

極地研における研究データ出版の現状

- ✓ 学術データベース (金尾政紀)
- ✓ 北極データアーカイブ(ADS) (矢吹裕伯)
- ✓ 極地研 学術情報リポジトリ (斎藤泰雄)



研究者向け

総合的データベース



極地研学術データベース

Kanao



北極域データアーカイブ

Yabuki



南極マスターディレクトリ
— Japan



極地研学術情報リポジトリ

Saito

宙空間



超高層大気メタデータベース
(SHAMDB)



オーロラデータセンター



北極域・南極点・マクマ
ドゥー基地光学観測データ



EISCATデータベース



南極昭和基地大型大気レー
ダー (RAMP) データ

極域の学術(メタ)データベース

- ◆ 南極観測事業(JARE)をはじめ、(北極を含む)両極域での調査・研究活動により取得された科学的データのメタ情報を収集・公開
 - IGY(1957-58)以後の長期間に渡るモニタリング観測
 - 短期間に集中的に行うプロジェクト研究
 - 極地研(研究分野別) + 定常官庁
- ◆ 文字情報・数値形式の所在情報(メタデータ)として、**活して集積**
- ◆ 専用のポータルサーバ <http://scidbase.nipr.ac.jp/>
- ◆ NASAの南極マスターディレクトリー(Antarctic Master Directory)等とも連携



Both the English & Japanese pages

160,000 access from 2011. December

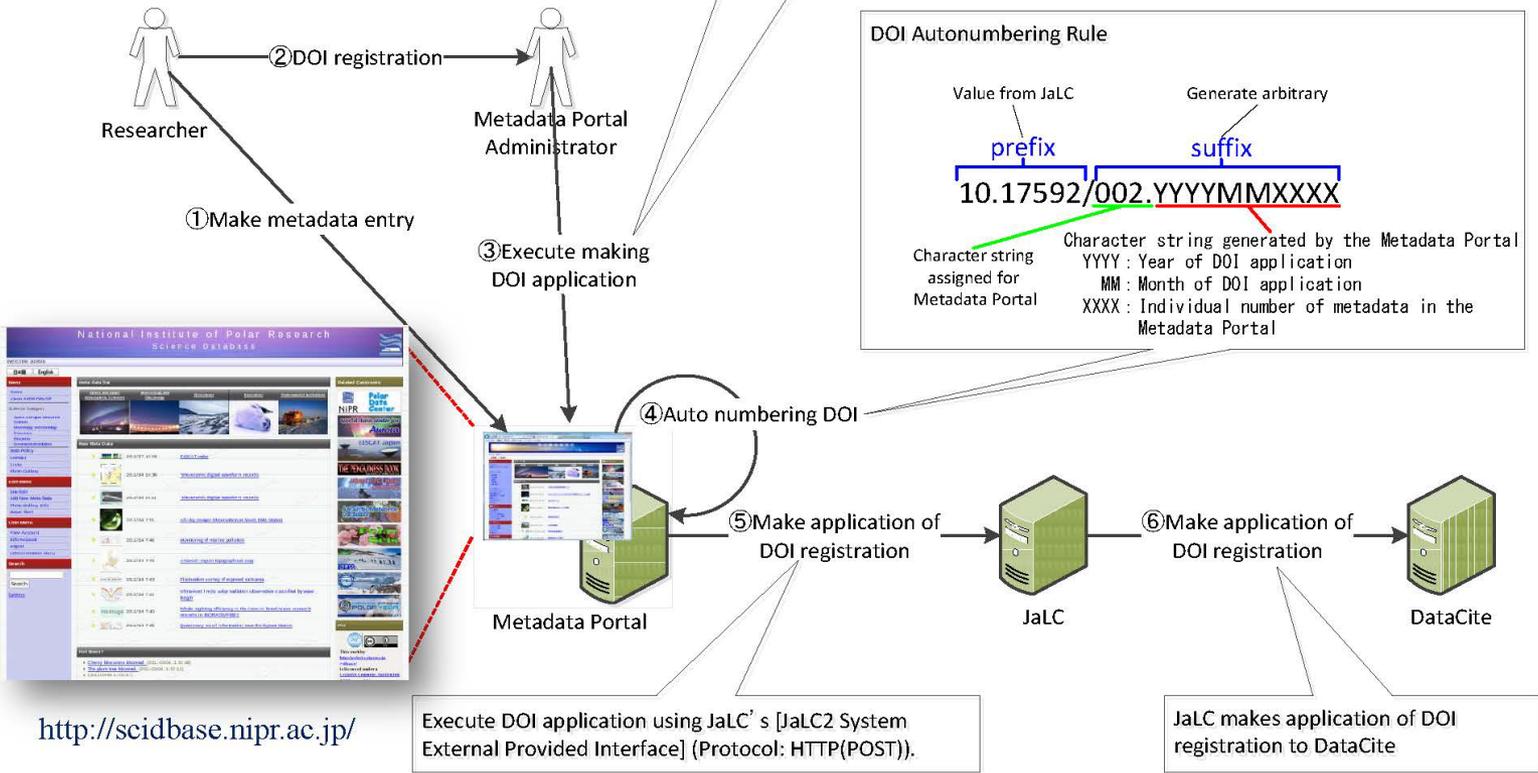
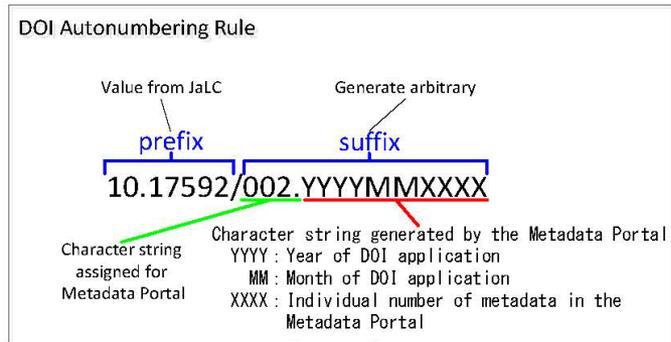
Data Publication

(DOI assignment to the data inside PEDSC metadata portal)

データ出版 (DOI付与) の促進
 申請 → NIPR データマネジメント
 委員会でチェック → 承認

Provide DOI from DataCite via
 Japan Link Center (JaLC)

Only administrator of the Metadata
 Portal can execute application to
 DOI registration.



A flow chart to get DOI prefix from DataCite to PEDSC server (<http://scidbase.nipr.ac.jp/>) via JaLC gateway interface.

Kanao, M., M. Okada, J. Friddell and A. Kadokura, Data Science Journal, 17: 1, pp.1-6, 2018

『NIPR 学術データベース DOI付与の流れ』

◇申請から付与承認通知まで

【 National Institute of Polar Research Repository ; <http://scidbase.nipr.ac.jp> 】

【チェック担当者】
(原則として)所内データマネジメント委員会委員、必要に応じて所内外関係者に依頼

【管理者】
学術データベース担当

【申請者】

様式1(申請書)

事前にメタデータポータルサーバにデータ登録

差し戻し・再申請

(申請書内容に不備がある場合)

様式2(チェックシート)

データの確認・評価

ケース3.

ケース4., 5.

申請受付・
記載事項の確認

チェック担当者(2名)を決定

チェック依頼

ケース2.

チェック担当者による評価確認

ケース1.

付与承認を委員会へ打診・資料回付

データ修正

ケース2., 3.

【データマネジメント委員会】

DOI付与の認定

審査結果通知+様式2

ポータルサーバでのDOI付与作業

審査結果通知+様式2

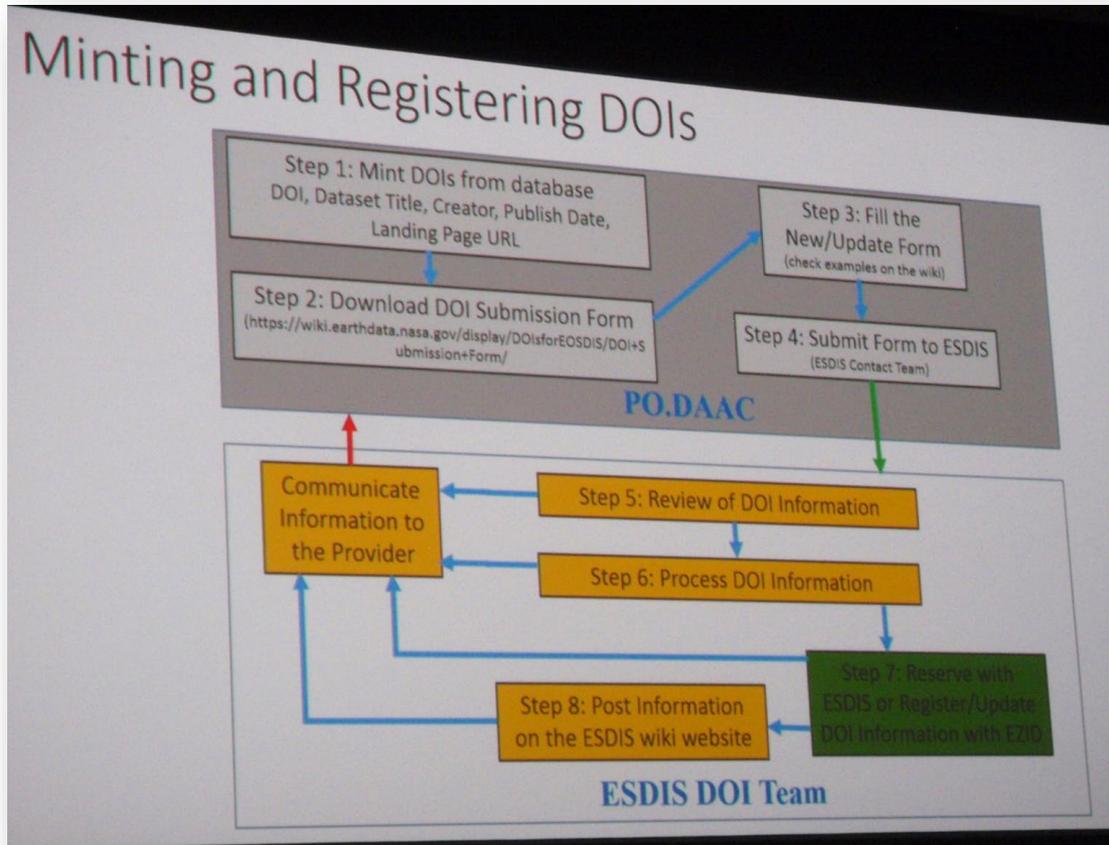
付与承認の連絡

【申請者】

評価ランク

- ケース1. このままDOI付与をしてよい。
- ケース2. コメントまたはチェックシートに書き入れた問題点が解決されれば付与してよい。
- ケース3. メタデータの該当項目について記載内容の修正を行った上で、再度確認作業が必要。
- ケース4. 「データ公開方法」のランクアップを行った上で、再申請すべきである。
- ケース5. 却下すべきである。

Australian National Data Service (ANDS)



SciDataCon-2016; Data Citation session, 12 September
Example of DOI attribution flow-chart to Australian Oceanographic data

Data Publication (DOI assignment to the data inside PEDSC metadata portal)

DOI (対流圏・成層圏, 中間圏)

対流圏・成層圏

DOI : 10.17592/002.2020070383

中間圏

DOI : 10.17592/002.2020070384

Science Database

Science Field
Basic and Space Atmospheric Sciences >> Observations by the Japanese Antarctic Research Expedition
Project >> Basic and Space Atmospheric Sciences

Overview
Title: Mesosphere observations
Sub-Title: Program of the Antarctic System Survey METOS Radar (PANSY) Mesosphere Observations
Data Summary: High-resolution 3D radar volume data observed by PANSY radar (4740S, 78.8E). The PANSY radar is the first and the only METOS radar in the Antarctic region. Continuous observation has been obtained from 2012 with a partial suspension. The operation full-system observation has been achieved in 2015. The area observation covers 150S and the area of the antenna after is 15.00N-77.7E. This metadata represents the mesosphere (MS) observations. Altitude coverage of MS observations is about 30 km to 130 km. Time and height resolutions are about 1 minute and 30000m, respectively. The volumes are observed based on Doppler shift, observed with the azimuthal 15 degree resolution. The data is provided with NET-CDF format. Although the data have been processed after a careful screening for systematic noise and interference, there are certain systematic errors nevertheless. It is therefore recommended that you contact us and be advised for the use of data.

About Observation

Spatial Coverage

Data Location
Ryuge Station (68.0S, 78.8E)
Observation Period / Temporal Coverage: 2012-05-01 - present
Data Period: 2012-05-01 - present

Data Variable
Data Name: Ground based radar wind observation of the mesosphere by PANSY
Data Period: NET-CDF
Data Recording / Acquisition Sampling: Continuous observation
Observation Instruments: METOS radar: 4740S, 5280W

Publication method
DOI: 10.17592/002.2020070383

Data Policy
If you acquire PANSY radar data, we ask that you acknowledge us of your use of the data. This can be done by including our name as PANSY radar data provider in PANSY Report (PANSY Report form is available on www.nipr.go.jp). We would also appreciate it if you would send us a copy of each observation. As a reference of PANSY radar we kindly request you to refer to the following paper: Sato, K. et al., Program of the Antarctic System Survey METOS Radar (PANSY) (2014), J. Atmos. Solar-Terrest. Phys., 118, Part A, 1-15, doi:10.1016/j.jastp.2013.08.012

Data Center
Polar Environment Data Science Center: NIES-GS (Inq:Inq@nies.ac.jp)
Contact Person: Isobe, Toshiyuki
E-mail: isobe@nies.ac.jp
National Organization: Kyoto University
Joint Research Center for Data Science Research (JDCS-DR)

Scientific Results / Publications
Sato, K., M. Nakamura, T. Sato, T. Nakamura, A. Sato, T. Tomikawa, K. Hironaka, H. Kohno, H. Yamaguchi, and T. Yamamoto, "Program of the Antarctic System Survey METOS Radar (PANSY)", J. Atmos. Solar-Terrest. Phys., 118A, 1-15, 2014.
Acknowledgements: PANSY data were used where appropriate. We hereby acknowledge the National Institute of Polar Research.

Classification
Digital Object Identifier(DOI): 10.17592/002.2020070383
File Name: 4740S
Keyword: Radar
Creator: Kyo Hashizume
Publisher: National Institute of Polar Research
Issuance History:

Science Database

Science Field
Basic and Space Atmospheric Sciences >> Observations by the Japanese Antarctic Research Expedition
Project >> Basic and Space Atmospheric Sciences

Overview
Title: Mesosphere and thermosphere observations
Sub-Title: Program of the Antarctic System Survey METOS Radar (PANSY) ST Observations
Data Summary: High-resolution 3D radar volume data observed by PANSY radar (4740S, 78.8E). The PANSY radar is the first and the only METOS radar in the Antarctic region. Continuous operation has been obtained from 2012 with a partial suspension. The operational full-system observation has been achieved in 2015. The peak transmission power is 150 kW and the area of the antenna after is 15.00N-77.7E. This metadata represents the mesosphere and thermosphere (ST) observations. Altitude coverage of the ST observations is about 1.00E to 215.00E. Time and height resolutions are about 1 minute and 30000m, respectively. The volumes are obtained based on Doppler shift observed with the multi-beam 15-degree resolution. The data is provided with NET-CDF format. Although the data have been processed after a careful screening for systematic noise and interference, there are certain systematic errors nevertheless. It is therefore recommended that you contact us and be advised for the use of data.

About Observation

Spatial Coverage

Data Location
Ryuge Station (68.0S, 78.8E)
Observation Period / Temporal Coverage: 2012-05-01 - present
Data Period: 2012-05-01 - present

Data Variable
Data Name: Ground based radar wind observation of the mesosphere and stratosphere by PANSY
Data Period: NET-CDF
Data Recording / Acquisition Sampling: Continuous observation
Observation Instruments: METOS Radar, 4740S, 5280W, Doppler Beam Bending

Publication method
DOI: 10.17592/002.2020070384

Data Policy
If you acquire PANSY radar data, we ask that you acknowledge us of your use of the data. This can be done by including our name as PANSY radar data provider in PANSY Report (PANSY Report form is available on www.nipr.go.jp). We would also appreciate it if you would send us a copy of each observation. As a reference of PANSY radar we kindly request you to refer to the following paper: Sato, K. et al., Program of the Antarctic System Survey METOS Radar (PANSY) (2014), J. Atmos. Solar-Terrest. Phys., 118, Part A, 1-15, doi:10.1016/j.jastp.2013.08.012

Data Center
Polar Environment Data Science Center: NIES-GS (Inq:Inq@nies.ac.jp)
Contact Person: Isobe, Toshiyuki
E-mail: isobe@nies.ac.jp
National Organization: Kyoto University
Joint Research Center for Data Science Research (JDCS-DR)

Scientific Results / Publications
Sato, K., M. Tomita, M. T. Sato, T. Nakamura, A. Sato, T. Tomikawa, K. Hironaka, H. Kohno, H. Yamaguchi, and T. Yamamoto, "Program of the Antarctic System Survey METOS Radar (PANSY)", J. Atmos. Solar-Terrest. Phys., 118A, 1-15, 2014.
Acknowledgements: PANSY data were used where appropriate. We hereby acknowledge the National Institute of Polar Research.

Classification
Digital Object Identifier(DOI): 10.17592/002.2020070384
File Name: 4740S
Keyword: Radar
Creator: Kyo Hashizume
Publisher: National Institute of Polar Research
Issuance History:

昭和基地・大型大気レーダ(PANSY)のデータ

Data Publication

(DOI assignment to the data inside PEDSC metadata portal)

データ名称	DOI	Landing Page	付与年月
Near InfraRed Aurora and airglow Spectrograph (NIRAS) @ Syowa	10.17592/002.2021030390	http://scidbase.nipr.ac.jp/modules/metadata/index.php?content_id=390&ml_lang=en	2021年3月
Numerical substorm data	10.17592/002.2020100389	https://scidbase.nipr.ac.jp/modules/metadata/index.php?content_id=389&ml_lang=en	2020年10月
Program of the Antarctic Syowa Station MST/IS Radar (PANSY) ST Observations	10.17592/002.2020070383	https://scidbase.nipr.ac.jp/modules/metadata/index.php?content_id=383&ml_lang=en	2020年8月
Program of the Antarctic Syowa Station MST/IS Radar (PANSY) Mesosphere Observations	10.17592/002.2020070384	https://scidbase.nipr.ac.jp/modules/metadata/index.php?content_id=384&ml_lang=en	2020年8月

Polar Data Journal によるデータ出版 <https://pdr.repo.nii.ac.jp/>

Call For Paper

We are pleased to announce that the new data journal "Polar Data Journal" is now open for submissions. Polar Data Journal is a free-access, peer-reviewed and online journal. It is dedicated for publishing original research data/dataset, furthering the reuse of high-quality data and the benefit to polar sciences.

"Polar Data Journal" aims to cover broad range of research disciplines involving Arctic, Antarctic, or other polar regions, especially earth and life sciences. The Journal primarily publishes data papers, provides detailed descriptions of research data/dataset (e.g. Methods, Data Records, Technical validation). The Journal does not require any new scientific findings, so the Journal also welcomes submissions describing past valuable data/dataset which has not published yet.

Editorial Board welcomes your submission. Manuscript can be submitted by email in advance. If you want to submit manuscripts by email, please read submission guidelines and contact our editorial office.

Sincerely yours,

Editor in Chief (Akira Kadokura, NIPR)
Executive Editor (Masaki Kanao, NIPR)

**Launched at
January 2017**

Submit Your Paper

Menu

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 - For Reviewers
- ▶ Policies
 - Contact Information
 - History of Website

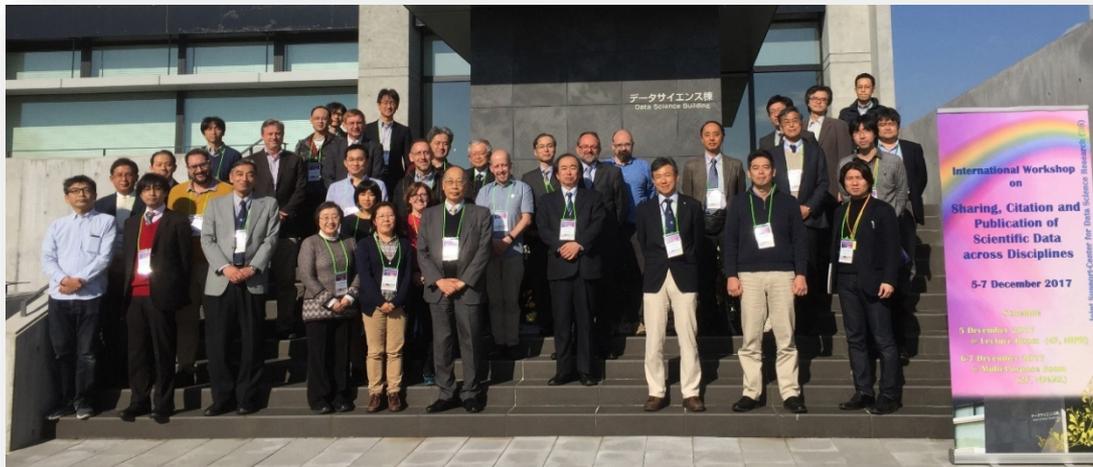
Announcement

**New Special Issue
Now calling for papers**

- 2017年1月19日創刊、極地研発行の英文データジャーナル
- 2021年1月31日時点： 投稿数27(掲載:20、出版待ち:2、査読中:4、不採択1)
PEDSCの貢献： 編集作業支援、関連実データの登録とDOI付与

◆大学共同利用機関法人情報・システム研究機構◆ データサイエンス共同利用基盤施設で 科学データに関わる国際ワークショップを開催

- 平成29年12月5日～7日、大学共同利用機関法人 情報・システム研究機構 データサイエンス共同利用基盤施設は、「**分野を超えた科学データの共有・引用・出版に関する国際ワークショップ**」を開催。
- 様々な所属と研究分野の研究者70名が参加。極域科学・地球惑星科学・生物学・人文学・社会学を含む**学際的視野**に立ち、科学データ全般を扱うオープンサイエンス・オープンデータの最近の動向について議論。
- 分野横断型研究への発展の可能性を含め、**データ共有(相互利用)・データ出版と引用・データジャーナル等**に関する情報交換を重点的に実施。
- 国際連携の枠組みをベースにした学際的データサイエンス推進・関連コミュニティとの連携強化を視野に、今後の同施設における共同利用・共同研究のための各種プラットフォーム構築の方向性・展望を検討。



藤井良一機構長、藤山秋佐夫施設長を囲んだオープニングの参加者



シンポジウム会場の様子