

Polar bears crowd on Russian island in sign of Arctic change

November 23 2017, by Maria Antonova



Tourists in the far eastern Russian Arctic spotted some 200 polar bears in September roaming on a mountain slope where they had feasted on a whale carcass, but scientists see the gathering as a sign of the Arctic changing

A boatload of tourists in the far eastern Russian Arctic thought they were seeing clumps of ice on the shore, before the jaw-dropping realisation that some 200 polar bears were roaming on the mountain slope.

"It was a completely unique situation," said Alexander Gruzdev, director of the Wrangel Island nature reserve where the encounter in September happened. "We were all gobsmacked, to be honest."

The bears had come to feast on the carcass of a bowhead whale that washed ashore, later resting around the food source. The crowd included many families, including two mothers trailed by a rare four cubs each, Gruzdev told AFP.

Climate change means ice, where polar bears are most at home, is melting earlier in the year and so polar bears have to spend longer on land, scientists say.

This might wow tourists but means the bears, more crammed together on coasts and islands, will eventually face greater competition for the little food there is on land.

Locals are also at risk from hungry animals venturing into villages.

Wrangel Island, off the coast of Russia's Chukotka in the northeast, is where polar bears rest after ice melts in early-August until November, when they can leave land to hunt for seals.

It is also considered the birthing centre for the species, with the highest density of maternity dens in the entire Arctic, Gruzdev said.

"A whale is a real gift for them," he said. "An adult whale is several tens of tonnes" that many bears can feed on for several months.

Studies have shown that, compared with 20 years ago, polar bears now spend on average a month longer on Wrangel Island because "ice is melting earlier and the ice-free period is longer," said Eric Regehr, from the University of Washington, the lead American scientist on the US-

Russian collaborative study of Wrangel Island polar bears.

Changing ice conditions could also be responsible for the increasing number of bears flocking there, Regehr said.

This autumn, the number of bears observed was 589, far exceeding previous estimates of 200-300, he said, calling it "anomalously high".

The International Union for Conservation of Nature estimates there are about 26,000 polar bears in the Arctic, with a long-term "potential for large reductions" due to ice loss.

Ice is key as polar bears hunt exclusively on the ice surface, often staking out seals by their breathing holes.

Nothing can replace seals

Regehr said the polar bear population in the shared US-Russian Chukchi Sea "appears to be productive and healthy" at the moment, but as time spent on land continues to increase, the bears' nutrition and body condition will be affected.



Studies show that polar bears now spend longer on Wrangel Island, in the far eastern Russian Arctic, than 20 years ago because "ice is melting earlier and the ice-free period is longer," said American scientist Eric Regehr, of the University of Washington

"The question is at what point the population will begin to experience negative effects, is that at one and a half months (more time on land than normal), two months, more?" he asked.

"We don't know exactly, but there is a threshold somewhere in the future."

Despite some food sources on land—including musk oxen, lemmings, or even grass—nothing can completely replace the energy-packed seals that bears have evolved to rely on.

"They are resourceful and adaptable animals, and some bears will

probably find something to eat, but the number of bears we currently have in the Arctic definitely cannot be sustained on land," Regehr said.

That made the image of hundreds of bears around the whale carcass both impressive and concerning, he said.

"There is evidence that it foreshadows the future: larger numbers spending more time on the island and ultimately less time on the sea ice with fewer prey, with a negative cascade of effects."

Moving walruses

One effect is the increasing chance of conflict between polar bears and humans, for example in native Chukchi settlements, all of which are located on the coast.

Since mid-October, polar bears have been coming dangerously close to a Chukotka village called Ryrkaipy, which is located near Kozhevnikov Cape, an important site for walrus gatherings, or haulouts, that lies about 200 kilometres (about 124 miles) south of Wrangel Island.

With changing ice conditions, walruses can be forced to come ashore in steep unsuitable areas.

This year, hundreds died as the huge animals crushed one another, possibly after being disturbed by a predator, said Viktor Nikiforov, a polar bear specialist and coordinator of Marine Mammals expert centre.

The problem is that some walrus corpses then floated to the village, attracting [polar bears](#). "One bear broke the window of a house," Nikiforov said.

The village went on high alert, forbade children to walk to school and

cancelled some public events, reports said.

Nikiforov said scientists and locals used bulldozers to move walrus corpses away from the village. He echoed concerns that bears spend more time ashore as the ice-free period becomes longer.

"The concentration of people and animals in one area increases and there is conflict," he said.

"We cannot stop [climate change](#), but we can sort out the situation on the shore and make life easier for the bears," he said, referring to measures such as bear patrols to minimise conflict with humans.

"With changes in nature, that has to be attended to."

© 2017 AFP

Citation: Polar bears crowd on Russian island in sign of Arctic change (2017, November 23)
retrieved 21 September 2024 from

<https://phys.org/news/2017-11-polar-crowd-russian-island-arctic.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--