

Co-working of industry-government-academia on Arctic issues

- Footprints of Japan Arctic Research Network Center(J-ARC Net) -

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Japan Arctic Research Network Center(J-ARC Net)

Japan
Arctic
Research
Network
Center

J-ARC Net
北極域研究共同推進拠点



Supporting Arctic research communities

Table-1 Joint research for supporting research communities

	2016	2017	2018	2019	2020	2021
Joint research	11	17	11	19	12	20
participants	57	105	70	132	89	166
Research meeting	7	7	5	7	4	4
participants	89	73	41	88	51	76

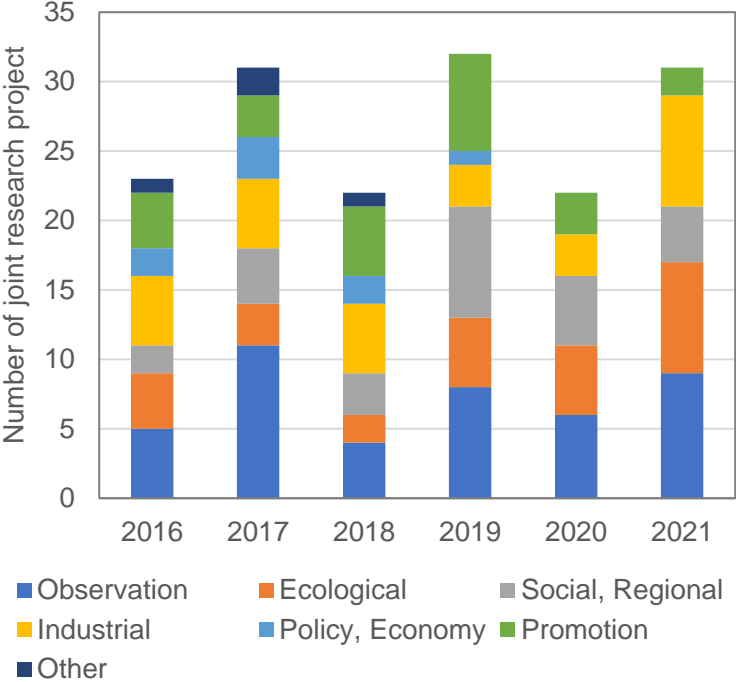


Fig.3 Joint research fields

Promoting industry- academia-government collaboration

Table-2 Industry- academia-government collaboration

	2016	2017	2018	2019	2020	2021
Joint feasibility study	3	4	4	3	3	4
participants	24	4	44	29	28	35
Joint feasibility study meeting	2	3	2	3	3	4
participants	18	26	17	28	31	63

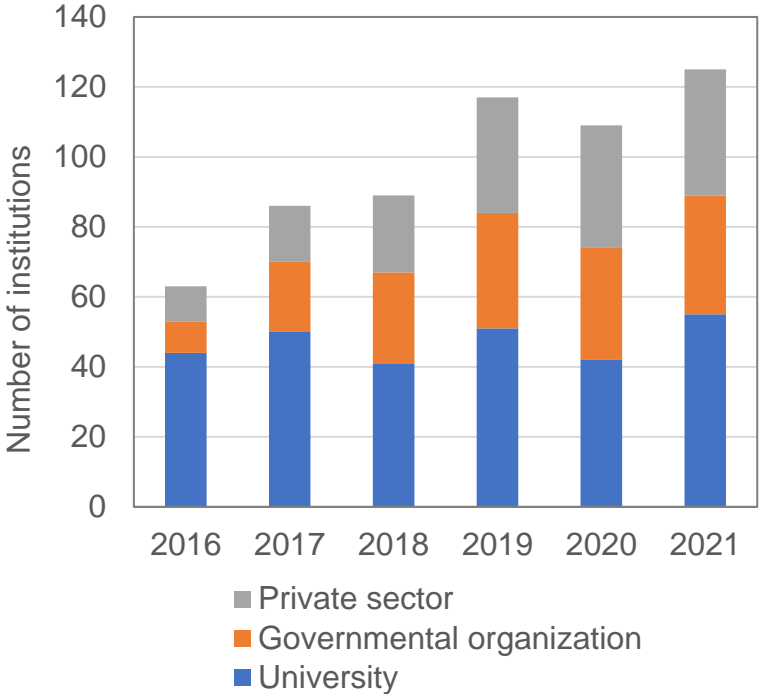


Fig.2 Collaboration of various institutions

Arctic Open Seminars

Table-3 List of Open Seminars

Year	Title
2016	the Arctic Sea Route and utilization of the Arctic
2017	Utilization of the Arctic Ocean
2017	Innovation and utilization of Arctic regions
2017	Law, Policy, International Relation, and Economics over the Arctic
2018	Latest Science, and Technology of the Arctic
2018	Feasibility and possibility of the Technology on Arctic Observation and Prediction
2019	Changing Arctic Environment and It's Effect to the Hokkaido Region
2019	Crude oil and Natural Development in the Arctic
2020	Sustainable Use of the Arctic Ocean as an East-West Corridor
2020	Optic Fiber Cable Across the Arctic Ocean, Japan-Finland Joint Seminar
2021	Changing Arctic Environment under Climate Change
2021	The development of sustainable cruise industry in the Pacific Arctic: Past developments and future prospects J-ARC Net & UArctic Joint Seminar

Open seminars had been promoted in order to share the latest information, knowledge and to expand network on the Arctic issues. Through the six years activities, 12 open seminars were carried out and more than 1,000 participants gathered.



Third Open Seminar "Innovation and utilization of Arctic regions" (2017)

12th Open Seminar

<https://youtu.be/ItGgtcOEjGE>



Capacity building and nurturing Arctic experts

“Introduction to Arctic studies” provided a series of lectures on natural science and social science and humanities by various Arctic researchers to industry and government experts, and university students. The lectures provided about 200 pages of textbook to the participants

By cooperation with The North Eastern Federal University(Yakutsk, Sakha Republic, Russia) and Far Eastern Federal University(Vladivostok, Russia), the winter school was conducted three times (2017, 2018, 2019) in Russia for 21 participants including students and business-peoples in Japan

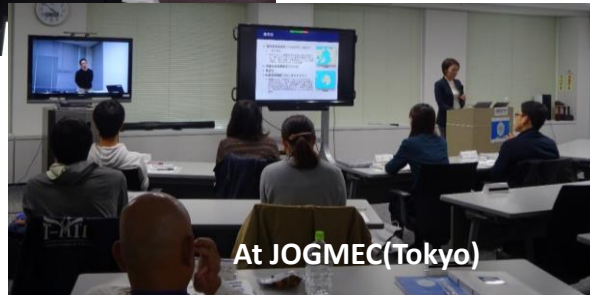


Fig. 5 Winter School in Yakutsk (2019)

Summary

- **Funding joint research activities and research meetings that aims at challenging Arctic problems through interdisciplinary collaboration, promoting exploratory research regarding the Arctic.**
- **Promoting industry-academia-government collaboration**
- **Capacity building and nurturing Arctic experts:**
 - Lecture course of Introduction to Arctic studies, winter schools, Arctic Introductory Lecture for Citizens,
 - Mailing list for 600 members,
 - Supporting International Symposium on Okhotsk Sea & Polar Oceans

During its funding period, over 1500 researchers from Japan and other countries have participated in J-ARC Net-supported collaborative studies. The Arctic open seminars have gathered over 1000 participants. We have managed to considerably expand the scope of the Arctic-related research and partnerships.

Acknowledgement

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