Building Common Interests in the Arctic Ocean

Kobe University GSICS
Polar Cooperation Research Centre

Nation
State
~30%

National Interests

International
Space
~70%

Common Interests

Prof. Paul Arthur Berkman
Professor of Practice in Science Diplomacy
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&
International Institute for Applied Systems Analysis, Austria
Director, Arctic Futures Initiative
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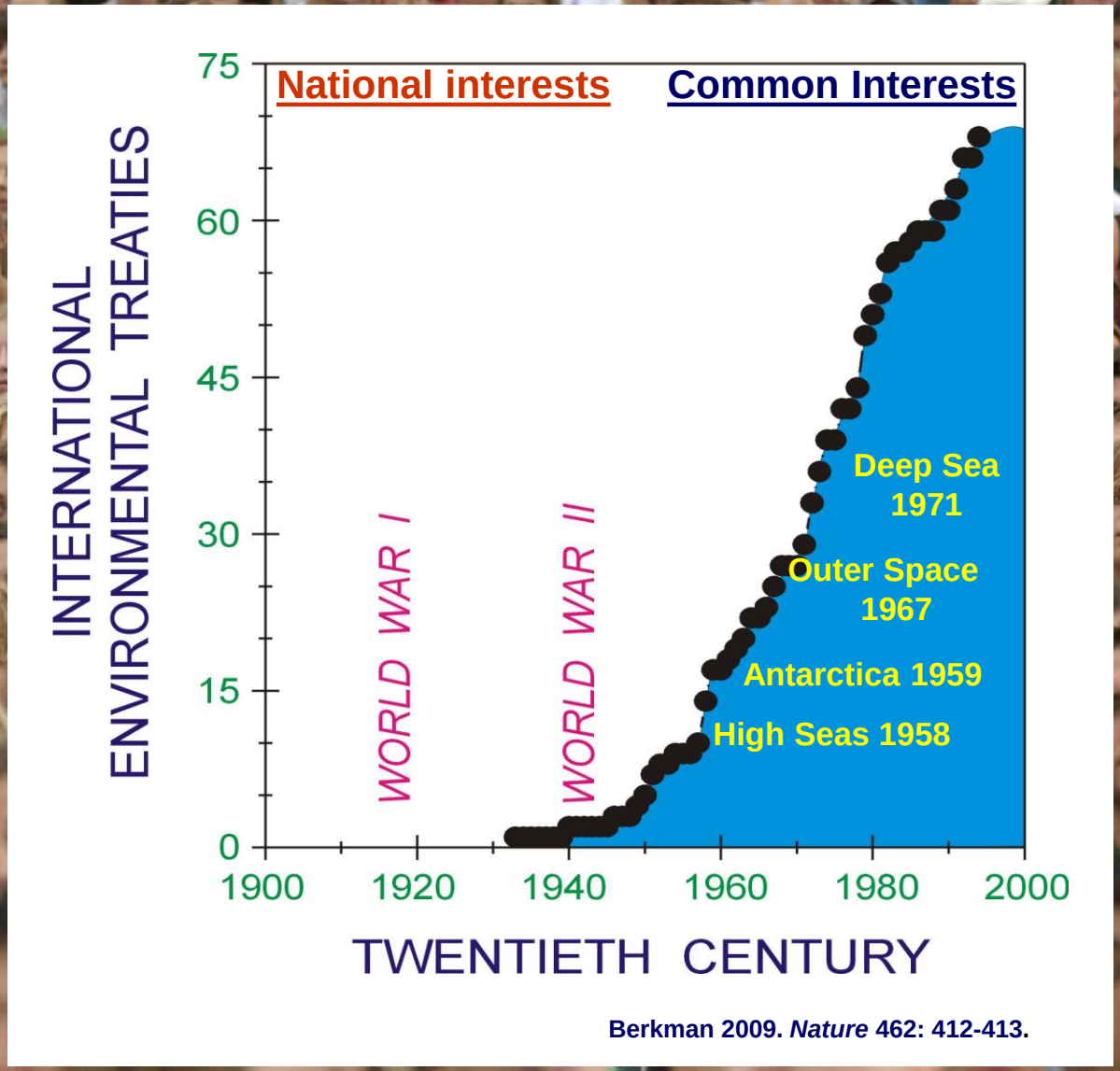
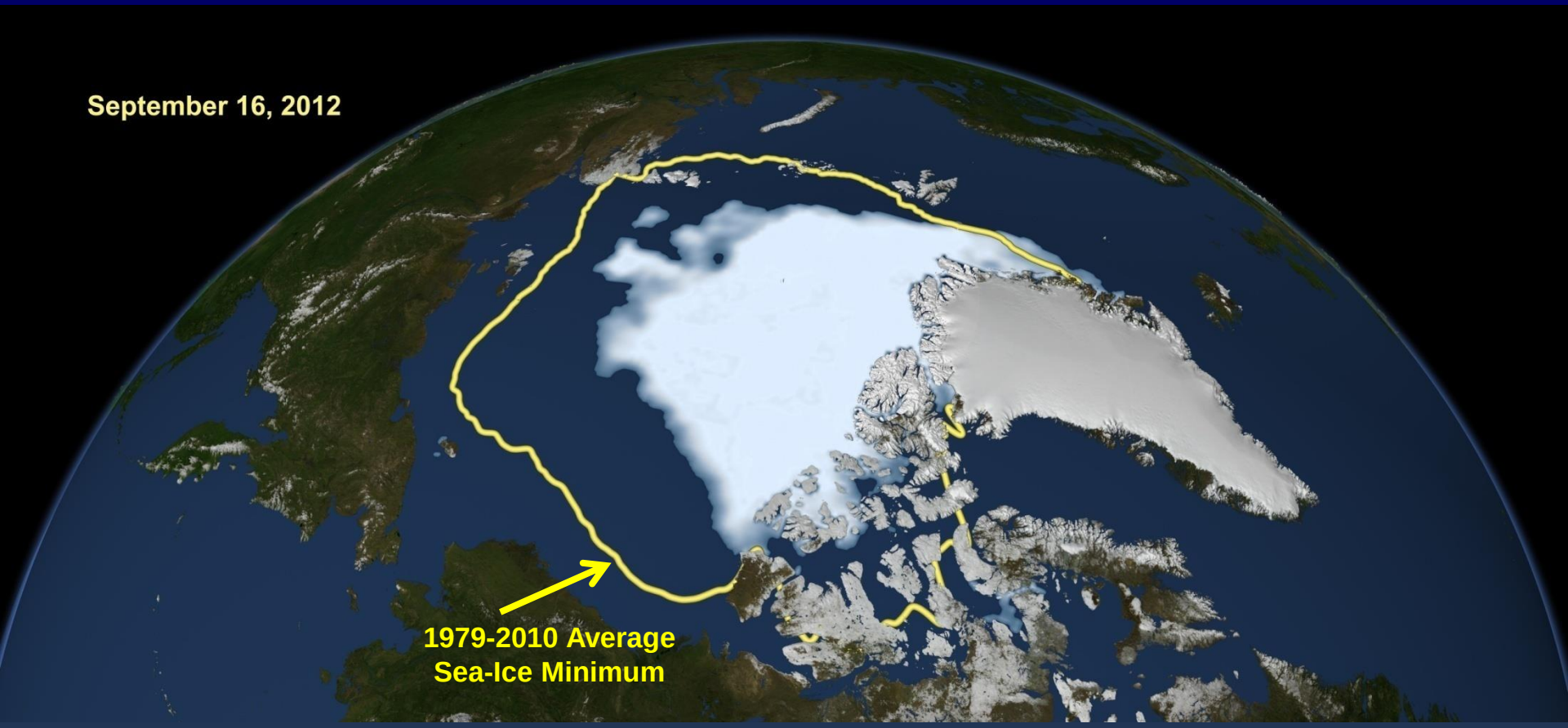
Global Responsibilities (impacts, issues and resources)



Berkman 2009. *Nature* 462: 412-413.

New Arctic Ocean



SURFACE BOUNDARY OF THE ARCTIC OCEAN HAS CHANGED

Persistent Sea-Ice Cap for Thousands of Years

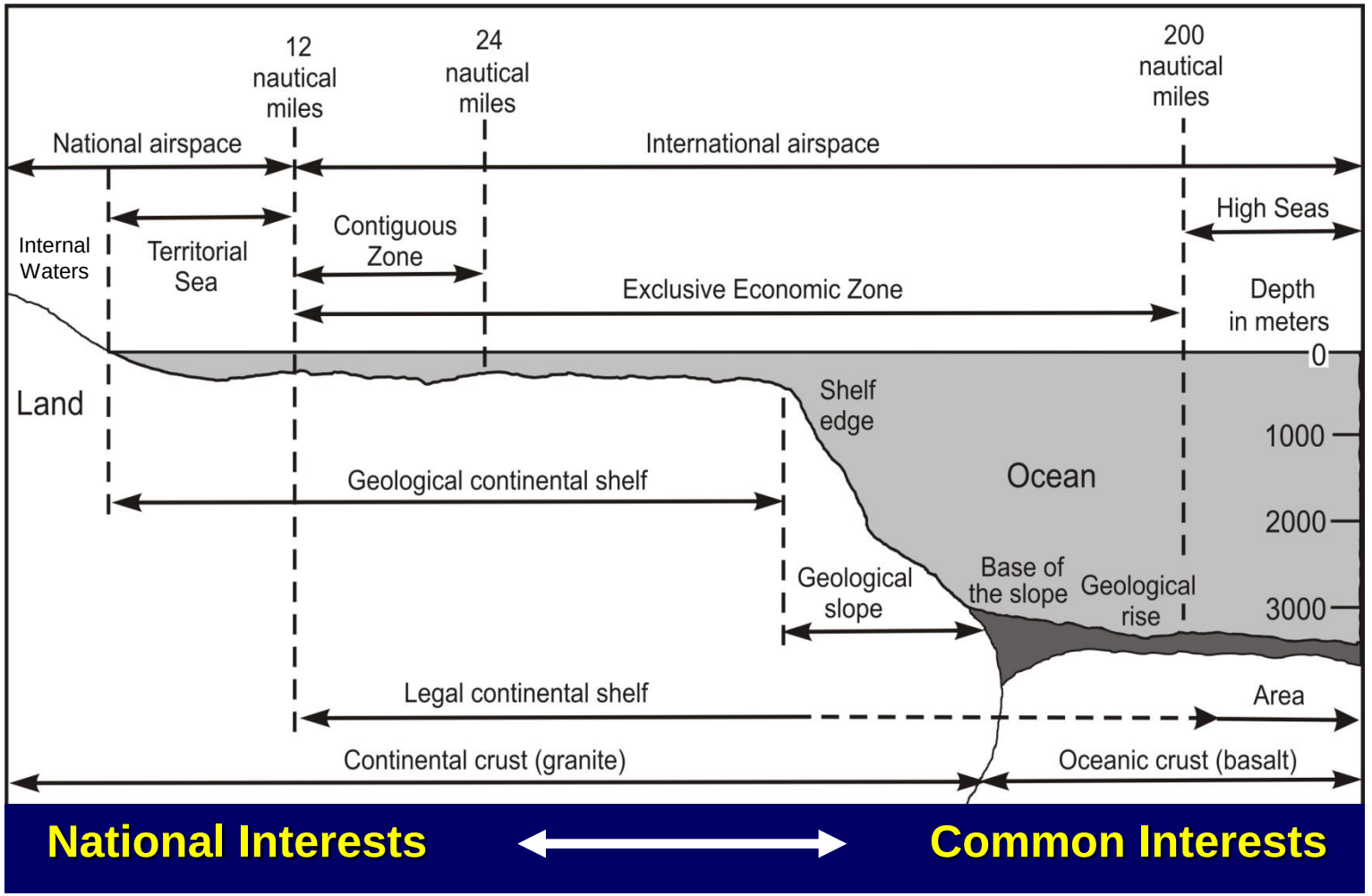
Now Seasonally Ice-Free Sea (Summer >50% Open Water)

Risks of Instabilities (Economic, Political, Social)

“…important rights and obligations…”

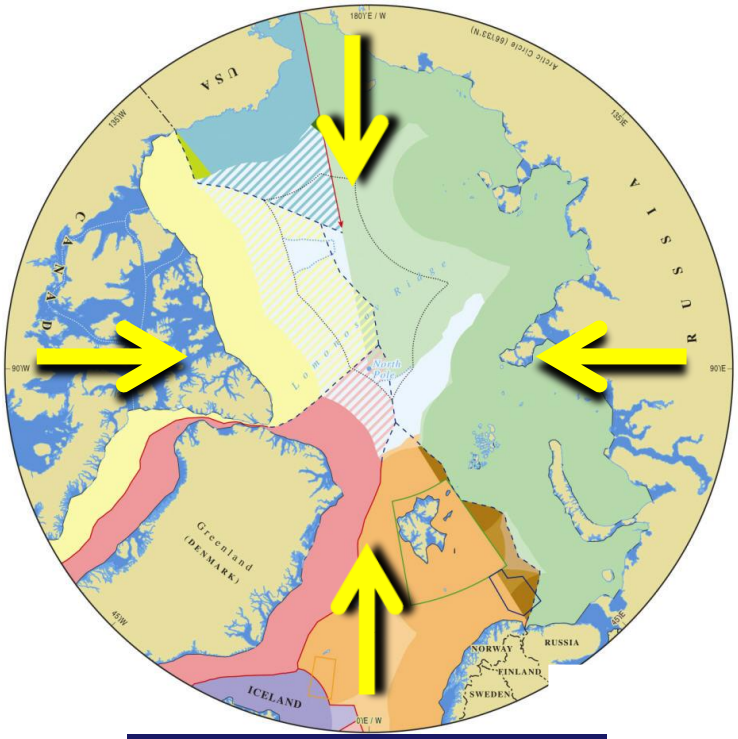
United Nations Convention on the Law of the Sea

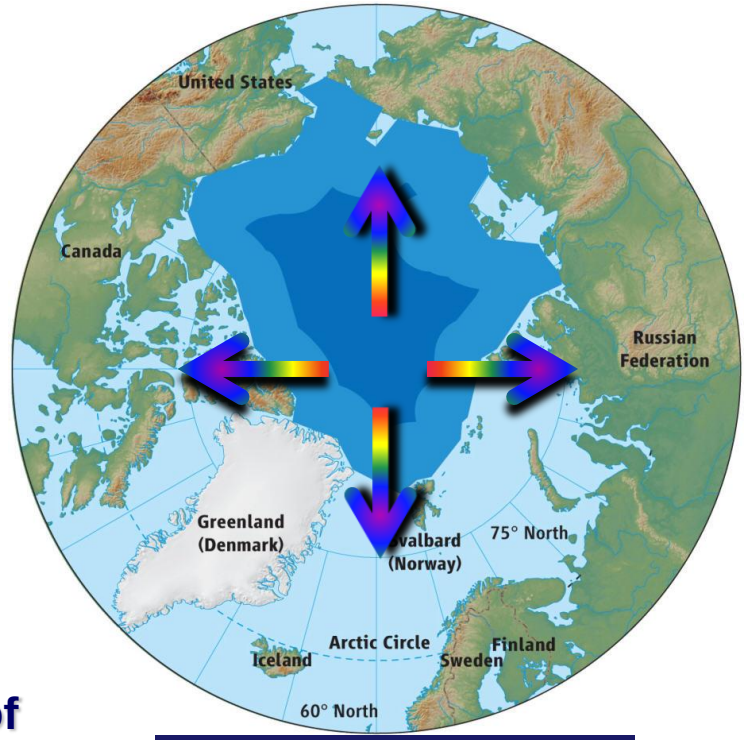
Signed: Montego Bay, Jamaica, 10 December 1982
Entered into Force: 16 November 1994
Ratification, Accession or Succession: 155+ Nations



Sustainability, Stability and Balance in the Arctic

Economic Prosperity, Environmental Protection, Societal Well-being
Urgencies of the Present and Needs of Future Generations
Promoting Cooperation and Preventing Conflict





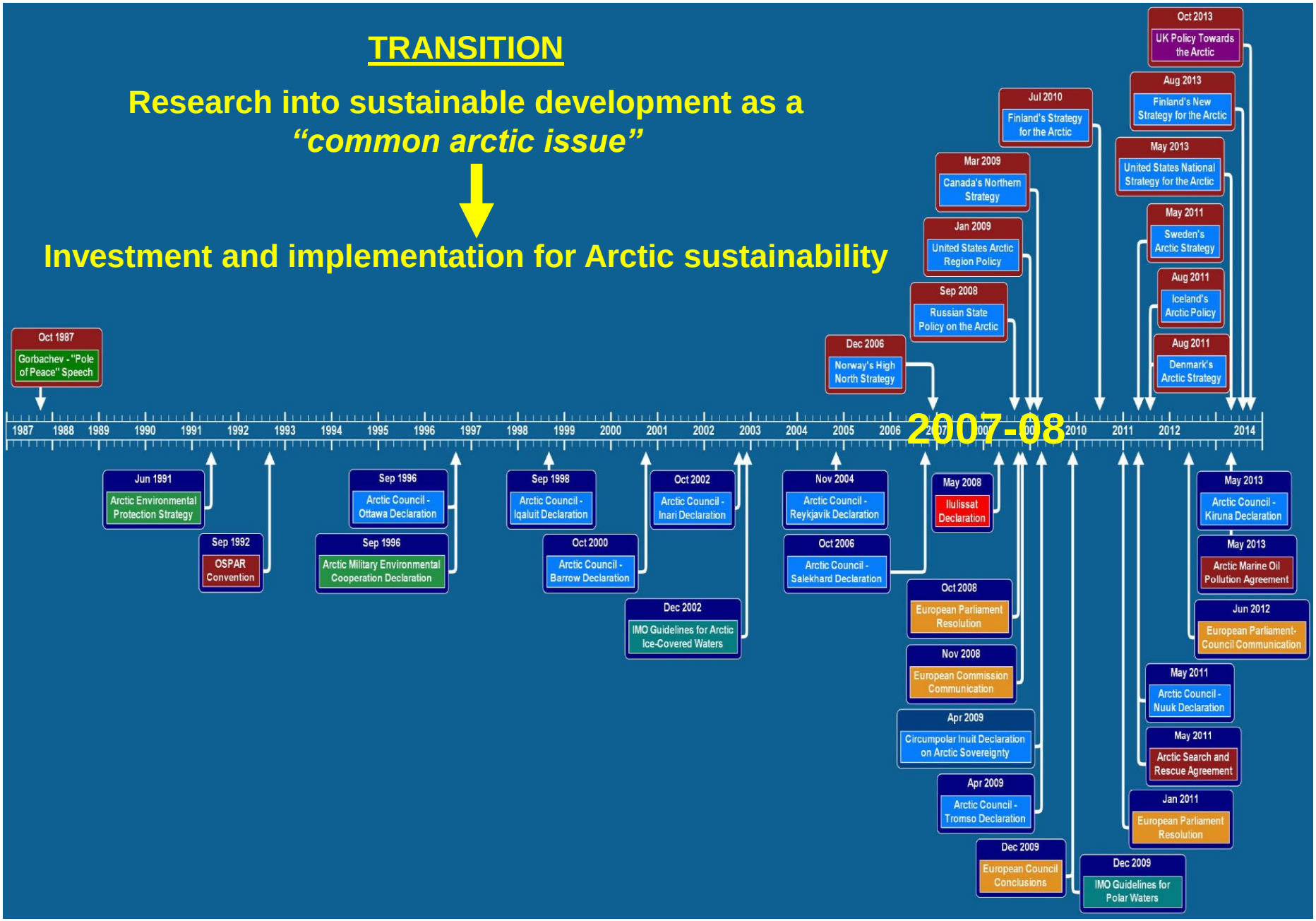
Sea Floor
National Interests

Center of Gravity

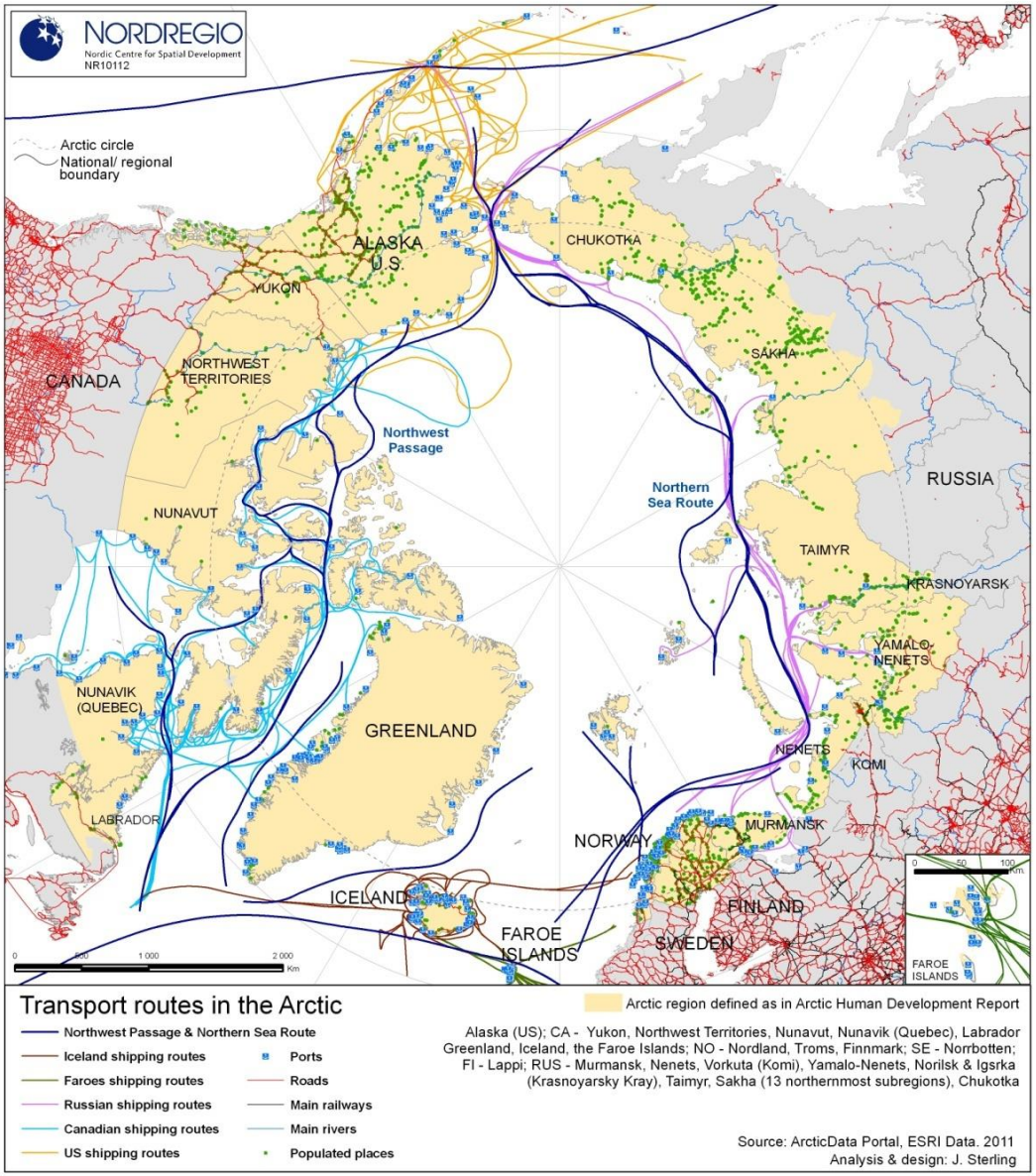
Water Column
Common Interests

Berkman and Young 2009. *Science* 324:339-340.

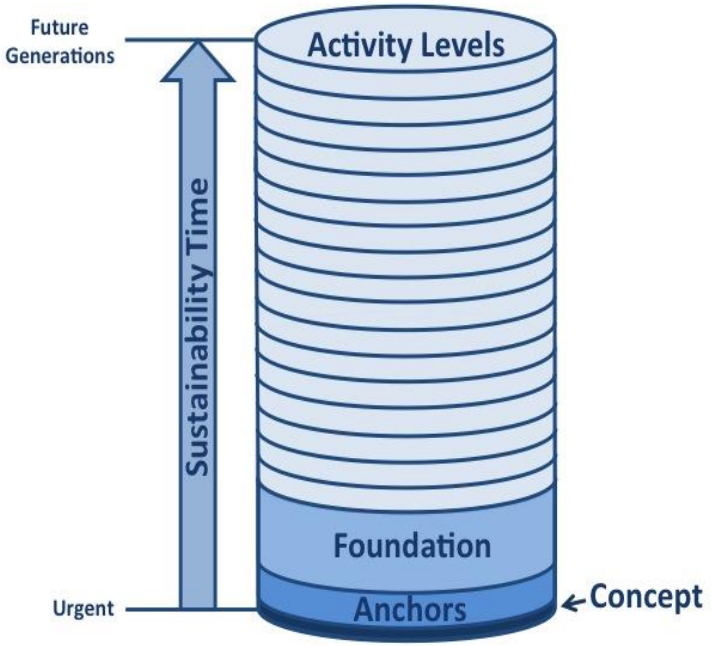
Sustainable Development Phases in the Arctic



Sustainable Infrastructure Development



Combination of fixed, mobile and other <u>built assets</u> (including communications, research, observing and information systems) PLUS regulatory, policy and other <u>governance mechanisms</u> (including insurance).



Pan-Arctic Sustainability Across Generations