Marvel at the northern lights and wondrous Arctic landscapes as an intrepid photojournalist meets a group of space weather scientists at work



/ words & photos Louise Murray



thousand kilometres from the North Pole lies an archipelago where polar bears outnumber people. Svalbard, Norway is mountainous and its

home to a distinct subspecies of reindeer, the 24-hour midnight sun during the summer months (from late April to late August). It is also one of the best places on the planet to study the northern lights - eerily beautiful manifestations of the impact of space weather on Earth. Recently, I met scientists from the Birkeland Centre for Space Science in Svalbard to learn how colossal storms on the sun can affect us and our technology back on Earth, including massive power outages, GPS errors, and radiation danger to astronauts and pilots. Our increasing global dependence on technology means that accurate forecasting of space weather is ever more important. I also experienced some of the sights and tastes of this surprisingly accessible place, driving a snowmobile through spectacular landscapes, meeting sled dogs and eating the best that the islands can provide, from smoked reindeer heart soup to fresh wild mushrooms.

Below	Right, top
At the edge of the	A husky dog sled
Longyearbyen	operation - this
settlement, signs	is Lotte, who is
warn visitors	having a rest day.
of the danger	You can learn to
of polar bears,	drive a dog team
about 3,000	all year round.
of which make	
Svalbard home.	
of the danger of polar bears, about 3,000 of which make	You can learn to drive a dog team

Relow

Right, centre A gourmet evening of Arctic delicacies at a having a rest day. remote cabin just outside of Longyearbyen, the largest settlement of Svalbard.

Right, bottom The EISCAT facility in Svalbard. These receiving radar dishes are part of the European incoherent scatter (EISCAT) facility radar

system. EISCAT studies the interaction between solar winds and magnetic fields of the Earth's upper atmosphere and ionosphere.





BEYOND THIS POINT IT IS A REQUIREMENT TO CARRY FIREARMS AND ANTI-BEAR DEVICES AS POLAR BEARS OUTNUMBER PEOPLE ON THESE REMOTE ISLANDS.

A cross between a motorbike and a sledge, snowmobiles or skidoos are the best way to explore the snowy landscapes of Svalbard.



FIVE COOL THINGS TO DO IN SPITSBERGEN IN THE SUMMER

1. GLACIER SAFARI

Travel by boat to the front of the Von Post glacier where it touches the water and hear the "snap, crackle and pop" of thousands of-years-old air bubbles as they escape the melting ice. Perhaps collect a little ancient ice to take back to have in your whisky later.

2. BIRD WATCHING

Every spring, millions of migratory birds head north to have their chicks here in Svalbard where the rich seas provide excellent food for their young. They use the same sea cliffs to nest a short distance from Longyearbyen. If you're lucky, you will spot the Arctic foxes that den nearby to eat fallen chicks and eggs.

3. FOSSIL COLLECTING

About 150 million years ago, Svalbard was at the bottom of an ancient sea. Hike 200 metres above sea level after a boat ride along the Isfjorden and hunt for your own fossils.

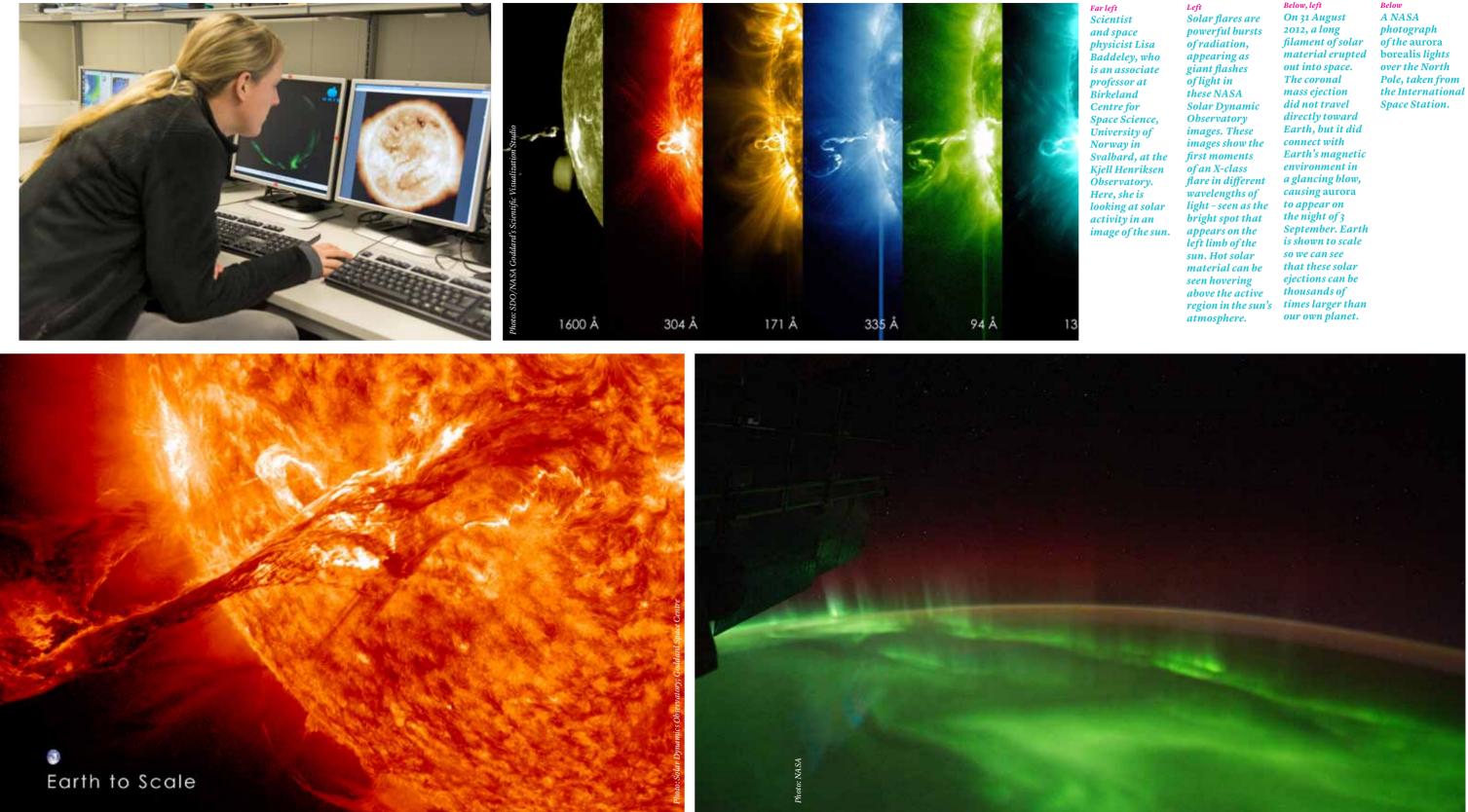
. DOG SLEDDING

Enjoy the beautiful mountain landscapes while driving your own dog team, pulling specially modified sledges with wheels in the summer.

. KAYAKING

Go paddling amongst ice floes on Adventfjorden while watching out for friendly seals.

Spitsbergen Travel is Svalbard's most experienced tour operator. Book all these and more at *spitsbergentravel.com*



Below, left

Below

Right Far right Grazing Interviewing scientists Lisa Svalbard reindeer. In Baddeley (left) and professor Dag winter, they Arne Lorentzen of must use their University Centre hooves to break in Svalbard at the snow and dig for the nutritious Kjell Henriksen lichens and **Observatory**. grass below. At 520 metres altitude on the island of Spitsbergen, 1,000 kilometres from the North Pole, it is considered one of the world's foremost aurora observatories.

Below The starkly beautiful, empty landscape of snow-covered mountains and fjords near Barentsburg, the second largest settlement on Svalbard with 500, mostly Russian, mining inhabitants.



THE STARKLY BEAUTIFUL, SNOW-COVERED LANDSCAPE IS THE HIGHLIGHT OF A B-HOUR SNOWMOBILE DRIVE.





About the photographer

Louise Murray is an award-winning freelance photojournalist. For over twenty years, her photographs featuring the natural world – highlighting wildlife conservation, marine and polar issues – have been published around the world. She loves working in the cold and has travelled north to Russia, Svalbard, Greenland and Nunavut, and south to Antarctica for stories. View more of her work at louisemurray.com

Svalbard can be reached by direct flight from Oslo in about four hours. THAI operates five flights weekly to Oslo. For more information, visit www.thaiairways.com.