

WE'RE GAMBLING WITH OUR OWN SURVIVAL



PAST A CERTAIN AMOUNT OF WARMING, THE COLLAPSE OF HUMAN SOCIETIES IS INEVITABLE.

250 million years ago the Earth was pushed beyond its limit and 96% of all species were wiped from its surface. Scientists call this period the **"GREAT DYING"** and it took 5 million years for the Earth to recover. This cataclysm was caused by a massive release of Carbon Dioxide (CO₂) into the atmosphere. Are we on the verge of a new, human-made "Great Dying"? **IF WE DON'T ACT FAST THEN YES WE ARE**

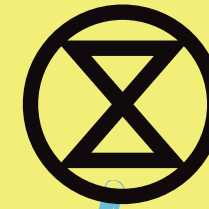
FEEDBACK LOOPS ensure that when either global warming exceeds a certain threshold or when enough ecosystems collapse, the Earth begins to warm up on its own inexorably. Climate catastrophe can become like a giant boulder rolling down a hill, **UNSTOPPABLE**. This is due to self-reinforcing loops. For example, the massive amount of CO₂ emitted by humans warms the atmosphere, triggering the melting of frozen Arctic ground – the permafrost – releasing long-trapped methane into the atmosphere which causes more warming and so on...

ACTING NOW TO REDUCE OUR OWN CO₂-EMISSIONS AS MUCH AS WE CAN IS THE ONLY SANE PATH TO FOLLOW.

Many loops like this exist: the dying of Amazon and boreal forests, the acidification of the oceans, slow-down of Atlantic ocean currents, destruction of marine ecosystems... These loops are already being triggered. For example, the permafrost is melting at a rate that wasn't predicted to happen until the second half of the century!

WE URGENTLY NEED TO STOP OUR OWN GREENHOUSE GAS EMISSIONS before crossing some hidden crucial limit where these loops spiral out of control. We don't know what that limit is. It could be in 50 years or it could be tomorrow. All we know is that the longer we wait, the greater the **RISK OF CLIMATE COLLAPSE**.

Waiting to reduce emissions is a gamble on the survival of the human species. Immediate transformation is not a radical stance – it is the only sensible choice. Together we can stop the giant boulder from falling off the cliff while there is still time: **RIGHT NOW**.



extinction rebellion

THE CLIMATE CRISIS IS HERE

#TELLTHETRUTH
#CLIMATEEMERGENCY
#ACTNOW



EXTINCTIONREBELLION.DE/SCIENCE

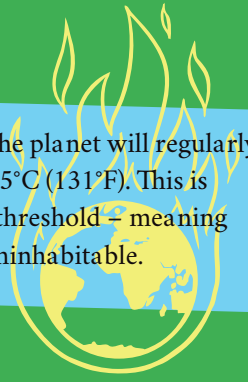
FOR MORE INFORMATION VISIT [EXTINCTIONREBELLION.DE/SCIENCE](https://extinctionrebellion.de/science)

COMIC SCIENCE WORKING GROUP

THE THINGS TO COME ...

TOO HOT TO LIVE!

In the coming decades, much of the planet will regularly experience felt temperatures of 55°C (131°F). This is beyond the human survivability threshold – meaning most of the planet will become uninhabitable.

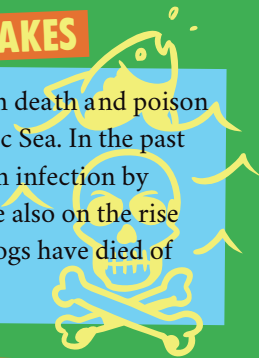


NO BREAD TODAY!

The future of global food production is under threat, due to rising temperature, droughts, soil erosion, overfishing and other factors. Our capacity to feed the world's population will be at risk. In 2018, droughts caused a significant decline in food production in Brandenburg, with further losses expected this year.

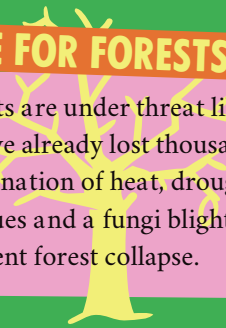
BRANDENBURG LAND OF THE 3000 TOXIC LAKES

Toxic microorganisms that cause fish death and poison sea food are proliferating in the Baltic Sea. In the past two years, four people have died from infection by vibriion bacteria. Toxic organisms are also on the rise in lakes around Berlin, and several dogs have died of contamination at Lake Tegel.



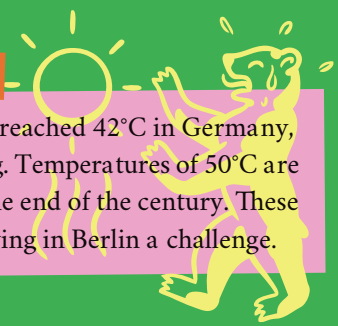
FUTURE FOR FORESTS?

Germany's forests are under threat like never before. This year, we have already lost thousands of acres of forest to a combination of heat, drought, storms, forest fires, beetle plagues and a fungi blight. Radical action is required to prevent forest collapse.



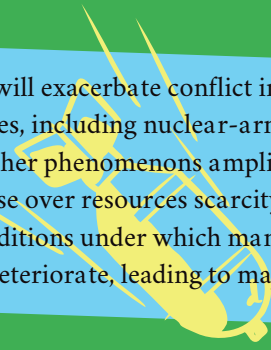
SURVIVE BERLIN

This summer temperatures reached 42°C in Germany, and this is just the beginning. Temperatures of 50°C are predicted in Germany by the end of the century. These conditions will make surviving in Berlin a challenge.



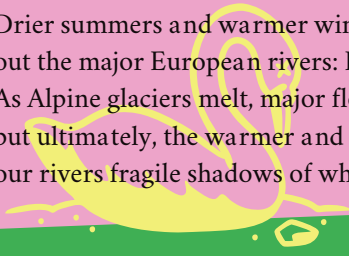
HOT WAR!

A shrinking pie will exacerbate conflict inside and between countries, including nuclear-armed powers. As extreme weather phenomena amplify, political conflicts will arise over resources scarcity and territorial control. The conditions under which many people live will drastically deteriorate, leading to major instabilities.



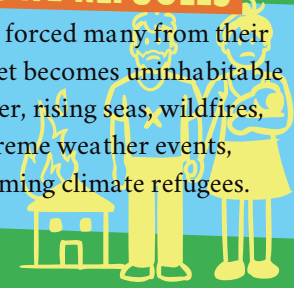
THE BEAUTIFUL DRY DANUBE

Drier summers and warmer winters will ultimately dry out the major European rivers: Rhine, Elba, Danube... As Alpine glaciers melt, major flooding is to be expected, but ultimately, the warmer and drier climate will make our rivers fragile shadows of what they once were!



EVENTUALLY, WE WILL ALL BE CLIMATE REFUGEES

Climate change has already forced many from their homes. As more of the planet becomes uninhabitable due to lack of food and water, rising seas, wildfires, smoke, heat-waves and extreme weather events, everybody is at risk of becoming climate refugees.



WHO IS EXTINCTION REBELLION?

Extinction Rebellion is an international movement that uses non-violent civil disobedience in an attempt to halt mass extinction and minimise the risk of social collapse.

OUR DEMANDS

TELL THE TRUTH

Talk about the climate catastrophe and ecological emergency with your friends, family, peers, and constituents. If you have a bully pulpit, use it.

ACT NOW

Demand that your government halt biodiversity loss and reduce greenhouse gas emissions to net zero by 2025. Technically challenging and will require political and public will.

MOVE BEYOND POLITICS

Call for your government to create citizen's assemblies on climate protection and ecological justice.

ACT NOW

- ⊗ SPREAD THE WORD!
- ⊗ JOIN US FOR OUR CIVIL DISOBEDIENCE ACTIONS
- ⊗ CONTACT YOUR LOCAL POLITICIAN TO ASK FOR THE "DECLARATION OF CLIMATE EMERGENCY"
- ⊗ FOLLOW US   

[EXTINCTIONREBELLION.DE/SCIENCE](https://extinctionrebellion.de/science)