

Collaborative research program based on the allocation of PANSY radar observation time (Period: April 2023 to March 2024)

Summary

The PANSY radar at Syowa Station started continuous atmospheric observation in 2012 as the first and only large aperture MST/IS radar in the Antarctic, and its full system operation has been conducted since October 2015. In the Xth phase of Japanese Antarctic Research Expedition (JARE) (2023-2028), a part of the PANSY radar observation time is allocated to collaborative researches to further promote atmospheric studies. In this instruction we call for proposals from various atmospheric research fields in the world for the one year period from April 2023 to March 2024.

Purpose

This program deals with the allocation of the PANSY radar observation time. Any research projects based on archived PANSY radar data are not handled in this program, but will be under a different frame (<https://pansy-data.nipr.ac.jp/> since April 2023).

Observation modes / allocation time

This program mainly deals with established observation modes such as Mesosphere/Stratosphere/Troposphere (MST) mode, ionosphere electron density mode, and frequency domain interferometry mode.

Because the main target of PANSY radar operation is the study of atmospheric phenomena in a wide frequency range, the radar has most continuously been operated under the routine MST mode to create a long-term data base with only limited number of data gaps. Thus the time allocation for collaborative studies is supposed to be shorter than 5 days a month.

If you are interested in observation modes other than the above mentioned ones, please consult the PANSY support group (pansykyodo@nipr.ac.jp) when submitting your application.

Please note also that the users of any collaborative research projects are not supposed to directly access the radar system through internet, because the radar is located and maintained in an isolated place by only a limited number of personnel.

Eligible applicants

The principal investigator of the proposal must be a full-time research staff member of a Japanese or foreign research institution for the purpose of academic research, or a JSPS Postdoctoral Fellow

(excluding DCs).

Review process

The submitted proposal is first peer-reviewed, and then discussed by the steering committee of the PANSY radar collaborative research. The decision will be informed to the applicants in the latter half of March 2023.

Submission

Please fill out the application form, then send it to pansykyodo@nipr.ac.jp.

(https://www.arcc.nipr.ac.jp/wp-content/uploads/2023/01/PANSY_application2023_form_en.docx)

If you do not receive a confirmation message within three days after the submission, please contact us again.

Deadline January 31, 2023

Reports

The applicants of accepted research projects are invited to report science outcomes in the PANSY radar science workshop held every year, and requested to submit a short report.

When presenting results obtained through this program in research papers, please inform the PANSY support group (pansykyodo@nipr.ac.jp). Co-authorship may be requested depending on the contribution made by staff members of Advanced Radar Research Promotion Center.

Notes

The number of applications from the same principal investigator is limited to one.

This call for proposals is not intended to accept applications for participation in JARE nor for research funding.

Links

PANSY radar collaborative research program

(<https://www.arcc.nipr.ac.jp/index.php/2023/01/18/pansy2023en/>)

Project of the Antarctic Syowa MST/IS Radar (PANSY) (<https://pansy.eps.s.u-tokyo.ac.jp/en/>)

Advanced Radar Research Promotion Center (<https://www.arcc.nipr.ac.jp/>)

PANSY data archive HP (to be opened in April 2023 <https://pansy-data.nipr.ac.jp/>)

Japanese Antarctic Research Expedition (<https://www.nipr.ac.jp/english/antarctic/index.html>)

Contact

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PANSY Support Group, Advanced Radar Research Promotion Center (ARRC)