



**City of Hamilton**  
**Agriculture and Rural Affairs**  
**Advisory Committee ADDENDUM**

**Meeting #:** 19-001  
**Date:** March 18, 2019  
**Time:** 7:00 p.m.  
**Location:** Rooms A & B, Ancaster Fairgrounds  
630 Trinity Road  
Ancaster

Alicia Davenport, Legislative Coordinator (905) 546-2424 ext. 2729

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|   | <b>Pages</b> |
|---|--------------|
| <b>5. COMMUNICATIONS</b>  |              |
| *5.2 Correspondence from John Hawker respecting Committee Interests of the Agriculture & Rural Affairs Advisory Committee and the Hamilton Farmers' Market Board                      | <b>3</b>     |
| Recommendation: For Committee's consideration.  |              |
| <b>6. DELEGATION REQUESTS</b>   |              |
| *6.1 Ian Graham, National Farmers Union Ontario Local 351, respecting Recommendations to Address Climate Change as it is an Emergency and of Concern to Farmers (for today's meeting) | <b>5</b>     |
| *6.1.a Added Presentation   | <b>7</b>     |



**From:** John Hawker  
**To:** [Davenport, Alicia](#)  
**Subject:** Committee Interests of Ag & Rural Affairs and Hamilton Farmers" Market  
**Date:** March 18, 2019 1:29:10 PM

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ALICIA:

To clarify ...

I was not proposing that the Ag/Rural Affairs Committee open its formal or "associated" membership to rep for Farmers' Market.

I was suggesting a single visit, as soon as reasonable, by either to the other (eventually return visit with answers/comments).

Such meets - "what we're each doing that we might do better together - for committees, city, public - perhaps scheduled for semi-annual or annual. Would appreciate your Committee's thinking.

JOHN



## Added Item 6.1

### Form: Request to Speak to Committee of Council

Submitted on Friday, March 15, 2019 - 12:27 pm

==Committee Requested==

**Committee:** Advisory/Sub-Committee

**Name of Sub-Committee:** Agriculture and Rural Affairs

==Requestor Information==

**Name of Individual:** Ian Graham

**Name of Organization:** National Farmers Union Ontario  
Local 351

**Contact Number:** 905 537 0163

**Email Address:** [ianagraham@rogers.com](mailto:ianagraham@rogers.com)

**Mailing Address:**

1580 Old Hwy 99,  
Dundas ON L9H 5E3

**Reason(s) for delegation request:**

Present suggestions and rationale for the ARA cttee to recommend action that climate change is an emergency and of concern to farmers. I would like to present a few slides if digital projector is available.

Thank you for your consideration.

**Will you be requesting funds from the City?** No

**Will you be submitting a formal presentation?** Yes



# *Climate Emergency*

## *Here Now, Now What?*

### Farm Challenges...?

Extreme Weather  
Delayed Harvests  
Flooding

### Planning for...?

Hotter Summers  
Colder Winters  
More Pest

Langford Schoolhouse NFU Meeting, Mar 15

Cosponsored by NFU Oand Extinction Rebellion



**National Farmers Union –  
Ontario  
Climate Change Campaign**



# Climate Emergency

Here Now.  
Now What?



March 15, 2019

6:30PM- 9:00PM

The Langford Schoolhouse

1694 Colborne St E, Brantford, ON N3T 5M1

Do your farm challenges include extreme weather events? Flooding and delayed harvests?

Do your farm plans include hotter summers, colder winters, more pests?

We want to hear from you and help you get up to speed on climate action.



This event includes a **potluck at 6:30**, main dish provided.

NFU member **Ian Graham** on Climate Emergency science and grassroots action.

**Arlic McBay** on the Climate Change Action for Farmers.

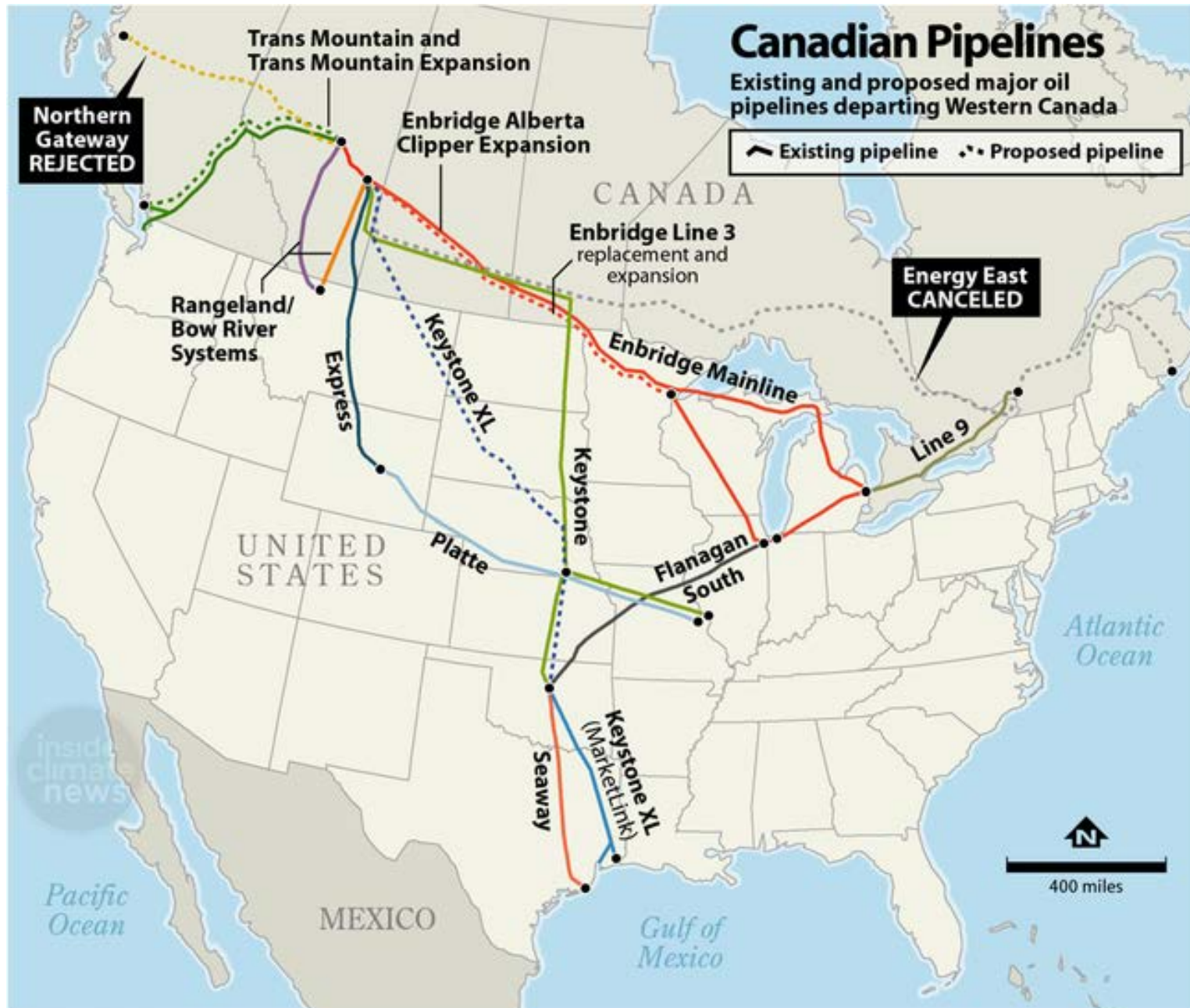
# Heading for Extinction & What To Do About It



**extinction**  
**rebellion**

The News tonite could be  
Like this.





**“Climate change is now reaching the end game... the issue is the very survival of our civilisation.”**

~ Prof. Hans Joachim Schellnhuber, for twenty years the Head of the Potsdam Institute for Climate Impact Research, senior advisor to Pope Francis, German Chancellor Angela Merkel and the European Union.



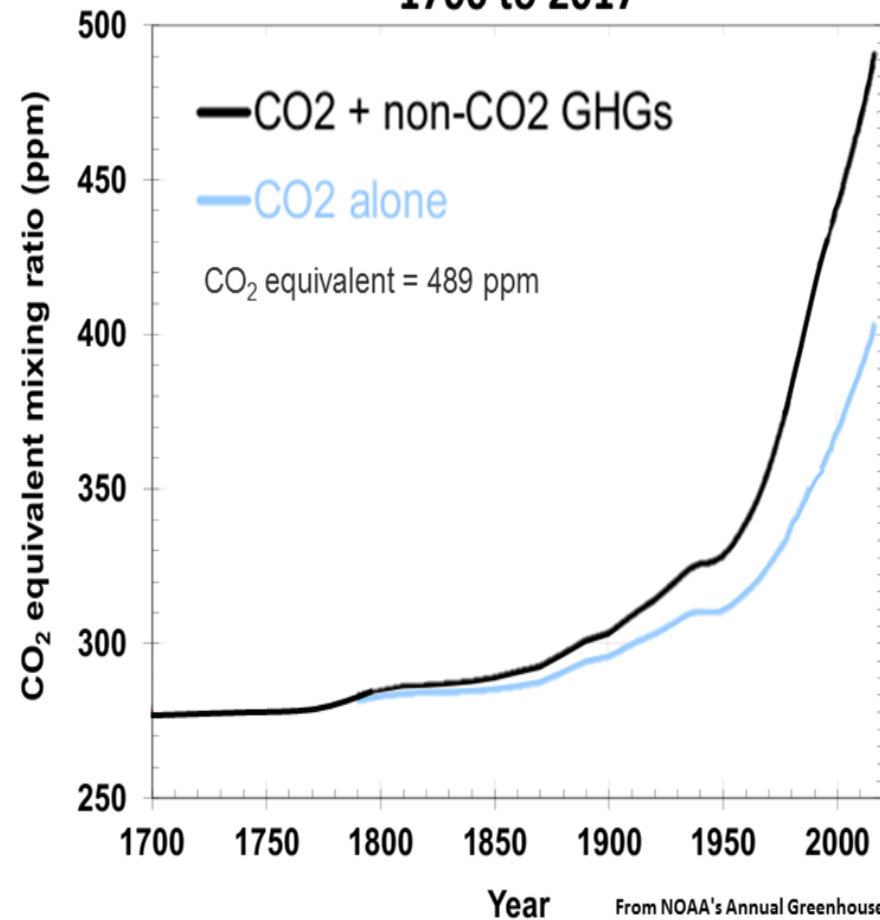
**“There’s a time to sit down and work at your desk and there’s a time to get up and leave the area where you are comfortable. That time is now.”**

# What farmers need to know about climate change



# CO<sub>2</sub> emissions continue to rise unchecked.

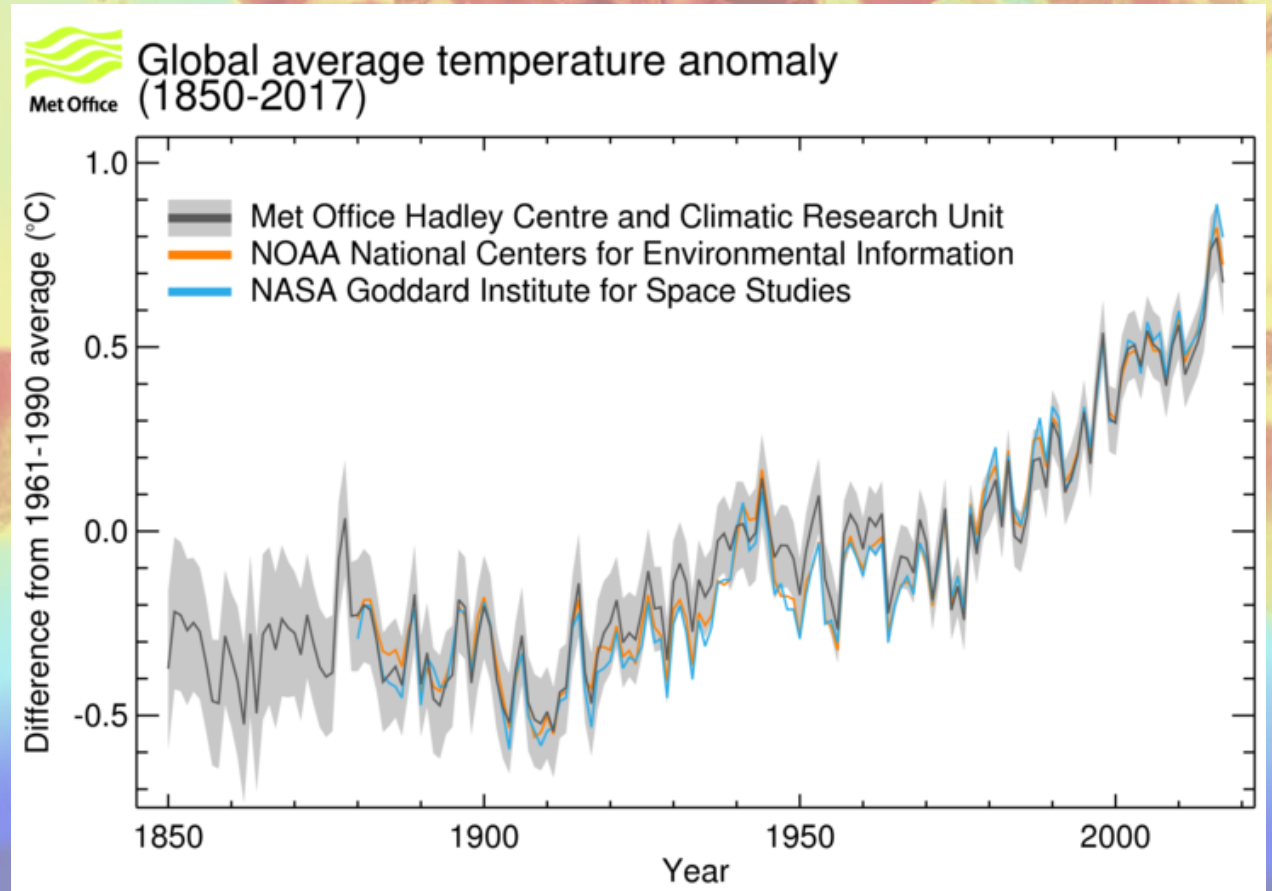
Atmospheric Concentrations of CO<sub>2</sub> and CO<sub>2</sub> Equivalent  
1700 to 2017

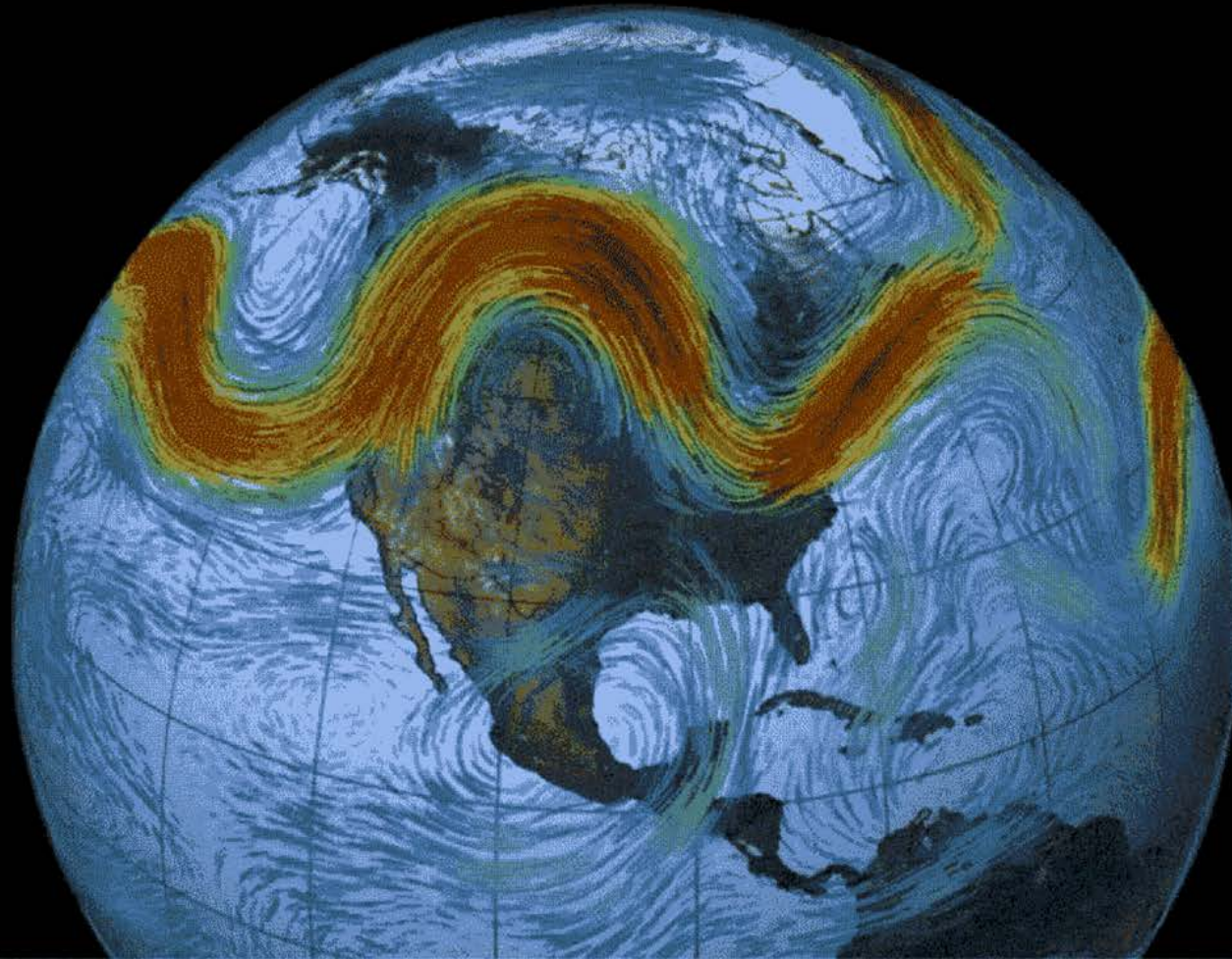


From NOAA's Annual Greenhouse Gas Index Spring 2017



**Temperature is rising relentlessly.**

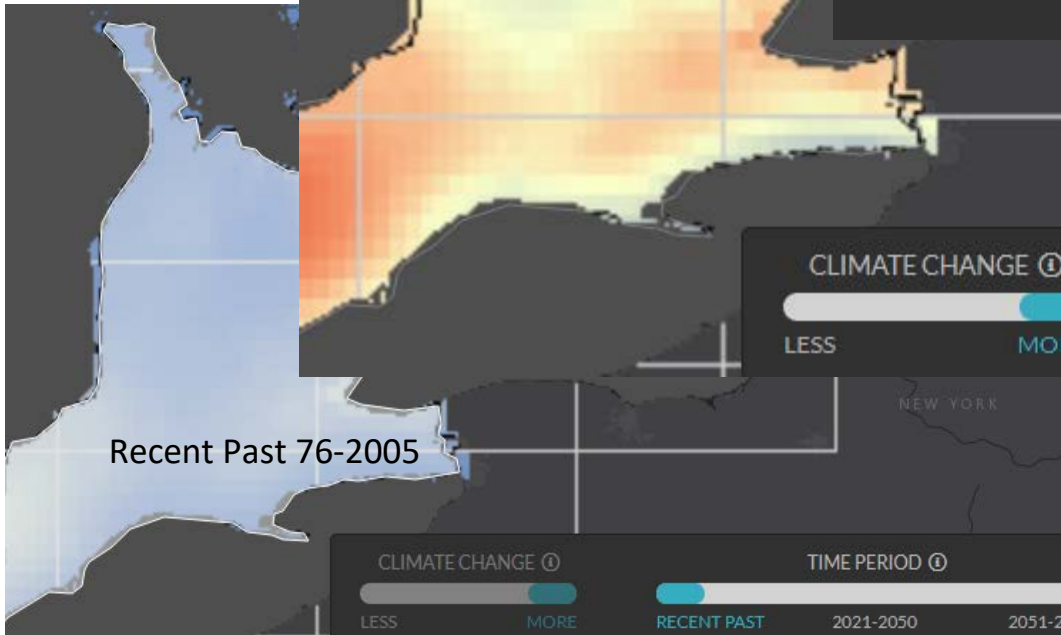
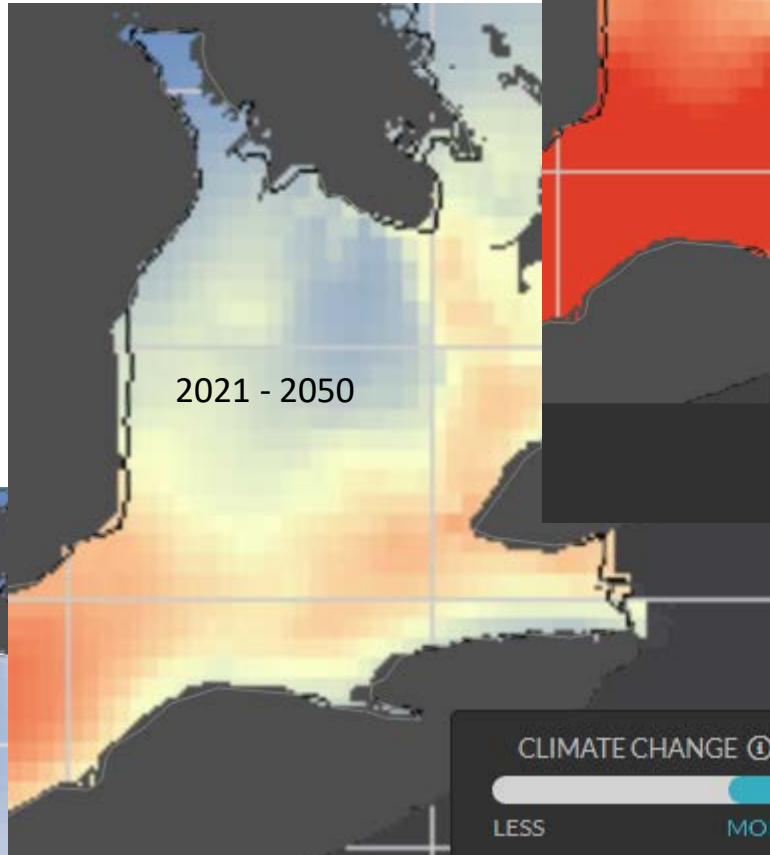
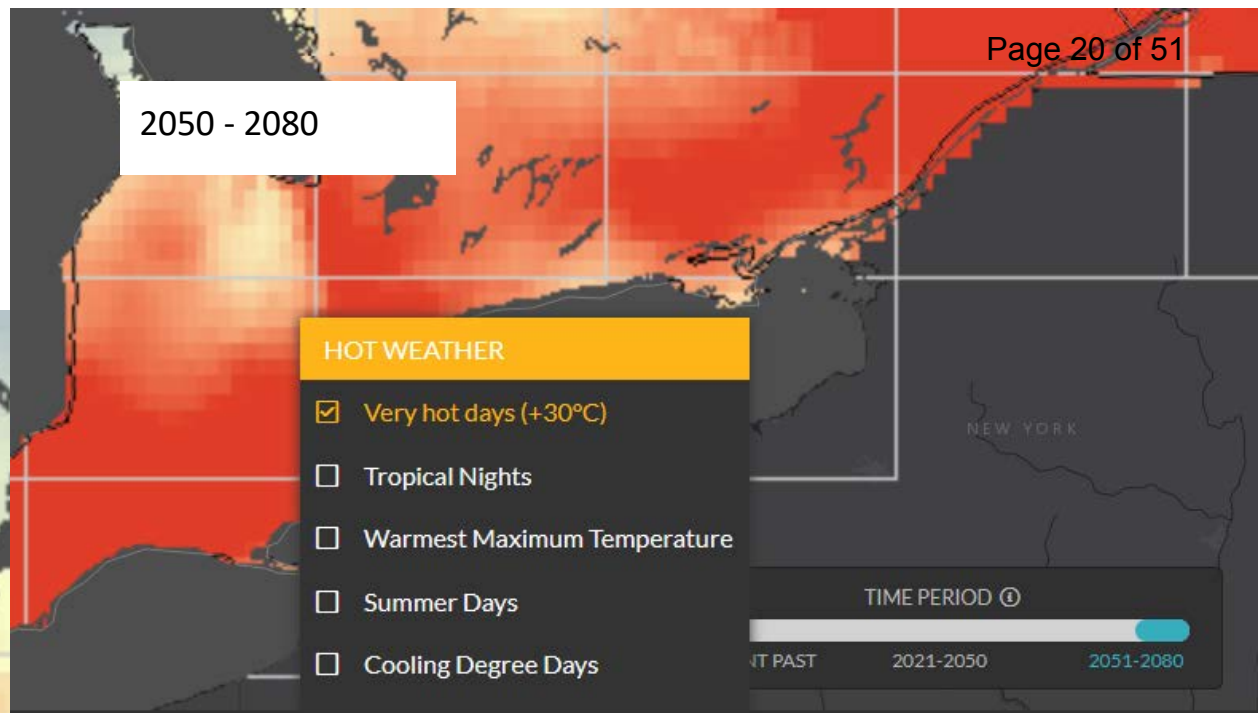




**Jet Stream destabilizes when Arctic warms, ice melts**

# Great Lakes Stress Index

# Very Hot Days, GTHA, climateatlas.ca



**Region TORONTO**

[Display on map](#) | [Download climate report](#)

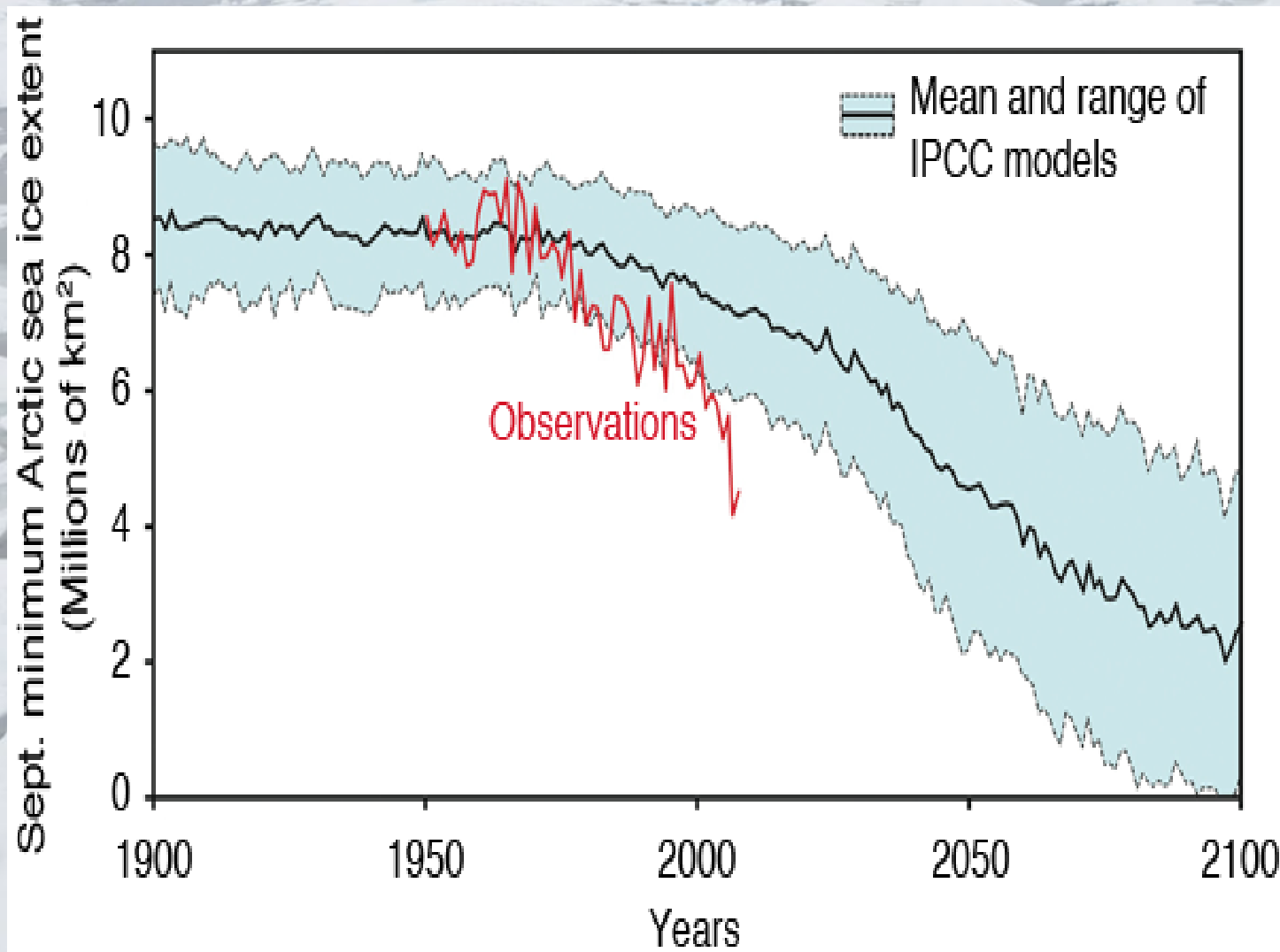
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Format: **Time series** > Variable: **Very hot days (+30°C)** > Scenario: **RCP8.5**

## Very hot days (+30°C) (RCP 8.5) Mean value

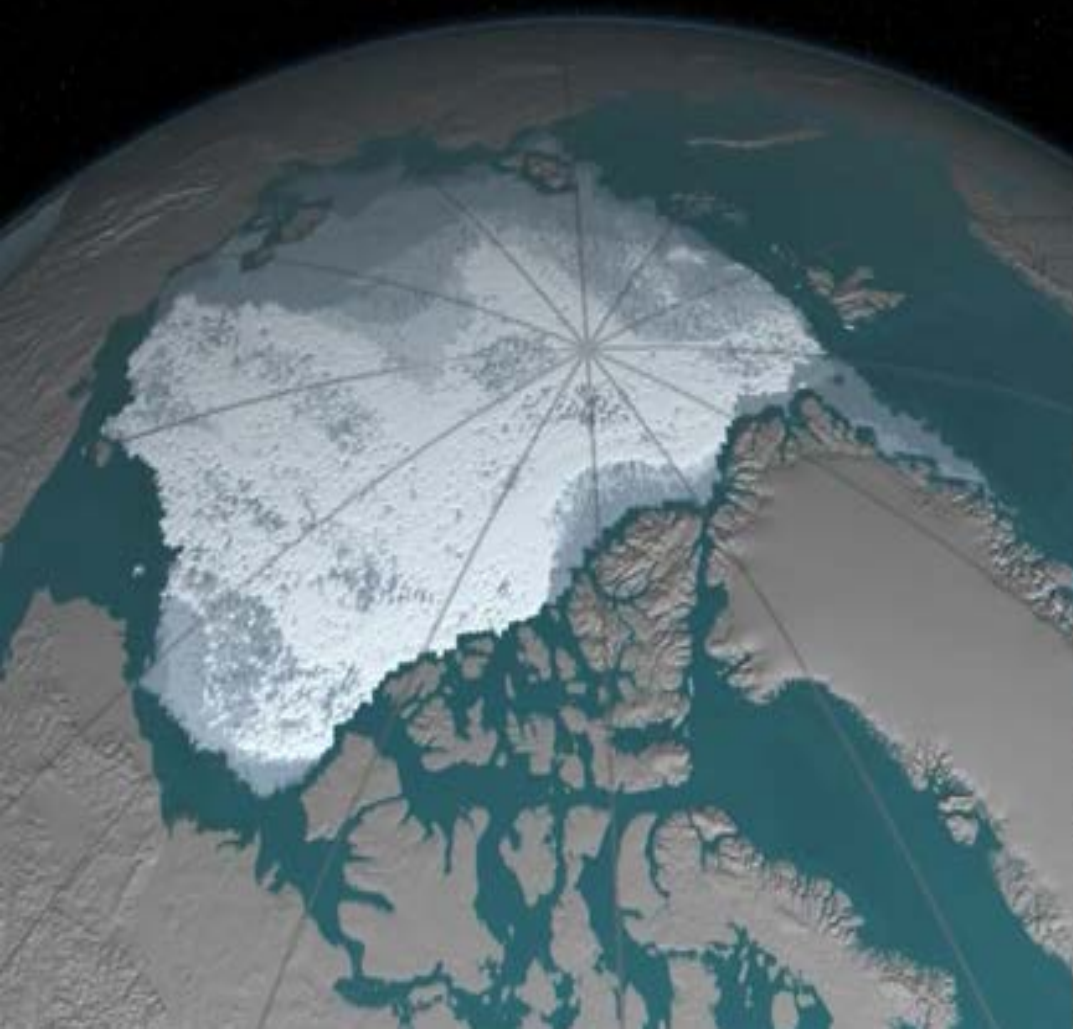


# Sea ice now disappearing faster than expected.

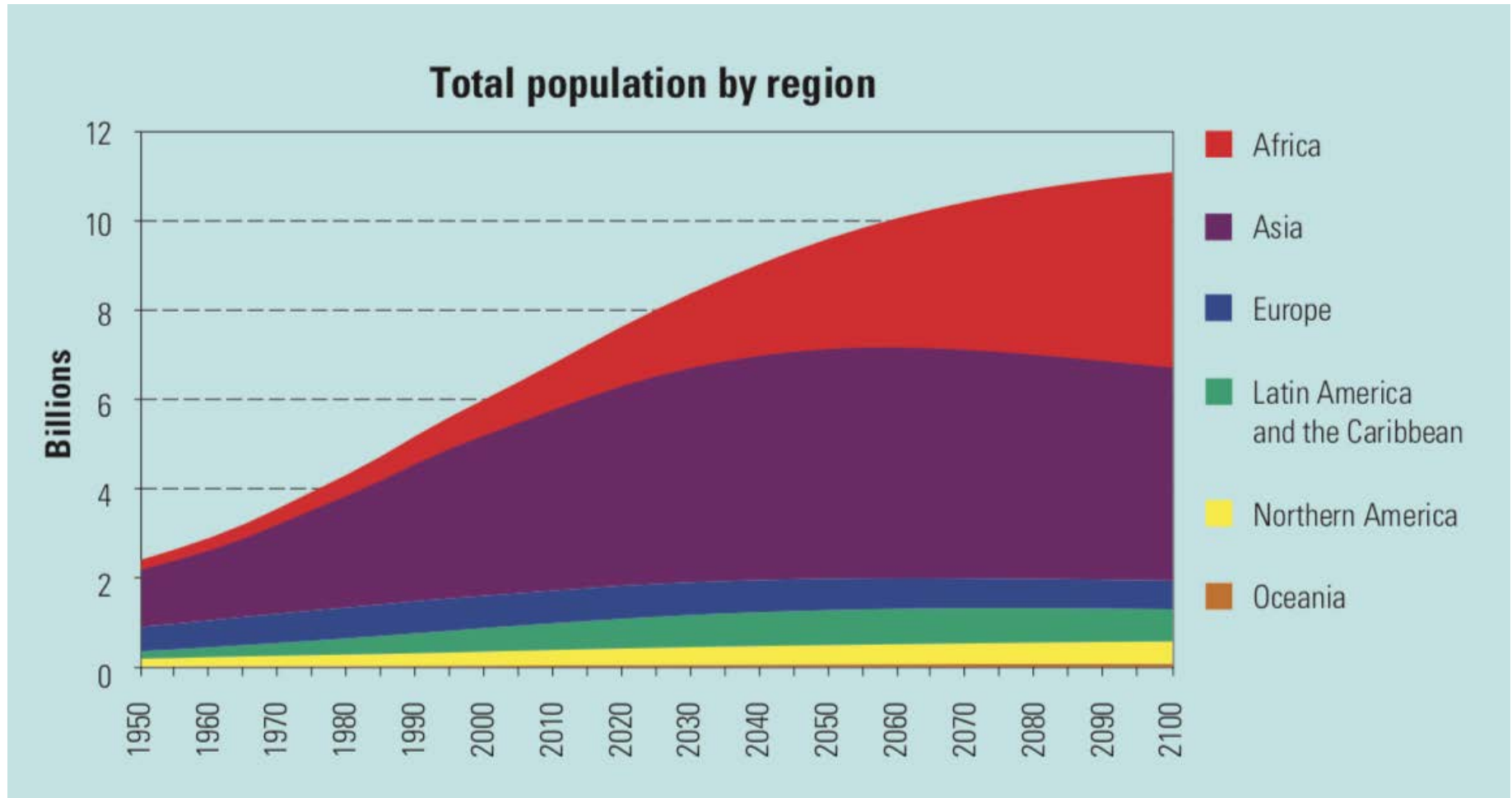


Sep 1984

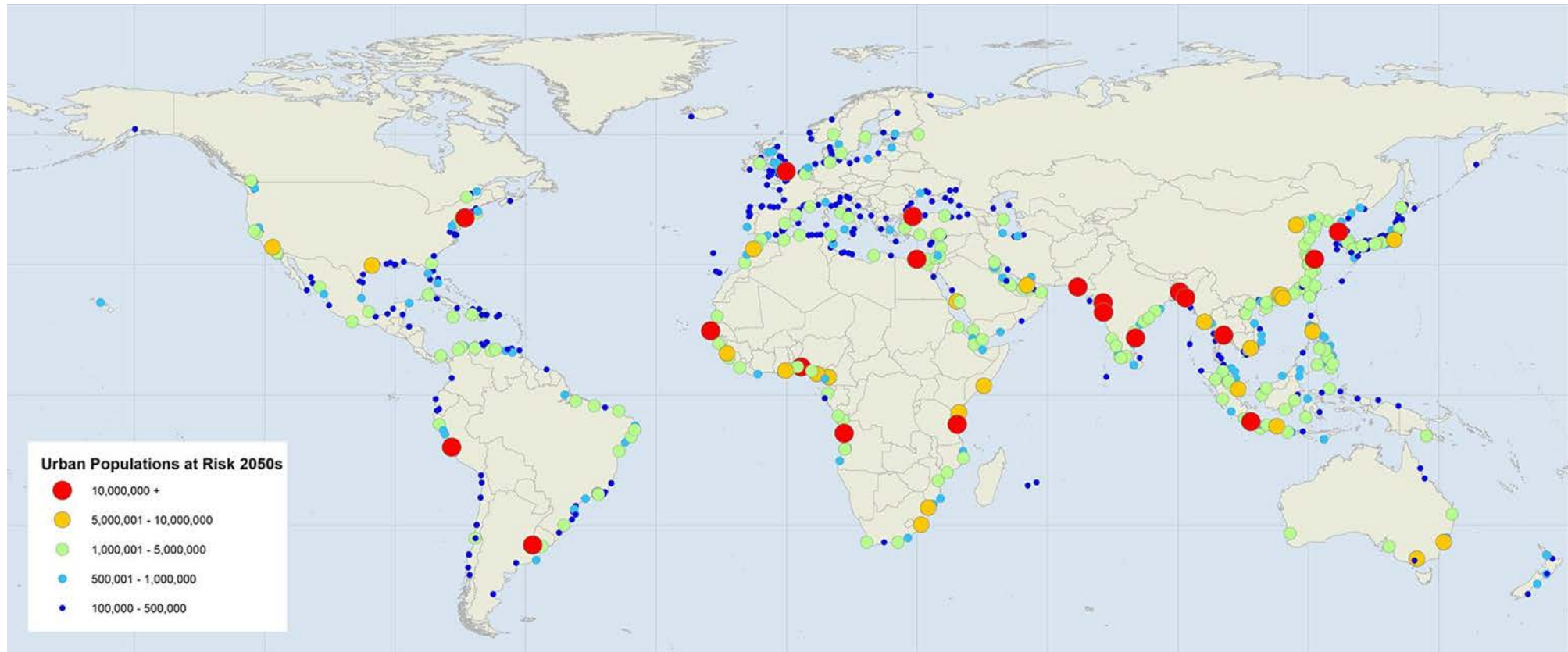
Sep 2016



Click to [Watch global population grow](#)

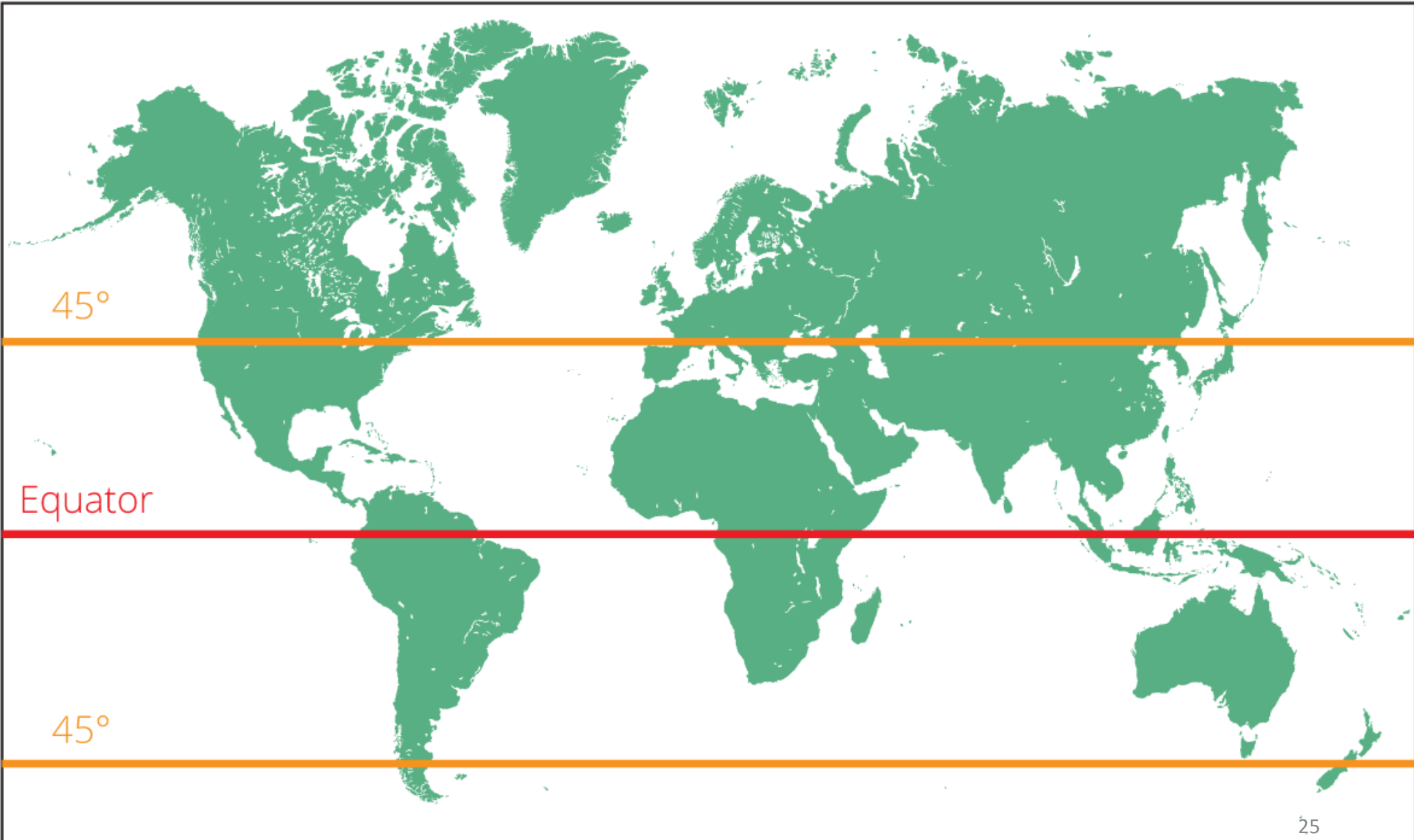


# 0.6 -1.2 m sea level rise from melting ice in Greenland & Antarctica.



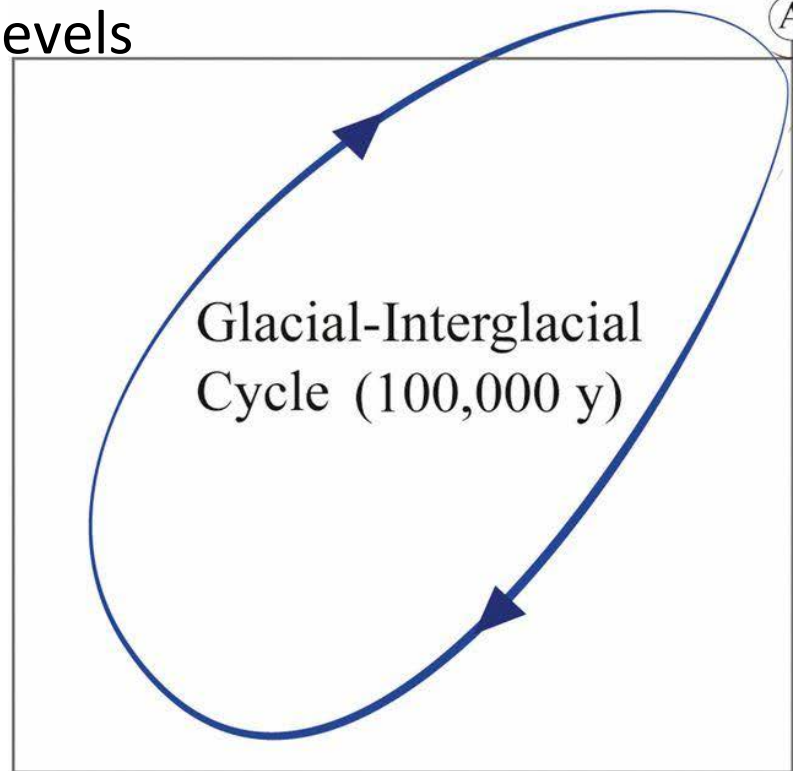
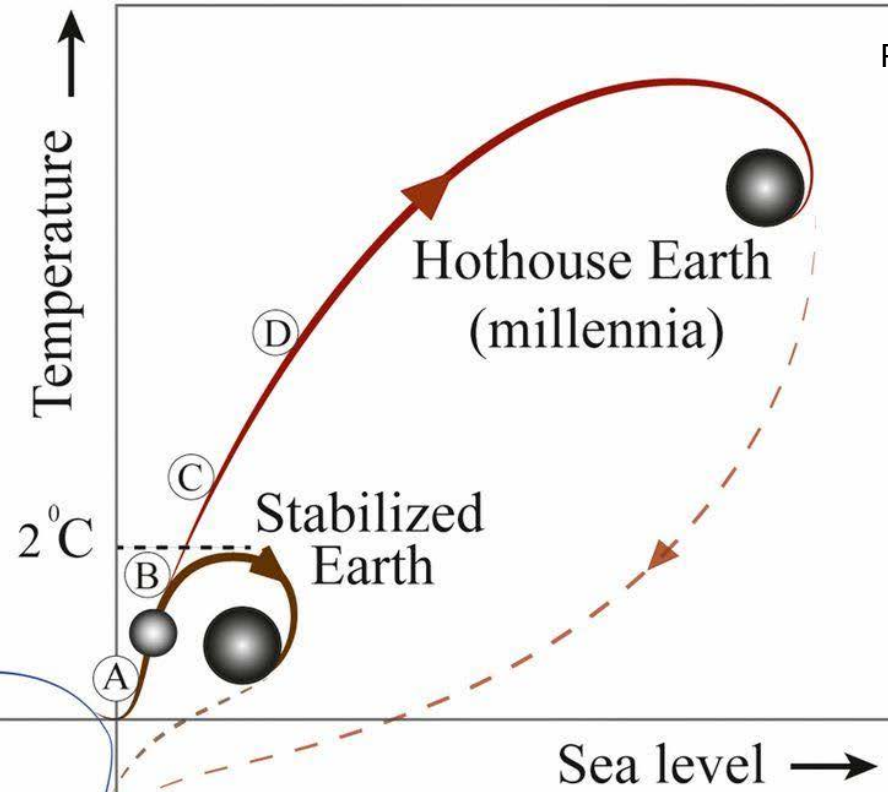


# Migrating North or South of the 45th Parallel



Tipping points lead to rapid escalation of destabilized earth-systems.

Towards hotter temperatures and higher sealevels



**Hothouse Earth Effect**

# Temperature projections.

Only 1% chance of hitting  
Paris 1.5°C target

Only 5% chance it will  
be less than 2°C

Likely range:  
**2°C - 4.9°C**  
(median 3.2°C)

University of Washington emissions modelling  
and UN warming estimates.

# Threat of human extinction.

“By and large the consensus is the same:

We are on track for four degrees of warming, more than twice as much as most scientists believe is possible to endure without inflicting climate suffering on hundreds of millions or threatening at least parts of “civilization.”

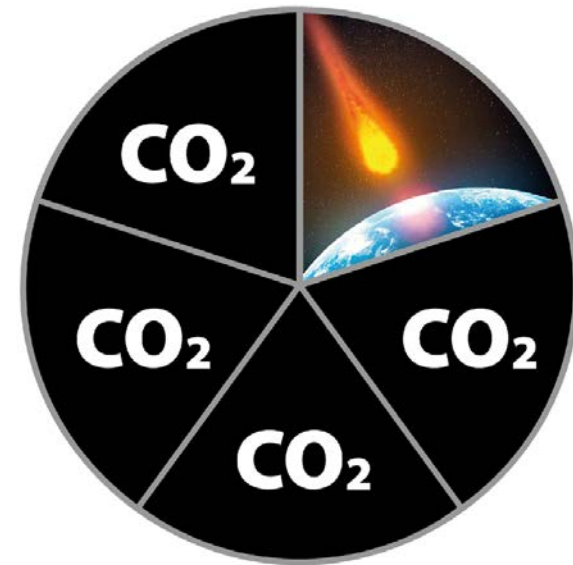
The only thing that changed, this week, is that the scientists, finally, have hit the panic button.”

(Wallace-Wells, NY Intelligencer Oct 2018)

# Earth's previous mass extinctions.

Example: the runaway climate change of the Permian-Triassic extinction wiped out 97% of all marine species, and 70% of **terrestrial vertebrate** species.

## 5 major extinctions



# **Mass extinction has already begun.**

**“Between 1970 and 2014, Earth lost nearly 60% of its mammals, birds, fish, reptiles and amphibians, almost all of it due to human activity. The rate at which Earth is losing its biodiversity is comparable only to the mass extinctions... a stinging reminder of the declining health of the planet.”**

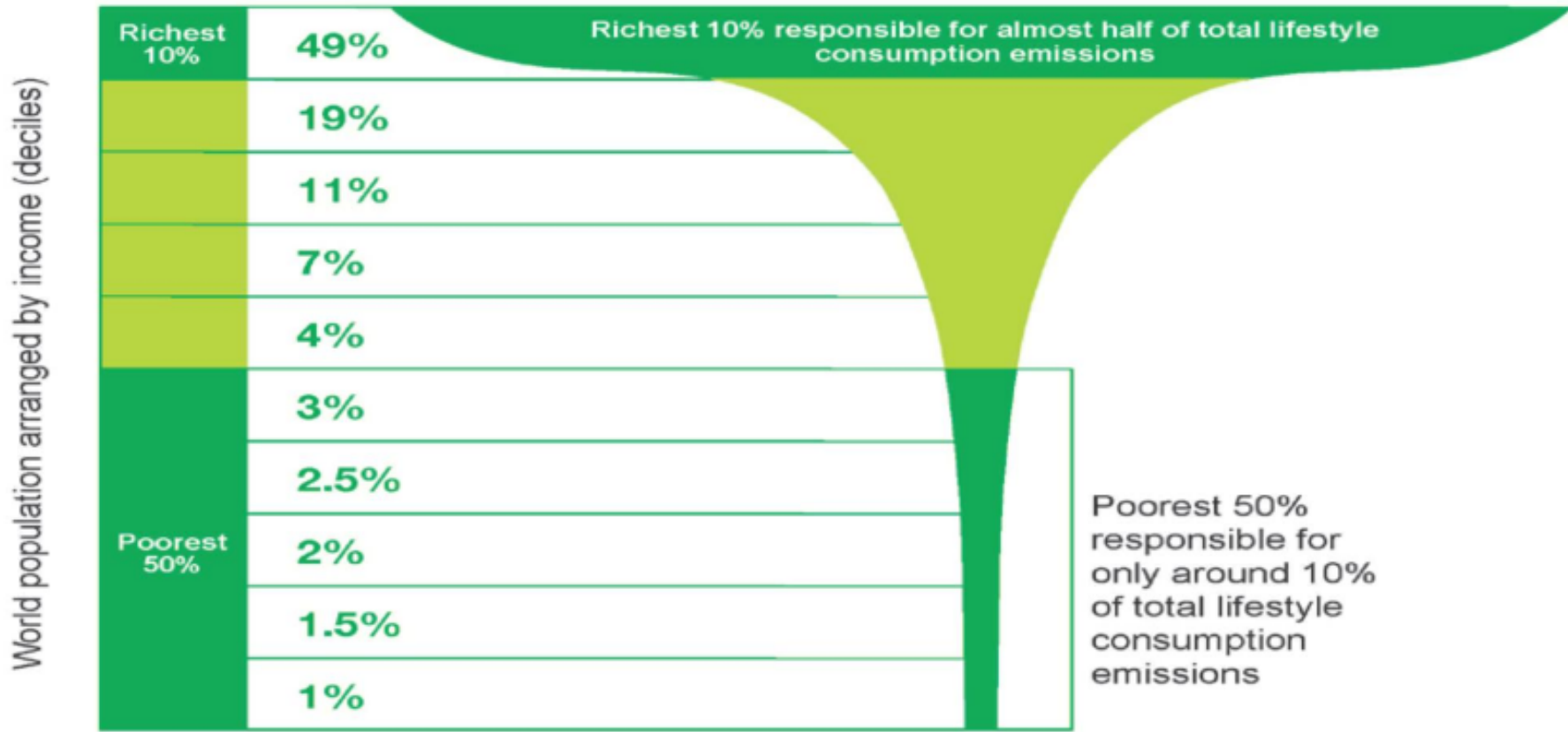
**(WWF Living Planet Report 2018, & The CN Traveller)**

## Climate Justice, Climate Equity

“... we’re in a system that says that black and brown and poor people can be sacrificed for profit. Some people at the climate talks used to say to me ‘you’re too radical; we have to live within the system, we have to work within the system’ and I say to them that’s easy when you’re not dying from that system.” (Asad Rehman, ED of charity War On Want, The Ecologist, Dec 2018)

# CO<sub>2</sub> is highly skewed towards the 'few'?

Percentage of CO<sub>2</sub> emissions by world population



Global income deciles & associated lifecycle consumption emissions

Top 10% income earners emit 49% of CO<sub>2</sub>, bottom 50% emit only 10%.



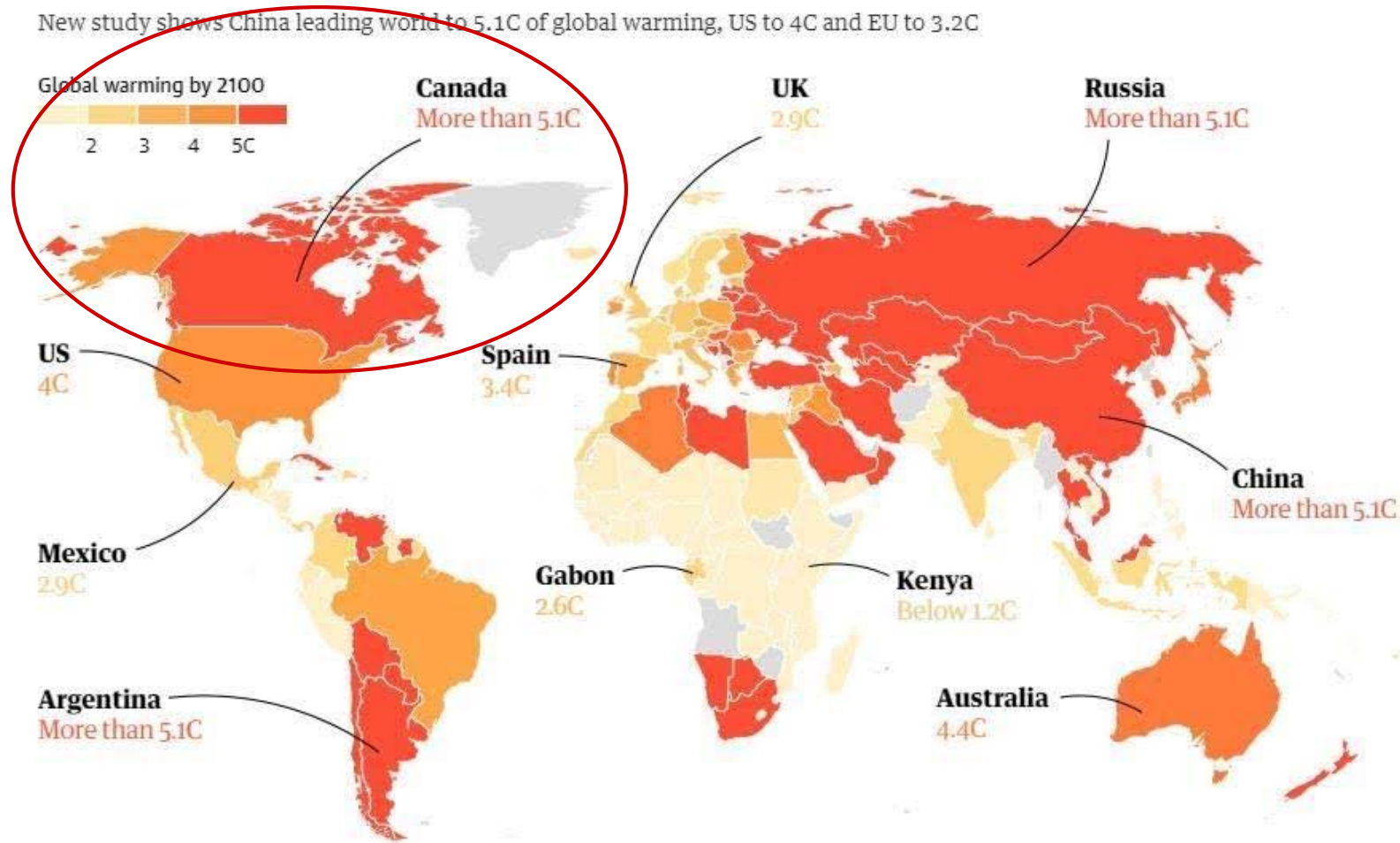
An aerial photograph of a sea ice field. The ice consists of numerous irregular, white and light blue floes of varying sizes, separated by dark, open water. A prominent, dark, narrow channel (a lead) runs diagonally from the bottom left towards the center of the frame. The water in the lead is dark and reflects some light, creating a shimmering effect. The overall scene is desolate and emphasizes the fragmented nature of the ice.

**Act Two**  
**Canada: On Thin**  
**Ice**

# 5.1 degrees of global warming? Blame Canada.

## Climate goals are off course. Which countries are to blame?

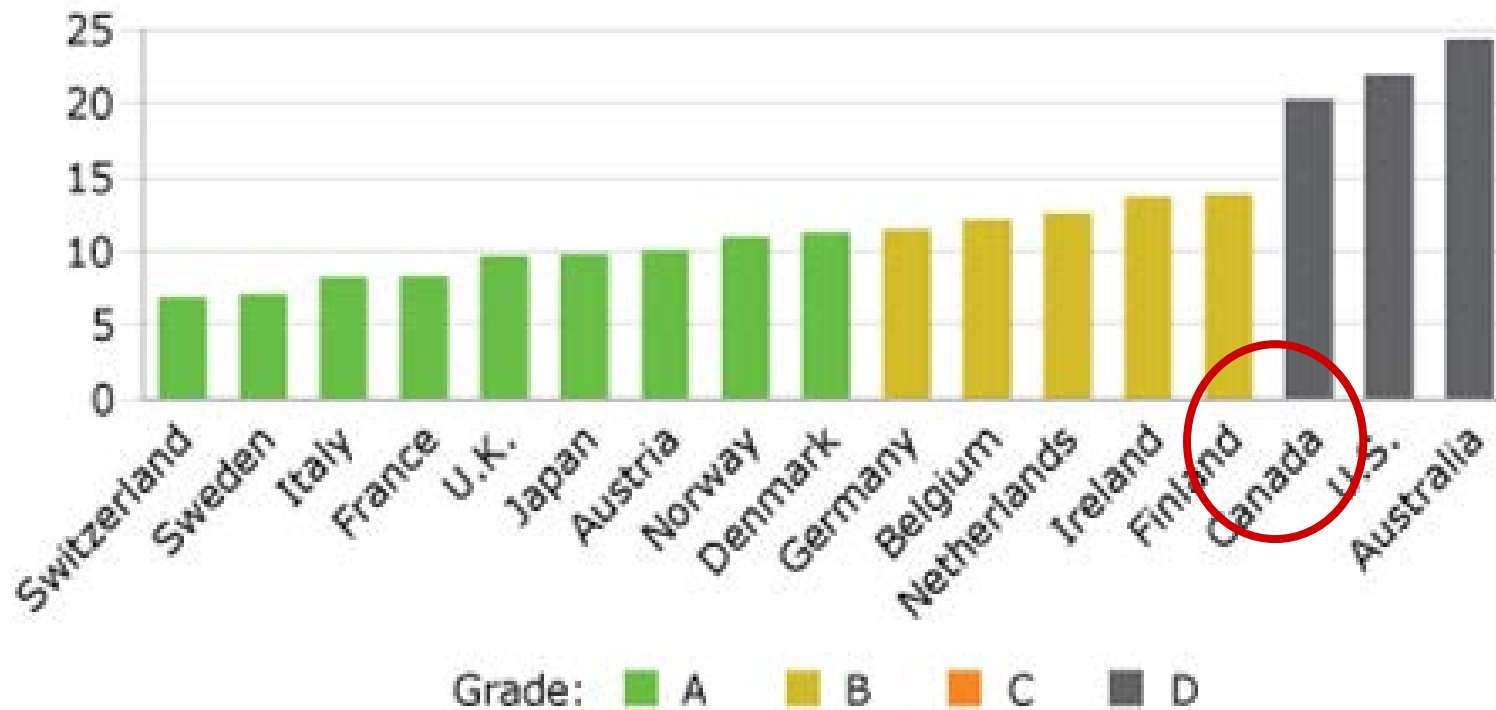
New study shows China leading world to 5.1C of global warming, US to 4C and EU to 3.2C



Guardian graphic | Source: Nature Communications

## Third highest per capita emissions in the OECD.

GHG Emissions, 2010  
(tonnes of CO2 equivalent per capita)



# **Subsidized by our tax dollars.**

**Canadian governments continue to pour billions of dollars into fossil fuel extraction, transport and processing including:**

- ~\$15 billion to buy and expand the Trans Mountain pipeline**
- Billions annually in exploration tax incentives**
- \$6.6 billion in handouts for just one liquid natural gas facility in BC**



**"Over the next twenty years, the industry is set to expand oil production by more in Canada than in any other country. If it continues on this course, Canada could ... drive the atmosphere over the edge.**

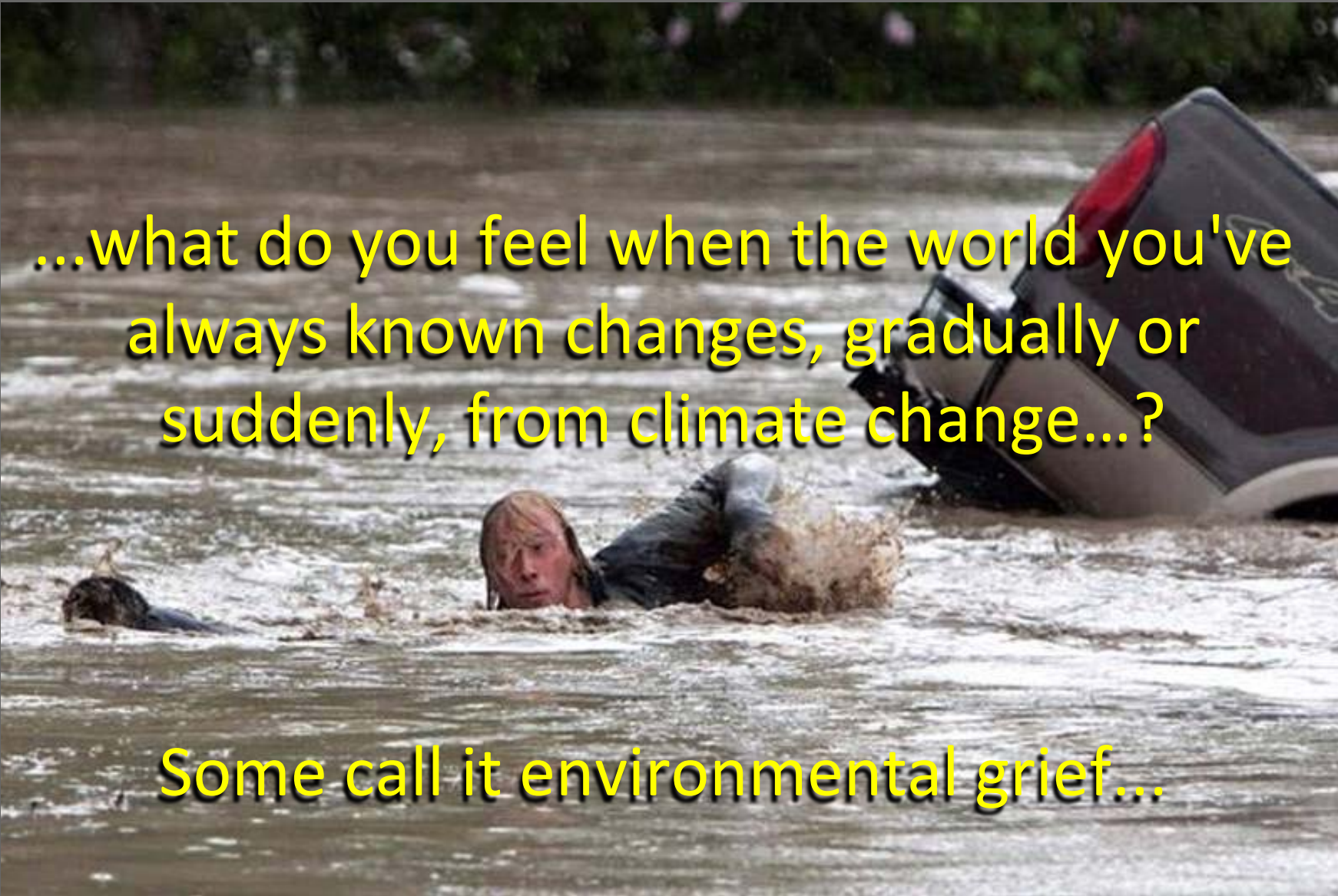
**The Canadian government simply cannot have it both ways. There is no scenario in which tar sands production increases and the world achieves the Paris goals."** Oil Change International (OCI), "Climate on the Line"

# This is what extinction looks like...



# This is what extinction rebellion sounds like...



A photograph showing a person in dark clothing struggling in turbulent, brown floodwaters. The person's head and shoulders are above water, and they appear to be holding onto or near a boat. The boat's outboard motor is visible on the right side of the frame. The background is a blurred shoreline with green foliage.

...what do you feel when the world you've always known changes, gradually or suddenly, from climate change...?

Some call it environmental grief...





Question:

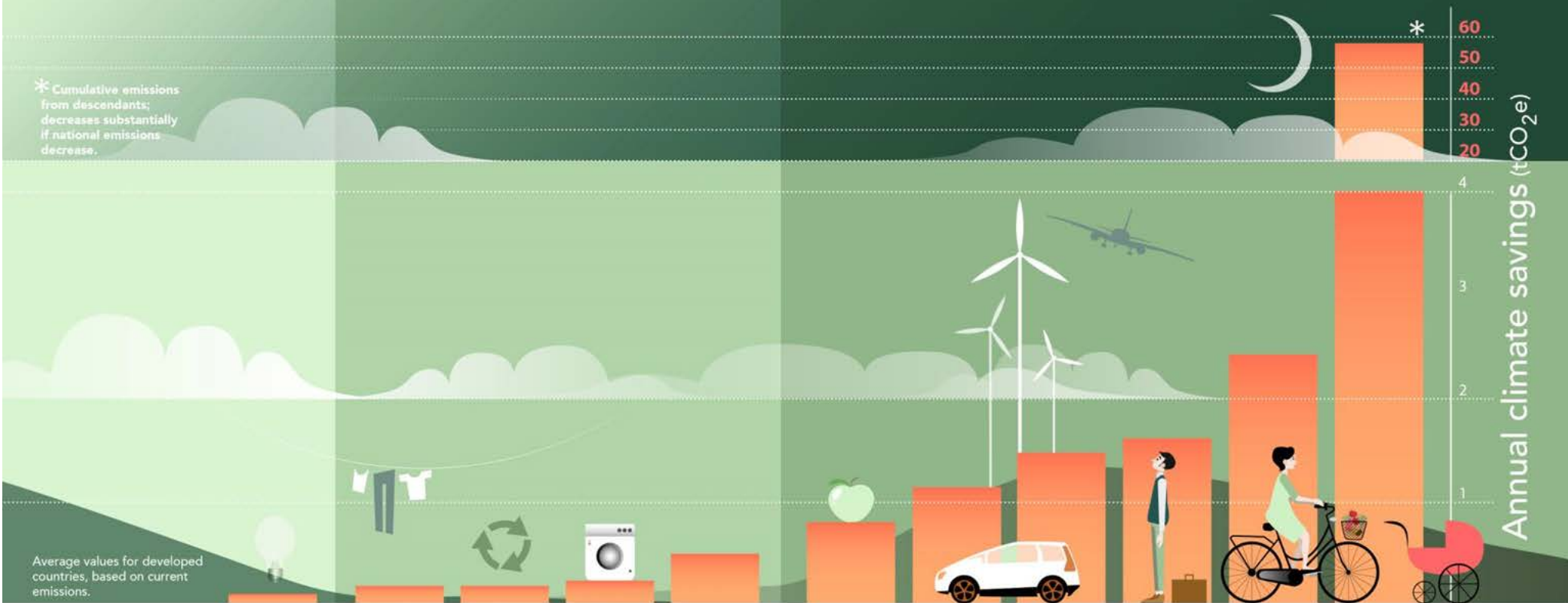
What do you do when your government is actively promoting the destruction of the very things vital for life - oxygen, soil and water ... driving extinction events with impunity?

You get into ACTION!

# Act, to Reduce Personal Impact

Personal choices to reduce your contribution to climate change

\* Cumulative emissions from descendants; decreases substantially if national emissions decrease.



Average values for developed countries, based on current emissions.

Low Impact

< 0.2 tCO<sub>2</sub>e

Moderate Impact

0.8-0.2 tCO<sub>2</sub>e

High Impact

> 0.8 tCO<sub>2</sub>e

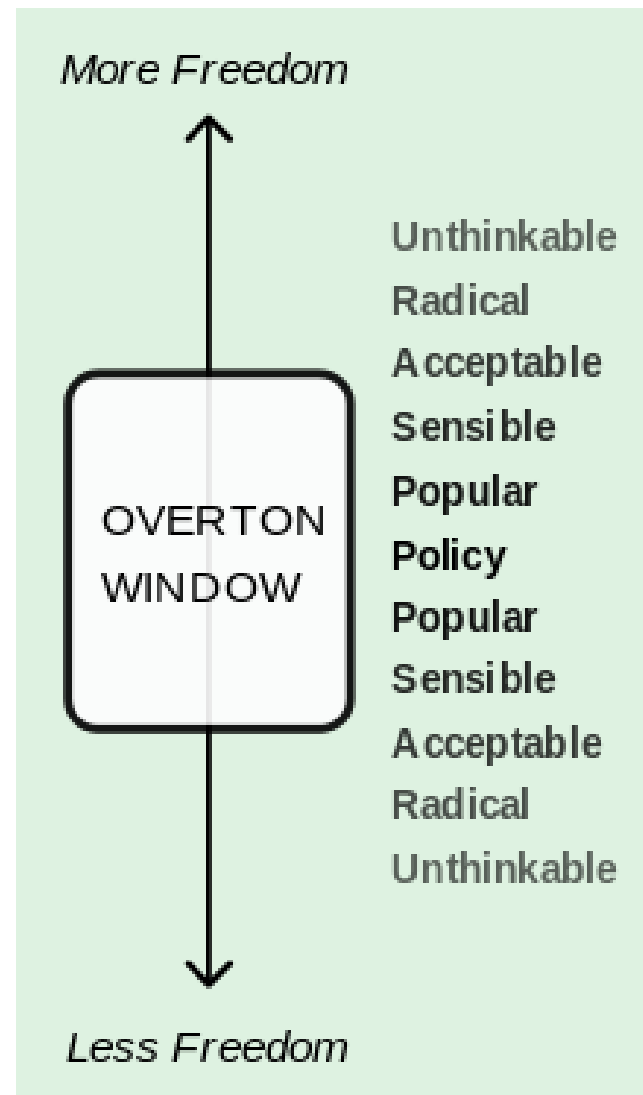
## *Act, in defence of life itself.*

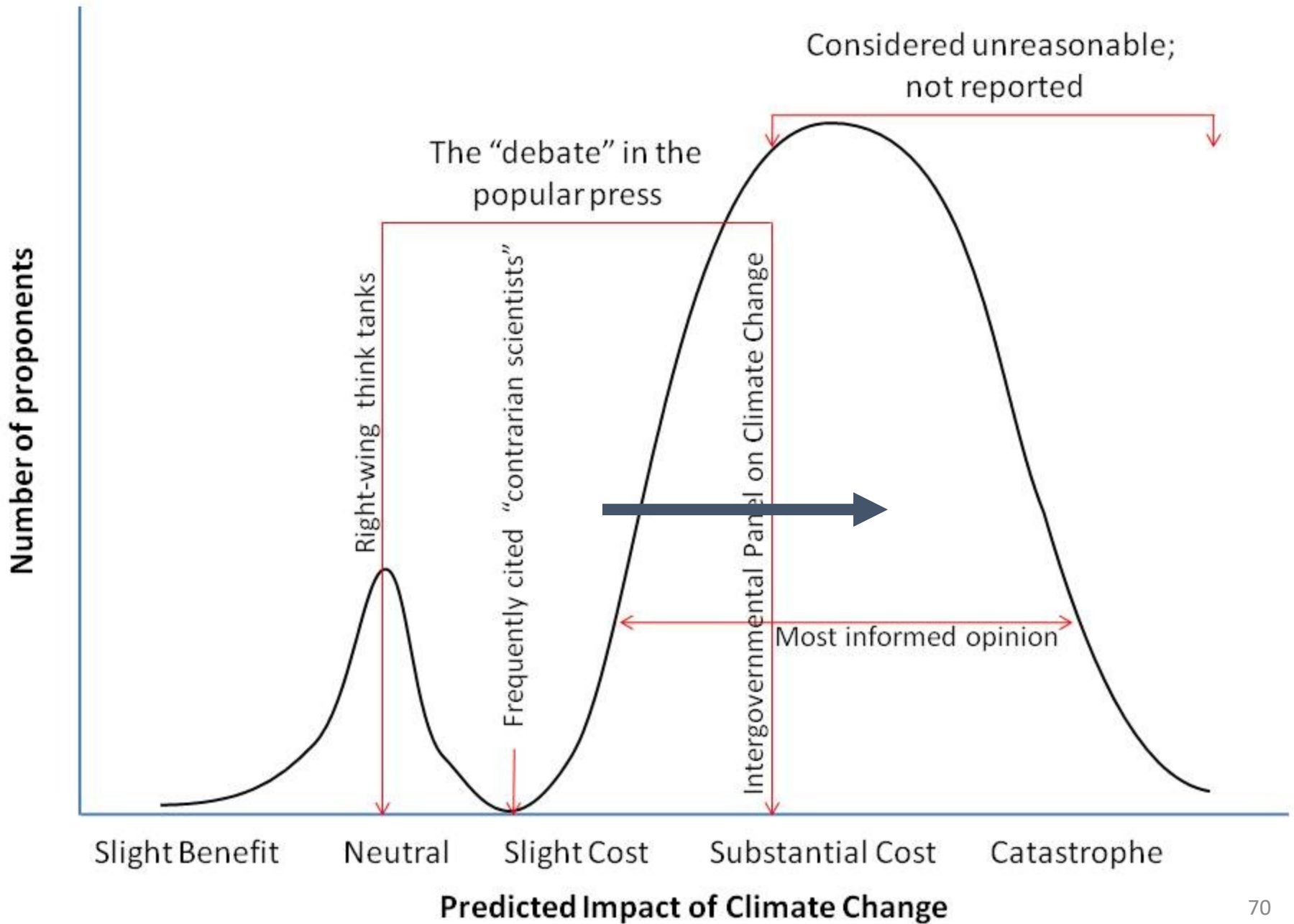
When a government refuses to protect its citizens from harm, it has failed in its most essential duty of stewardship.

The 'social contract' has been broken and it is therefore not only our right but our moral duty to bypass the government's inaction and flagrant dereliction of duty, and to act in defence of life itself.

*- Extinction Rebellion*

Step 1: shift the public discussion towards what science is telling us.







## **XR demands for city, provincial, federal governments**

- 1) Declare a Climate Emergency! Tell the truth about the climate crisis, and the imminent risk to human civilization and then act accordingly.**
- 2) Immediately cut carbon emissions to net zero by 2025 by reversing destructive economic policies**
- 3) To form a national assembly of ordinary citizens to see that these demands are implemented by effective policy and action.**
- 4) Respect indigenous land rights and title including free, prior and informed consent according to the UN Declaration on the Rights of Indigenous Peoples**



## WWII-level climate mobilization would involve

- **Reducing carbon emissions** to zero within the next decade
- **Reducing consumption** through a carbon rationing program
- **Rebuilding transport** with high speed electrified railroads, new public transit options, new forms of fuel replacement, and car-free cities
- **Transforming agriculture** by moving from industrial agriculture to localized, regenerative and resilient farming with limits on livestock production and a rapid phase-out of factory farming
- **Restoring ecosystems** with a conservation and ocean-protection program to halt the ongoing mass extinction of species and turn back to healthy ecosystems that can absorb carbon





**“WHATEVER IT  
TAKES.”**



**Grand Chief Stewart Phillip**  
*President of the Union  
of B.C. Indian Chiefs*

**WE DO NOT PLAN ON STOPPING.**

**NO MONEY IN THE  
WORLD IS WORTH  
DESTROYING  
OUR LAND AND  
OUR WATER.**

**- SHELLEY A. YOUNG**

**MIKMAQ**



**#NOPIPELINES #MIKMAQ**

# Tools for Action on the Farm

