

Twitter Thread by Ben See

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Warming

- * **Ecosystems severely damaged at +1C**
- * **Abrupt extinction events from +1.25C**
- * **Planet's liveability at risk by +1.5C**
- * **Global crop failure fears +1.75C**
- * **Impacts we can't adapt to +2C**
- * **Hothouse Earth zone? +2.25C**
- * **Survival is hard before +2.5C**

+2.5C likely by 2050-2075

Ocean extinctions:

'The first completely global bleaching event was in 1998. That was a wake-up call for people here in Australia, because that was the first time ever that the Great Barrier Reef had bleached.'

99% of tropical corals will be doomed at 2C.<https://t.co/8OB7KpPFEU>

Many already endangered species are now at risk of suddenly becoming extinct as extreme events worsen.

<https://t.co/ltlnp7z8Hy>

'going past 1.5C is dicing with the planet's liveability. And the 1.5C temperature "guard rail" could be exceeded in just 12 years, in 2030.'

Or even in the 2020s.

<https://t.co/FQ3r5jWPtn>

'Even if warming was limited to 1.5 K, all major producing countries would still face notable warming-induced yield reduction.'

1.5C looks like it could deliver major crises. Risks to crops appear set to grow immensely from +1.75C.

<https://t.co/rya17ID5eq>

'There's a lot we can't adapt to even at 2C. At 4C the impacts are very high and we cannot adapt to them.'<https://t.co/raYr1X8o33>

'when we reach 2 degrees of warming, we may be at a point where we hand over the control mechanism to Planet Earth herself'

<https://t.co/5slG7F3Kjz>

'Vague, distant targets for 2030 or 2050 will not keep the world “well below 2C” of warming as the Paris Agreement promised. I can tell you, a 2C hotter world is a death sentence for countries like mine.'

<https://t.co/pQAavJB6vs>

We need emergency system change now.

Richard Alley, geoscientist at Pennsylvania State University and contributor to multiple IPCC reports:

at 2°C “you are having impacts on most people, impacts on the market, that make it hard for everyone to live.”<https://t.co/pLA4CwrCg7>

'An estimated 5% of all species would be threatened with extinction by 2°C of warming above pre-industrial levels'.

We're currently on track for 2C by 2034-2043.

<https://t.co/PGIUXnEE2Q>

<https://t.co/CIAllcuxcC>

'Scientists estimate that by mid-century, as many as 30 to 50 percent of all species could face extinction.'<https://t.co/Q2mUUdK43B>

— Ben See (@ClimateBen) [December 21, 2020](#)