How an eco-regional model of the Barents Sea lends support to science-informed decision making

2015 Arctic Biodiversity Congress

12:30 - 14:00

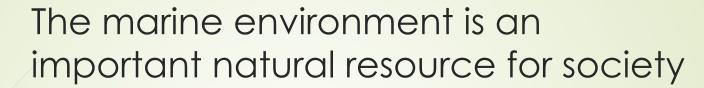
Room: Mesanin

Case Study - General Aim offer concrete and practical advice for the implementation of feasible and priority actions under CAFF policy recommendation areas.

- Ecosystem-based management
- Identifying and safeguarding important areas for biodiversity
- Addressing individual stressors on biodiversity
- Improving knowledge and public awareness

CAFF policy recommendation - Ecosystem-based management

- Advance and advocate ecosystem-based management efforts in the Arctic as a framework for cooperation, planning and development.
- This includes an approach to development that proceeds cautiously,
- with sound short and long-term environmental risk assessment and management,
- using the best available scientific and traditional ecological knowledge,
- following the best environmental practices,
- considering cumulative effects and adhering to international standards.





A source of essential raw materials & services



Ecosystem-based management

The preferred policy approach for managing the use of raw materials and services





Report No. 8 to the Storting

2005–2006)

Integrated Management of the Marine Environment of the Barents Sea and the Sea Areas off the Lofoten Islands





Provide a more coherent approach to maritime issues, with increased coordination between different policy areas.

Focuses on issues that require the coordination of different sectors and actors e.g. marine knowledge.

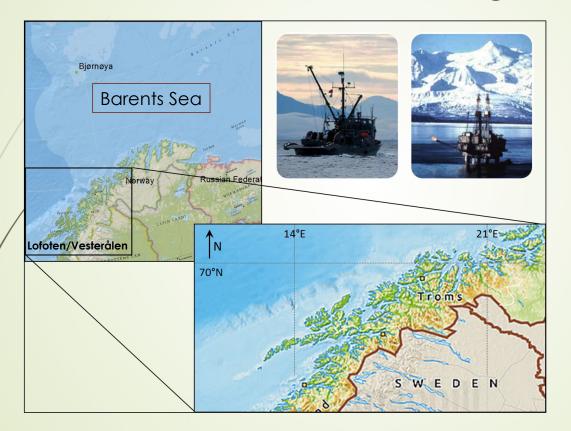
Ecosystem-based management



- Balance: balance and integrate the needs of multiple human user groups while maintaining the health of the underlying system that supports those needs.
- Collaboration: collaborative decisionmaking involving a diverse set of organizations and individuals
- Adaptive: monitoring and evaluation are tied to changes in future management directions.

Protect ecosystem health & provide ecosystem services

Lofoten-Vesterålen Region



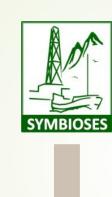


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Information

Session Plan – Part 1

Presentations

Name	Affiliation	Title
JoLynn Carroll*	Akvaplan-niva	Session Introduction
Ole Jacob Broch	SINTEF Fisheries & Aquaculture	Simulating oil spill impacts on plankton populations
Daniel Howell	Institute of Marine Research	Simulating oil spill impacts on the adult fish population

Session Plan – Part 2

Panel & audience discussion

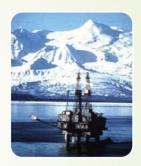
Name	Affiliation
Geir Morten Skeie	SENSe/Akvaplan-niva
Jürgen Weissenberger	Statoil ASA
Kerim Aydin	U.S. National Oceanic & Atmospheric Administration

Panel & Audience discussion – Advice and needs for the use of decision-support tools to inform ecosystem-based management



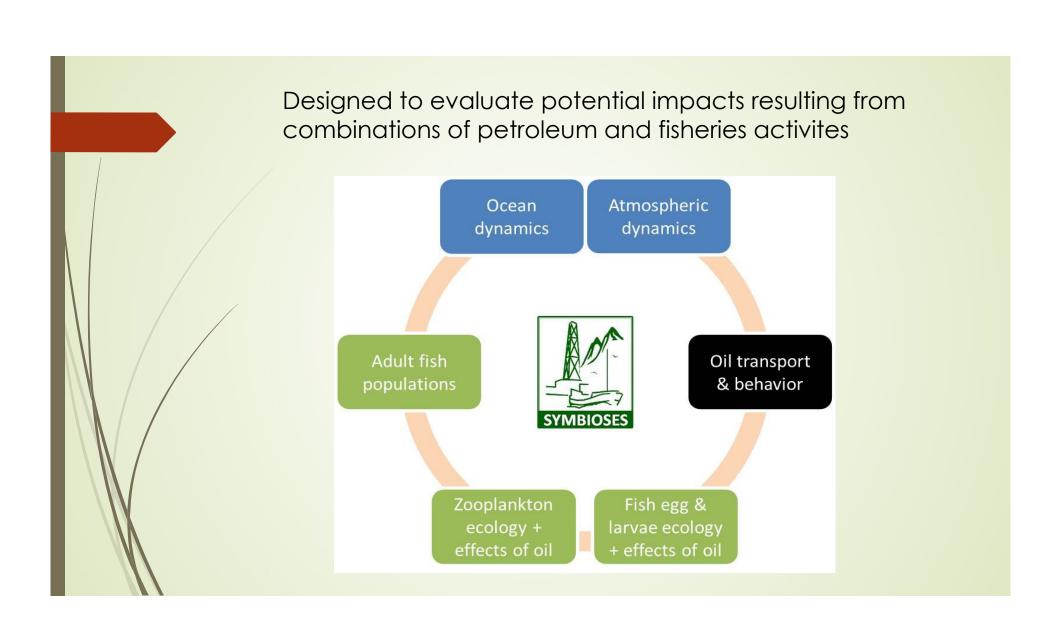


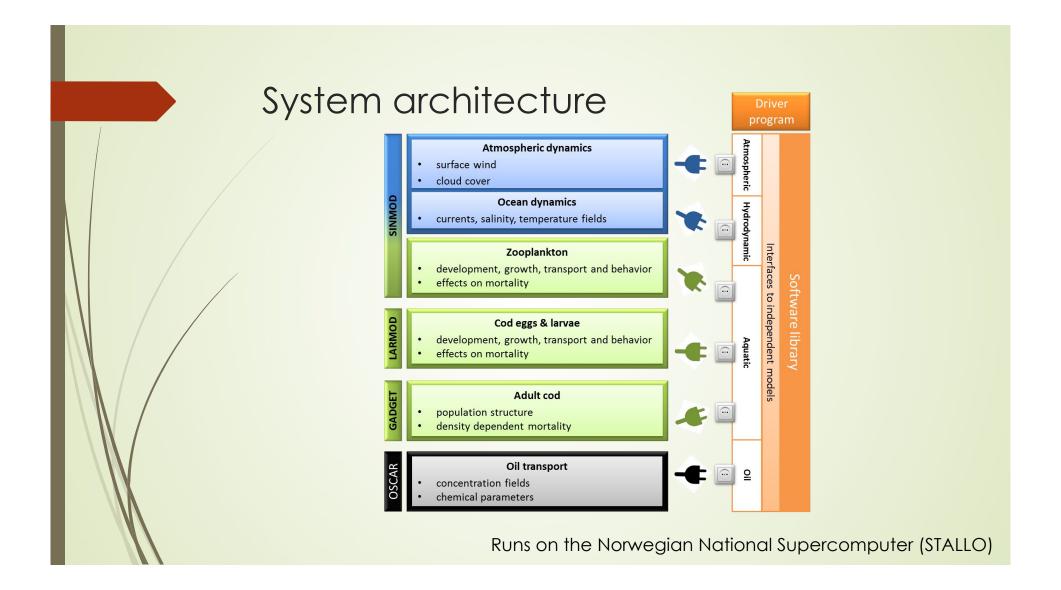






- How tools can advance our ability to address multiple objectives: biodiversity protection, fisheries, and energy
- How tools are critical to enhancing partnerships between conservation, management & industry
- ➤ How tools support the application of evidence-based approaches to reduce risk and improve planning





Benefits





- > Improves the scientific foundation for sustainable management
- > Capable of considering the cumulative impacts of two sectors
- Capable of considering a variety of scenarios and evaluate the probability of impacts
- > Supports planning of sustainable and safe marine activities
- > Supports stakeholder communication
- Provides a platform to synthesize and explore scientific data and hypotheses

MSMt multi-species assessment model

An innovative way to evaluate the potential impacts of different environmental stressors?

