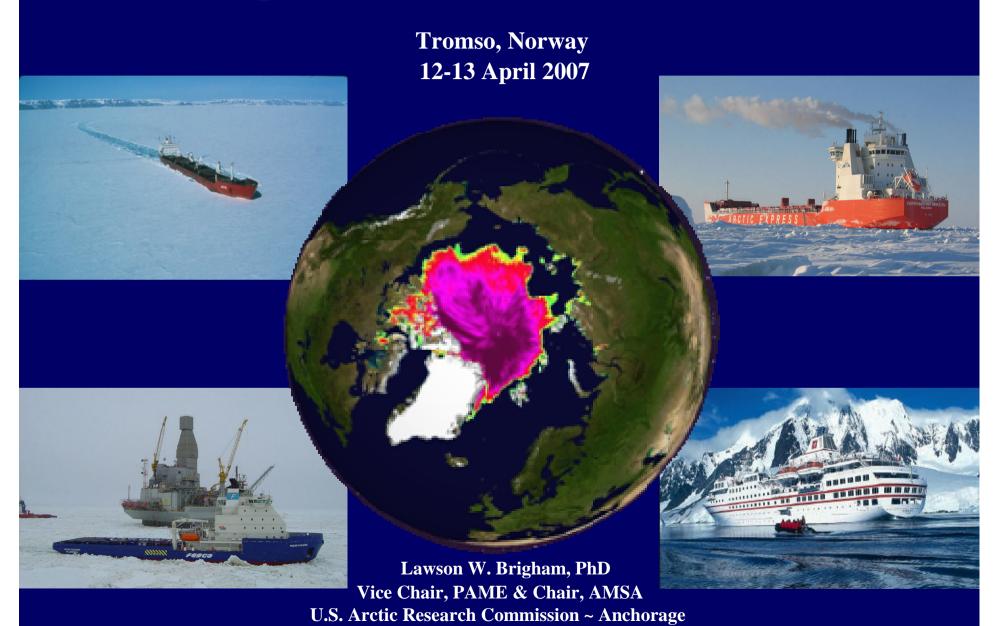
Arctic Marine Shipping Assessment (AMSA) Report to Senior Arctic Officials



Arctic Council Arctic Marine Shipping Assessment (AMSA)

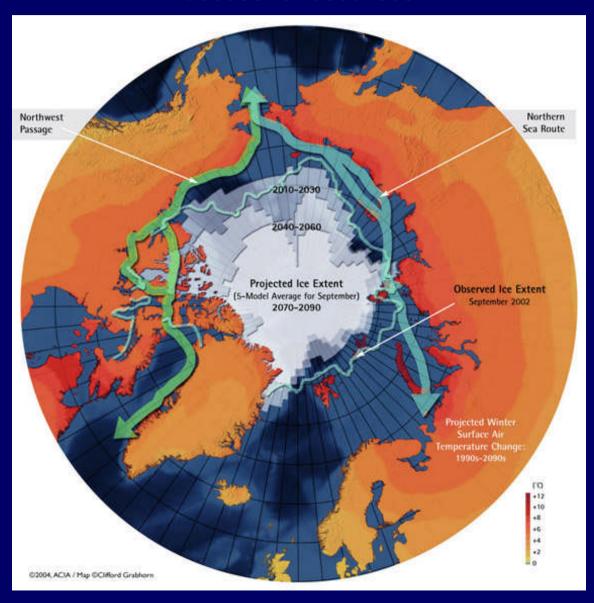
Reykjavik Declaration, 4th Ministerial (Nov 2004)

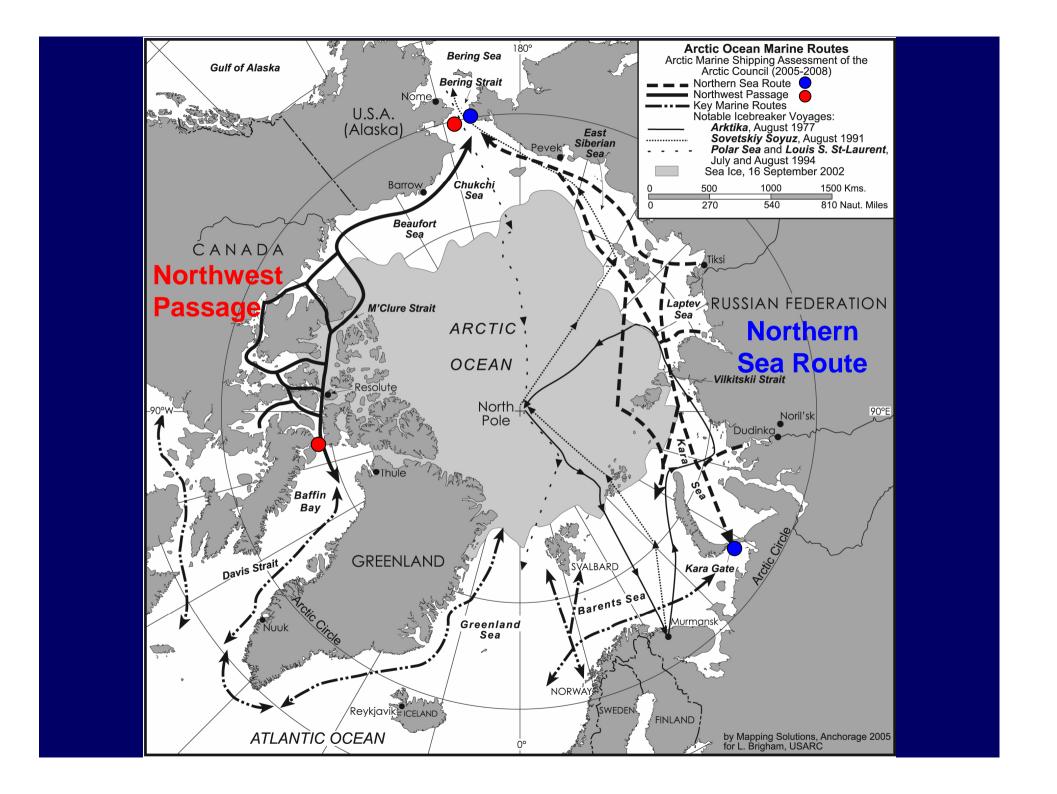
"Request PAME to conduct a comprehensive Arctic marine shipping assessment as outlined in the AMSP under the guidance of Canada, Finland, and the United States as lead countries and in collaboration with the EPPR working group and other working groups of the Arctic Council and Permanent Participants as relevant."

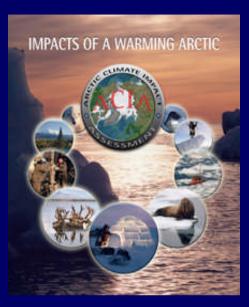


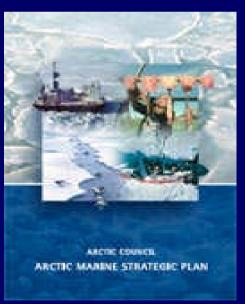
Arctic Climate Impact Assessment

Key Finding #6: "Reduced sea ice is very likely to increase marine transport and access to resources."





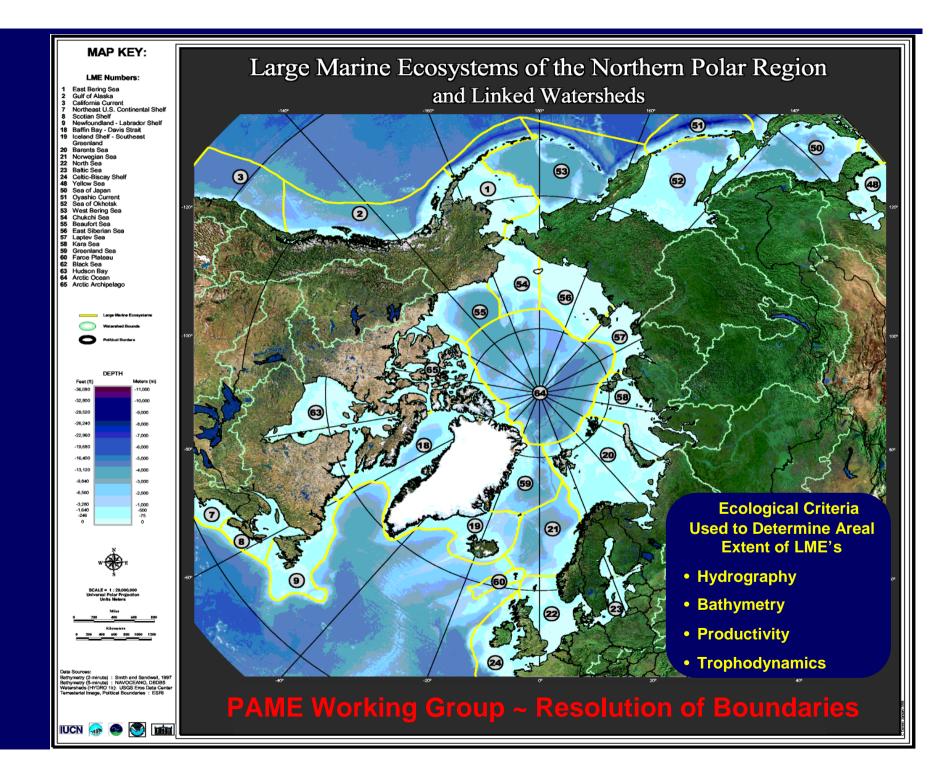




Arctic Marine Shipping Assessment (AMSA) Key Points

- AMSA Natural Follow-on to:
 - Arctic Climate Impact Assessment (ACIA)
 - Arctic Marine Strategic Plan (AMSP)
- Circumpolar, yet Regional (Large Marine Ecosystems) and Local Focus
- Member State Commitment & Support with Data Collection Effort
- AMSA web site: [www.pame.is]
- ACIA web site: [www.amap.no]





Arctic Council, PAME-led Arctic Marine Shipping Assessment

- Lead Countries: Canada, Finland, and USA
- Key Countries & Regions: Norway & Russia (Norwegian-Barents-Kara seas), Iceland, Denmark-Greenland-Faroe Islands, Sweden
- *Timeline*: 2005 2008
- Electronic Survey Questionnaire ~ Sent to SAOs Jan 2006;
 Continuing 2004 Data Collection from the Arctic States
- Inclusive Participation: Member States, Permanent Participants, Council Working Groups; Council Observers; Shipping Industry; Ship Classification Societies; Research Organizations; Others
 - ~ Key Challenge: Many Non-Arctic Stakeholders

Arctic Marine Shipping Assessment

- **Task** View of Today's Arctic Marine Shipping Situation (Data from Arctic Coastal States for 2004)
- **Task** Review of Current Traditional / Indigenous Marine Use
- **Task** Projections of Maritime Activity Based on ACIA ~ Regional Climate & Economic Scenarios (2020 & 2050)
- **Task** Impacts (Social, Environmental, Economic) of Today's and Future Arctic Marine Activity
- **Task** Risk Analyses, Accident Scenarios, Responses

Findings of the Assessment

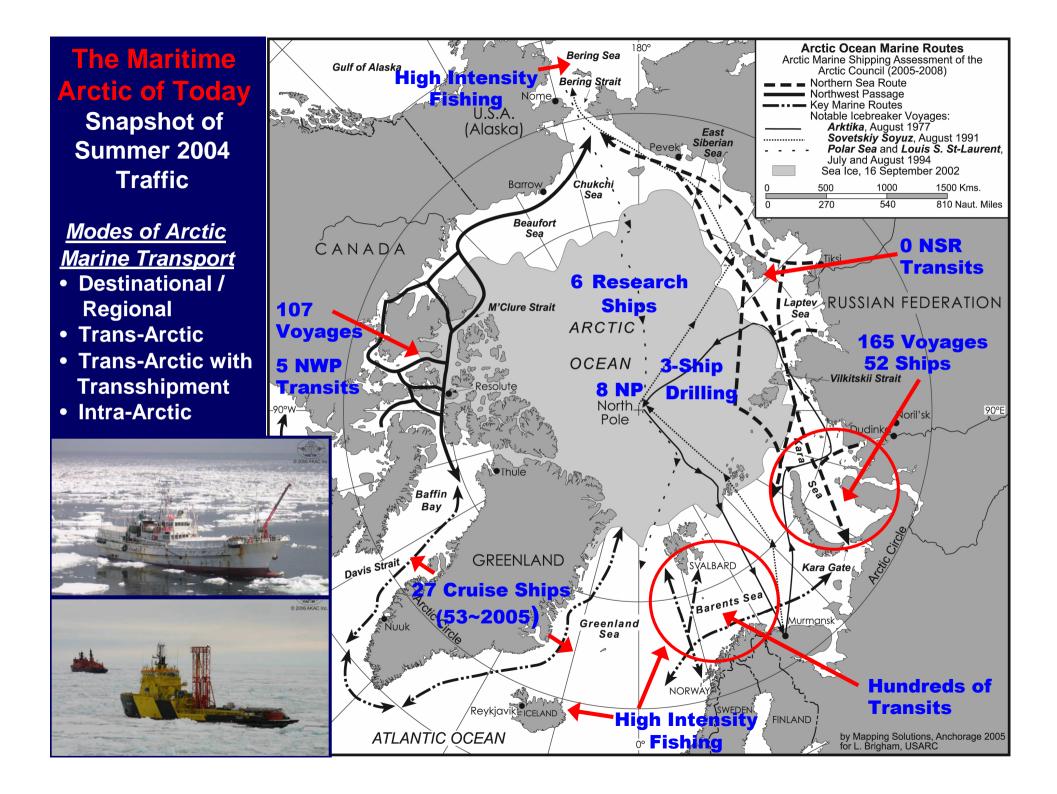
Arctic Council ~ PAME Recommendations for the Member States and the International Maritime Community



AMSA Strategy for Indigenous/Traditional Arctic Marine Use:

- Hold Town Hall Meetings in Arctic Communities
- Establish Panel of Experts (~ Assessment Chapter 4)
- Request Sustainable / Traditional Arctic Marine Use Information from the Arctic States and the Permanent Participants ~ Review by the Chapter 4 Team
- Permanent Participants Involved in All Stages of AMSA Review (AMSA Team.... PAME..... SAO/Council)







The Future of Arctic Marine Navigation in 2050

A Scenario Creation Exercise

San Francisco: 3-5 April, 2007

Erik Smith (erik_smith@gbn.com)

Matt Ranen (matt_ranen@gbn.com)

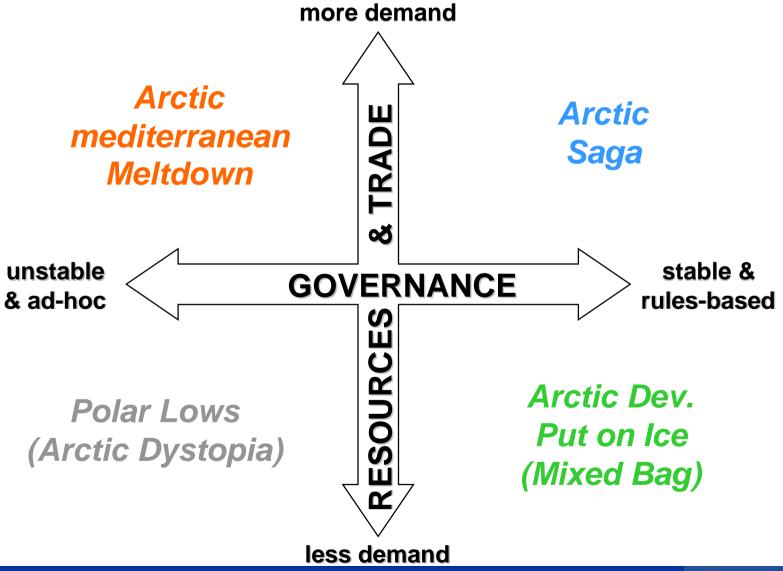
Bert Chan (bertram_chan@gbn.com)

GBN Global Business Network

a member of the Monitor Group

www.gbn.com 101 Market St, Suite 101 San Francisco, CA 94105

Scenarios on the Future of Arctic Marine Navigation in 2050





AMSA Final Report Structure (Draft Chapter Outline)

Chapters

- 1: Introduction & Geography (AMSA Team)
- 2: History of Arctic Marine Use/Marine Transport (US & Canada)
- 3: Current (2004) Levels of Arctic Marine Use (Canada)
- 4: Current Indigenous Arctic Ocean Use (US & Canada)
- 5: Scenarios of Future Arctic Marine Activity ~ 2020/2050 (US)
- 6: Environmental Impacts of Current & Future Marine Activity (Support to 3 Co-leads Proposed)
- 7: Social & Economic Impacts of Current & Future Marine Activity (Support for Lead Author)
- 8: Arctic Marine Infrastructure & Anticipated Needs (US/Canada/3rd)
- 9: Findings of the Assessment

Appendices, Research Agenda

AMSA Needs & Contributions

- Arctic State Support for Lead Authors
- Contributing Authors & Experts ~ All Arctic Council Sources & Beyond
- Continued Data Survey ~ Arctic State
 Official Data & Indigenous Use Data
- Arctic State Funding ~ Publications



Themes to Consider

Top of Endstate section: Broad Context

Indigenous communities

China, Japan, Korea

Maritime Disasters

World Trade Patterns

...Plus and from the list of 19 uncertainties and/or brainstorm

Middle of Endstate Section: Marine Navigation

Regional

Trans-Arctic

Tourism

Oil and Gas

Minerals

Fisheries

