

Data Paper

Kunio T. Takahashi, Ryosuke Makabe, Shintaro Takao, 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 58th Japanese Antarctic Research Expedition. *Polar Data Journal*. 2024, 8, p. 23–33. <https://doi.org/10.20575/00000053>.

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1st submission

Editor Start Date: 2/7/2024

Editor Stop Date: 3/16/2024

Reviewer #1 (2/8/2024–2/14/2024)

Reviewer #2 (2/19/2024–3/15/2024)

Reviewer #1: Anonymous

This report has been routinely published for each JARE cruise. Therefore, no more major revisions are required.

I have only very minor comment:

1. Several technical terms are connected with a hyphen, such as macro-nutrient, fast-ice, pack-ice, sea-ice, multi-year.  
I'm not sure that all such words need a hyphen.
2. Regarding '4. Data Records', it is better to show format of 'DATE'. e.g. DD/MM/YY

Reviewer #2: Anonymous

In this manuscript, the authors provide a dataset of water temperature, salinity, chlorophyll-a concentration, macronutrients (nitrate, nitrite, phosphate, and silicate), and zooplankton data collected at six stations in the sea-ice region of Lützow-Holm Bay, off Syowa Station during the icebreaker *Shirase* JARE-58 cruise. The manuscript is well written, and the dataset is appropriately provided. I recommend accepting the manuscript for publication in *Polar Data Journal* after a few minor revisions, as listed below.

3.3. Chlorophyll a

Line 3: Change "300mL" to "300 mL"

Line 5: Please provide the product name and supplier of the membrane filter (pore size: 10 and 2  $\mu\text{m}$ ).

4. Data Records

Line 1: Change "Salinity" to "salinity"

5-2. Wet weight measurement

Line 7: How did you split samples into 1/2 to 1/32 aliquots?

Line 7: Change "<10mm" to "<10 mm"

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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:

This report has been routinely published for each JARE cruise. Therefore, no more major revisions are required.

I have only very minor comment:

1. Several technical terms are connected with a hyphen, such as macro-nutrient, fast-ice, pack-ice, sea-ice, multi-year.

I'm not sure that all such words need a hyphen.

A: Several technical terms with a hyphen in this text are commonly used in scientific papers, and they have already been used in this Journal (e.g. Makabe et al. (2020), Shimada et al. (2020)).

2. Regarding '4. Data Records', it is better to show format of 'DATE'. e.g. DD/MM/YY

Line 116: added the "(DD/MM/YYYY)" after "the sampling date".

Response to reviewer #2:

In this manuscript, the authors provide a dataset of water temperature, salinity, chlorophyll-a concentration, macronutrients (nitrate, nitrite, phosphate, and silicate), and zooplankton data collected at six stations in the sea-ice region of Lützow-Holm Bay, off Syowa Station during the icebreaker Shirase JARE-58 cruise. The manuscript is well written, and the dataset is appropriately provided. I recommend accepting the manuscript for publication in Polar Data Journal after a few minor revisions, as listed below.

3.3. Chlorophyll a

Line 3: Change "300mL" to "300 mL"

Line 75: change "300mL" to "300 mL".

Line 5: Please provide the product name and supplier of the membrane filter (pore size: 10 and 2  $\mu\text{m}$ ).

Line 77: added the "Whatman nuclepore" before "membrane filter (pore size: 10 and 2  $\mu\text{m}$ )".

4. Data Records

Line 1: Change "Salinity" to "salinity"

Line 103: change "Salinity" to "salinity".

5-2. Wet weight measurement

Line 7: How did you split samples into 1/2 to 1/32 aliquots?

Line 178: added the following sentence for clarify this pointed out.

"We used a Motoda box-type plankton sample splitter to subdivide a sample."

Line 7: Change "<10mm" to "<10 mm"

Line 176: change "<10mm" to "<10 mm".

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

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2nd submission

Editor Start Date: 4/1/2024

Editor Stop Date: 4/1/2024

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Editorial Office's note

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