

Indicators

Severe Weather Events

Quadrupled since

1980;

doubled since 2004

Rising Temperatures

Last 18 years

hottest on record

Warming of Oceans

***Heating 40% faster
than estimated 5
years ago***

Melting of Ice Caps

***Alaskan glaciers
melting 100 times
faster than estimated***

Rising of Oceans

***8-9 inches since 1880;
1/3 of rise in past 25
years***

**Loss of
Bio-Diversity**
*Losing 150-200
species per day*

Increasing Levels of Methane

***Dramatic rise in past
4 years***

Melting of Permafrost

***1/5 of frozen soils at
high latitudes are
thawing rapidly***

**Increasing
levels of CO₂**

***Now at highest level
ever recorded in
history***

Causes

**Burning of fossil
fuels (coal, oil,
gas) which
releases CO₂**

**Industrial
agriculture that
increases
emissions &
degrades the soil**

**Worldwide
deforestation &
loss of wetlands
that absorb CO₂**

**Feedback loops
that accelerate
warming**

**Loss of ice caps
leaving more
dark ocean to
absorb the heat**

**Melting of
permafrost that
releases methane**

**Rapidly growing
world population
with ever increasing
desire for comforts
of modern-day life**

**Long-term ignoring
of scientists'
warnings**

Uncertainties

**Multiple warming
factors
accelerating at an
alarming rate**

**Release of methane
from the permafrost
could be catastrophic
& abrupt**

**Tipping points that
could lead to large
changes in a
climate system**

**An ice-free Arctic
in the summer could
be a trigger for an
even greater
acceleration**

**17% of Amazon
rainforest already
lost; tipping point is
20-25%**

**The Paris Accord is
inadequate & not
being implemented
fast enough**

Key Numbers

1.5C - bad

2-3C - catastrophic

3-5C - possible

extinction

Consequences

Severe Water Shortages

**Massive Crop
Failures
Worldwide**

Unlivable Temperatures

**Unprecedented
Fires &
Floods**

**Destabilized
Oceans/Depleted
Fishing
Grounds**

**Loss of Island
Nations &
Low-lying
Cities**

**Mass
Migrations-
Internal &
External**

**Widespread
Disease/
Unbreathable
Air**

Collapse of Ecosystems

Increased Conflicts/War

Political Instability

Social & Economic Collapse

Ways to Mitigate

**Rapid elimination of
fossil fuels &
conversion to green
energy/carbon
pricing**

**Massive restoration
of forests &
wetlands**

**Rapid spreading of
environmentally-
friendly farming
approaches for
crops & animals**

**Widespread adoption
of green building
standards &
transportation
systems**

**Worldwide adoption
of coordinated plan
for absorbing large
numbers of climate
refugees**

**Elimination of
extreme poverty,
especially in the
Global South**

**Widespread change
in diet from
meat-based to
plant-based**

**Strengthening of
local agriculture &
water systems**

**Major increase in
public
transportation &
walkability in
community design**

Establishment of community-owned utilities

Resisting Forces

**Viewing climate
change as a
political issue**

**Corporations &
governments
that put money
over people**

**Capitalism in its
current form
depends on
continual economic
growth (GDP)**

**Election of
politicians beholden
to corporate
interests & lobbyists**

**Mainstream media
that lulls us into
complacency,
presenting
everything on an
equal level**

**Increasing
nationalism
worldwide at a
time that demands
global cooperation**

**Complacency
based on belief
that
technology will
save us**

**Incremental,
short-term
thinking**

**Massive financial
investment
required**

**Feeling like nothing
we can do will
make a difference**

**Deep attachment
to our way
of living**

**Loss of our sense
of inter-
connectedness
with nature**

THE

CLIMATE

CRISIS

What's

Happening

&

Why

How Bad

How Fast

What Can

Be Done

**What can we do in our
community in the next 10
years to significantly
reduce CO2 emissions and
increase community
resilience?**

**This is a test. Can
you read this?**