

Workshop

The Northern Sea Route as Transit Route – Is an Investment Worthwhile?

Ice conditions in the arctic are changing dramatically due to climate change. The decline of the arctic sea-ice arouses various economic interests – among them the interest in a new transit route from Europe to Asia. Different climate projections show that the NSR will be passable for a period of many months of the year in the near future. A reliable sea-ice prediction is the basic requirement for estimating the benefit of the NSR as a transit route. The use of the NSR shortens the way from Europe to Asia noticeably. The economic incentive of using the NSR by merchant shipping is the reduction of costs for fuel and the economy of time. This is set against unknown accompanying costs. Additional operational costs for the ships and costs resulting from legal, logistical and environmental conditions have to be considered. This workshop will assemble economic and scientific experts with interest in the NSR to exchange information on the economic value of the NSR.

- Outcome:**
- Identification of drivers and constraints on the NSR
 - Identification of decision-relevant information deficits
 - Ways to fill information gaps
 - Optionally - Project plan to improve collaboration.

Participants:

Focus	Expert
Climate Change, Arctic / Ice conditions	Prof. R. Gerdes, Alfred Wegener Institute for Polar and Marine Research Prof. L. Kaleschke, University of Hamburg Dr. V. Khon, Christian-Albrechts-University Kiel Prof. M. Latif, Leibniz Institute of Marine Sciences
Law of the sea	Prof. A. Proelß, Christian-Albrechts-University Kiel
Economic interrelation	Prof. G. Klepper, Institute for the World Economy /Kiel Earth Institute
Insurance Company	D. Brand, Verein Hanseatischer Transportversicherer
Shipping companies	Cap. R. von Berlepsch, Hapag-Lloyd AG Dr. D.-S. Dieckmann, Deutsche Afrika-Linien
Shipping Yards	A. Dimter, Wadan Yard - invited
DNV	M. Mejlaender Larsen, DNV Maritime Focus Area Responsible "Operation in Cold Climate" Dr. G. Cammert, DNV Research and Innovation Program Director Arctic

Chair: G. Cammaert, DNV

Date: 16th of June 2009, 10:00h – 16:00h

Location: Hamburg / Det Norske Veritas – Bei den Mühren 1, 20457 Hamburg

Contact: J. Tellkamp (DNV), Jan.Tellkamp@dnv.com
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Agenda

- 10.00-10.15 Welcome**
J. Langkabel, DNV / Prof. G. Klepper, Kiel Earth Institute
- 10.15-10.45 Keynote Speech “Container Trade in the Arctic”**
M. Mejlaender Larsen
- 10.45-11.00 Statements / Expectations From the Industry**
- 11.00-11.15 Global Economics & Shipping**
G. Klepper
- 11:15-11:30 Coffee Break**
- 11:30-11:45 Climate Change in the Arctic**
M. Latif
- 11.45-12.00 Perspectives of the NSR in the 21st Century From Model Simulations**
V. Kohn
- 12.00-12.15 Satellite Remote Sensing of Sea Ice and Its Application for the NSR**
L. Kaleschke
- 12.15-12.30 Sensitivities of Arctic Sea Ice and Consequences for the Prediction of Sea Ice Properties - R. Gerdes**
- 12:30-12.45 Transport on the NSR under Considerations of the Law of the Sea**
A. Proelß
- 12.45-13.00 Summary**
- 13.00-14.00 Lunch Break**
- 14.00-15.00 Brainstorming**
Identification of high level drivers, showstoppers and key performance indicators
- 15.00-15.15 Coffee Break**
- 15.15-16.00 Results & Next Steps**
- Summary of drivers and constraints
 - Summary of information deficits
 - Appointment of ways to fill in the developed information gaps
 - Appointment of further cooperation, if needed