Sea Ice Outlook
2018 June Report
Individual Outlook

Name of contributor or name of contributing organization:

Sanwa elementary school

Is this contribution from a person or group not affiliated with a research organization?

Yes

Name and organization for all contributors. Indicate primary contact and total number of people who may have contributed to your Outlook, even if not included on the author list.

Name and organization for all contributors. is Arata Iihoshi,Toki Umayahara,Yuya Omoto,Syu Kawakami,Seigo Kawamoto,Taisei Kobayashi,Shinsuke Sadakiyo,Yuto Takeue,Yuta Nawa,Kota Hachiken,Haruhiro Hayasaki,Kota Fukushima,Goki Mitsusue,Hiyori Monden,Kanon Ashida,Kokomi Kinoyama,Saho Takahashi,Yuki Date,Momoyo Doi,Rino Naraki,Nana Hinoue and Shion Ashida.
total number is 22.

Do you want your June contribution to automatically be included in subsequent reports? (If yes, you may still update your contribution via the submission form.)

Yes

What is the type of your Outlook projection?

Heuristic

Starting in 2017 we are accepting both pan-Arctic and pan-Antarctic sea ice extent (either one or both) of the September monthly mean. As in 2016, we are also collecting Alaskan regional sea ice extent. To be consistent with the validating sea ice extent index from NSIDC, if possible, please first compute the average sea ice concentration for the month and then compute the extent as the sum of cell areas > 15%.

a) Pan-Arctic September extent prediction in million square kilometers.

4.43

b) same as in (a) but for pan-Antarctic. If your method differs substantially from that for the Arctic, please enter it as a separate submission.

c) same as in (b) but for the Alaskan region. Please also tell us maximum possible extent if every ocean cell in your region were ice covered.

"Executive summary" of your Outlook contribution (using 300 words or less) describe how and why your contribution was formulated. To the extent possible, use non-technical language.

Monthly mean ice extent in September will be about 4.43 million square kilometers.
We estimated the minimum ice area through discussion among 21 students based on the ice map from 2004 to 2017.

Brief explanation of Outlook method (using 300 words or less).

We first estimated the total ice area for September of 2004, 2006, 2008,2010, 2012, 2014,2016 and 2017 from the ice concentration map, by approximating the ice cover with a triangle or trapezoid.
Based on this rough estimation, we discussed a yearly change of the ice area and calculated the ice area of this September.

Tell us the dataset used for your initial Sea Ice Concentration (SIC).

Include source (e.g., which data center), name (algorithm), DOI and/or data set website, and date (e.g., “NSIDC NASA Team, https://nsidc.org/data/nsidc-0081, https://doi.org/10.5067/U8C09DWVX9LM.”)

SIC is not used.

Tell us the dataset used for your initial Sea Ice Thickness (SIT) used. Include name and date.

SIT is not used.

If you use a dynamic model, please specify the name of the model as a whole and each component including version numbers and how the component is initialized:

If available from your method.
a) Uncertainty/probability estimates:

Median

Ranges

Standard Deviations

b) Brief explanation/assessment of basis for the uncertainty estimate (1-2 sentences).

c) Brief description of any post processing you have done (1-2 sentences).