KOREAN RESEARCH ICEBREAKER

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TEL. 82-32-260-6000 FAX. 82-32-260-6039

INTRODUCTION

navigate ice covered polar regions with a powerful propulsion unit and strengthened body. ARAON becomes a milestone of Korea polar research history and for producing superior scientific results to benefit of human society.

MISSION

- Multidisciplinary scientific research in the Polar Regions
- ► Logistics to the stations in the Polar Regions
- ► Support for the construction of the Jang Bogo Antarctic Research Station

MAJOR RESEARCH ACTIVITIES

- ► How the polar ocean, atmosphere and geosphere have interacted with the rest of the earth to influence its development during its history.
- ► How the polar ocean affects biological production, and bio-geochemical cycles warrant focused research in sea-ice influenced areas.
- ► How under-exploited resources, in an environmentally safe manner, can be effectively explored and managed as an important aspect of research.

OPERATION PLAN

- ► October ~ April : Antarctic expedition
- ► May ~ June : Anchoring in Incheon(home port)
- ▶ July ~ August : Arctic cruise
- ► September : Anchoring in Incheon(home port)

FEATURE

ARAON Merchant vessel

SPECIFICATIONS

- Dimensions (m): 111 x 19 x 9.9 (Length x Width x Depth)
- ► Endurance : 20,000 Nautical Miles (70 days)
- ► Icebreaking performance : Continuous breaking of

■ MEANING OF ARAON

RESEARCH **EOUIPMENT**

- ► Oceanographic Research
- CTD w/Water Sampler, X-BT, Thermo Salinogragh, etc.
- ► Acoustic Research
- Muti-Beam Echo Sounder, ADCP, Acoustic Synchronizer, etc.
- ► Geophysical Research
- Muiltichannel Seismic System, SBP, PDR, Marine Gravity Meter, etc.
- ► Biological Research
- MOCNESS, RMT, Bongo Net, Sea Soar, etc.
- ► Observation & Monitoring
- Weather Station, Satellite Receiver, Underway Measurement System, etc.

