

# Global warming may be triggering toxic algae blooms along U.S. west coast

January 5 2021

---



(HealthDay)—New toxic algal blooms have appeared on the U.S. west

coast due to an ocean heat wave, a new study finds.

The researchers said that climate change is increasing the frequency of highly toxic algal blooms in this area.

These algae produce a neurotoxin called [domoic acid](#) that causes severe and potentially lethal digestive and neurological symptoms, and is a threat to marine wildlife and humans.

"This study shows that climate change can influence the occurrence and intensity of some harmful algal blooms [HABs] by creating new seed beds for their survival and distribution," said Dr. Vera Trainer, of the U.S. National Oceanic and Atmospheric Administration, in Seattle.

"Coastal communities, including Native Tribes, will suffer from the effects of HABs more frequently in the future, illustrating the importance of early warning systems such as Harmful Algal Bloom Bulletins that are becoming operational in the U.S. and other parts of the world," Trainer explained.

The report was published online recently in the journal *Frontiers in Climate*.

In 2015, a severe [heat wave](#) in the northeast Pacific Ocean caused a record-breaking *Pseudo-nitzschia* bloom that halted the shellfish harvest and killed many marine mammals.

As a result, one region has become a toxic hotspot that has prevented shellfish harvest since that heat wave. Data has also shown that the 2013-2015 heat wave was five times more likely to have been man-made. Models also predict that marine heat waves are 20 times more likely to happen than they would have been without [climate change](#).

"There is evidence that bacteria associated with seagrasses have algicidal properties, indicating that seagrass planting may be used to successfully control some HABs in Puget Sound," Trainer said in a journal news release.

"But for large-scale marine HABs, [early warning](#) is our [best defense](#) and these HAB Bulletins will help preserve a way of life that includes wild shellfish harvest, on which coastal people depend," she concluded.

**More information:** For more on global warming, head to [NASA](#).

Copyright © 2020 [HealthDay](#). All rights reserved.

Citation: Global warming may be triggering toxic algae blooms along U.S. west coast (2021, January 5) retrieved 18 April 2024 from <https://medicalxpress.com/news/2021-01-global-triggering-toxic-algae-blooms.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>
--