# **2023 Polar Issue Report** Infographic Book English Version

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Publisher	Ministry of Oceans and Fisheries
PI	Hyunkyo SEO
Editor	Korea Polar Research Institute
	26 Songdomirae-ro, Yeonsu-gu, Incheon, Republic of Korea
	T. +82 32 770 8400 www.kopri.re.kr
Designer	I R U D A
	IRUDA Building, 46 Daeheung-ro, Jung-gu, Daejeon, Republic of Korea
	Office 505, Bando IvyValley, 204, Gasan digital 1-ro, Geumcheon-gu, Seoul, Republic of Korea
	T. +82 42 280 9800 www.iruda-planet.com
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A Tiny Step for Managing Giant Global Warming Monitoring the Polar Cryosphere with Micro-Satellites

Center of RS & GIS, Korea Polar Research Institute Dr. Hyun-Cheol Kim

New Arctic route connecting Asia and Europe Enhancing domestic support towards the Northern Sea Route

Research Fellow at the Northeast Asia's Logistics and Management Research Institute Prof. Choi, Su Beom





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10th Anniversary of Korea's Observership to the Arctic Council Achievements and prospects of Korea's Arctic activities

> Korean-Siberian Center of Pai Chai Univ. Prof. Kwak, Song Woong





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# A Tiny Step for Managing Giant Global Warming **Monitoring the Polar Cryosphere with**

Securing Independent Space Observation for Real-Time Polar Sea Ice Monitoring and Developing Satellite Information Utilization for Net-Zero Contribution in Response to Korean Peninsula's Warming



### **©** Final goal

## New Arctic route connecting Asia and Europe Enhancing domestic support towards the Northern Sea Route



### Advantages of the Northern Sea Routes Rapidly emerging as an international transport corridor

### 10th Anniversary of Korea's Observership to the Arctic Council **Achievements and prospects of Korea's Arctic activities**





In November 2021, the Ministry of Oceans and Fisheries of the **<sup>7</sup>2050 Arctic Activity Strategy** at the Cabinet meeting a national strategy to make Korea a leading country in Arctic governance by 2050





Strategy 2 Expansion of the horizons of Arctic diplomacv



Participation in sustainable development in the Arctic Region

### Lay the foundation for active activities in the Arctic



### Northeast Asia and the Arctic Korea, Japan and China act as observers of the Arctic Council

Korea

2013

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Observer Status of the Arctic

Council



- Japan Agency for Marine-Earth Science and Technology
- National Institute of Polar Research
- Hokkaido University
- Headquarters for Ocean Policy, etc.
- Establishing mega research program funds(ArCS II ) at the national level Increasing research infrastructures including the construction of new icebreaking research
- Establishing & Implementing Arctic policy in the Prime Minister level

- Chinese Advisory Committee for Polar Research
- State Oceanic Administration
- Chinese Academy of Sciences, etc.
- Leading large amount of R&D investmen research infrastructures, including operai two icebreaking research vessels Strengthening cooperation with Russia Increasing national interest in the Arctic





2013



2016

2013









Leading the way in solving climate and env

Creating a pluralisti

Top 5 Strategie

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nding exploration into unknowr as of the Arctic and the Antarctic

stablishing a foundation for polar industries that bute to the national

Strengthening polar activities hrough participation and