# Annual Update on Korean Arctic Research Program

For 2023 FARO Annual Meeting



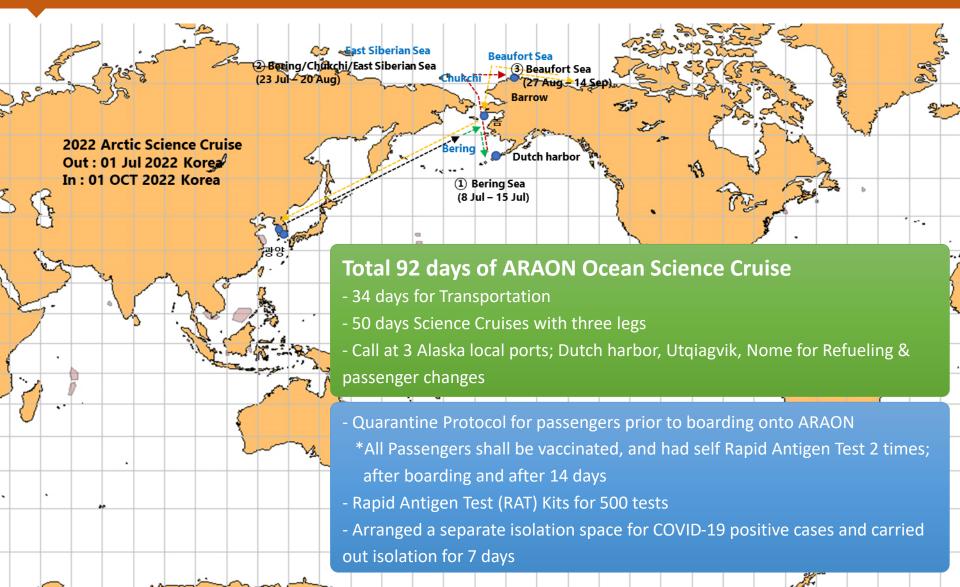


## Highlights on Korean Arctic Research Campaign in 2022

- The Korean Arctic Research campaign in 2022 was conducted in full swing amid the COVID-19 pandemic.
- All Arctic fieldwork participants were encouraged to get a COVID-19 vaccination prior to their fieldwork according to the Korean government's guidelines.
- Terrestrial-based Research Campaign in 2022: 13 research groups with 47 scientists at Arctic Dasan station from March to September (155 days)
- Arctic Ocean Science Cruise by IBRV ARAON: Supported 11 ocean science research projects with 109 participants in the area of Bering / Chukchi / East-Siberian/ Beaufort sea by three science Cruise legs from July to October (92 days)
- KOPRI officially joined Svalbard Integrated Arctic Earth Observing System (SIOS) program as a new member institution in April 2022.

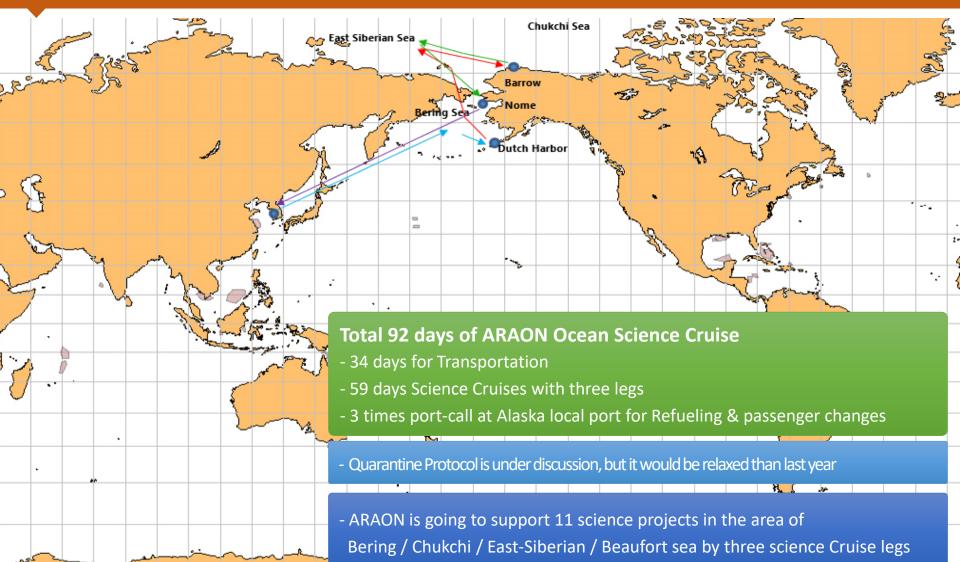


# 2022 Arctic Ocean Science Cruise by ARAON





#### **TENTATIVE 2023 Arctic Ocean Science Cruise by ARAON**



Amundsen Sea



#### Next Generation Icebreaking Research Vessel Building Project

#### At a Glance

- Since April 2022, KOPRI has been carrying out a Next Generation Icebreaking Research Vessel building project
- Project Period & Budget: 2022-2026 (5 Years) / Approx. USD 220 Million
- Draft Timeline
  - 2022-2023 Concept / Basic Design
  - 2024 Detailed design & Steel Cutting
  - 2025 Keel Laying & Launching
  - 2026 Sea Trial & Delivery
  - 2026.12 Commission





#### Next Generation Icebreaking Research Vessel Building Project





## Next Generation Icebreaking Research Vessel Building Project

# **Concept Specification**

	ARAON since 2009	Next Generation IBRV
Icebreaking Capability (Winterization)	1m / 3knots (-35°C)	1.5m / 3knots (–45°C)
Research Equipment	Fixed Research Equipment	Module-type Research Equipment (Multi-channel Seismic System, Giant Piston Corer, ROV and etc. )
Gross Tonnage	7,507tons	Abt. 15,450tons
Dimension (L x W x D)	111m x 19m x 9.9m	Abt. 138.6m x 25m x 13m
Operation Days Without supply	70 days	Over 75 days
Type of Fuels	MGO(Low Sulfur)	MGO(Low Sulfur) + LNG
Accommodation	85 pax. (including 26 crews)	100 pax. (including 34 crews)
Operation Area	Arctic & Antarctic ocean	Arctic ocean (Mainly)



# 2023 FARO Annual meeting Thank you