Twitter Thread by Ben See

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The forests of Russia, Mongolia, Canada, Scandinavia and the US will experience unprecedented destructive heat by 2029 with staggering consequences for life on Earth.

Feedback loops created by permafrost melt & wildfire destruction represent just a few of the terrifying effects of climate change on boreal forest ecosystems, which are particularly at risk to rising temperatures. ■■■

https://t.co/zZNKrRnqoZ

Massive wildfires are already here.

More forest fires are burning in the Arctic in recent years than any time in the last 10,000 years.

■these massive arctic fires are showing worrying signs of becoming a vicious cycle ■

https://t.co/2qZl36tEBE

Wildfire-related carbon releases from permafrost regions will quadruple within decades. https://t.co/81J72y0GGT

Arctic wildfires, impacted by global warming, are in turn contributing to more climate breakdown.

■An increase in boreal & tundra fires in the future will enhance permafrost thawing. ■

https://t.co/sNh9NOp836

■the Northern Hemisphere’s frozen soils and peatlands hold about 1,700 billion tonnes of carbon—four times more than humans have emitted since the industrial revolution

■5% of Mongolia’s permafrost thawed completely between 1971 and 2015.

Worse to come.https://t.co/cTtsmk1FJu

Wildfires in northern Russia, Alaska, Greenland and Canada released a record 50 megatons of CO2 in June 2019 — equivalent to Sweden’s total annual emissions and more than the past eight Junes combined — and 79 megatons in July (NASA).

Now, imagine 2029. ■https://t.co/mbxaCcL7g1

https://t.co/FCwXAQflhW

> It's not just heat, of course:
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> Logging, oil, gas & mining companies are destroying parts of Canada\u2019s intact, old-growth forests.

Over 1 million acres cleared each year, plowing roads through ancestral hunting grounds, jeopardizing animal migratory routes.https://t.co/qZO7RTdCeC

— Ben See (@ClimateBen) October 5, 2019