

Data Paper

Kunio T. Takahashi, Ryosuke Makabe, Keigo D. Takahashi and Tsuneo Odate (Deceased). Marine ecosystem monitoring in the sea-ice region of Lützow-Holm Bay, off Syowa Station, during the icebreaker *Shirase* cruise of the 61st Japanese Antarctic Research Expedition. *Polar Data Journal*. 2026, 10, p. 1–13. <https://doi.org/10.20575/00000064>. (Received 8/5/2025; Accepted 12/18/2025)

1st submission

Editor Start Date: 8/6/2025

Editor Stop Date: 11/20/2025

Reviewer #1: (9/24/2025–11/17/2025)

Reviewer #3: (11/18/2025–11/18/2025)

Reviewer #1: Anonymous

Overall, the manuscript is written based on the well-reviewed and established format used in the observation reports from JARE-58, and therefore there are no major issues that would prevent publication.

I recommend publication after addressing the following very minor points.

L54:

From this sentence, readers cannot infer "various sea ice environments" citing table1 and figure1. If such observations were conducted, please include the visually observed sea-ice concentration and sea-ice types in Table 1, or alternatively, provide photographs.

L63–65:

The description regarding the construction of the fence has already been given earlier. Repeating the same wording as in previous reports is unnecessary.

L72:

Should this be "prior to the observation"?

L79–81:

Please provide information on the diameters of the filters.

L102:

Since calibration information for the other instruments is provided, calibration details for the flow meter should also be included.

Reviewer #3: Anonymous

Authors compiled valuable data regarding planktons and so on from JARE campaign. This report is almost ready for publication in this journal.

Before accept of this manuscript, I would like ask authors to revise expressions of equations in Table 2. They includes unit, uses mathematical symbols for computer, such as ^ and *, and there is no base and space between log and variables.

Authors should correctly describe the equations even if spaces of the table.

Authors Response:

Thank you very much for your e-mail concerning our manuscript together with the comments from the two reviewers. We found several important points to be improved before acceptance on this Journal. We have made some minor changes (in red), according to referee's comments.

Response to reviewer #1:

Overall, the manuscript is written based on the well-reviewed and established format used in the observation reports from JARE-58, and therefore there are no major issues that would prevent publication.

I recommend publication after addressing the following very minor points.

L54:

From this sentence, readers cannot infer "various sea ice environments" citing table1 and figure1. If such observations were conducted, please include the visually observed sea-ice concentration and sea-ice types in Table 1, or alternatively, provide photographs.

A: We agree and have added information about ice conditions to Table 1.

L63–65:

The description regarding the construction of the fence has already been given earlier. Repeating the same wording as in previous reports is unnecessary.

A: We agree and have deleted lines 63–65 as you pointed out.

L72:

Should this be "prior to the observation"?

A: We agree and have changed "the last boreal summer" to "prior to the observation" for clarify (Line 69).

L79–81:

Please provide information on the diameters of the filters.

A: We agree and have added the diameters of each filter (Lines 76–78).

L102:

Since calibration information for the other instruments is provided, calibration details for the flow meter should also be included.

A: We agree and have added the following sentence (Lines 100–102);

“The volume of water filtered (V m³) was calculated by multiplying the number of revolutions of the flowmeter (t) by the volume of water filtered per one revolution of the flowmeter in the calibration ($v = 0.01459$ m³).”

Response to reviewer #3:

Authors compiled valuable data regarding planktons and so on from JARE campaign. This report is almost ready for publication in this journal.

Before accept of this manuscript, I would like ask authors to revise expressions of equations in Table 2. They includes unit, uses mathematical symbols for computer, such as ^ and *, and there is no base and space between log and variables.

Authors should correctly describe the equations even if spaces of the table.

A: We agree and have revised table 2 and corrected all errors in spacing, symbols, etc.

We hope that our revisions will improve the manuscript to your agreement.

2nd submission

Editor Start Date: 12/17/2025

Editor Stop Date: 12/18/2025

Editorial Office's note

Calculate checksum date: 12/19/2025

Algorithm: SHA256

Hash link: <http://id.nii.ac.jp/1434/00000064> > hash list