

Too Much Carbon in the Atmosphere



**To enjoy and protect: Northern Cardinal at 107 Canaan, Kentville
taken November 2021**

We must acknowledge that our activities take place in Mi'kma'ki, the traditional, ancestral and unceded territory of the Mi'kmag People. This territory is covered by the "Treaties of Peace and Friendship" which did not deal with the surrender of the lands and the resources but in fact recognized Mi'kmaw title. We want to recognize that outdoor education and play would not be possible without access to the natural world that has been stewarded since time immemorial by the many indigenous peoples of this land. We acknowledge that we have a responsibility to honour and learn about their histories and current cultures and to actively work in support of reconciliation. We are committed to fostering respectful and sustainable relationships with the Indigenous Peoples of this land, all living things, the earth, the air and the water within. From Land Acknowledgement, Blomidon Naturalists Society, website.

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BRITISH COLUMBIA HEAT WAVE: In summer 2021, 808 people died from the record breaking heat wave in BC. The so called “heat dome” with temperatures exceeding 40C lasted for most of June and July. Most deaths were older people but all age groups were effected. Experts say that this heat wave would have been virtually impossible without climate change. June 2021 temperature in Lytton reached 49.6C. Expect more extreme heat waves: a part of British Columbia’s future.

Vancouver Sun

KUWAIT’S UNBEARABLE HEAT: The middle east is warming faster than much of the world. Life at 50C in Kuwait is unbearable and this is a country that gets 100% of its energy from fossil fuel. Since 2016, temperatures have rapidly increased and 50C plus days are more frequent, and more of the country is becoming desert. How much longer can we consider Kuwait habitable? Spoken by a young mother with two young children, children that know nothing other than extreme heat outside and living inside with Air Conditioning.

BBC News, October 2021

ALASKA’S SHISHMAREF ISLAND: The village of Shishmaref, home to some 600 people in Alaska, just north of the Bering Strait, will have to be relocated. Rising temperature over the last decade and more have caused permafrost thawing, and rapid coastal erosion. Sea ice that would normally protect the coast forms later in the fall and the constant waves cut the shore back. Homes have been lost and the erosion is close to the airport runway. The Corps of Engineers has build an impressive rock barrier; however this will soon be breached. And sea level rise contributes. Global note from Shishmaref: every community or city that’s on a coast needs to know what is going on here (Shishmaref). Ultimately the same will happen in California, New York and Louisiana.

BBC News, November 2021

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Caroline Beddoe

November 2 at 11:21 AM · 🌐

I spoke to Bill 57: Environmental Goals and Climate Change Reduction Act, yesterday. We called for stronger emission targets, shorter timelines and accountability measures. I also spoke about the urgency of the climate emergency and how we must make policies as if lives are on the line - because they are.

If you care to listen about why we feel Bill 57 must be stronger... Grateful and honoured to speak as a youth and a representative of many others.

So many passionate and heartfelt speeches and written submissions yesterday! We need stronger policy - that was overwhelmingly clear.

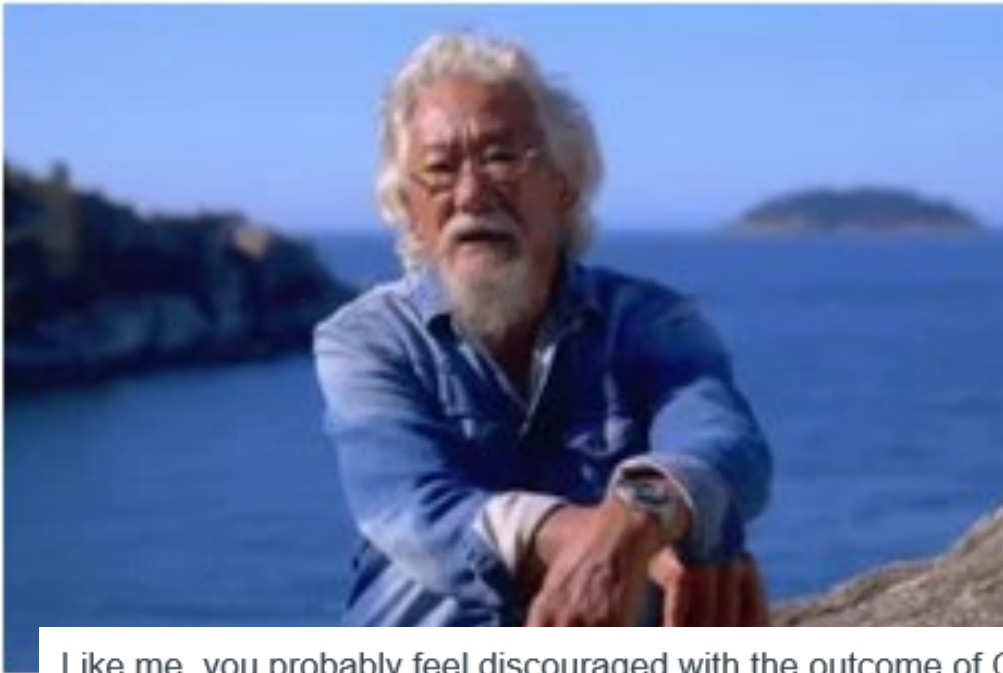
👍❤️ 138

27 Comments 15 Shares

<https://www.facebook.com/caroline.beddoe.5/videos/248440917263016/UzpfSTUwNTA4MjgxNjl1Mjc5MTo0NTE1OTY3MTYxODMwOTgz/>

Caroline Beddoe, coordinator Blomidon Naturalists Society, presented to the Nova Scotia government committee re BILL NO.57. a clear, concise and powerful information message (see above) from a young individual. It is a message that can only come from a person unincumbered with the “normal” and truthfully understands the path that we must follow if we wish to survive a difficult future. Follow the link above for the presentation.

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**David Suzuki,
Canada's preemi-
nent and long-
time activist to
reverse climate
change**

Like me, you probably feel discouraged with the outcome of COP26. How can world leaders act with restraint when transformational change is needed to confront the climate emergency?

Don't give up hope.

We'll continue to work with you to make sure that, as our representatives return to Parliament next week, they know we'll hold them to their promises and commitments.

It's not enough to deliver bold words on the international stage if you don't deliver a true change in direction away from a fossil fuel-dominated economy at home.

Raise climate ambition at home with Art for Climate Justice

Canada must unite with leading countries in the managed decline of fossil fuels. It needs to:

- Work quickly to update the climate plan
- Cap and decrease oil and gas emissions
- Deliver on the commitment to end public finance for oil and gas subsidies abroad by 2022
- Sign on to the Beyond Oil and Gas Alliance
- Introduce just transition legislation without delay

While there's a lot to criticize about COP26 and its inability to deliver transformative change, we know that when we raise our voices together, we're heard.

Let's take the momentum from COP26 and build on it to create the healthy, safe and community-centred solutions we want.

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David Suzuki continues:

Civil society to keep Canada accountable at home

VANCOUVER | TRADITIONAL, UNCEDED TERRITORIES OF THE xʷməθkʷəy̓əm (MUSQUEAM), Sḵwxwú7mesh (SQUAMISH) AND səliłwətał (TSLEIL-WAUTUTH) FIRST NATIONS — With COP26 officially over, there's little transformational action to celebrate, and much follow-up needed on delivering climate promises as Parliament reconvenes next week. David Suzuki Foundation climate director Sabaa Khan released the following statement:

"The Paris Agreement continued to evolve as intended. Its legal architecture is based on non-enforceable voluntary commitments, where opportunities to ratchet up ambition must be based on the latest climate science. While international co-operation on climate change is critical, this voluntary and flexible mechanism is clearly not enough to deliver results in line with what the climate emergency requires. The Paris Agreement alone does not compel states to address the root causes of the climate crisis. Humanity's survival depends on a moratorium on all oil and gas production.

"The persistent shortfall in global climate financing was an epic fail for climate justice. The most vulnerable countries saw little delivery on calls for adequate financing or recognition of international Indigenous rights. Divisions among rich and poor countries and civil society and corporate interests increased, worsening the situation for those losing their lives, homes and livelihoods to climate change impacts.

"The ability to limit heating to 1.5 C was left on life support and commitments to limit fossil subsidies were watered down, contradicting what the Intergovernmental Panel on Climate Change special 'code red' report and the International Energy Agency say is required according to science. But it's a hopeful sign that many countries signed on to efforts to reduce or eliminate their methane emissions, fossil fuel production and fossil fuel subsidies abroad.

"We'll be holding Canada accountable to use the momentum from this conference to fulfil its commitments back home. Canada must work quickly to update its climate plan, cap and ratchet down oil and gas emissions, and develop a plan for a managed production decline. To confirm a true change in direction, Canada must sign on to the Beyond Oil and Gas Alliance and deliver on the commitment to end public finance for oil and gas subsidies abroad by 2022. Canada must also bring in just transition legislation without delay.

"While there's a lot to criticize, we've also seen the power of civil society to stimulate change. We'll continue to call for more climate ambition next year when countries meet once again."

Follow the environmental action work of the DAVID SUZUKI FOUNDATION on their website. Better yet become a member and a doner.

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(L) United Nations Secretary General Antonio Guterres speaks during an plenary session at the COP26 UN Climate Change Conference in Glasgow on November 11, 2021. (R) Swedish climate activist Greta Thunberg speaks to the crowd in George Square the end point for the Fridays For Future rally in Glasgow, Scotland on November 5, 2021. (Paul Ellis/AFP)

PARIS, France — UN Secretary General Antonio Guterres warned Saturday of an impending “climate catastrophe,” while environmental campaigner Greta Thunberg dismissed Saturday’s COP26 climate conference deal as “blah, blah, blah.”

Guterres acknowledged the shortcomings of the agreement, in a statement following the deal reached on Saturday evening at the Glasgow conference.

“The #COP26 outcome is a compromise, reflecting the interests, contradictions and state of political will in the world today,” he tweeted. “It’s an important step, but it’s not enough.”

“Our fragile planet is hanging by a thread,” he warned, adding “we are still knocking on the door of climate catastrophe.”

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Thunberg, arguably the world's best-known environmental campaigner, was more blunt in her assessment.

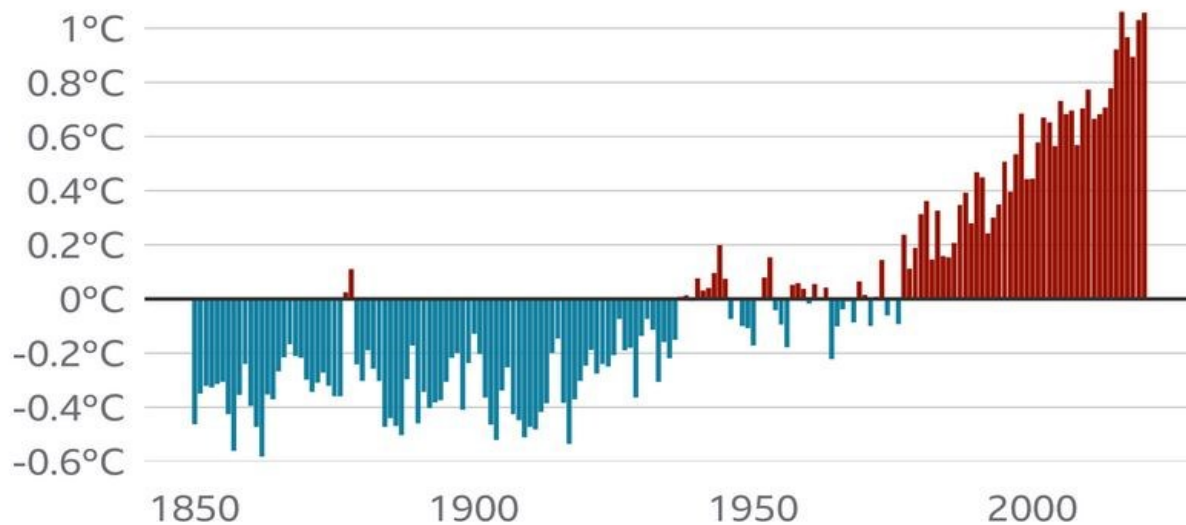
“The #COP26 is over,” she tweeted. “Here’s a brief summary: Blah, blah, blah. But the real work continues outside these halls. And we will never give up, ever.”

During the conference, Thunberg and other activists had denounced the way it was playing out, arguing that world leaders had failed to match their words with real action.

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The world is getting warmer

Annual mean land and ocean temperature above or below average, 1850 to 2020



Note: Average calculated from 1951 to 1980 data

Source: University of California Berkeley

BBC

Temperature rises must slow down if we want to avoid the worst consequences of climate change, scientists say. They say global warming needs to be **kept to 1.5C by 2100**.

However, unless further action is taken, **the planet could still warm by more than 2C** by the end of this century.

If nothing is done, **scientists think global warming could exceed 4C**, leading to devastating heatwaves, millions losing their homes to rising sea levels and irreversible loss of plant and animal species.

As the years have rolled by from the graph above and projected :

- A. Warming from 1980 to 2000 0.6 C
- B. Total warming to 2020 1.1 C
- C. Total warming to 2030 1.5 C projected with exponential increase starting in 2010

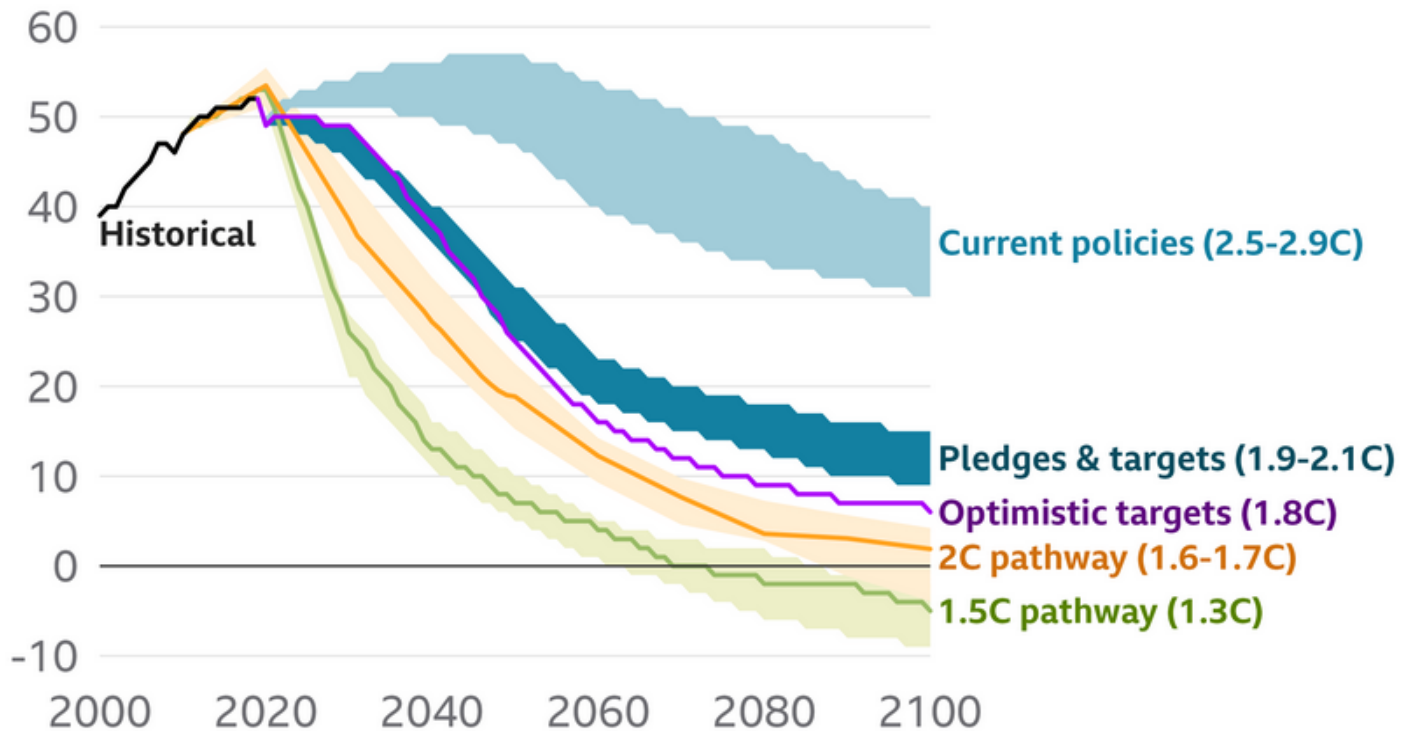
The graph illustrates the world temperature rise through early identification, through promises to mediate, through no or very little action to fix. Now temperature rise is increasing out of control and causing very serious repercussions (high temperature events) around planet earth. Mull over this historical graph and plot your future temperature estimates.

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Climate Action Tracker blames "stalled momentum" from governments for limited progress towards cutting greenhouse gas emissions by 2030.

How the world is projected to warm by 2100

Past and projected emissions in gigatonnes of carbon dioxide



Source: Climate Action Tracker

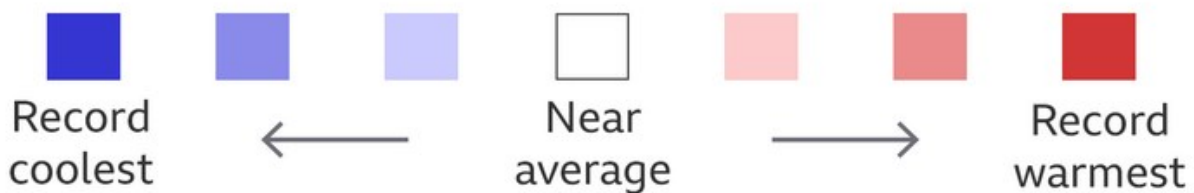
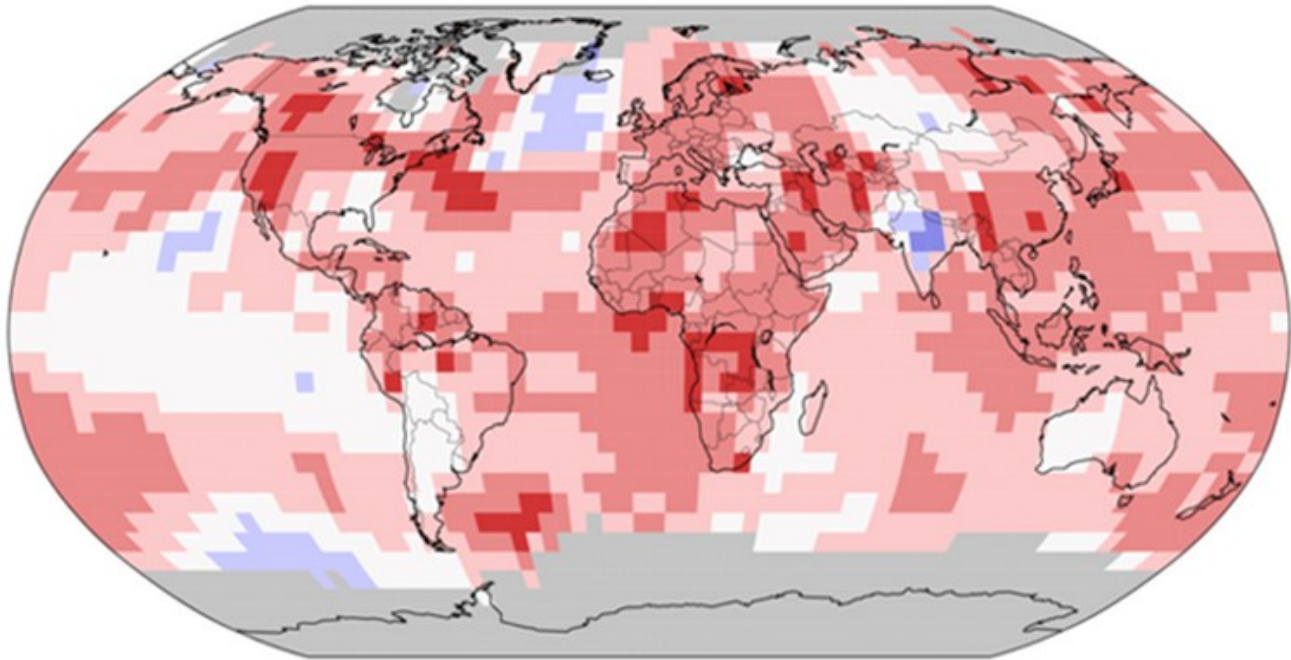
BBC

It says new promises by the US and China to reach net zero have slightly improved its forecasting on temperature rises. But it concludes that the quality of most government's plans to limit climate change is very low.

This graph shows the gigatonnes of carbon dioxide injected into the atmosphere each year. Project the historical black line a few years forward to allow for the promises made in COP26 to be converted into action and note where the plus temperatures will strike by 2100. Quote from above " *quality of most government's plans to limit climate is very low*". Mull this graph over carefully for your own estimate. Careful evaluation by knowledgeable groups expect an average of 4C to be exceeded by 2100

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High temperatures recorded in June 2021



Source: US National Oceanic and Atmospheric Administration (NOAA)

BBC

Another graph to mull over and to extract important temperature information. Many parts of the globe with population densities are located in the “record warmest” areas with associated heat stress and deaths. And the global temperature rise now is said to be just over 1 C. These areas cannot take much more, and are struggling with ways to cool. The future; grim. Note the “record warmest” in British Columbia, the cooling of the Gulf Stream (very serious implications here) and not shown are certain Arctic areas that have all ready reached an average of plus 4 C.



**Trees
Capture
Carbon:
Every
living tree
provides many
benefits
year after year
after year but
only if left
STANDING**

A stand of trees can be anywhere, habitat for the animals, the birds and the bees and all life within. This representative stand has a mature red spruce, a mother tree about 60 cm in diameter, estimated to be about 150 years old with many small red spruce around the base. The tree with the slight lean is a sugar maple and in the foreground a nice young beech in fall colour.

Material from published sources as indicated. My “mulling” in red; plus a bit of nature, so important, so beneficial, and under so much stress every where. Ed Sulis November 2021