





The Ice Whales: evolved over 5 Million years with Arctic sea-ice



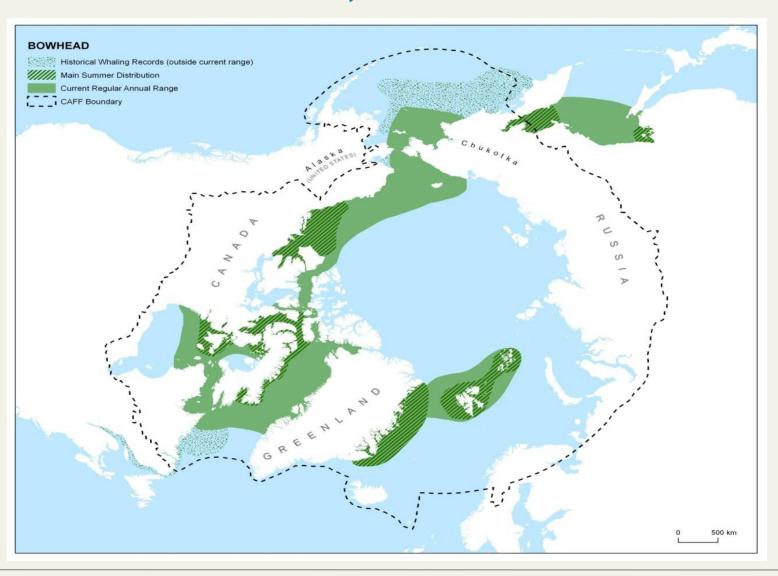






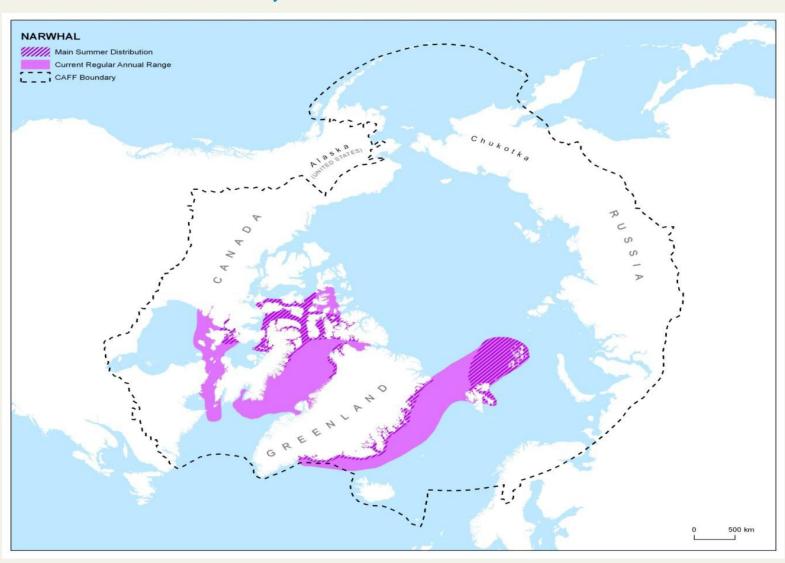


Bowhead Whale: >18,000



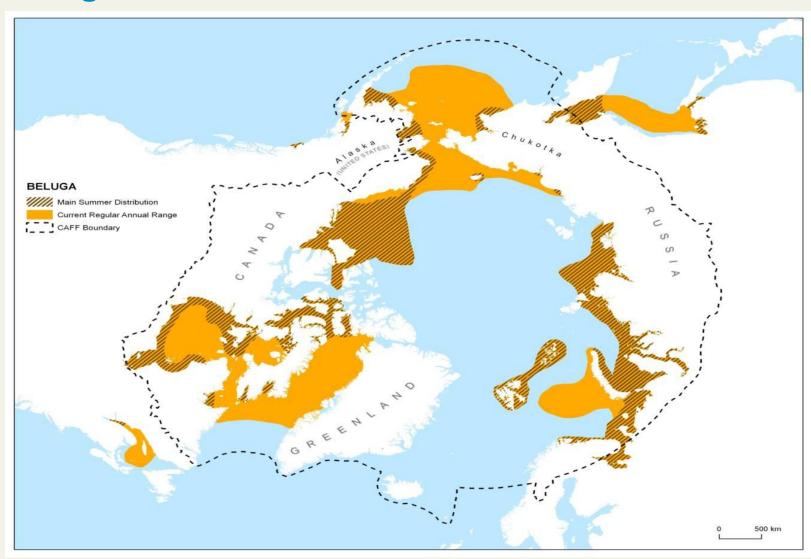


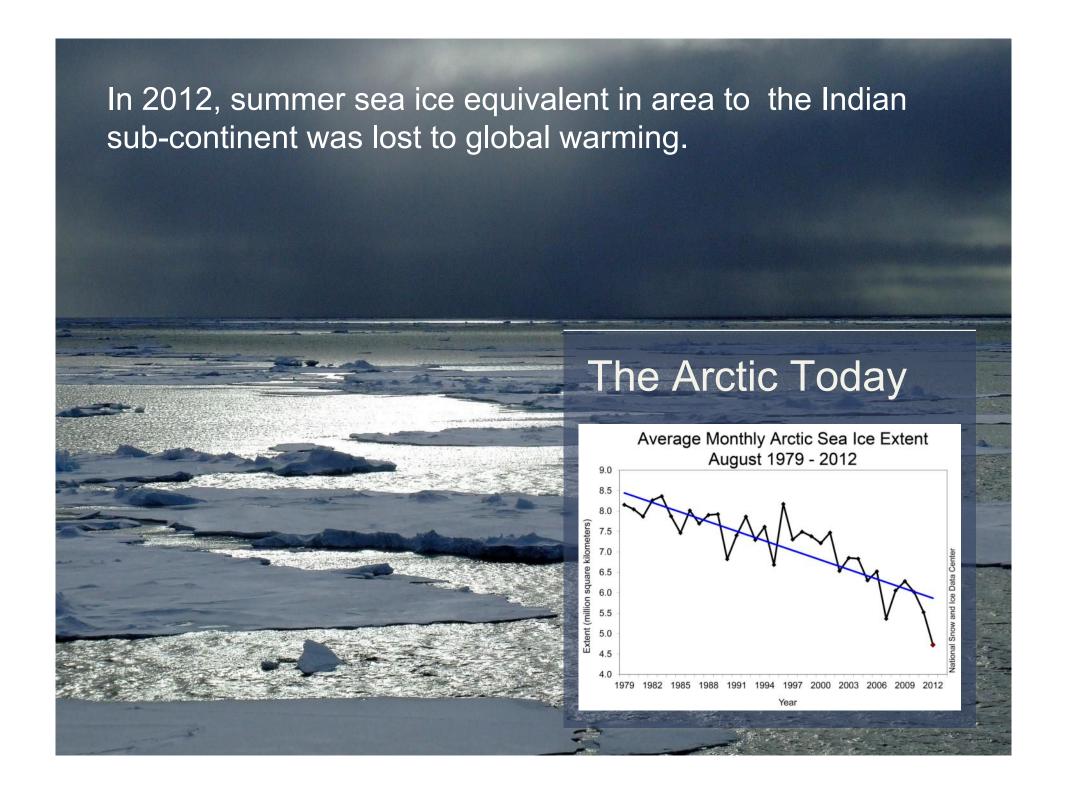
Narwhal: ca. 100,000

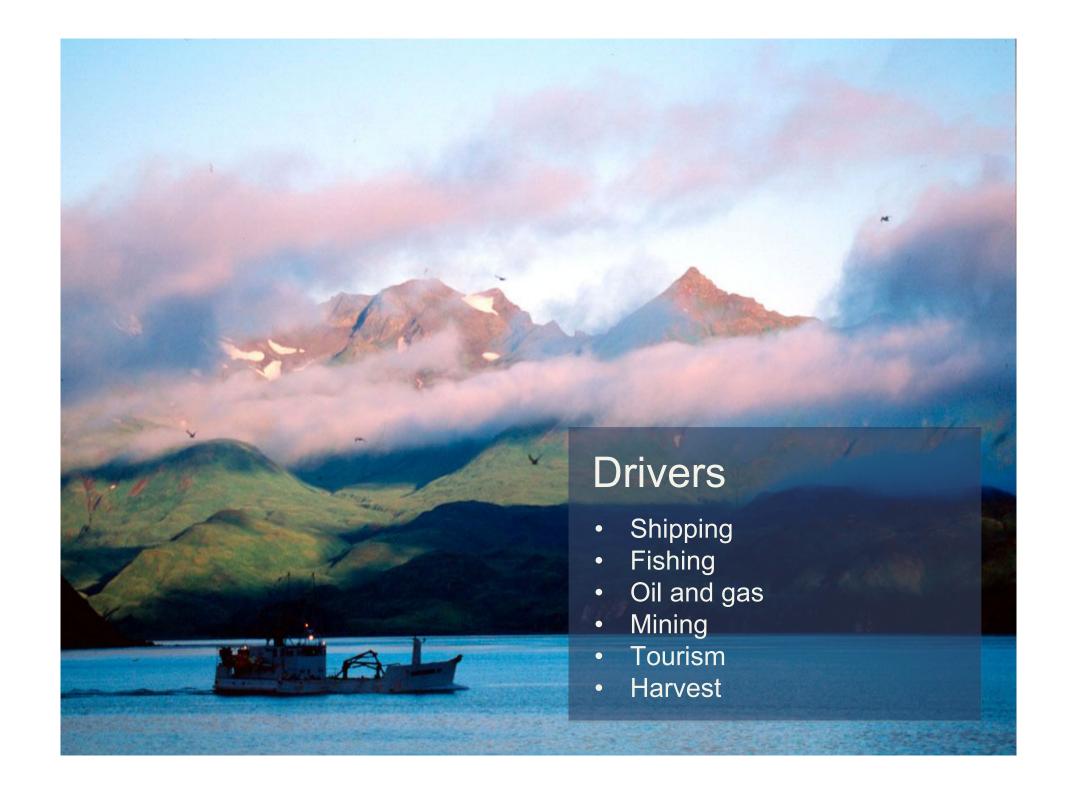




Beluga: >150,000

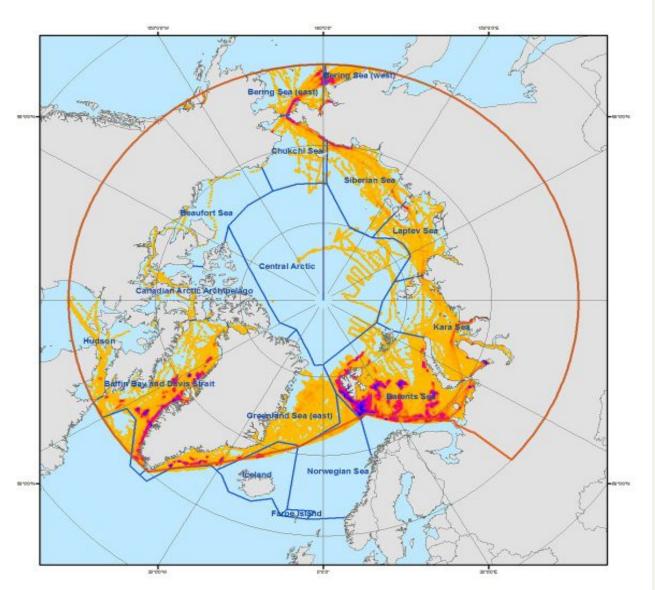






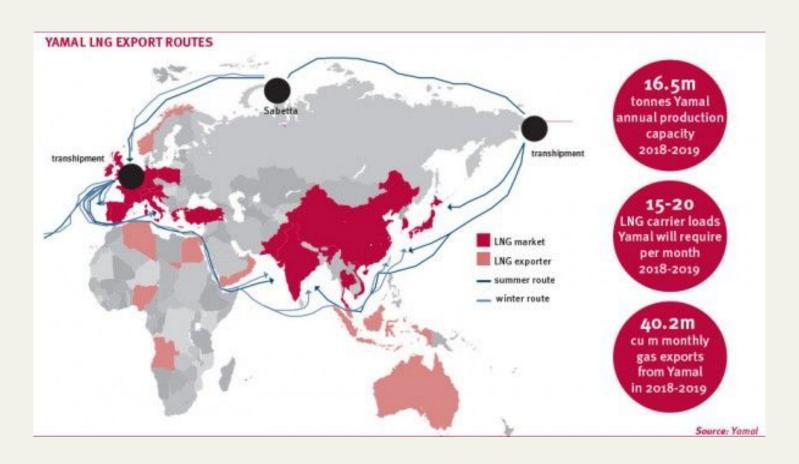


Shipping in the Arctic





New threats to Cetaceans in the Arctic – rapidly development of the shipping as service for offshore/onshore oil & gas projects



YamalLNG (NovoTEK, Total) - the first Arctic LNG project is developing rapidly



Risk: no proven method to clean up oil/condensate spilled in iced waters



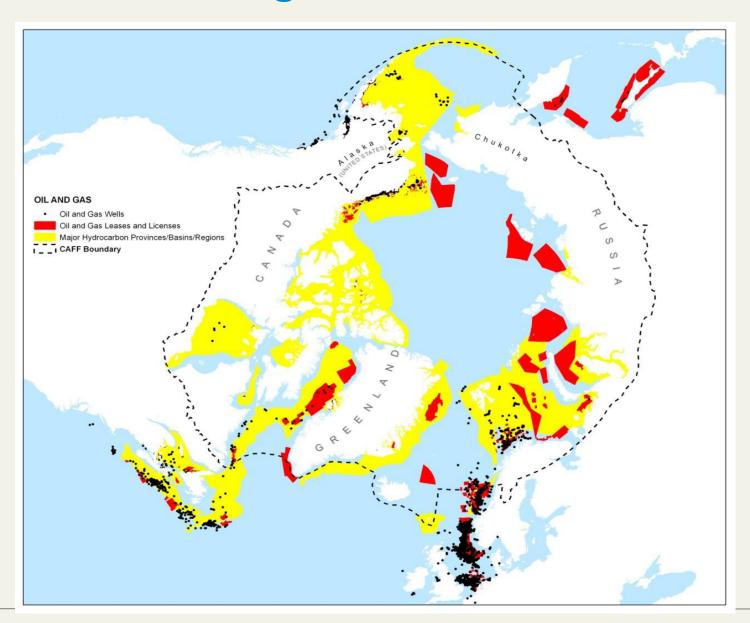






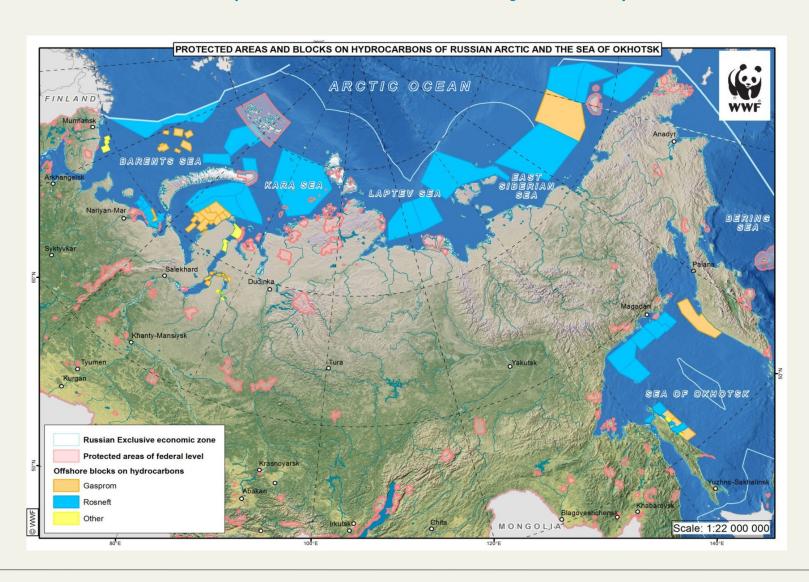


Oil&gas in the Arctic





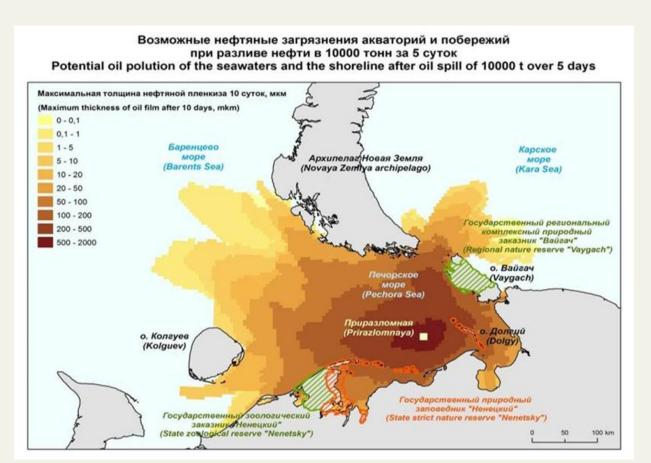
Offshore Oil & gas development in Russia (Data as February 2014)





Oil spill modeling and assessment of OSR capacity for Prirazlomnoe project

http://www.wwf.ru/resources/publ/book/eng/770



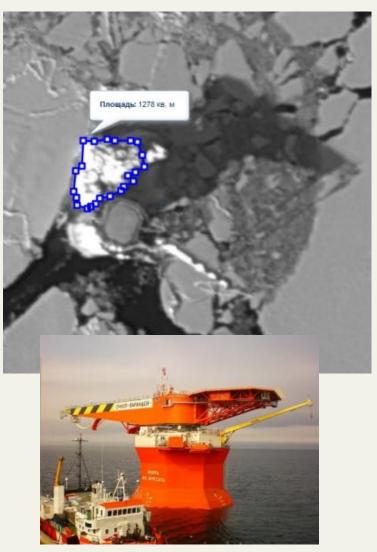


140 000 sq. km - area of risk of the oil spill, over 3500 km coastline

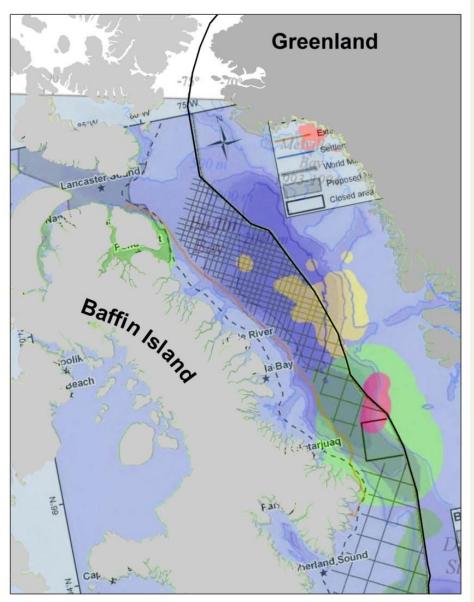


March 2013. The heavy ice condition in Pechora sea Varandei terminal (LUKoil)









Seismic surveys 5-year plans: For oil-gas expl/devel. ---- in Narwhal migration corridors + wintering areas.





WWF experience

WWF GAP Report (2014): Reducing impacts of noise from human activities on cetaceans

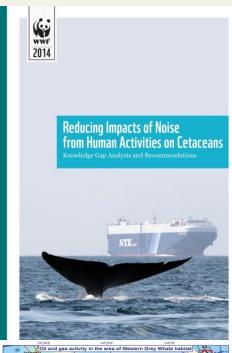
http://awsassets.panda.org/downloads/ocean noise report web.pdf

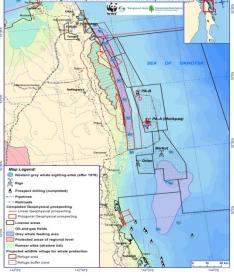
WWF Russia long term Sakhalin experience to protect western gray whales from oil&gas/shipping activities (seasonal and spatial measures).

Effective mechanism - Western Gray Whale Advisory Panel (WGWAP) under IUCN http://iucn.org/wgwap/. NGO play important role with observer status

New 2014 Memorandum of Cooperation (MoC) between Russia, US and Japan on WGW.

Important lesson learnt for Arctic whales protection



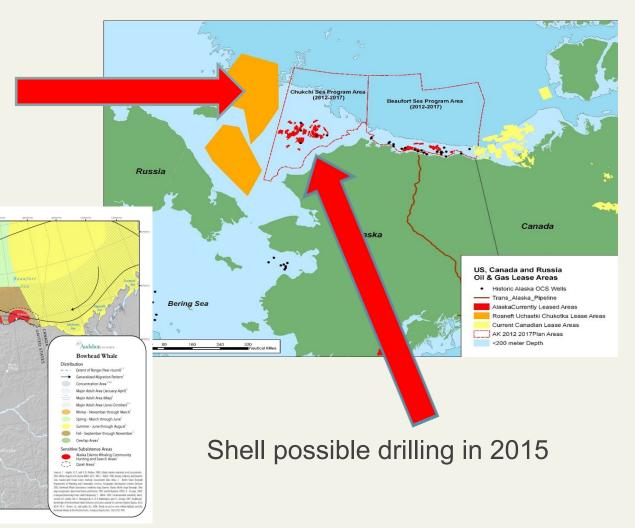




US-Russia-Canada Transboundary Impacts on migratory Cetaceans species from oil/gas development (noise and oil spills)

Rosnetf seismic survey in 2014-15 for Chukchi sea

Atlas of the Chukchi and Beaufort Seas





Shared concerns

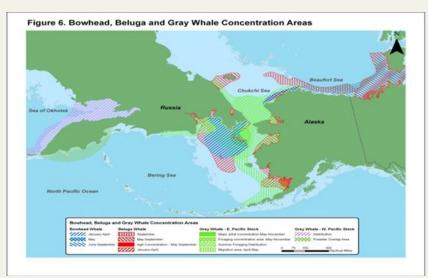


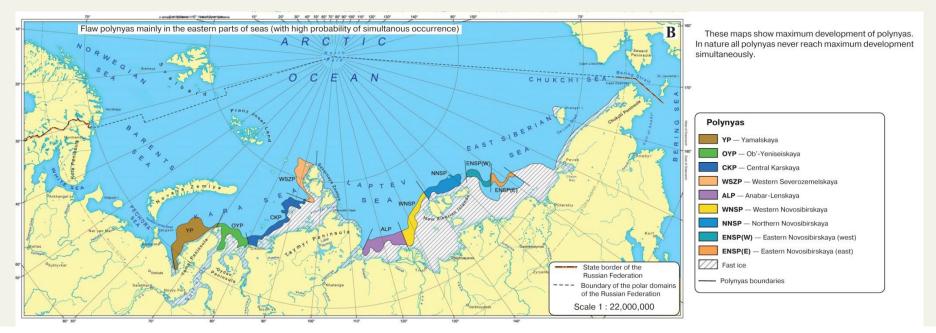






Protect an adequate network of key marine habitats – by 2020







Conclusions/Recommended Measures

(most highly consistent with ABA 2013 recommendations)

- Zone-based protection for key whale habitats
- Complete scenarios-based ecosystem plans based on risk assessments & cumulative pressures.
- New firm approach to regulation of industrial developments (shipping, oil-gas)
- Fill priority research gaps, including impact thresholds for anthropogenic activities.
- Sustain quality monitoring and adaptive mgmt.



Other recommendations to deal with oil&gas and shipping threats

- Implementation of the Strategic Environmental Assessment (as Kiev Protocol, 2003) for all Arctic states. SEA is the only one effective tool to assess cumulative effects.
- Promotion for implementation Transboundary EIA (based on Espoo Convention approaches).
- Replication of the IUCN/WGWAP lesson learnt to Arctic regions (under IWC/AC umbrella).
- Transparent dialog among all stakeholders about oil spill response technologies in ice conditions