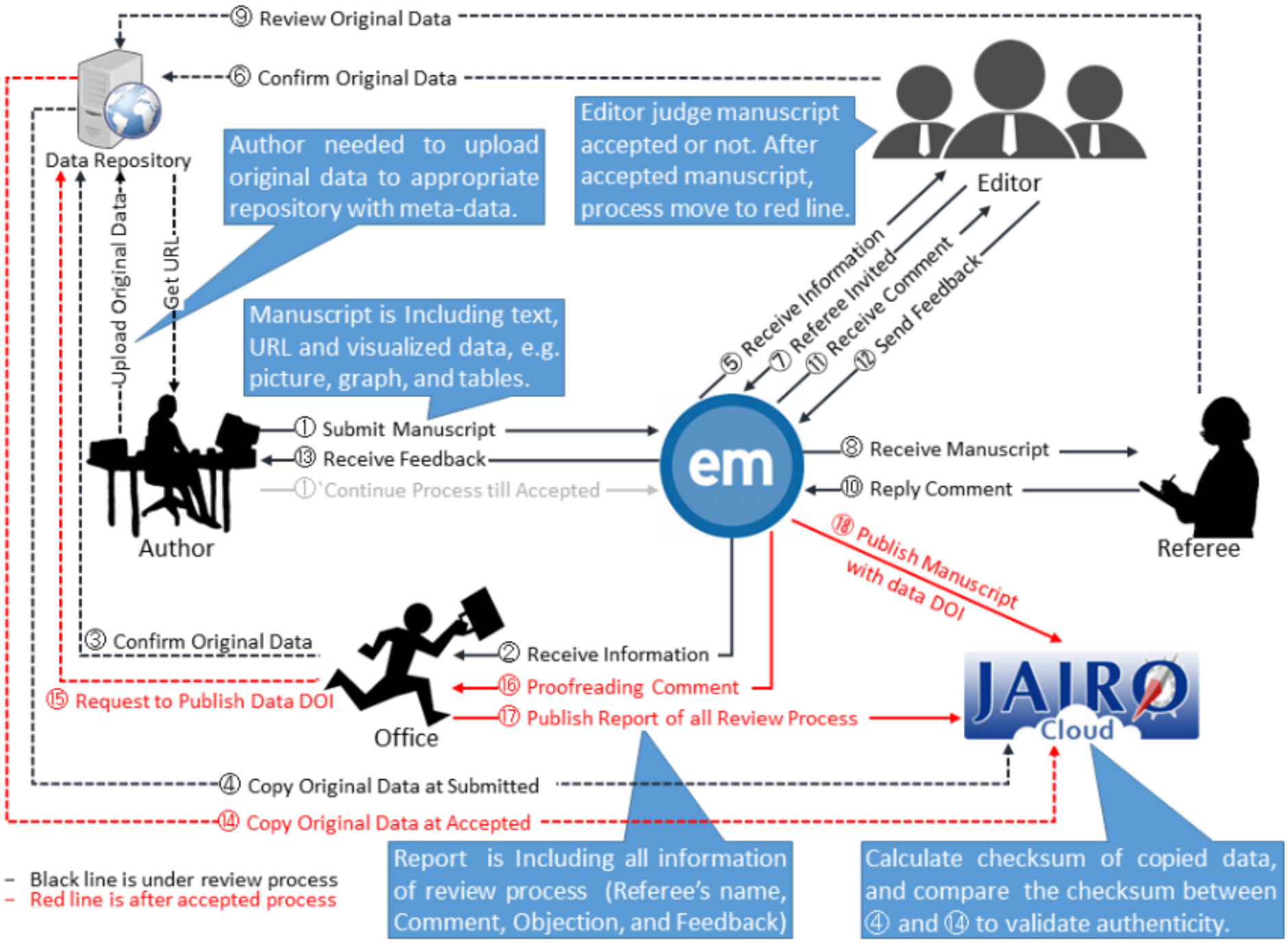
9	Hideaki Takeda	National Institute of Informatics
10	Seiji Tsuboi	Japan Agency for Marine-Earth Science and Technology

Polar Data Journal : Aims and Scope

- Free-access, peer-reviewed and online journal.
- Dedicated for publishing original research data/dataset, furthering the reuse of high-quality data and the benefit to polar sciences.
- Aims to cover broad range of research disciplines involving Arctic, Antarctic, or other polar regions, especially earth and life sciences.
- Primarily publishes data papers, that provides detailed descriptions of research data/dataset (e.g. Methods, Data Records, Technical validation).
- Does not require any new scientific findings.
- Welcomes submissions describing past valuable data/dataset which has not been published yet.
- Requires to be passed our peer-review process.
- Before submitting manuscript, authors should deposit their data/dataset to trustworthy data repository.
- Data authenticity is guaranteed by publishing report of all review process, which will be published with author's manuscript at the same time.

Polar Data Journal : Review Process



Polar Data Journal : Appropriate Repositories

To promote the creation of reusable, high-quality data/dataset, the following criteria are required for the data repository:

① A persistent identifier:
The data/dataset must have a persistent identifier (such as a digital object identifier, DOI).

② Free access:
The data/dataset must be available free of charge and without any barriers except for a standard registration to get a login free of charge.

③ Liberal copyright:
Anyone must be free to copy, distribute, transmit, and adapt the datasets as long as they give credit to the original authors.

Polar Data Journal : Submission Guidelines

Item	Explanation
Title	256 characters maximum, including spaces
Authors	First name Last name1, First name Last name2
Affiliations	1. Institution, 2. Institution, Corresponding author(s): Given name FAMILY name (e-mail@address)
Abstract	Contain a concise summary and note the acquired and prepared datasets as well as possibilities for reusing those datasets.
Background and Summary	Explain the research background that served as the basis for the prepared data and explain the composition of that research with citations, where necessary. In addition, discuss the motivation and purpose for preparing the data as well as the data's value.
Location (or Observation)	Using maps, describe the locations where data were acquired or observations were made.
Methods	Describe the processing technique used when preparing data, such as the methods used to acquire data and/or conduct observations, with citations as necessary.
Data Records	Explain data records that pertain to this report. Describe the data files and their formats so that other researchers can reuse them by reading this section.
Technical Validation	Provide the method used to support the technical quality of the datasets, with accompanying figures and tables when necessary. This is a required section; authors must provide information that legitimizes the reliability of their data.
Usage Notes (optional)	Describe any points that should be kept in mind when using the data.
Acknowledgements	Include contributions from people who are not listed among the authors, as well as projects that gathered data and sources of funding.
Author Contributions	Describe the contributions made by each author.
Competing Interests	Data management plans designated by funding sources may be provided here.
Figures (optional)	Include a maximum of four figures that present the main data points of the published data in a "quick look" format.
Tables	Include the main data points of the published data.
References	Provide bibliographic information for any works cited in the above sections, using the standard Nature referencing style.
Data Citations	This section is for notation of bibliographic information that was provided in the data report. For this section, data repositories involving polar science will provide digital object identifiers (DOIs).

Polar Data Journal : first published data paper

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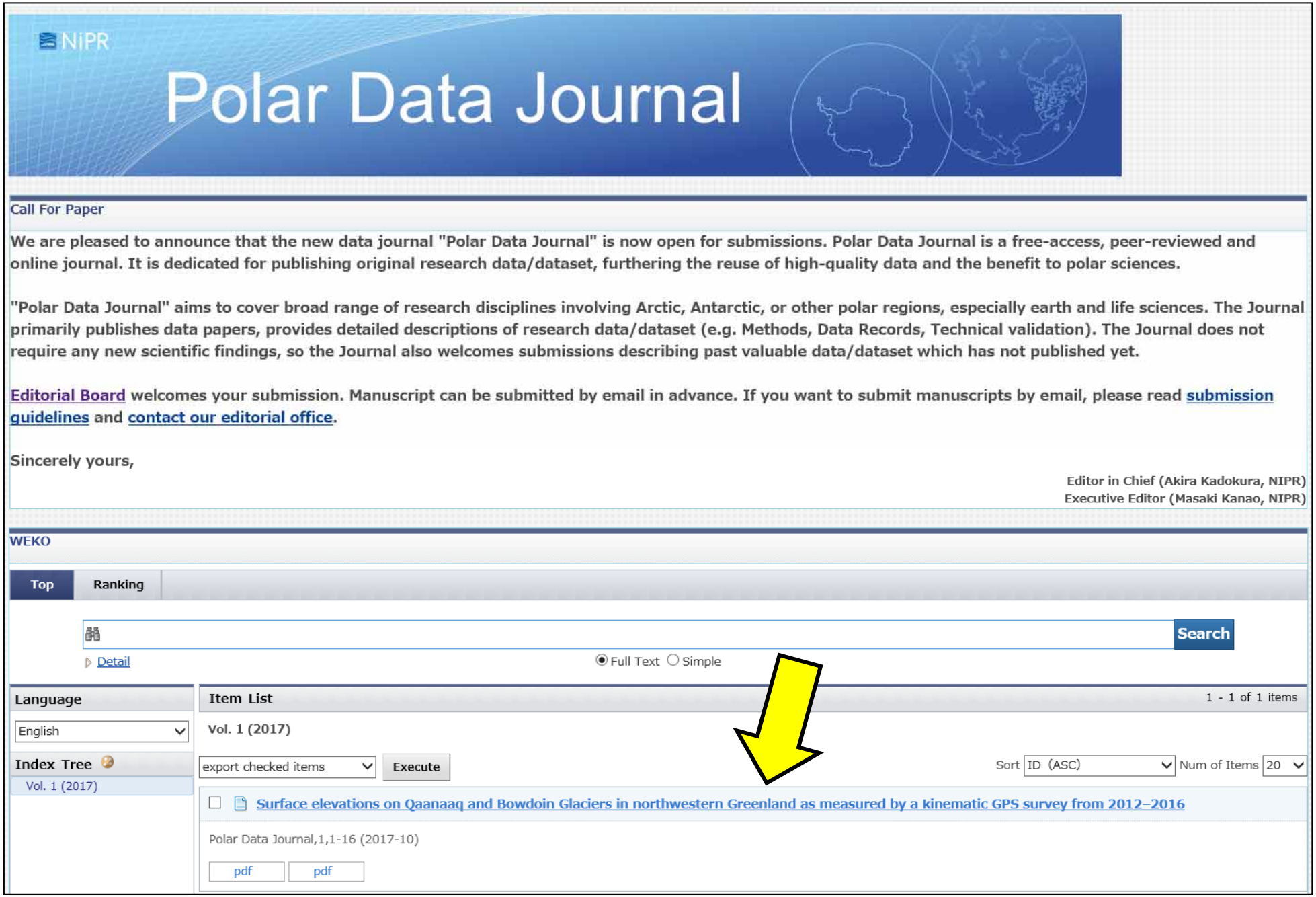

Polar Data Journal : first published data paper

Vol. 1 (2017)

Permalink : http://doi.org/10.20575/00000001

Surface elevations on Qaanaaq and Bowdoin Glaciers in northwestern Greenland as measured by a kinematic GPS survey from 2012–2016

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Polar Data Journal : first published data paper

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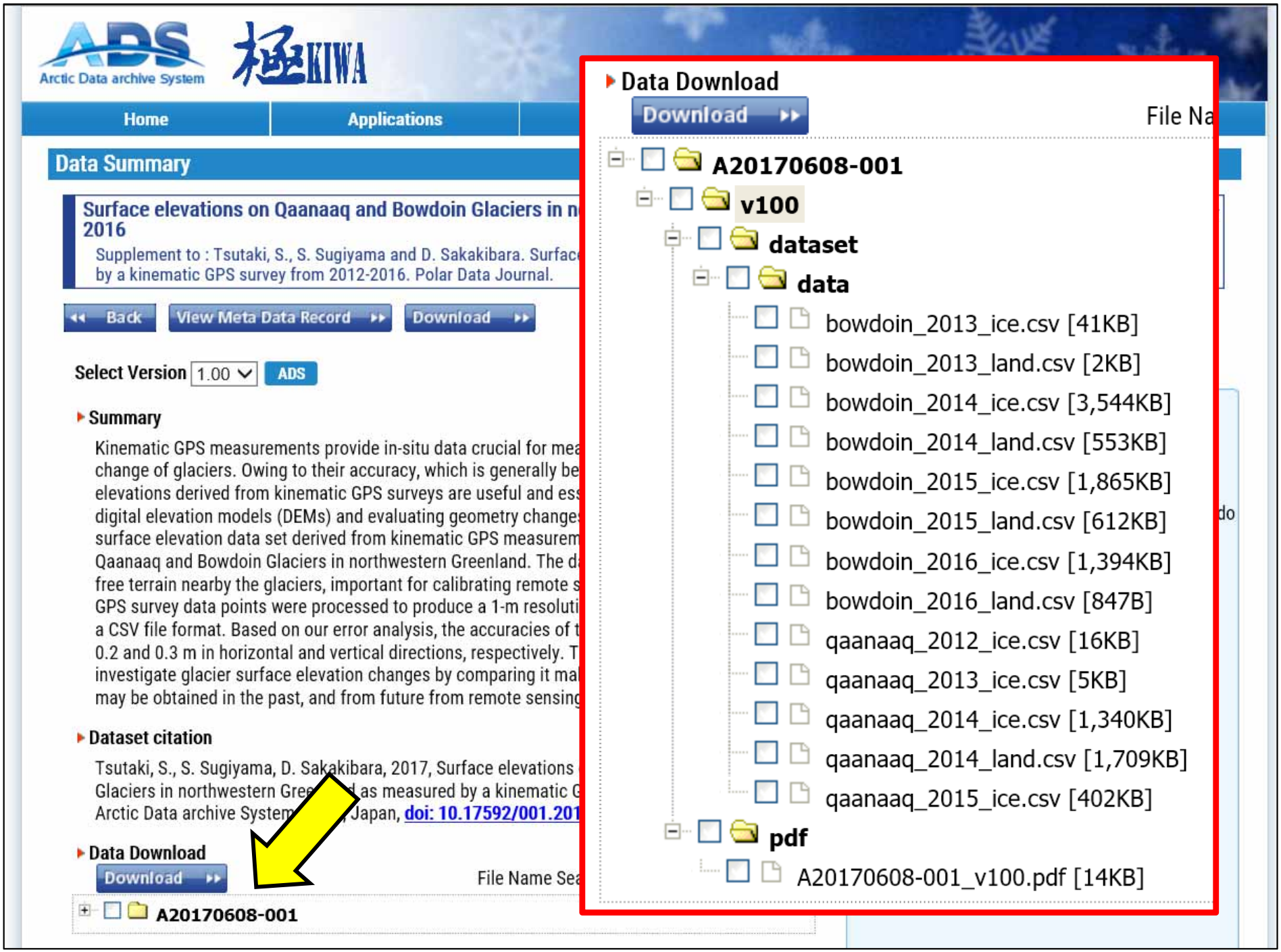
Polar Data Journal : first published data paper



Summary

- ✓Polar Data Journal (PDJ) is a free-access, peer-reviewed online journal for publishing original research data/dataset, covering broad range of research disciplines including Arctic, Antarctic, or other polar regions.
- ✓PDJ was newly born in January, 2017.
- ✓The first data paper of PDJ was published in October, 2017.
- ✓It is important to invite more submissions of data papers to raise the PDJ as the first data journal in our community. How ?