DLO institutes
Dutch Arctic Circle

Theme description:
- Stakeholder cooperation
- Public-private platform to bring together separated networks
- Industries, research, and government
- Shell, Boskalis, Van Oord, Royal Haskoning DHV, MinEZ, MinBuZa, TuDelft, NIOZ
- Strengthen the position and interests of The Netherlands
- Stimulate and support stakeholders
- Operations are: Ecological responsible, Socially appreciated, Internationally renown
- Develop projects focussing on Building with Nature in Arctic conditions

Involved scientists:
- Wouter Jan Strietman (LEI)
- Floris Groenendijk (IMARES)
- Martine v.d. Heuvel-Greve (IMARES)
- Bas Bolman (LEI)

Projects:
- Maritime Innovation and Impuls Programme (2014-2016)
- Ministry of Foreign Affairs (2015/2016)

References:
- 6 stakeholder meetings; 1 work session, presentations at various conferences

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How’s life at Svalbard? 2015

Involved scientists
- Judith Klostermann, Gaia Mori

Outcomes
- Longyearbyen is not a transitory community; instead people are enjoying ties with friends and family.
- Sharing the love for nature may be an important reason for the sense of community in Longyearbyen.
- Ending coal mining will be a blow to the town’s identity.
- All hopes are on tourism, research and education.

Socio-economic indicators report 2014

Involved scientists
- Judith Klostermann, Wies Breeksema, Natasha Valeeva, Verina Ingram

Outcomes: indicators are lacking on:
- Increasing human pressure on fish and wildlife
- Quantitative estimate of land use
- Estimated intake of certain pollutants
- Measurement of the reindeer economy

Institutions for sharing resources in the Arctic 2013

Involved scientist:
- Judith Klostermann

Outcomes: Three systems for self-governance
- ‘Home Rule’: decentralized public administration, indigenous people within geographic boundaries have rights to use natural resources (Greenland and Nunavut).
- Dual system, both the ‘southern’ public administration and an aboriginal council exist (Saami and the First Nations in Yukon)
- ‘Land claim settlements’: a business model (Alaska)

Terrestrial impact studies 2014-2015

Involved scientist
Joost Lahr

Outcomes
- Scientific article of literature survey on discharge of drilling mud & cuttings in the Arctic (with colleagues from IMARES and Alterra).
- Feasibility study on risk mapping & analysis of terrestrial species vulnerable to pollution.

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**Marine ecology**

**Involved scientists:**
- **Sea-ice communities:** Jan Andries van Franeker, Fokje Schaafsma (PhD)
- **Fish:** Ingrid Tulp
- **Birds:** Steve Geelhoed, Hans Verdaat, Ingrid Tulp, Rob van Bemmelen (PhD)
- **Seals and walruses:** Sophie Brasseur, Geert Aarts, Roger Kirkwood
- **Whales:** Meike Scheidat, Hans Verdaat, Steve Geelhoed, Brita Trapman

**Description**
Knowledge development and advice with regards to marine ecosystem components and food webs in the Arctic.

**Projects**
- PhD: ‘The imperiled role of sea ice in supporting the living resources of the polar oceans’
- PhD: ‘Migratory connectivity between Arctic breeding grounds and oceanic wintering areas of seabirds’
- *In prep: JIP SALTO - www.marin.nl/web/JIPs-Networks/Public/SALTO.htm*

**Selected publications**

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**Human impacts**

**Involved scientists:**
- **Pollution:** Martine van den Heuvel-Greve
- **Oil:** Martine van den Heuvel-Greve, Jan Tjalling van der Wal, Edwin Foekema, Pepijn de Vries, Robbert Jak, Jacqueline Tamis
- **Fisheries:** Gerjan Piet, David Miller
- **Invasive species:** Jeroen Wijsman, Andrea Sneekes
- **Offshore wind farms:** Jan Tjalling van der Wal
- **Ballast water:** Andrea Sneekes, Klaas Kaag
- **Marine Protected Areas:** Oscar Bos
- **Environmental Risk Assessment:** Pepijn de Vries, Jacqueline Tamis, Sander Lagerveld

**Description**
Knowledge development, innovation and advice on impacts of economic activities in the Arctic marine ecosystem.

**Projects**
- SeaBasin Checkpoint Arctic (’15-’18; EC) – SEES expedition 2015
- 3P@Sea-Arctic (’12-’15; WUR)
- Systematic review environmental impact of drilling discharges in the Arctic (’13-‘14; Shell)

**Selected publications**

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