

for a living planet

The Svalbard archipelago in the Barents Sea

AN ARCTIC PARADISE

The remote Svalbard archipelago in the Barents Sea, which includes the island of Spitsbergen, is one of the most productive ecosystems in the world, and among the most biologically diverse in the Arctic.



In Hornsund.



valbard, and the seas and sea ice around it, are home to polar bears, seals, walrus, arctic fox, and Svalbard reindeer. Millions of seabirds breed here every summer, and the seas contain some of the largest fish stocks in the world as well as a number of whale species. Svalbard is also rich in historical sites from the early days of polar exploration, whaling and mining.

However, despite its remoteness, the islands are not immune to environmental threats.

Climate change is the greatest long-term threat to the Arctic, and has already begun affecting natural ecosystems and traditional ways of life at an alarming rate. Air and water temperatures are increasing on Svalbard, glaciers are shrinking and there is less sea ice around the archipelago.

Oil and gas exploration is a new threat: some 25 percent of the world's unexploited oil and gas reserves lie in the Arctic, some in the waters around Svalbard. Depleted reserves elsewhere in the world, coupled with high oil prices mean oil companies now see the Arctic as ripe for exploitation. With development will come a growing risk to biodiversity from increases in shipping to the potential for oil spills.

Illegal fishing is threatening the long-term survival of fish stocks, while damaging chemicals, used in everyday goods around the world, are now turning up in arctic

wildlife, such as the polar bear.

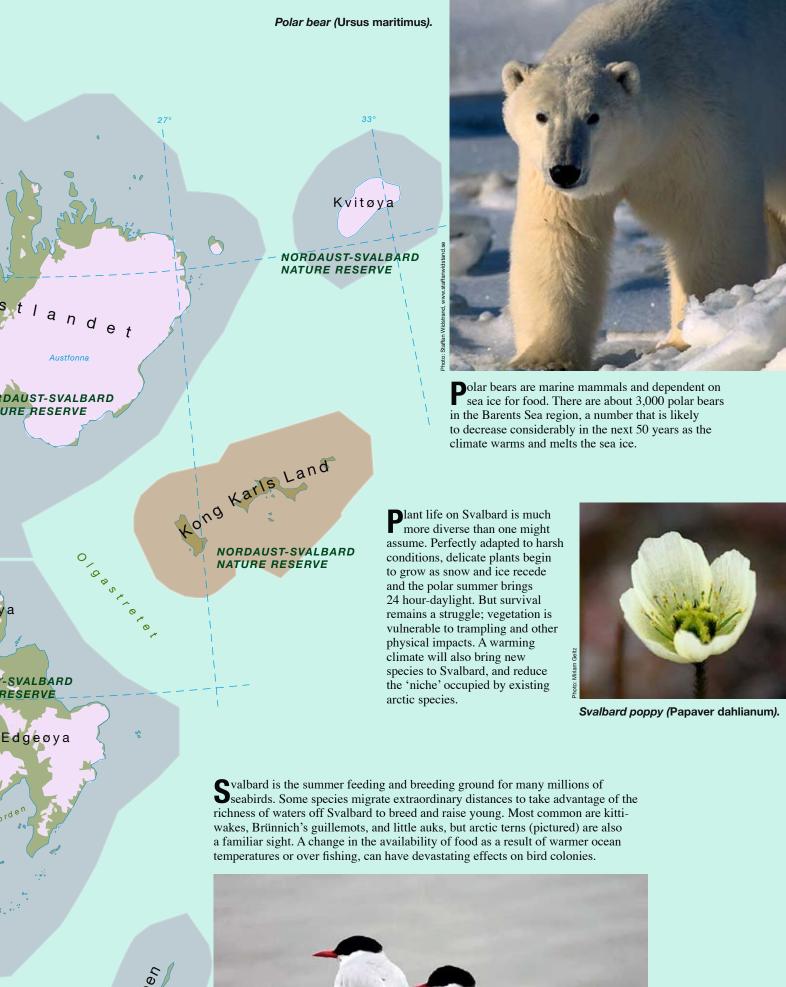
(Saxifraga cespitosa)

Tourism too can threaten this fragile environment. Cruise tourism and day trips by ship have become increasingly popular, and unless their impact on the environment is limited, they will add to the existing stresses to these high arctic ecosystems.



Near Alkefjellet.





RESERVE

HOPEN NATURE

Arctic tern (Sterna paradisaea).

THREATS

CLIMATE CHANGE: The biggest threat facing Svalbard and the Arctic is global climate change. The average temperature in the Arctic is rising at twice the rate of the rest of the world. The Arctic Ocean is projected to be ice-free in summer by the end of this century.

OVER FISHING: Illegal and unmanaged fishing is a threat to the rich fishing grounds of the Barents Sea and Svalbard. While there is evidence that this activity is common to all parts of the Barents Sea, the situation in the international waters between Svalbard, Norway and Russia is worse; a free-forall that has the potential to cause enormous long-term damage to fish stocks.

OIL AND GAS DEVELOPMENT: Oil and gas exploration is increasing in the southern Barents Sea between Svalbard and Norway. A number of licenses for exploratory drilling around Svalbard have also been applied for but so far denied. However, economic and political interests are driving the quest for 'black gold' and Svalbard's waters and coastlines remain threatened. With oil and gas exploration comes increased shipping and the risk of oil spills and pollution. Invasive species can also cause damage as they can enter the ecosystem from ships' ballast water.

TOURISM: Cruises and other tourism activities account for a large part of

■ WWF is one of the world's largest independent conservation organisations, with more than four million individual members and projects in about 100 countries. The WWF International Arctic Programme was established to coordinate and run the organisation's conservation efforts in the arctic region. The Barents Sea and Svalbard are a priority area for WWF's work to address the threats from climate change, over fishing and oil and gas

For more information on WWF's work on Svalbard and in the Arctic:



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human activities on the islands. So far, these activities leave few traces behind. For this to remain the case, cruise tourism in particular must be conducted properly in the long run.

For tourists to be able to come and enjoy the unique natural and cultural values that Svalbard has to offer, tour operators, tourists, visitors and locals must minimise their impact.

How can you help?

Think about your impact on the environment:

As a consumer of resources, you can take action by

- reducing energy use, eg turning off lights and stand-by functions on electrical appliances, and buying energy efficient electrical appliances.
- switching to green energy companies or to exclusively renewable energy companies, eg buying electricity from alternative sources like wind or biomass.
- buying fish from certified fisheries, eg The Marine Stewardship Council.

For more information, visit www.panda.org and www.panda.org/arctic

As a tourist in Svalbard, consider the environmental profile of your cruise or tour operator. For a cruise or day trip, look for:

- activities in small groups because they give you a better experience and reduce the risk of damage to vegetation and disturbance to wildlife.
- knowledgeable guides because a good guide will teach you about the unique features of Svalbard and how they can be protected.
- the fuel used for your ship; marine gasoil is less damaging to the environment than heavy fuel oil if there is an oil spill.

On Svalbard, you can choose to travel with a tour operator organized in the Association of Arctic Expedition Cruise Operators (AECO). This industry-initiative works towards good environmental practise by its members, and thus less risk and impact on Svalbard's environment. AECO has also developed specific visitor guidelines.