

# Video: What does a warming Arctic mean for the future?

February 16 2024

---



Credit: Unsplash/CC0 Public Domain

The Arctic is experiencing disproportionately higher temperature increases compared to the rest of the planet, triggering a series of cascading effects. This rapid warming has profound implications for

global climate patterns, human populations and wildlife.

The Copernicus Imaging Microwave Radiometer mission (CIMR) will provide [measurements](#) to decision makers with evidence of change and impact in the [polar regions](#)—with a focus on the Arctic.

The mission has the largest radiometer developed by ESA and will provide high-resolution measurements related to sea ice, the ocean, snow and ice-sheet surfaces. This will be crucial in understanding the evolution of the climate in the polar region.

CIMR is one of six Copernicus Sentinel Expansion missions that ESA is developing on behalf of the EU. The missions will expand the current capabilities of the Copernicus Space Component—the world's biggest supplier of Earth observation data.

Provided by European Space Agency

Citation: Video: What does a warming Arctic mean for the future? (2024, February 16) retrieved 28 April 2024 from <https://phys.org/news/2024-02-video-arctic-future.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.