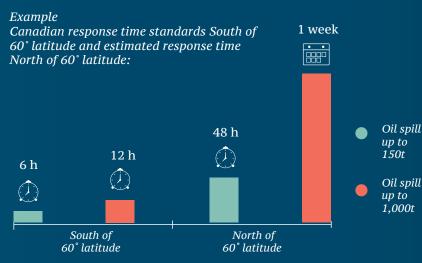


Severe weather limits the effectiveness of equipment and often prevents any response at all.

Mechanical recovery (skimmers or booms) of oil can be difficult in ice, use of chemical dispersants can damage essential food sources, and experience with in-situ burning in cold temperatures and ice involves only crude oils, as opposed to heavy fuel oil (HFO).



Coastal communities would be the first to respond, and have the most to lose.

Arctic communities depend on healthy and clean waters for much of their food.

Example

Approximately 50% of the Inuit diet in Canada is harvested from the land and waters:



Viscous Heavy Fuel Oil (HFO) is the fuel most used by large vessels. And the most damaging in case of a spill.

In 2015 HFO represented 76% of the mass of bunker fuel onboard ships in the Arctic

All response options become more challenging and mechanical containment and recovery may be the only means of responding to a spill of HFO.

76% HFO

OIL SPILL RESPONSE CAPACITY IN NUNAVUT AND THE BEAUFORT SEA, CANADA

Shipping in the Canadian Arctic is

Nunavut





Ban the use of HFO as Arctic marine fuel



Introduce community spill response plans



Modernise equipment, communications and training



Engage communities in spatial planning of ship traffic

Sources: Guide to oil spill response in snow and ice conditions. Arctic Council, 2015; Oil spill response capacity in Nunavut and the Beaufort Sea, WWF Canada, 2017. Produced for the Clean Arctic Alliance: www.HFOFreeArctic.org Designer: Margherita Gagliardi