

Giant metallic 'steed' traverses Iceland's threatened glacier

October 29 2020, by Jeremie Richard



The glacier mega bus is named Sleipnir after the mythical eight-legged horse ridden by the Norse god Odin

Instead of a slow slog on snowshoes, a giant bus sweeps passengers at up to 60 kilometres an hour across Iceland's second largest glacier, which

scientists predict will likely be nearly gone by the end of the century.

The red glacier mega bus is 15 metres (50-foot) long and fitted with massive tyres for traction across the powder snow of western Iceland's vast Langjokull ice cap.

The glacier formed around 2,500 years ago and, with melting and refreezing, glaciologists believe the oldest ice of the glacier to be 500 years old.

From its highest point, at about 1,450 metres, the spectacular view takes in other snow covered peaks, including the Okjokull, the country's first glacier officially lost to climate change in 2014.

With its 850 horsepower engine, the tour bus—resembling something out of a science-fiction movie—smoothly traverses the icy terrain on eight wheels, each two metres in diameter.

It has been named "Sleipnir" after the mythical eight-legged horse ridden by the Norse god Odin.

As strong winds whip up the fresh snow on an October day, the bus—created by keen mechanic Astvaldur Oskarsson, 59, who runs a specialised storage company—climbs higher to emerge from the low cloud into bright blue skies.

An Italian couple are among the few travellers to have braved the double COVID-19 test and five-day quarantine required on arrival in Iceland.



The bus is 15 metres (50-foot) long and fitted with eight wheels, each two metres in diameter

"It feels really emotional. Touching something that is so old, you feel so in contact with the earth," Italian Rossella Greco, 30, tells AFP, of the tour, which costs 10,000 kronur (about 60 euros or \$71).

The bus' dimensions allow it to cross crevasses three metres wide, though also mean it guzzles 45 litres (12 gallons) of petrol per 100 km and leaves deep tracks in the snow.

However, the impact on the glacier "is small as long as it is just one or two vehicles," according to Thorsteinn Thorsteinsson, a glaciologist at the Icelandic Meteorological Office.

Endangered

Along the path climbing from the foot of the Langjokull glacier, signs have been erected showing the ice line of every 20 years since 1940—a reminder of how quickly the glacier is thinning.

Nearly 250 square kilometres (97 square miles) of surface area have evaporated since 1890 and the end of the Little Ice Age.



The glacier bus was created by Astvaldur Oskarsson, 59 (pictured)

"The elevation of the glacier is getting lower in many, many places,"

Gunnar Gudjonsson, a tour guide of 20 years, told AFP.

"So it's actually new mountains or new nunataks (the ridge or summit of a mountain protruding from an ice field) coming out of the glaciers," he added.

"It's incredible how fast it is melting."

In August, the dam of a glacial lake, formed by melt water, broke, causing flooding.

"It was not a major event but it happened in a region where we are not used to such phenomena," Thorsteinsson said.

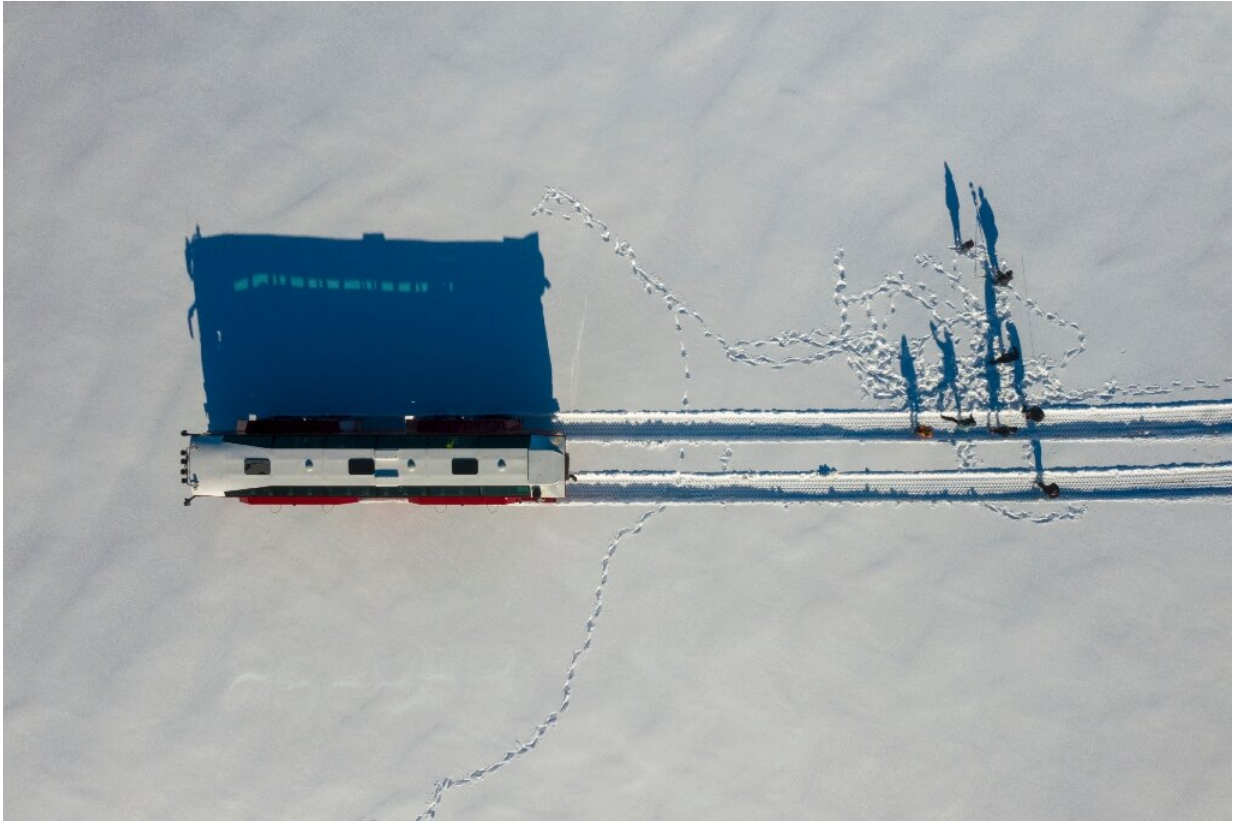
Powerful floods called jokulhaup are normal around the Vatnajokull glacier, the biggest in Iceland and also in Europe.

These however are generally due to volcanic activity.

But floods are bound to occur more regularly on glaciers elsewhere in Iceland, as global warming accelerates the melting.



Langjokull glacier, Iceland's second largest, is expected to have all but disappeared by the end of the century, according to scientists



Because of its size, the bus can traverse crevasses three metres wide



Langjokull glacier formed around 2,500 years ago

Langjokull's chances of survival are slim, Thorsteinsson warned.

"If this continues in a similar way or even in a still warmer climate, then it's very likely that all of Langjokull, or maybe 80 to 90 percent of it, will be gone by the end of this century," he said.

© 2020 AFP

Citation: Giant metallic 'steed' traverses Iceland's threatened glacier (2020, October 29) retrieved 20 April 2024 from <https://phys.org/news/2020-10-giant-metallic-steed-traverses-iceland.html>

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.