

Board Game for a Changing Arctic

The fate is in your hands!

Learning Tool
on the Arctic Science

The Arctic

Miraikan
- The National Museum of
Emerging Science and Innovation, JAPAN



Length
approx.

45
minutes

Number of
Players

4~6

Suitable age

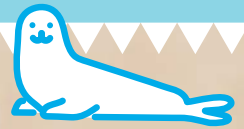
15+

(For High School
Students and Above)

Released in Aug. 2019



<https://www.arcs-pro.jp/en/>



Various fields of scientists have developed this board game in collaboration with the science museum.

Understand the Arctic: Changing Arctic and Scientific Research

"ArCS" is a Japanese national Arctic research project, hosted by National Institute of Polar Research (NiPR), Japan Agency for Marine-Earth Science and Technology (JAMSTEC), and Hokkaido University. The goals of the project are 1) better understand the current state of the Arctic from the perspective of humanity, social and natural sciences, and 2) disseminate their findings to the public.



Complexity in the Arctic Region

In recent decades, sea-ice extent in the Arctic Ocean has gone through a dramatic reduction. Ice sheets and glaciers are receding at unprecedented rates. Arctic permafrost is thawing fast, which makes the land more prone to erosions. These environmental changes have threatened the food security and living conditions of the residents in the Arctic regions. On the other hand, the sea-ice reduction has opened an opportunity for a new shipping route between Europe and Asia and enabled the extraction of oil and natural gas from places where it had never been accessible before.