# Annual Update on Korean Arctic Research Program

For 2022 FARO Annual Meeting

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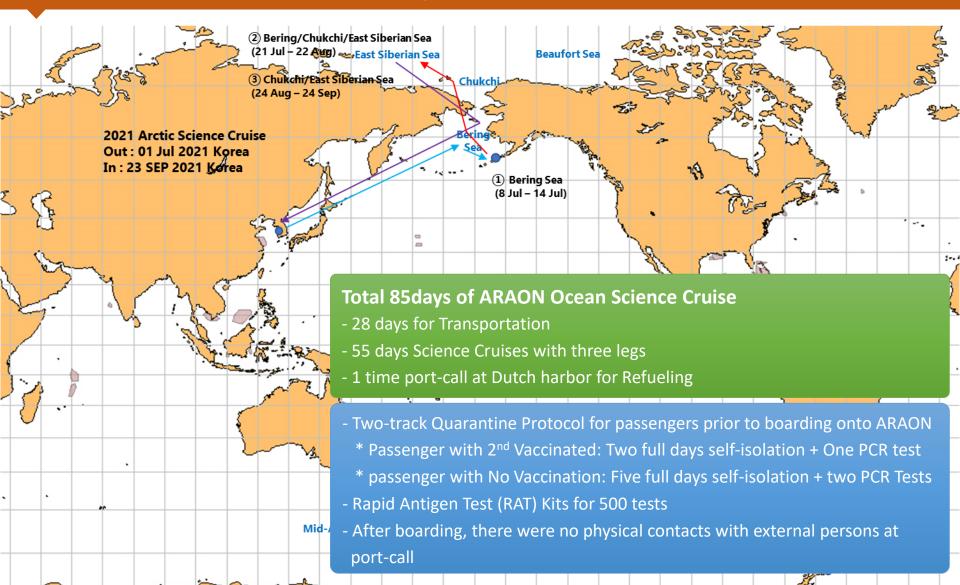


#### Overview on Korean Arctic Research Program 2021

- ◆ Korean Arctic Research campaign in 2021 were conducted with scaled-down and limitations amid COVID-19 pandemic situation.
- ◆ All Arctic fieldwork participants were encouraged to get COVID-19 vaccination campaign according to Korean government's guideline.
- ◆ Terrestrial-based Research Campaign
  - ❖ Four research groups with 14 scientists at Arctic Dasan station, Ny-Alseund in the second half of 2021
  - One research group with 14 international scientists at Kanggerlussuaq, Greenland for drone-based test flight campaign in September 2021
- ◆ Arctic Ocean Science Cruise by IBRV *ARAON* 
  - ARAON supported 10 ocean science research projects in the area of Bering / Chuckchi / East-Siberian sea by three science Cruise legs

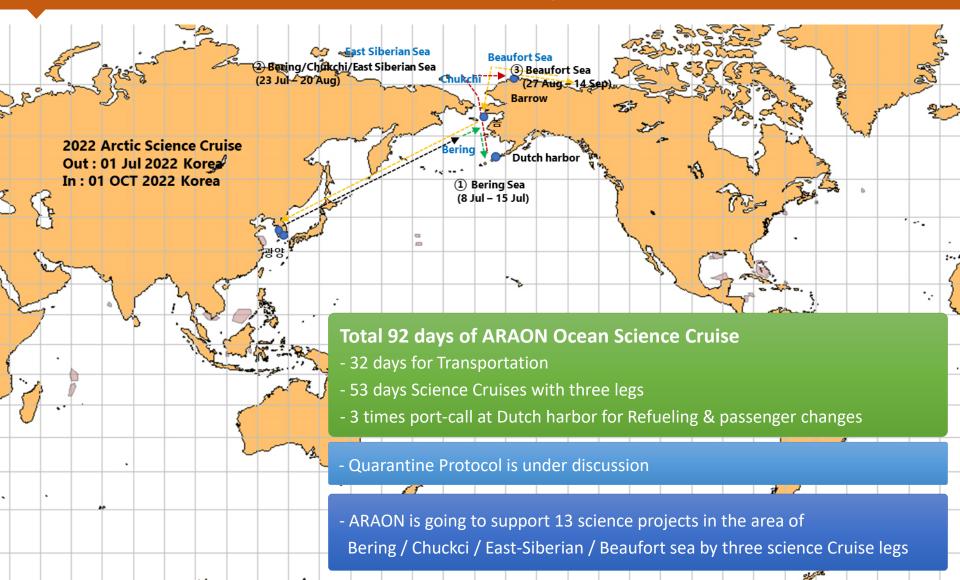


#### 2021 Arctic Ocean Science Cruise by ARAON





#### TENTATIVE 2022 Arctic Ocean Science Cruise by ARAON





#### Next Generation Icebreaker Project

#### At a Glance

- The final result of feasibility survey on Korea's Next Generation Icebreaker Building Projects gave a greenlight for this project in the mid of 2021.
- KOPRI set up a special unit for Next Generation IBRV project in August 2021.
- Project Period & Estimated Budget: 2022-2026 / Approx. USD 200 Million

Draft Timeline

2023 Concept Design

2023-2024 Basic Design

2024 Steel Cutting

2025 Keel Laying & Launching

2026 Sea Trial & Test Voyage

2026.12 Delivery & Commission





## Next Generation Icebreaker 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 (Moonpool, AUV, ROV, U-CTD and etc.)
Gross Tonnage	7,507tons	15,450tons
Dimension (L x W x D)	111m x 19m x 9.9m	138.6m x 25m x 13m
Operation Days with no Resupply	70days	75days
Fuels	MGO(Low Sulphur)	MGO(Low Sulphur) + LNG
Accommodation	85 pax. (including 26 crews)	100 pax (including 34 crews)
Operation Area	Arctic & Antarctic ocean	Arctic ocean (Mainly)



FARO Annual meeting 2022 / END/

# Thank you

