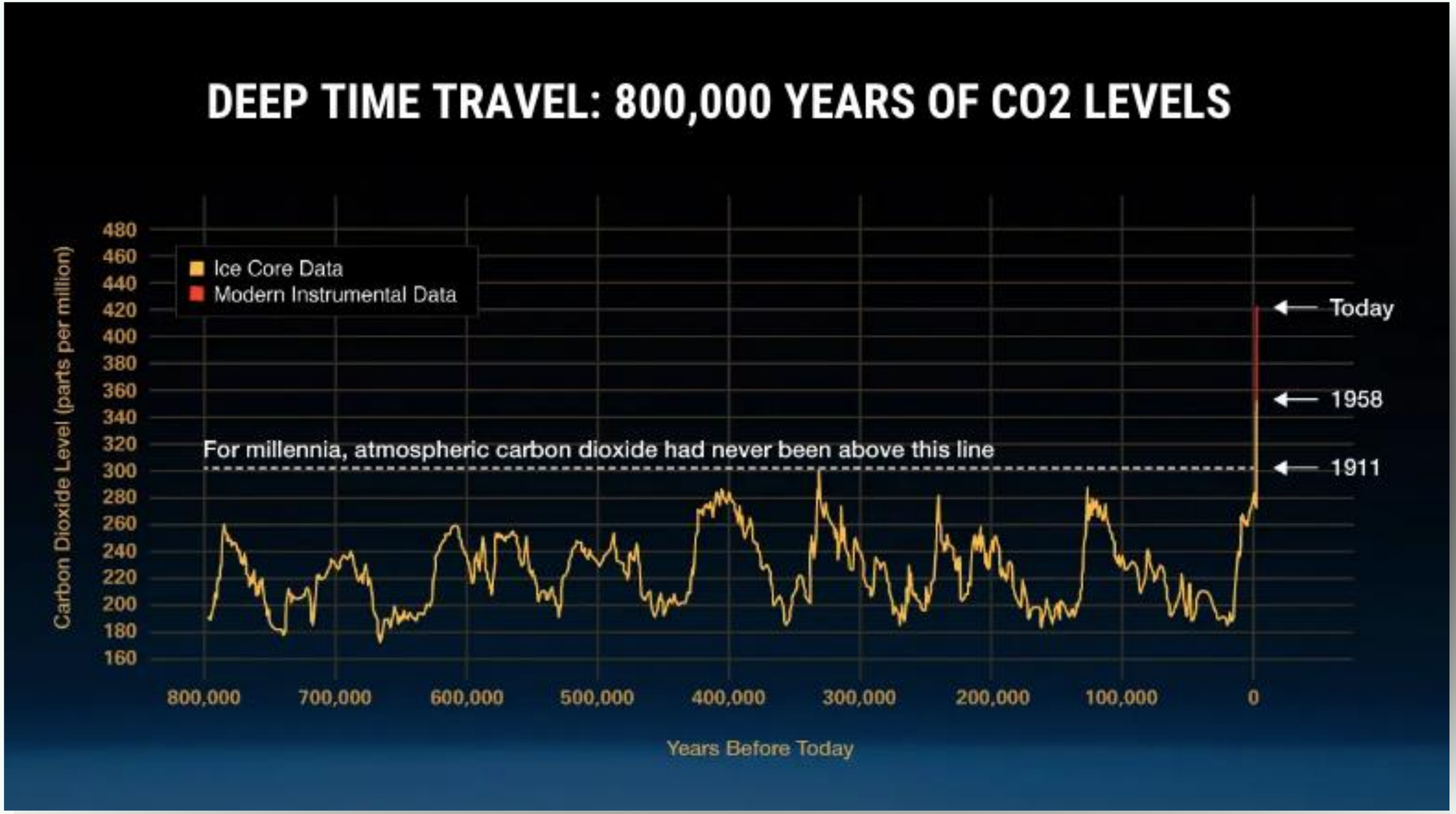

FOUNDATION FOR
CLIMATE
RESTORATION
CLIMATE
RESTORATION
The Leading Edge of Climate Action

How do you rate the climate crisis?

1-3	4-7	8-10
Not a problem	Most likely a problem	Huge problem
Not concerned	Somewhat concerned	Very concerned

What is causing today's climate disruption?

- Most comes from everyday human activities: burning coal, gas, oil; destroying forests and other ecosystems.
- Burning fuel and forests releases "greenhouse gases" especially carbon dioxide (CO2) and methane
- They act like a blanket over the Earth, holding in more heat from the sun. Temperatures rise.
- Extreme events become more frequent and more intense: droughts, floods, hurricanes and wildfires, etc.


DEEP TIME TRAVEL: 800,000 YEARS OF CO2 LEVELS
Carbon Dioxide Level (parts per million)
480
460
440
420
400
380
360
340
320
300
280
260
240
220
200
180
160
Ice Core Data
Modern Instrumental Data
For millennia, atmospheric carbon dioxide had never been above this line
Today
1958
1911
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Years Before Today

Climate action today: Aiming for “Net zero”

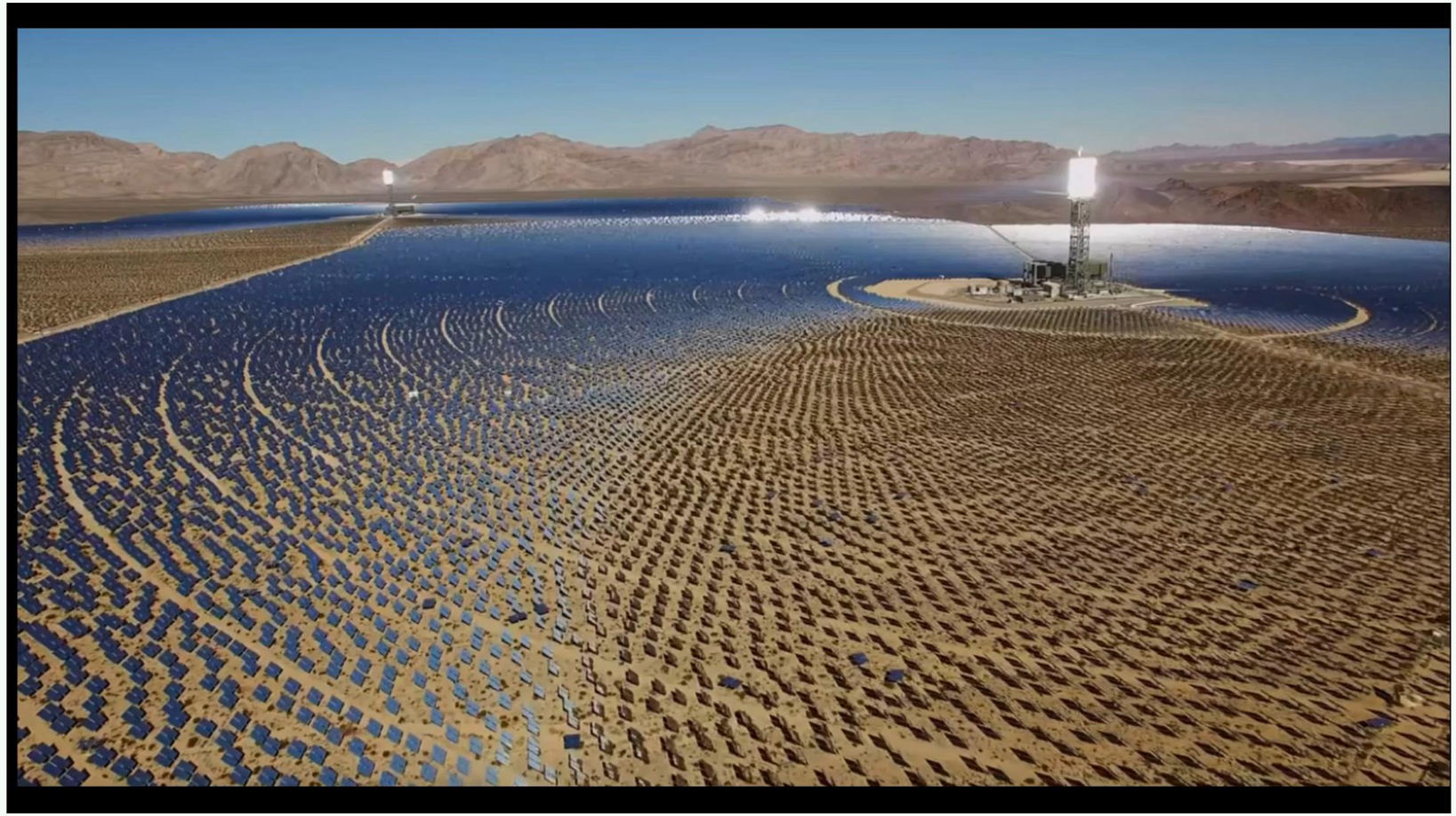
- Net-zero = not adding any MORE CO2 pollution. Mostly by using more clean energy and less fossil fuel
- Net zero “balances out” new CO2 emissions by doing things that remove CO2 from the air. E.g. planting trees, “CDR” - carbon dioxide removal-technology, more plants in the ocean….
- Net zero is important. BUT if we achieve only net-zero by 2050—CO2 will be 50 percent higher than humans have ever survived long term
- Net zero does not address the legacy load of CO2 already in the air, built up over the last 200 years

Climate restoration vs. net-zero alone

- Net zero was an appropriate goal decades ago. But it’s too late for that to work now.
- 1 trillion tons: the amount of CO2 already in the air.
- This “legacy load” of CO2 causes more than 95 percent of climate chaos
- The legacy load is what climate restoration addresses—to restore a safe climate by 2050

What is climate restoration?

- Restoring a safe climate—one that humans have survived over the long term.
- The proven, safe climate for humanity has a CO2 level below 300 ppm.



What is the Foundation for Climate Restoration?

Our Vision:
By 2030: The world will adopt restoration to a safe climate - less than 300 ppm by 2050 - as the goal of climate action.
By 2050: A safe climate will be restored. CO2 levels will be less than 300 ppm—a level proven safe for humanity.

Our Mission:
Generate the social license and political will to restore the climate by 2050.
This will allow for the discovery and funding of scalable solutions that can remove the legacy CO2 from the atmosphere.

Our Approach:
Education for citizens and policy makers. Letters to the editor and other media campaigns. Building a youth leadership initiative for climate restoration.

What makes a climate-restoration solution?

- **Permanence** - CO2 stored for at least 100 years
- **Scalability** - capable of removing and storing 20 - 60 billion tons a year
- **Financeability** - can be financed with little to no government funding (since that is uncertain)

We think best-bet climate restoration solutions today follow nature’s lead

Ocean Iron Fertilization:

- Promoting photosynthesis in the ocean
- Biomimicry: Nature does this before ice ages. We can replicate; safe if done right, and restores fish and other marine life
- Inexpensive: National Academy of sciences says 1-2 cents a ton CO2
- Scalable: Appears able to scale up to 60 billion tons a year
- Needs less than 1 percent of the ocean
- Bad rap from previous expeditions and disinformation: needs new pilot projects to secure social license

We think best-bet climate restoration solutions today follow nature’s lead

Synthetic limestone

- Nature stores most carbon on earth in limestone—from shells, bones of ocean life
- Limestone is nearly half CO2 by weight
- Biomimicry—synthetic limestone made like oysters, corals make their shells
- Makes uniform, high-quality building, paving materials
- We can pave and build with CO2! Already in use in San Francisco International Airport
- Scaleable—needs financing for more manufacturing plants

We think best-bet climate restoration solutions today follow nature’s lead

Methane oxidation

- Inexpensive: Also biomimicry. Nature oxidizes methane in simple chemical process in sunlight over ocean. We can replicate, to double the rate.
- Scalable: Big impact in a small area, mid-ocean
- Immediate Impact: powerful and swift because methane molecules trap about 100 times more heat than CO2.
- In demonstration phase.

Other climate solutions

Regenerative Agriculture

- Better farming practices put more carbon into plants and in the soil
- Relatively inexpensive
- Safe and benefits soil, food security, ecosystems, livelihoods, and health
- Theoretically scalable but requires behavior change from billions of people.

Other climate solutions

Industrial CO2 removal (CDR)

- E.g. Direct Air Capture (DAC), Heirloom, several types of ocean CDR, numerous tech startups funded by the IRA and other government programs
- Expensive: Received billions in government and venture-capital funding over a decade; lots of attention but little CO2 removed
- Not scalable: $600 - $1000 / ton CO2 captured X 1 trillion! = the world economy.
  - If 90% cheaper — $100 / ton—still thousands of times more expensive than biomimicry processes
- A burgeoning industry: producing jobs and profits, but little effect on the legacy CO2 load

Want to help restore a safe climate?

- Contact the Foundation for Climate Restoration!
  - **Reach out to us at info@F4CR.org**

- Request a presentation for your university or organization

- **Join the community** and get training in climate-restoration outreach— including letters to the editor, educating policy makers, giving presentations

- Share climate optimism: We *can* restore our climate for future generations.

Want to learn more?

- Go to **F4CR.org** Sign up for events and updates
- PeterFiekowsky.com for the latest research
- ClimateRestoration.substack.com for updates
- Read the book: Climate Restoration—The Only Future That Will Sustain the Human Race

As a messenger of Climate Restoration, we are in action:

- Developing your personal climate story to share
- Being trained to lead presentations and leading them
- Interacting with media and social media platforms
- Writing letters to the editor
- Interacting with blogs, newsletters, and more
- Tabling at local events to get the word out
- Attending town halls or other events

Contact Melanie@f4cr.org or Joan@f4cr.org for a conversation and to find out more

Join the Movement!

Be a Part of Spreading the word. We are committed to sharing this positive message - We Can Restore our Climate!

We are glad to schedule presentations & speakers for:

- Organizations & Groups
- Universities & Classrooms
- Businesses
- Clubs

Become a Messenger for Restoring Our Climate:

- Attend weekly Climate Restoration Community calls, to learn, share & be in action with others to spread the word
- Attend monthly Founders Series sessions on a variety of topics
- Share resources with family, friends and other groups
- Share our youth curriculum with your children
- Join or start a local chapter to be in action together locally

Contact Melanie@f4cr.org or Joan@f4cr.org for a conversation and to find out more

JOIN US IN MAKING A DIFFERENCE

Thank you for your attention and interest in our mission towards climate restoration. **If you're inspired by what you've heard today and wish to contribute to the cause, please scan the QR code to donate.** Every contribution helps us move closer to a sustainable and healthy planet.

Together, we can restore our climate.

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