

PERMAFROST QUICK FACTS

permafrost.woodwellclimate.org

80%

of land in Alaska is underlain by permafrost (i.e. frozen ground).

7%

of near-surface permafrost has been lost in the past 30 years.

77%

of near-surface permafrost may be lost by 2100 under the highest emissions scenarios.

144+

Alaska Native communities are environmentally threatened by permafrost thaw, flooding, and/or erosion.

4.3 **BILLION**

dollars invested over the next 50 years will help protect Alaskan infrastructure from environmental threats.

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1.4 **TRILLION**

tons of organic carbon is stored in permafrost soils (2x the amount in Earth's atmosphere).

2 **OUT OF 11**

climate models featured in the latest IPCC report included carbon emissions from permafrost thaw.

22%

of our remaining carbon budget could be taken up by permafrost emissions under a 2°C warming scenario.

1/2

of the average annual U.S. fire CO₂ emissions are from wildfires in Alaska.

~21 **THOUSAND**

premature deaths each year from 2001-2020 can be attributed to Arctic wildfire smoke exposure.