

# **Norway-Japan Arctic research and education cooperation: learning under globalization and power transition**

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# Japan Society for the Promotion of Science

## - and Asia experience

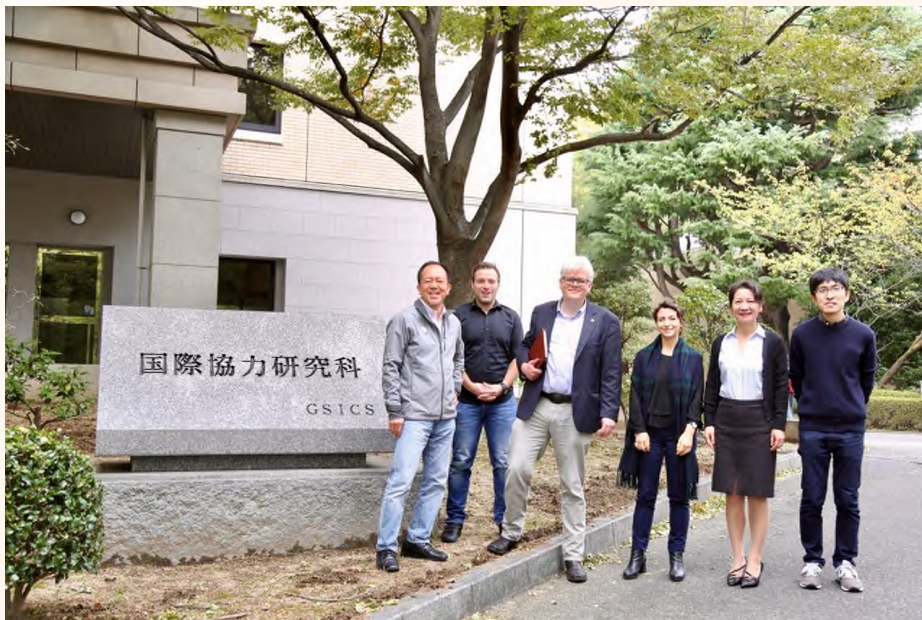
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- **2009-2011: JSPS postdoc, United Nations University-Institute of Advanced Studies/Tokyo Institute of Technology (Tokodai)**
- 2011-2013: Aalborg University-Confucius Institute postdoc on Sino-Danish knowledge relations (pharmaceutical and biotech industry)
- 2016: China-Nordic Arctic Research Center guest researcher, Shanghai, 60 days
- **2016: Japan-Norway Arctic Science and Innovation Week (two students)**
- 2016: Energy Studies Institute-National University of Singapore guest researcher (10 days)
- 2016: Deputy chair of steering committee, Norwegian Asian Studies Network (Asianettverket)
- 2017: Guest professor, Korea Arctic Academy, Korea Maritime Institute (10 days)
- **2017: JSPS invited fellow and guest professor, Polar Cooperation Research Center, Kobe University. Host: Professor Shibata Akiho**
- **2018-: Plans for JSPS Norway Alumni Club**

## Example of Norway-Japan Arctic research and education cooperation: learning under globalization and power transition

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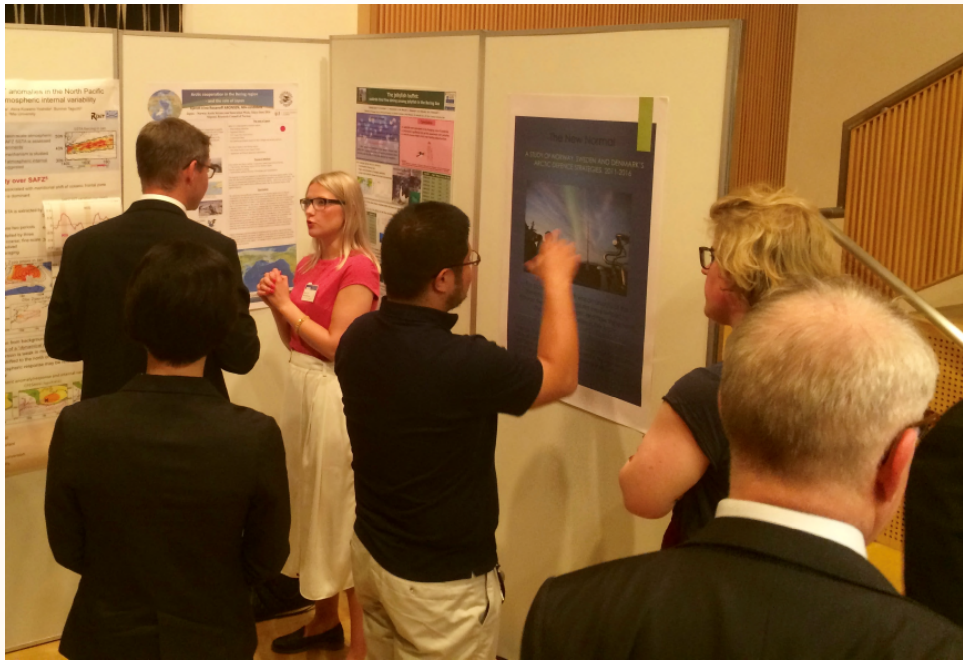
- JSPS invited fellow and guest professor, Polar Cooperation Research Center, Graduate School of International Cooperation Studies, Kobe University (20 October-18 December 2017):
- ***Transnational Knowledge Networks for Adaptive Global Arctic Shipping Governance***



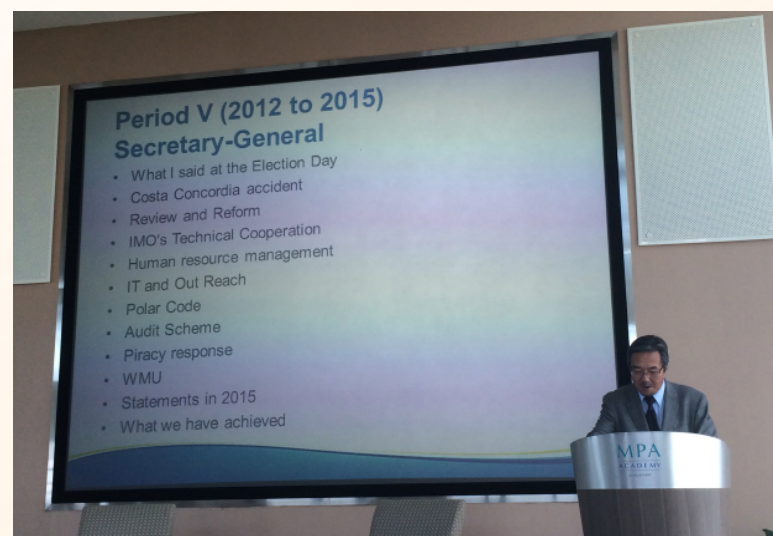


# Educational opportunities: Kjersti Aronsen, Oda Nyborg @ Japan Norway Arctic Science and Innovation Week, 2016

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# Inspiration: SEKIMIZU Koji on need for AC-IMO informal collaboration concerning Arctic Shipping, Singapore, 2016-08-23



Hei Rasmus,

An important question is still how this cooperation should look in practice, given that both institutions are not willing to be observers at each other meetings.

Piotr

Den 23. aug. 2016 kl. 10.09 skrev Bertelsen Rasmus Gjedssø <[rasmus.bertelsen@uit.no](mailto:rasmus.bertelsen@uit.no)>:

Piotr,

I am listening to a talk by Koji. He is emphasizing the need for AC-IMO informal collaboration on Arctic shipping.

Q&a in a moment

Can you send me an important question about AC, IMO?

Thanks

Rasmus

Sendt fra min iPhone

**Research question:** Transnational Knowledge Networks for Adaptive Global Arctic Shipping Governance?

**Policy question:** Role of universities as conveners on global Arctic shipping governance, UiT, Kobe University, National University of Singapore?

# Transnational Knowledge Networks for Adaptive Global Arctic Shipping Governance

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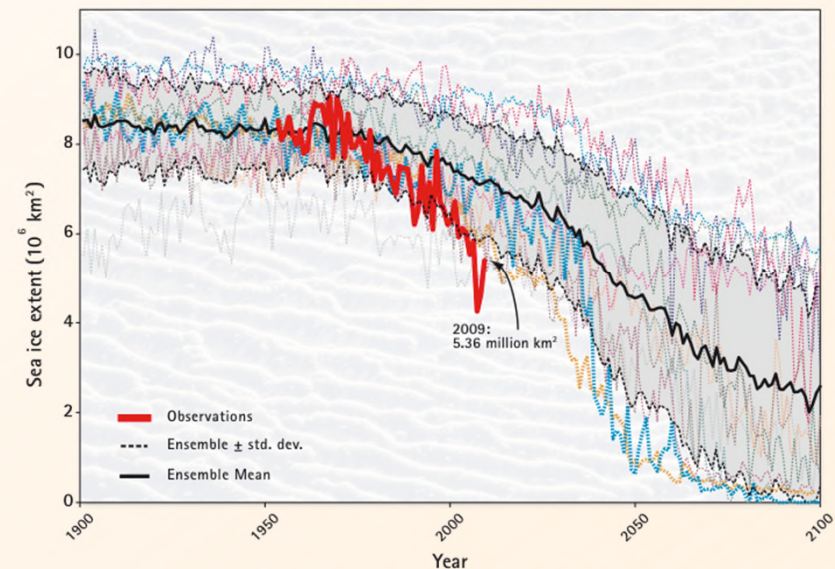
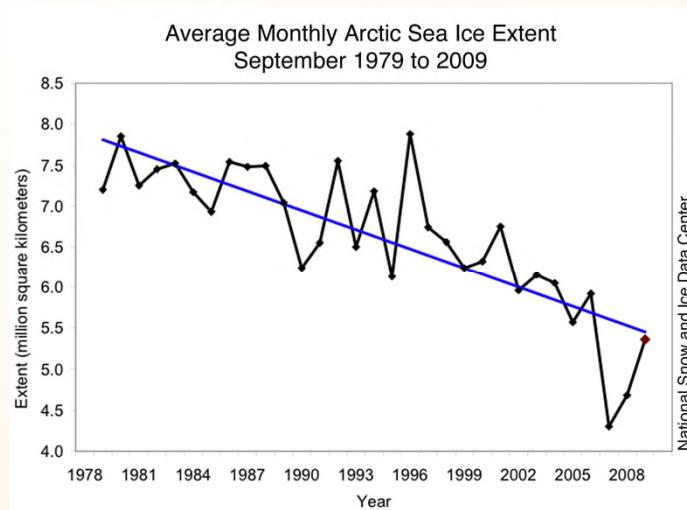
- What is global Arctic shipping governance **adapting** to?
- What are **transnational knowledge networks**, including **epistemic communities**?
- What is **global Arctic shipping governance**?
- What is the function of transnational knowledge networks and epistemic communities in global Arctic shipping governance?



# Global Arctic shipping governance **adapting** to what?

## Global environmental and social change

- Climate change

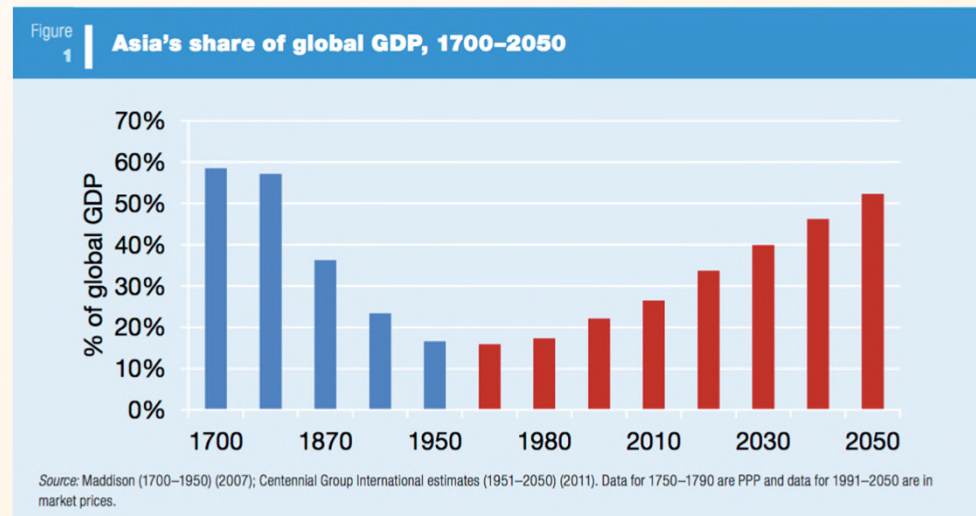
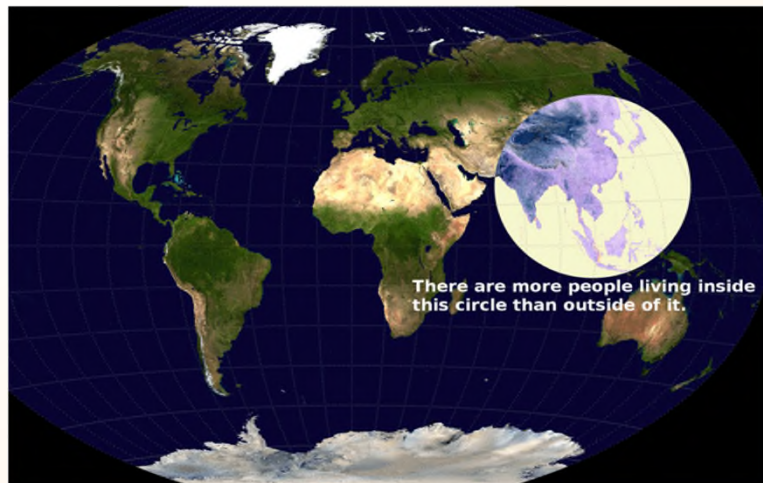


# Global Arctic shipping governance **adapting** to what?

## Global environmental and social change

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- Twin power transition from Western states to Eastern states and state to non-state actors (Nye 2011)





# Power transition and Arctic/shipping

	Western to Eastern states	State to non-state actors
Arctic	Asian AC observers, Asian Arctic research stations	Cold War state/military controlled -> “private” resource extraction
Shipping	Rise of Asian states in IMO Rise of Asian navies	Ship-building W->E Shipping W->E Ports W->E Shipping R&D W->E
Arctic Shipping	CNPC, Silk Road Fund, Cosco, INSROP, KMI, SG public diplomacy	Yamal LNG (shipping) Daewoo LNG tankers CN-AK: Sinopec, China Investment Corporation, Bank of China

# Transnational knowledge networks, including epistemic communities (Haas 1992; Adler & Haas 1992)

- “An epistemic community is a network of professionals with recognized expertise and competence in a particular domain and an authoritative claim to policy-relevant knowledge within that domain or issue-area.”
  - Shared set of normative and principled beliefs (value basis)
  - Shared causal beliefs, derived from analysis
  - Shared notion of validity
  - Common policy enterprise

## 18 International Organization

		Causal beliefs	
		Shared	Unshared
Principled beliefs	Shared	Epistemic communities	Interest groups and social movements
	Unshared	Disciplines and professions	Legislators, bureaucratic agencies, and bureaucratic coalitions

		Knowledge base	
		Consensual	Disputed or absent
Interests	Shared	Epistemic communities	Interest groups, social movements, and bureaucratic coalitions
	Unshared	Disciplines and professions	Legislators and bureaucratic agencies

FIGURE 1. Distinguishing epistemic communities from other groups

## Examples of global Arctic shipping (trans-) national knowledge networks or epistemic communities

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- Arctic Council-Protection of the Arctic Marine Environment (1991) (e.g. 2009 Arctic Marine Shipping Assessment (AMSA), Arctic Marine Strategic Plan (2015-2025))
- **International Northern Sea Route Program, 1993-1999 (Ship and Ocean Foundation [OPRI] & Nippon Foundation (JP), Central Marine Research and Design Institute (CNIIMF) (RU), Fridtjof Nansen Institute (NO)**
- Ocean Policy Research Institute (JP), 2010 study group
- National Graduate Institute for Policy Studies (JP), 2014-2015 study group
- Ocean Policy Research Institute/Nippon Foundation Arctic study group, 2016-
- Keppel-National University of Singapore Corporate Lab, 2013-
- Singapore International Maritime Centre 2030 Strategic Review, 2017
- Korea Maritime Institute, Korea Polar Research Institute, Korea Research Institute of Ships and Ocean Engineering, Daewoo Shipbuilding & Marine Engineering
- Chatham House-Lloyd's Risk Insight Report 2012: Arctic Opening: Opportunity and Risk in the High North
- The Arctic Institute: The Future of Arctic Shipping, 2012
- World Economic Forum – Global Agenda Council on the Arctic
- Arctic Economic Council – Marine Transportation working group, 2017-
- Russian Arctic maritime epistemic community?
- Chinese Arctic maritime epistemic community?



# What is global (Arctic shipping) governance?

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- Stokke (2012, 2011) four generic tasks of governance:
  - “**knowledge** about the severity of the problem addressed by the regime and the effects of various options for dealing with it.”
  - “elaboration of behavioral **norms**, whether soft-law instruments or binding rules.”
  - “multilateral institutions frequently provide means for facilitating the **implementation** of such norms if some participants would otherwise be unable to heed them, for instance through funding or specific capacity-building programs.”
  - “**rule enforcement**, is often a weak point in international governance, since structures for behavioral monitoring, compliance review, and response to rule violation may be weak or non-existent.”

## **Global Arctic Shipping Governance by epistemic communities: Complexity, uncertainty, interpretation, institutionalization (Haas 1992, Adler & Haas 1992)**

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- International policy coordination: "Where do expectations come from?"
- Complexity: problem of grasping interactive effects (environmental, social)
- Uncertainty: strong dependence on other's choices for obtaining goals, difficulty assessing different outcomes
- Interpretation: interpretation of social and physical phenomena, structure-agency, international system-state interest/policy
- Knowledge: Cause-effect, complexity, define (state) interests, formulate policies
- Institutionalization & socialization: social institutions guiding international behavior, a common epistemic framework guiding "rational" action and expectations
- Policy innovation – diffusion – selection – persistence

## Conclusion & discussion

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- Research question: Transnational knowledge networks for adaptive global Arctic shipping governance? [Does it solve the AC-IMO and related problems?]
- Policy question: Role of universities as conveners on global Arctic shipping governance, UiT, Kobe University, National University of Singapore, etc.,?

