

The Arctic in 2020 is in crisis:

- This year is only the second year in our modern data records that the sea ice has dropped below 4 million sq-km
- Long-term trend in Arctic sea ice loss is linearly related to cumulative CO2 emissions and global temperature
- Global emissions in 2019 translate to 100,000 sq-km of sea ice loss
- The Arctic experienced the highest temperatures ever recorded in July
- Arctic wildfires released a never before seen amount of emissions
- Collapse of Canada's last intact, 4000-year-old ice shelf



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Loss of Arctic sea ice and snow is a threat multiplier:

- The Earth is darker now, absorbing more solar energy, exacerbating global warming by 25%-40%
- Rapid Arctic warming accelerates the loss of land ice (glaciers and ice sheets), increasing the pace of sea-level rise
- Additional warming accelerates the thaw of permafrost, releasing yet more heat-trapping gases
- Disproportionate Arctic warming disrupts weather patterns around the northern hemisphere, leading to more extreme weather events

Economic Research:

- Arctic change is expensive for the rest of the world. Study estimates the loss of Arctic ice and permafrost will cost >\$66 trillion (discounted net present value).

Sounding the Arctic Alarm has 4 parts:

1. Put scientists - and the latest science - at the heart of decision-making moments like the UN GA High level climate summit
2. Urge governments to 'unite behind the science' and commit to ambitious NDCs for COP26 and make their COVID economic recovery plans 1.5C compliant.
3. Urge CEOs and investors to 'unite behind the science' and commit to making science-based targets that ensure a 1.5C trajectory.
4. Urge people everywhere to keep their governments and businesses accountable.