

**Day 1, Monday
19 October 2009**

18.00 - 21.00
Ice breaker reception
Steamer in Stockholm archipelago

**Day 2, Tuesday
20 October 2009**

08.00 - 09.30
REGISTRATION at WTC

09.30 - 12.30
Plenary Session I -
Chair: Reinhard Priebe, EC/DG-MARE
Moderator: Göran Boberg, SNSB
WTC: Room New York

09.30 - 10.00
Opening of the Workshop - Olle Norberg, Director General, Swedish National Space Board
Introduction and aim of Workshop - Reinhard Priebe, Director responsible for the Arctic, EC/DG-MARE

10.00 – 10.30
Environmental challenges in the Arctic - Nicolaj Bock, EEA

10.30 – 11.00
Arctic marine transport and space - Lawson Brigham, University of Alaska Fairbanks, USA

11.00 – 11.40
Coffee Break

11.40 – 12.00
Space today and possibilities for the future
Volker Liebig, Director of ESA EO Programme

12.00 – 12.20
Observations of the Arctic: EUMETSAT's Contribution to Current and Future Programmes
Ernst Koenemann, Director of EUMETSAT Programme Development

12.20 – 12.30
Discussion

12.30 - 14.00
Lunch Break

**14.00-17.40 Thematic Session: Climate Change and the Arctic
Room New York**

Chair & Rapporteur:
Tillman Mohr, Hugo de Groof

14.00–14.20 Sea surface temperature measurements over the Arctic based on Metop data
Pierre Le Borgne, Meteo France, France
Steinar Eastwood, met.no, Norway

14.20–14.40 The International Polar Year - The contribution by Space Agencies and expected observational legacies
Tillmann Mohr, Special Advisor to WMO, former EUMETSAT Director-General

14.40–15.00 Monitoring the cryosphere from space: research and operationalisation
Ian Brown, Stockholm University, Sweden

15.00–15.20 Circumpolar permafrost monitoring,
Annett Bartsch, Vienna University of Technology, Austria

**14.00-17.40 Thematic Session: Transport & Security
Room Manhattan**

Chair & Rapporteur:
Thomas Fagö, Bertil Håkansson

14.00–14.20 Satellite reception of AIS signals from vessels in the Arctic,
Ghislain Ruy, Luxspace, Luxemburg

14.20–14.40 Transports in the Baltic Sea and needs for Northern sea routes
Ulf Gullne, Swedish Maritime Agency, Sweden

14.40–15.00 On oil spill service, CleanSeaNet
Gunnar Pedersen, KSAT, Norway

15.00-15.20 SeaTrack Web - the Oil spill information system and extension to the Arctic,
Cecilia Ambjörn, Swedish Meteorological and Hydrological Institute, Sweden

**14.00-17.40 Thematic Session: Sustainable Exploitation
Room Paris**

Chair & Rapporteur:
Iain Shepherd, Ola Gråbak

14.00–14.20 Inuit society using Earth Observation based services
Tom Hirose, Noetix, Canada

14.20–14.40 Reindeer husbandry and forestry – conflict mitigation in northern Sweden
Karin Baer, Vilhelmina North Sami Community /
Leif Jougda, Swedish Forest Agency, Sweden

14.40–15.00 EO based services for climate change adaptation, Thomas Puestow Polar View, C-CORE

15.00–15.20 Hydrological predictions for the Arctic environment, the needs of satellite data
Berit Arheimer, Swedish Meteorological and Hydrological Institute, Sweden

**15.20 – 15.40
Coffee Break**

15.40–16.00

Sustaining Arctic Observing Networks
Volker Rachold, Executive Secretary, International Arctic Science Committee (IASC)

16.00–16.20 Recent accelerating changes in the sub Arctic environment and ecosystems
Terry Callahan, Abisko Scientific Research Station, The Royal Swedish Academy of Sciences, Sweden

16.20-16.40 Regional Modelling of Arctic climate in recent and possible future climates
Ralf Döscher, Swedish Meteorological and Hydrological Institute/Rosby Centre, Sweden

15.40–16.00 Challenges to ice monitoring around Greenland
Leif Toudal Pedersen, Danish Meteorological Institute, Denmark

16.00–16.20 European Ice Service
Helge Tangen, European Ice Service, Met.no, Norway

16.20–16.40 Navigating in Iceberg infested waters
Scott Rogerson, International Ice patrol

15.40–16.00 Russian space infrastructure applied to the Arctic
Vasily Smolyanitsky
Arctic and Antarctic Research Institute & JCOMM, Russia

16.00–16.20 On Galileo for the Arctic
Frank Udnaes, EC/DG Energy & Transport

16.20–16.40 Serving the Arctic: Polar Communications and Weather (PCW) Mission
Guennadi Kroupnik, PCW Mission Manager, CSA

<p>16.40-17.00 ICESat's observations of Arctic sea ice freeboard/thickness and NASA's plans for ICESat-2, Jay Zwally, ICESat Project Scientist NASA Goddard SFC, USA</p>	<p>16.40-17.00 The role of satellite technology in Arctic governance Richard Hall, KSAT, Norway</p>	<p>16.40-17.00 Stockman Oil field, SDAG Edmond Coche, Stockman Development AG</p>
<p>17.00 - 17.20 Sea Ice change and climate IPY and ESA, Henri Laur, Head of ESA Mission management office</p>	<p>17.00 - 17.20 ESA activities related to satellite communications for high latitude regions Frank Zeppenfeldt, ESA</p>	<p>17.00 - 17.20 Challenges for fisheries enforcement and safety in the far north Gunnar Pedersen, KSAT, Norway</p>
<p>17.20-17.40 Rapporteur report & Statement Discussions Hugo de Groof, DG-ENV</p>	<p>17.20-17.40 Rapporteur report & Statement Discussions Bertil Håkansson, SMHI</p>	<p>17.20-17.40 Rapporteur report & Statement Discussions Ola Gråbak, ESA</p>
<p>20.00 DINNER World Trade Center</p>		

Day 3, Wednesday
21 October 2009

09.00-12.00 Plenary Session II
Chair: Reinhard Priebe, EC/DG-MARE
Moderator: Jerome Bequignon, ESA
WTC: Room New York

09.00 – 09.15 Session Reports & Statement - Discussions
Rapporteurs

09.15 – 09.45 EU - Baltic Regional Strategy
Alexander Schenk, Ministry of Finance, Swedish Governmental Offices

09.45 – 10.15 The Potential of GMES in the Arctic
Mikko Strahlendorf, EC GMES Bureau

10.15 – 10.45 Marine Core Services
Pierre Bahurel, Mecator, Coordinator, MyOcean project

10.45 – 11.15
Coffee Break

11.15 – 11.45 Progress since the Arctic Communication
Reinhard Priebe, EC/DG-MARE

11.45 – 12.00 Statement Conclusion and Workshop closing:
Jerome Bequignon, ESA