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CLIMATE WEAPONS



Climate Weapons

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Contents

Chapter 1. Neo-Gods. "Masters of the Elements" of the 21st Century

Chapter 2. Through the “snowstorm in our heads”

Chapter 3. Climate declaration of independent researchers and can we stop the "billionaire initiatives" if they smell big money?

Chapter 4. Rainmakers: the first geoengineers or the first "climate adventurers"?

Chapter 5. Ocean geoengineering

Chapter 6. It just happened... an ocean geoengineering experiment that no one conducted

Chapter 7. Designing complex biocenoses in the ocean — a real alternative to primitive technological geoengineering methods

Chapter 8. When states arrive...

Chapter 9. The first climate war

Chapter 10. Modern geoengineering test sites: United Arab Emirates (UAE)

Chapter 11. Modern geoengineering test sites: China

Chapter 12. Climate weapon as an element of emerging ecosystem wars

Chapter 13. "The Great Transformation of Nature"

Chapter 14. Chemtrails: Is it possible to openly poison the people so that no one even notices?

Chapter 15. Contrails: What falls on our heads from the sky openly and officially?

Chapter 16. The latest major projects in geoengineering

Chapter 17. Tectonic weapons — can earthquakes or tsunamis be triggered?

Chapter 18. Appendix

Chapter 19. Earthquake in Turkey — is the use of tectonic weapons possible?

Chapter 20. Climate technologies in our country. Here and now — contemporary use

A BIG AFTERWORD

Chapter 1. Neo-Gods. "Masters of the Elements" of the 21st Century

Foreplay

Foreplay is a combination of emotionally and physically intimate actions between one or more people, intended to create sexual arousal and the desire for sexual activity.

Although foreplay is usually understood as physical activity, non-physical actions, such as mental or verbal actions, can be foreplay in some contexts. For this reason, foreplay is typically an ambiguous term and means different things to different people.

Foreplay is also understood as preliminary caresses. The definition of foreplay is "flexible." Some authors include striptease and undressing a partner, role-playing games, as well as BDSM in foreplay.

I will be talking about climate change caused by humans.

> "The diversion of Siberian rivers to Central Asia," shamanic techno-rituals for "rainmaking," and all that.

I called the introductory chapter "Foreplay" because our brains are more often "composted," so to speak, with the "greatness of Man controlling Nature." But when it comes down to it, alas, it's not so magical! Climate engineering, or geoengineering, at least for now, is a story of epic failures that disrupt existing natural cycles.

This doesn't stop extremely influential wealthy individuals from continuing to promote such projects on an international level. Despite the failures of such technologies now, and the risks of their future application, which exceed the potentially negative consequences of a planetary nuclear war.

In general, geoengineering is a set of measures and interventions aimed at actively changing climatic conditions in a local region of the Earth or across the entire planet for some purpose. Clearly, the goals presented to the public are always noble and lofty: from the abundance of Central Asian products and cotton when planning the diversion of Siberian rivers to Central Asia in the USSR, to, no less than, saving the planet from global warming right now.

In essence, global planetary geoengineering projects have already been sanctioned by the structures of international bureaucracy under the UN.

The main motive behind the formation of the geoengineering concept was the necessity, expressed by some scientists since the 1970s, to actively counteract major climate changes. First, there was the global PR campaign related to the "destruction of the ozone layer by refrigerant CFCs." Then came the one associated with "global warming and the large-scale emission of greenhouse gases."

People are constantly being told that this is already causing enormous economic damage and could eventually lead, no less, to the extinction of humanity.

However, many scientists, even those who support geoengineering ideas, claim that even a significant reduction in harmful emissions into the atmosphere and a shift to non-fossil energy sources will not noticeably impact the existing processes of climate change. The use of technological geoengineering methods yields unpredictable results. The cure, as usual, is more dangerous than the disease.

So, should we be developing methods of twisted collective suicide? Or should we trust the bureaucrats at the UN and transnational capitalists and "risk the planet's health"?

I'm trying to figure this out myself. And I invite the reader to join me.

Let's sort out the terms.

These methods of global technological intervention in natural climate cycles are called climate engineering (or geoengineering) in English.

Climate engineering (geoengineering) is a term used for both carbon dioxide removal (CDR) and solar radiation management (SRM), also known as solar geoengineering when applied on a planetary scale. They have very different geophysical characteristics, so the IPCC (Intergovernmental Panel on Climate Change) no longer uses this overarching term and considers these two main technologies separately.

Approaches to carbon dioxide removal are part of climate change mitigation. Solar geoengineering involves reflecting some of the sunlight (solar radiation) back into space. All forms of geoengineering are not standalone solutions to the problem of climate change. They are usually proposed to be combined with other

forms of climate change mitigation.

Carbon dioxide removal (CDR) is defined as "Anthropogenic activities aimed at removing carbon dioxide (CO2) from the atmosphere and storing it long-term in geological, terrestrial, or oceanic reservoirs, or in products. It includes existing and potential anthropogenic enhancement of biological or geochemical CO2 sinks and direct air capture and storage of carbon dioxide (DACCS), but excludes natural CO2 absorption not directly caused by human activity."

Some types of climate engineering, to put it mildly, spark serious controversy due to the significant uncertainty regarding their effectiveness, side effects, and unforeseen consequences.

It should be added that various forms of "rainmaking" also fall under geoengineering.

However, increasing forested areas, "green wall" projects consisting of forest sections, and similar initiatives are NOT considered geoengineering projects.

Now, as part of our foreplay-introduction, let's turn to the "role of the individual in history."

Let's initially ask the question: who and why is pushing these blatantly dangerous projects with maniacal persistence?

Apparently, geoengineering projects lack practical justification. The risks are significantly higher than the potential benefits.

There's a little song:

Behind Grandpa’s stove
A merry group sits
Singing a little song
And twitching their antennae.
They eat their supper together
Then settle down to rest:
Four inseparable
Cockroaches and a cricket.
One day, for the whole gang,
The old man found some poison,
Sprinkled it behind the stove
To put a stop to their fun.
He slept peacefully that night.
In the morning he looked behind the stove, and there…
The merry group
Was sitting there as before,
Singing a little song
And twitching their antennae.
They had eaten with gusto
The poisonous powder:
Four inseparable

Cockroaches and a cricket.
Grandpa gave them an angry look
And, before going to bed,
He took some dynamite
And blew the whole stove apart.
In the morning, the old man set out
To clear the debris from the corner, and there…
The merry group
Was sitting on the stones,
Singing a little song
And twitching their antennae.

I hope this cheerful verse lightens the mood a bit and makes the reader smile!

But...

The question remains serious! I study geoengineering projects. They are accessible. Some of them are ALREADY being implemented. And I can't shake the feeling that these are attempts to "blow up the whole stove with dynamite" just to get rid of cockroaches!

Why? Where do these maniacal attempts to carry out blatant nonsense come from?!

For me, there's only one answer: uncontrolled, unlimited power leads to the irreversible destruction of the rulers' psyche.

Sadly, I believe billions of people are being governed by psychopaths who have lost touch with reality!

Let me illustrate with perhaps the most famous example.

Nero.

Nero Claudius Caesar Augustus Germanicus (Nero) was the Roman Emperor from October 13, 54 to June 9, 68.

I'll skip the early years of his life and reign, as they're not essential to my narrative.

Nero's behavior changed dramatically in the early 60s. The emperor effectively withdrew from governing the state, ushering in a period of despotism and tyranny. Nero's former wife, Octavia, was executed. Trials for insulting imperial majesty began. As a result, many Romans met their deaths. Among those executed were all of Nero's old political opponents—Pallas, Rubellius Plautus, and Felix Sulla. In general, according to Suetonius Tranquillus, "he executed without limit or distinction anyone and for anything."

At the same time, Nero began to gradually withdraw from managing the country. His interests increasingly focused on the arts. Nero loved to sing, composed plays and poems, and enjoyed participating in poet competitions. However, Tacitus notes that the eulogy delivered by Nero at Claudius's funeral was written by

Seneca. For a long time, the emperor worked on an epic poem about the fall of Troy.

Initially, the emperor performed music at banquets. However, with the help of court flatterers, he became convinced of his talent. In 64, Nero performed publicly in Naples for the first time. From then on, he participated in almost all poetic and musical contests, where he invariably "won."

Sources also mention other "peculiarities" of Nero. Although all emperors of the dynasty were known for homosexual relationships, Nero was the first to celebrate weddings with his lovers, theatrically imitating the Roman ritual. For instance, after marrying the eunuch Sporus, he dressed him as an empress. At the wedding with the freedman Pythagoras, Nero himself played the role of the "wife." According to Suetonius, "he gave his own body to such debauchery so many times that hardly any part of it remained untainted."

On the night of July 19, 64, one of the largest fires in Rome's history occurred. The fire spread from shops located on the southeast side of the Great Circus. By morning, most of the city was engulfed in flames. Nero had left Rome for Antium several days before the fire began.

Suetonius claims that Nero himself was the instigator of the fire, and that arsonists with torches were seen in the courtyards. According to legends, when the emperor was informed of the fire, he rode towards Rome and watched the flames from a safe distance. Meanwhile, Nero was dressed in theatrical costume, playing the lyre and reciting a poem about the fall of Troy.

Something like that...

And there are countless examples of this throughout history!

So, I personally wouldn't put much faith in the basic sanity of these "great emperors" and other "rulers of the universe."

So let's delve together into what this mysterious "geoengineering" is and what risks such technologies might entail.

Chapter 2. Through the “snowstorm in our heads”

“Snowpiercer” is a post-apocalyptic South Korean thriller. It premiered in South Korea on August 1, 2013. The film is recognized as one of the best films of 2014.

The plot of the film is a “classic,” if you can call it that, solar geoengineering project (SRM — “solar radiation modification”) — the modification of solar radiation.

According to the plot, in 2014, scientists initiated a process intended to stop global warming on Earth by spraying the chemical CW-7 into the atmosphere, but the process spiraled out of control. As a result, an Ice Age ensued. Seventeen years later, the world is locked in ice and snow. All this time, a long express train, launched during the catastrophe by railroad magnate Wilford, races nonstop around the globe.

It's like a parable film. In a fantastical form, it shows the psychopathological, I would say, foundations of real modern capitalism. When all-powerful, all-controlling transnational corporations strive to take complete

control over literally everyone on the planet. Why? For no reason! I see one very simple explanation for myself—mentally ill individuals are driven to power, driven to endless enrichment. And as a result, we end up with a mentally ill system of society as a whole!

Does anyone have a better explanation? I don't. Unfortunately...

An interesting point is that the film "Snowpiercer" was made during a period when the struggle of transnational structures for "world domination" under the pretext of the "fight to save the planet from climate change" sharply intensified. And I mean not only transnational commercial structures but also the UN and the like — the emerging "transnational bureaucracy."

In 2014, the Climate Summit took place. It's even called the "Climate Leaders Summit," without specifying the year or anything else, emphasizing the special significance of this event. The meeting on climate change was held in New York on September 23, 2014. UN Secretary-General Ban Ki-moon announced it in advance, in September 2013, and urged leaders of governments, the private sector, and civil society to unite "to take concrete actions to create a world with low carbon emissions."

The 2014 Climate Summit was dedicated to initiatives and actions, not negotiations between countries. That is, ALREADY CONCRETE ACTIONS! It was also seen as a key step towards a new legal agreement on climate change, the Paris Agreement, which was adopted at COP21 in Paris in December 2015 and came into force in November 2016.

And, in fact, we now live in a world where GEOENGINEERING IS LEGITIMIZED (LEGALIZED) AT THE INTERNATIONAL LEVEL.

Geoengineering projects are not supported by everyone. I'm talking about scientists, about specialists.

Moreover!

Projects of a PLANETARY SCALE for solar geoengineering (SRM — "solar radiation modification") — the modification of solar radiation — are generally considered by MOST SPECIALISTS to be extremely dangerous, carrying far greater risks than the problem of "warming" itself.

Such projects should generally be banned at the intergovernmental level — this is the opinion expressed by leading climatologists worldwide. In 2022, more than 60 authoritative experts, politicians, and scientists dealing with climate issues signed such an appeal. The

corresponding petition and comments were published in the climatological journal “WIREs Climate Change.”

One of the most widely DISCUSSED RIGHT NOW solar geoengineering projects (SRM) proposes blocking part of the solar radiation reaching Earth by spraying billions of fine sulfur particles into the middle layers of the atmosphere. However, the negative consequences of such large-scale interference in natural processes could far exceed any potential benefits. This is what climate scientists are declaring, addressing the global public. In an open letter, supported by relevant research.

“The deployment of solar geoengineering cannot be regulated in a globally fair, inclusive, and effective manner,” the authors write, “Therefore, we call for immediate political decisions from governments, the United Nations, and other entities to prevent the implementation of solar geoengineering projects in an attempt to normalize the planet’s climate situation.”

What are the mega-projects of “dusting” the upper layers of the atmosphere based on?

It's long been known that introducing a large amount of reflective particles into the upper layers of the atmosphere can cool the planet. This has happened naturally several times. For instance, the eruption of

Mount Pinatubo in 1991 in the Philippines led to a decrease in the Earth's average surface temperature for more than a year.

So why not give it a try?! Why do professionals in the field urge us to abandon such technologies?! Scientists say there are several reasons to reject these solutions.

FIRST

Many studies supported by the Intergovernmental Panel on Climate Change (IPCC) show that artificially reducing solar radiation could disrupt monsoon rain patterns in South Asia and West Africa, destroying rain-fed crops that hundreds of millions of people rely on.

SECOND

It could also threaten the drying up or even the depletion of the most water-rich river on Earth — the Amazon. However, other regions might benefit: a study conducted last year concluded that SRM could sharply reduce the risk of drought in southern Africa.

“Maybe,” “written on water” — do you know that saying?

THIRD

Scientists also point to the so-called “termination shock” if the filling of the atmosphere with sun-blocking particles suddenly stops. If SRM activities “are abruptly halted for any reason, there is a high likelihood that the Earth's surface temperature will quickly rise,” write IPCC experts. The greenhouse effect, to put it simply — particles dispersed in the atmosphere not only block sunlight from reaching the planet's surface but also prevent its reflection. And computer modeling of these processes yields results that are, to say the least, ambiguous!

I'm trying to simplify these extremely complex processes for the reader. This, by the way, is the essence of the risks — the processes are so complex that the effect is UNPREDICTABLE!

FOURTH

Moreover, this “sunlight reflection” technology will not stop the ongoing accumulation of CO2 in the atmosphere, which in any case irreversibly changes the chemical composition of the world's oceans. An open letter also warns that hopes for a quick fix to climate problems “could deprive governments, businesses, and society of the incentives to do everything possible to achieve decarbonization or carbon neutrality as soon as

possible.”

FIFTH

And finally, there are currently no global management and monitoring systems for implementing solar geoengineering projects, which could be initiated by individual countries or even resourceful billionaires. The open letter calls for an “international non-use agreement” to block national funding, risky planetary experiments, and deny patent rights for SRM technologies.

Something like that...

So why do “resourceful billionaires” along with the UN's international bureaucracy continue to push for technological mega-projects in solar geoengineering by any means necessary, when leading climate experts worldwide are calling for an “international non-use agreement” on THIS?!

“Snowstorm in their heads.”

The mental inadequacy of a handful of people with unlimited resources and power compared to 99.9% of the rest of the planet's population.

“Neo-gods” wanting to toy with the planet itself.

Modern-day Neros, ready to set the planet on fire as a backdrop for their own “erotic fantasies.”

Unfortunately, I can't find any other explanation for myself! The problem isn't “warming,” “overpopulation,” or even modern technological civilization directly affecting planetary processes! The problem is the uncontrollable idiots who, alas, rule the world!

Chapter 3. Climate declaration of independent researchers and can we stop the "billionaire initiatives" if they smell big money?

On June 27, 2022, the Climate Declaration of Independent Scientists was published. In the previous chapter, I mentioned the recent Scientists' Petition against technological geoengineering projects. I will present the full climate declaration here, with only minor stylistic edits (the original is in English and I read it through an auto-translator).

This is important: all geoengineering projects are justified precisely as a "fight to save the planet's climate."

...and the doubts about the "purity of intentions" of the "enterprising billionaires" from serious climate scientists are very interesting and important for understanding the essence of technological geoengineering projects and the reasons why "enterprising billionaires," together

with international bureaucracy, promote such projects by any means.

WORLD CLIMATE DECLARATION

Climate science should be less political. At the same time, climate policy should be more scientific. In particular, scientists must emphasize that the results of their modeling are not the result of magic: computer models are created by humans. What comes out depends entirely on what theorists and programmers have put in: hypotheses, assumptions, relationships, parameterizations, stability constraints, etc. Unfortunately, in mainstream climate science, much of this contribution of subjective factors remains unexplained.

To believe in the result of a climate model is to believe in what the model's creators have put into it. This is precisely the problem in today's climate discussion, where climate models take center stage. Climate science has degenerated into a discussion based on beliefs rather than sound, self-critical science. We must free ourselves from naive faith in immature climate models. Future climate research should pay significantly more attention to empirical science.

1. There is no climate emergency!

A global network of more than 1400 scientists and professionals has prepared this urgent message. Climate science should be less political, while climate policy should be more scientific. Scientists should openly address the uncertainties and exaggerations in their global warming forecasts, while politicians should impartially calculate the real costs as well as the imagined benefits of their policy measures.

2. Warming is caused by both natural and anthropogenic factors.

The geological record shows that Earth's climate has changed since the planet's existence, with natural cold and warm phases. The Little Ice Age ended quite recently, in 1850. So, it's no surprise that we are currently experiencing a warming period.

3. Warming is occurring much more slowly than predicted.

The world has warmed significantly less than the IPCC predicted based on modeled anthropogenic impact. The gap between the real world and the modeled world tells us that we are far from understanding climate change.

4. Climate policy relies on inadequate models.

Climate models have many shortcomings and are not even remotely suitable as tools for global policy. They exaggerate the impact of greenhouse gases like CO2. Moreover, they ignore the fact that enriching the atmosphere with CO2 is beneficial.

5. CO2 is plant food, the foundation of all life on Earth.

CO2 is not a pollutant. It is essential for all life on Earth. Photosynthesis is a blessing. More CO2 is beneficial for nature, greening the Earth: the additional CO2 in the air has contributed to the growth of global plant biomass. It is also beneficial for agriculture, increasing crop yields worldwide.

6. Global warming has not led to an increase in natural disasters.

There is no statistical evidence that global warming intensifies hurricanes, floods, droughts, and similar natural disasters or makes them more frequent. However, there is ample evidence that CO2 mitigation measures are as harmful as they are costly.

7. Climate policy must consider scientific and economic realities.

There is no climate emergency. Therefore, there is no reason for panic and alarm. We strongly oppose the harmful and unrealistic net-zero CO2 policy proposed

for 2050. If more effective approaches emerge, and they certainly will, we will have ample time to reflect and adapt. The goal of global policy should be "prosperity for all" through the continuous provision of reliable and affordable energy. In a prosperous society, men and women are well-educated, birth rates are low, and people care for the environment.

Epilogue

The World Climate Declaration (WCD) has brought together a large number of competent scientists from around the world. The significant knowledge and experience of this group are necessary to develop a balanced, unbiased, and competent view on climate change.

From now on, the group will operate as the "Global Climate Intelligence Group." The CLINTEL group will provide governments and companies worldwide with both solicited and unsolicited advice on climate change and energy transition. The AMBASSADORS of the World Climate Declaration who initiated its publication:

Nobel Laureate Professor Ivar Giaever Norway/USA; Professor Guus Berkhout / Netherlands; Dr. Cornelis le Pair / Netherlands; Professor Reynald du Berger / French-speaking Canada; Barry Brill / New Zealand; Viv

Forbes / Australia; Dr. Patrick Moore / English-speaking Canada; Jens Morton Hansen / Denmark; Professor László Szarka / Hungary; Professor Sok Soon Park / South Korea; Professor Jan-Erik Solheim / Norway; Stavros Alexandris / Greece; Ferdinand Meeus / Dutch-speaking Belgium; Professor Richard Lindzen / USA; Henri A. Masson / French-speaking Belgium; Professor Ingemar Nordin / Sweden; Jim O'Brien / Republic of Ireland; Professor Ian Plimer / Australia; Douglas Pollock / Chile; Dr. Blanca Parga Landa / Spain; Professor Alberto Prestininzi / Italy; Professor Benoît Rittaud / France; Dr. Thiago Maia / Brazil; Professor Fritz Vahrenholt / Germany; Viscount Monckton of Brenchley / UK; Dušan Bijic / Croatia, Bosnia and Herzegovina, Serbia, and Montenegro.

(And plus another 168 renowned climate specialists from around the world as of the Declaration's publication on June 27, 2022.)

That's how it is...

In my view, 2022 was somewhat of a turning point: a large number of serious scientists began to unite for the first time to challenge the "climate agenda" imposed on people worldwide by a "group of proactive billionaires." The question is: why?!

This is worth investigating! Especially since they are reaching out to us, the ordinary people, having lost faith in their appeals to governments worldwide!

I often hear: "What can we, ordinary people, do if 'proactive billionaires' are essentially conducting subversive activities against us (and against the very Living Nature of Earth, I might add!) with the full power of their multinational corporations?!"

I always answer the same way: We can, and a lot! You're just counting wrong! Yes, "enterprising billionaires" now control 99% of the world's money. But we, those of us who were left with just 1% of financial assets as a gift from their masters, make up 99.9% of REAL LIVING PEOPLE! Their so-called "money" is an illusion in their heads and numbers on computers. We're simply under the social hypnosis of the media, obeying and fulfilling the whims of a handful of neo-Neros who fancy themselves neo-"deities." And there's an option: just unite and send these neo-"deities" packing, protecting OUR interests and OUR land!

Let me give you an example from the past, 2021.

The first-ever stratospheric test of geoengineering technology, funded by Bill Gates, was halted under pressure from the indigenous people over whose heads

it was to take place—the Sámi of northern Scandinavia.

On the recommendation of the project's Advisory Committee, the test planned for June 2021 was canceled. This became public knowledge on March 31.

The backstory is this: when it became known in 2010 that Bill Gates had invested $4.5 million in geoengineering research, one of the scientists he appointed to oversee the project, Ken Caldeira, stated that this money was not being used to fund any field experiments. However, as the project expanded and moved to Harvard, that line was crossed. They even reached the practical application of the technology.

In a first-of-its-kind test of geoengineering technologies in the stratosphere, the experiment known as SCoPEx—short for Stratospheric Controlled Perturbation Experiment—planned to release about a kilogram of calcium carbonate, essentially chalk dust, from a moving gondola-balloon setup at an altitude of 12 miles. The particles could cover an area equivalent to 11 football fields and test the material's ability to block some solar radiation, counteracting the heat-trapping effect of carbon dioxide. The June experiment over sparsely populated Sámi territories would have tested the installation technologies.

In December 2020, SCoPEx announced it was relocating the installation tests to Sweden due to the pandemic. Previously, these were planned for Arizona and New Mexico. The new testing ground was to be the Swedish Space Corporation's launch center in Kiruna, near the Arctic Circle, the homeland of the Sámi. The problem was that no one bothered to inform either the Sámi or anyone else in Sweden.

The Sámi Council, which protects the rights of the reindeer-herding people from Norway to Russia, sent a letter on February 24 to the SCoPEx Advisory Committee, opposing not only the experiment but the entire premise of geoengineering research outside of international consensus. It was signed by leaders of the Swedish Society for Nature Conservation, the Swedish Friends of the Earth, and Swedish Greenpeace.

The letter from the Sámi and their allies summarizes the fundamental contradiction of Harvard's PRIVATE research and geoengineering experiments in general—PRIVATE CORPORATIONS are taking on the authority and making decisions with such enormous potential consequences that it is completely unacceptable.

Stratospheric aerosol injection (SAI), write the Sámi and ecologists, "entails risks of catastrophic consequences, including... uncontrolled cessation..." If this were stopped, the heat-trapping effect of carbon dioxide would reappear and cause sudden warming, like an addict experiencing withdrawal—"and this would lead to irreversible socio-political consequences for the local population." In other words, geoengineering would serve as a pretext for influential circles to further expand the use of technological geoengineering, making both the local population and national governments dependent on PRIVATE GEOENGINEERING COMPANIES.

“Thus, there are no acceptable reasons to allow the SCoPEx project to proceed in Sweden or anywhere else,” declared the Sámi and the environmental organizations supporting them.

For reference: The Sámi (also known as Lapps or Laplanders) are a small Finno-Ugric people; they are the indigenous people of Northern Europe.

Lapland has never been a unified state entity. Currently, it is divided among four countries: Norway, Sweden, Finland, and Russia (the Kola Peninsula).

The total number of Sámi is between 60,000 and 80,000 people, with 17,000 to 20,000 residing in Sweden.

That's how it is. A small northern nation, united, kicked out the transnationals and the "enterprising billionaire" Bill Gates from their land along with their dubious geoengineering experiments!

Let me add this: it’s important to point out that the proposed geoengineering technology carries with it an irreversible dependency on the persistently pushed technology, even on a local scale in the future.

The issue is that these “enterprising billionaires” won’t stop there; they’ll just keep “pushing” their technology in other corners of the Earth!

In their own, PRIVATE interests.

Trying to “hook” entire countries and peoples on geoengineering technology, provoking economic dependency on its use in the future.

And there’s no “saving the planet from climate catastrophe”—just pure, unprincipled greed! Like in the movie “Snowpiercer”—where do you plan to jump off our train then?!

Let’s go over the “what” and “why” once more.

Let’s clarify the terms, which are often contradictory.

In the Russian-speaking space, the term "geoengineering" has taken root. However, in the format of international discussions on the topic, this term is in the past. It has been deemed excessively inaccurate. Now, the term "climate engineering" is more commonly used.

So, essentially, there’s still no consensus on the terminology itself! What is it? A science? Or already a set of practical technologies? Or perhaps, is there more pseudo-scientific nonsense and outright fraud in it? A kind of pseudo-science?

Let me say right away—yes, these are quite real (and functioning!) technologies. The history of practically working technologies for “rainmaking,” for example, is estimated at 75–80 years. This is a history of LARGE-SCALE actions. The history of the first successful local experiments in this field exceeds a century. At least!

More than 80 countries are conducting research on artificial weather modification. Advanced industrial technologies are possessed by the United States, Russia, China, Australia, France, Israel, Thailand, India, and other countries. And the list of such countries is growing.

Significant progress has been made in large-scale industrial use in the United States and China. Long-term cloud seeding in the Nevada mountains in the U.S. increases the snowpack by 10% or more each year. A decade-long cloud seeding experiment in Wyoming led to a 5–10% increase in snowpack. And this is used on an industrial scale in at least eight states in the western U.S.!

Advancements in the development and application of tools and reagents for cloud seeding have led to the formation of integrated systems of aerial and ground operations in many countries. The U.S., Canada, Australia, Israel, South Africa, and Thailand primarily use aircraft and ground generators for weather modification.

Russia, China, and Bulgaria are adjusting the weather using powerful aircraft, ground-based generators, as well as rockets or artillery. The United Arab Emirates (UAE) simply purchase the necessary technologies and have been using them "to the fullest" in recent years, terrifying neighboring countries with the scale of their activities.

I'll even try to briefly sketch the history of "rainmaking" technology:

1841.

American meteorologist James Pollard Espy publishes "The Philosophy of Storms," where he presents his thermal theory of storm formation and describes in detail a method by which "rain can be artificially induced during drought." By igniting "large fires" and creating hot air columns, he claimed precipitation could be generated on command. This proposed technology even earned him the nickname "Storm King."

1896.

Swedish chemist Svante Arrhenius studies the impact of increased carbon dioxide levels on global temperatures. He was the first scientist to calculate how exactly doubling the amount of carbon dioxide in the atmosphere would affect the climate. His conclusion that Earth's temperature would rise by about 9 degrees Fahrenheit led him to speculate in 1908 that by increasing the amount of "carbonic acid" in the atmosphere, "we might hope to enjoy ages with more equitable and better climates." As you can see, the approach in those years was directly opposite to today's! "Global warming" was considered a positive factor!

1932.

The Soviet Union establishes the Institute of Rainmaking in Leningrad, laying the foundation for decades of cloud seeding experiments as a means of weather modification.

Late 1940s.

American mathematician John von Neumann researches weather modification and its potential use in climate wars for the U.S. Department of Defense with his scientific team.

1946.

American chemist Vincent J. Schaefer used a Fairchild monoplane to seed dry ice over clouds, causing snow to form due to supercooling. He conducted the first scientific experiment with supercooled clouds.

In the same year, the U.S. followed the USSR's example at the government level. Scientists from the General Electric research lab in New York discovered that dry ice stimulates the formation of ice crystals.

Under the aegis of the U.S. federal government, General Electric developed the first artificial weather modification program ("Project Cirrus") between 1947 and 1952, investing in the purchase and outfitting of military aircraft, airships, automatic dry ice spreaders, smoke generators, pyrotechnics, and other equipment.

During the Cold War, both superpowers conducted hundreds of experiments using solid carbon dioxide, silver iodide, and other solid particles to induce precipitation. The success of these experiments was greatly exaggerated. However, scientists from both countries did manage to alter weather conditions on a small scale.

1958.

"If a hostile nation were to gain control of large-scale weather patterns before we do, the result could be even more catastrophic than nuclear war," declared Howard T. Orville, advisor to U.S. President Dwight Eisenhower on weather issues. This clearly shows the enormous importance given to geoengineering projects at the time!

And yes, it was then that the idea of a "climate weapon" emerged.

Geoengineering almost immediately found active military application in the U.S., with corresponding massive funding. From 1967 to 1972, the U.S. Air Force conducted "Operation Popeye," a strictly classified "rainmaking" program deployed in Southeast Asia "in an attempt to slow the movement of North Vietnamese troops and supplies along the Ho Chi Minh trail

network," as stated in official documents.

According to Seymour Hersh, who published the story of this program in The New York Times in 1972:

“This kind of thing was a bombshell, and Henry (Kissinger, the President’s National Security Advisor) restricted information about it even from those who needed to know.”

The exposure of this program caused such international outrage that in 1977 the UN adopted a convention prohibiting the use of environmental modification technology in military actions. The United States ratified this convention in 1980. And, supposedly, no one ever again tried to change the weather for warfare. Just one "not-so-modest question" for contemplation: Would world leaders ever lie to the public about something like this? Never-ever?!

Not too shabby, right?! And this is just a brief sketch of mainly one geoengineering technology—the “rainmaking” technology. No shamanic “dances with tambourines” or appeals to the High Heavens. Just simple. Practical. Not too expensive. And in recent years—with the exponentially growing scale of DIRECT TECHNOLOGICAL INTERVENTION IN THE PLANET’S NATURAL CYCLES.

There you have it…

Make it rain over a vast area. Trigger a volcano. Eclipse the Sun itself with dust in the stratosphere. “Shake the planet by the balls” for a bit of rain.

And I sincerely hope that Humanity can put an end to such “childish pranks” and finally grow up! Because right now these technologies are actively scaling up, but there is absolutely no (!!!) understanding of their long-term consequences! None. At all. Absolutely. Governments and multinational corporations are playing with the climate of huge macro-regions, without thinking about anything but immediate benefits.

And yes, there is such a term: “climate weapon.” Oh dear, “not conventionally banned,” of course… but…

For reference:

> “The Convention on the Prohibition of Military or Any Other Hostile Use of Environmental Modification Techniques (ENMOD) is one of the main UN documents prohibiting its participants from military or any other hostile use of environmental modification techniques by deliberately manipulating natural processes to change the dynamics, composition, and structure of the Earth, including its biota, lithosphere,

> hydrosphere, atmosphere, or outer space.
> The development of the convention was initiated by the USSR, it was opened for signature on May 18, 1977, and entered into force on October 5, 1978. As of mid-1997, 58 states, including the Russian Federation as the successor to the USSR, had become parties to it.
> Under the agreement, participants are obliged to cooperate in the exchange of scientific and technical information on work in the field of constructive influence on nature and the peaceful use of the environment. The convention does not hinder the impact on natural processes for constructive purposes, but it provides for a number of strict measures to ensure strict compliance with its provisions by all participating states.”

Three small post scriptum remarks:

FIRST

Out of approximately 195 countries in the world, 58 have signed the Convention. Meanwhile, around 80 are actively working on geoengineering. And this doesn't include transnational corporations and "enterprising billionaires."

SECOND

Where is the line between “impact on natural processes for constructive purposes” and military purposes? Who can determine this and how?

THIRD

What if “they meant well, but it turned out as always”? What if a sheikh from the UAE is a clinical idiot, but he has endless money and he “just wants a bit of rain”?!

Such not-so-comfortable questions arise, indeed…

“Geoengineering,” “climate engineering,” or “climate weapon” after all? Where and what is the difference? At the very least, these are “dual-use technologies”! And what to do when such technologies end up in the hands of “initiative idiots” with money?!

Chapter 4. Rainmakers: the first geoengineers or the first "climate adventurers"?

In the spectacular novel (and its equally spectacular film adaptations) by Ilf and Petrov, "The Twelve Chairs," the main character is the utterly inimitable con artist Ostap Bender, who has charmed generations of audiences. More precisely, Ostap-Suleiman-Berta-Maria-Bender-bey (in "The Twelve Chairs") and Bender-Zadunaisky (in "The Little Golden Calf"). What can you do? Adventurers (or even con artist adventurers) always attract with their certain "wildness," "gypsy-like" flair, and bravado, even if it's not entirely "legitimate," but still freedom.

Though, when, in what times, was freedom ever legitimate?! But that's just a bit of lyrical digression in light of the trendy modern attempts to impose various "digital," but essentially "classic" concentration camps on people worldwide using digital technologies.

So, charming con artists like Ostap Ibragimovich roamed the expanses of Texas and other Great Plains in the USA and other corners of the world, where hardworking and naive (which is important!) farmers lived, selling rain in the early 20th century. In those bright distant times, when there were few laws against fraud and even less scientific knowledge among farmers. And these very farmers depended on the weather a little more than entirely. No rain—no harvest. And that means there's nothing to live on, up to the complete absence of food.

And then a scientist shows up, "dressed in white," with a bunch of mysterious gadgets and devices, offering to organize a "rain shower on the cheap." You won't believe it: just fifty dollars! Don't believe it?! Well, the "naive farmers" didn't at first either. But they came around: there were articles about the "rain professor" in the press (of course, as always, in the sleazy press and "as an advertisement"), the respectable appearance of a distinguished gentleman, and a collection of mysterious devices.

They convinced themselves of the "scientific nature of the method" of the charlatan magician, and in the end, the farmers paid up! And at 50 dollars from ten farmers—that's already 500 dollars! And a dollar at the

beginning of the 20th century was solid and gold-backed, like a royal ten-ruble coin. Later, it was detached from the gold standard and became "cut paper," as they say now. Well, what can you do! Bigger crooks came along and pushed the "small fry" out of the market. Both from the financial markets and the "rain trade" market.

In reality, there were plenty of "charming frauds in climatology" at the beginning of the 20th century! Dozens of truly outstanding figures of this kind and hundreds (if not thousands!) of their less charismatic followers. I'll just illustrate my narrative with a few examples.

It's quite reasonable to assume that the foundation of "rainmaking" and "rain calling" in 19th-century America was a cognitive distortion. A general human tendency toward "magical thinking." The belief that a thunderous noise, resembling natural thunder, could either bring about rain or stop it is as old as thunder, lightning, and rain themselves. Probably... Well, at least shamans from various cultures beat their tom-toms, tambourines, and other drums for exactly this reason! Pretending to be the "younger brother of the thunder deity!"

This cognitive distortion is called "sympathetic magic"—a form of sorcery based on the idea that objects similar in appearance or properties supposedly form a supernatural, magical connection.

Since the times of Hellas, rain has also been associated with war. The ancient Greeks wrote that "extraordinary rains quite often fall after great battles—either some divine force washes and cleanses the defiled earth with showers from above, or the air is thickened by the moist and heavy vapors rising from blood and decay."

By the 18th century, parallels between wars and rain were drawn with cannon volleys and artillery fire. Such a connection was noted, though not by scientists, but by... military leaders, including... NAPOLEON himself!

In 19th-century America, the first proponent of the "theory of rain induced by atmospheric disturbances" was likely J.C. Lewis. He "noted the very heavy rain that began immediately after the artillery salvos during the celebration of the meeting of Lake Erie and the Hudson." Nearly four decades later, in the first year of the Civil War, Lewis wrote that the day after the recent battle at Bull Run, the rain on the battlefield "was heavy all day and into the deep night."

"The centuries-old history of rains on battlefields, personal observations of how artillery fire brought rain from the sky on the Erie Canal, and the battles at the start of the Civil War fully confirmed this fact," Lewis wrote in 1861 in a letter published in the first American scientific journal, "The American Journal of Science and Arts,"—"The volleys of heavy artillery in nearby locations produce such a disturbance that vapor condenses and falls, usually in unusual amounts, on the same day or the next day."

In 1871, retired Civil War General Edward Powers published a treatise titled "War and Weather, or Artificial Rainmaking." The same sympathetic magic, plus the observations of a veteran on the battlefields, caught the attention not only of the public but also of the government. Powers proposed using two hundred siege guns from the federal arsenal in Rock Island for two experiments: one to see if a thunderstorm could be conjured in a clear sky, and the other to determine if an approaching storm could be diverted from its natural course.

Overall, those were the epic times of "climate technologies" in the USA! A hellish mix of ancient magic and emerging science, all stirred together with the "spirit of entrepreneurship"!

Using explosives, chemicals, gases, or some "top secret formulas," certain "craftsmen" took it upon themselves to "summon rain." And government officials boldly followed the same path, allocating budget funds. In Kansas and Nebraska, authorities were buying tons (!!!) of dynamite everywhere to try to call down rain with explosions.

In Nebraska, farmers created the "Rain God Association" and raised a thousand dollars for gunpowder. On a hot July day, they set up artillery at "Rain God posts" positioned on elevations over a stretch of four hundred (!!!) kilometers. Just imagine the scale! At a prearranged moment, the farmers detonated all their gunpowder, and... and no rain followed — it was one of the first spectacular failures of emerging geoengineering!

And it was precisely in this legendary era that wandering "rainmakers" emerged in the United States.

One of the most famous, Frank Melbourne, turned out to be the most legendary charlatan. He was called the "Rain Wizard," "The Australian," or "The Irish Conjurer." Born in Ireland, he lived in Australia, where he supposedly "honed his skill in summoning rain." He himself claimed that he "was forced to hide to avoid revenge for the floods he had caused."

Judging by history, this gentleman also acquired the surname "Melbourne" somewhere there in Australia. Most likely, he was called something else before.

A tall, black-bearded handsome man appeared in 1891 in Canton, Ohio. Soon, the "rain-making" he publicly demonstrated became a popular spectacle. Melbourne would bet on whether he could summon rain or not, and... and more often than not, he stuffed his wallet!

Spoiler: it later turned out that the American Ostap had been reading weather forecasts and had a barometer, while the public did not.

As his business developed, Melbourne began charging $500 for a "good rain" that would spread 80–160 kilometers in all directions. Unlike explosions, his methods were quiet and mysterious. His "rain mill" had a handle and operated on some kind of gases. Of course, no one ever saw it. After all, it was a secret! He carried this device in a simple black satchel along with a large revolver to "scare off overly curious onlookers."

The media frenzy inflated Melbourne's fame to the heavens, even though many of his attempts failed to squeeze a single drop of moisture from the sky.

For example, he didn't bring rain to Goodland, Kansas, even though he conjured for several days. But in other parts of the state, it rained just at that time, and he claimed that "the results of his labor were carried away by the wind." Journalists from the Chicago Tribune, "warmed up" by a certain amount of dollars, spun the situation like this: "Melbourne calls forth rain. His latest experiments in Goodland are a complete success," ... and Melbourne becomes more and more popular and charges higher and higher fees... possibly, by the way, this is exactly what ruined him.

Interest in the "rainmaker" intensified. Someone realized that the dates Melbourne chose for "calling the rain" coincided with the days when Hicks' popular weather almanac predicted rain. Questions arose. Journalists, whom he didn't "warm up" with dollars, started digging deeper.

Melbourne's adventures ended with him being found dead in a hotel room in Denver in 1894. The police ruled it a suicide. However, according to other reports, he simply returned to Australia. A mysterious and adventurous story, in short! One can only speculate that it wasn't Mr. Melbourne who made it back to Australia, but perhaps Mr. Goodland... or Goodwin. Remember?

“We’re off to the Emerald City

We walk a difficult road,
We walk a difficult road,
A winding road
Three cherished wishes
The wise Goodwin will fulfill"…

It seems quite likely that the prototype for the "Wizard of Goodwin" from "The Wizard of the Emerald City" could very well have been our Mr. Melbourne: Kansas, around the same years, with about the same "spirit of magic"!

It's worth adding that the legacy of the "rainmaker" continued to thrive on the Great Plains of the United States. As he bid farewell to Goodland, Mr. Melbourne managed to sell his secret formula and copies of his rainmaking devices to local businessmen. After Melbourne left Goodland, three new companies carried on his work!

But perhaps the most famous of the "rainmakers" was the American Charles Hatfield. Honestly, the man was simply legendary!

Hatfield was born right in the area where rain was first artificially induced in America—in Kansas. Yes, the same place where Mr. Melbourne "made it rain" and where the tornado whisked Ellie away to the Wizard Goodwin

in the Emerald Land!

When Hatfield was still a child, his family moved to Southern California. He began his career selling sewing machines. But his main passion since childhood was the atmosphere. Hatfield read and reread all the books on weather available at the time. This is confirmed by many sources. His notes can still be found in William Davis's "Elementary Meteorology" at the San Diego Public Library.

As a boy living on his father's farm near San Diego, he was captivated by tales of the legendary exploits of "Prophet Potts," who declared himself a specialist in precipitation and operated in Southern California at the turn of the 18th–19th centuries.

He also read and reread Edward Powers' 1871 book on the scientific approach to "rainmaking," which I mentioned earlier.

By 1902, Hatfield had quit his job selling sewing machines and devoted all his time to weather experiments. However, he never claimed he could make it rain; instead, he said he was "simply helping nature by disrupting atmospheric equilibrium through concentrating moisture rather than dispersing it."

He signed his first "rain" contract for $50 in 1903 with a farmer near Los Angeles. To the amazement of onlookers, a heavy downpour followed after Hatfield set up his equipment and released smoke. The delighted farmer even generously tipped him an additional $50.

Over 25 years of work in Los Angeles and surrounding areas, Hatfield signed more than 500 contracts ranging from $50 to $10,000. Impressive, isn't it?!

For $4000, he contracted to fill the Hemet Reservoir with water. The subsequent rainfall amounted to 11 inches, which raised the reservoir's water level by 22 feet and, according to the maintenance staff, resulted in the largest profit they had ever received.

In 1906, the rivers of the Klondike (in Canada near the Alaskan border) dried up so much that prospectors couldn't work with their sluice boxes. Prospectors from the town of Dawson collected $10,000 in gold for him, just to get him to agree to help them. And they got exactly what they ordered! Thirty-six hours after Hatfield got to work, thunderclouds rolled across the sky, and the 4 inches of rainfall restored the mines to operation.

In 1915, the San Diego City Council approached Hatfield with a request to summon rain to fill the Morena Dam reservoir.

By the start of the new year, Hatfield had prepared the equipment and initiated the process. On January 5, 1916, a heavy rain began, growing stronger by the day. The dry riverbeds not only filled up but also caused floods. These floods destroyed bridges, halted trains, and cut telephone cables, not to mention flooding homes and farms. Two dams, the Sweetwater Dam and one at Lower Otay Lake, overflowed. The rain stopped only on January 20, but resumed two days later. On January 27, the Lower Otay Dam burst, exacerbating the destruction and reportedly resulting in the deaths of about 20 people.

Hatfield gave an interview on February 4th and said that the damage was not his fault and that the city should have taken proper precautions. He fulfilled the requirements of his contract—he filled the reservoir. But the city council refused to pay unless Hatfield took responsibility for the damage. And these claims amounted to $3.5 million! Moreover, there was no written contract. Hatfield tried to negotiate for at least $4000. When that didn’t work, he sued the city council. In two court cases, the rain was deemed an act of God,

but Hatfield continued the lawsuit until 1938.

The San Diego flood became not only the biggest scandal associated with Hatfield’s name but also the most illustrative case of the unpredictability of human intervention in the weather at the beginning of the 20th century.

But despite the loud scandal, Hatfield continued to "make it rain."

In 1922, a terrible drought hit the southern regions of Italy. The government turned to Hatfield. And everything went successfully. For a while, he even became a national hero in Italy, and his name was all over the Italian newspapers.

Despite Hatfield's successes, there were many critics of his activities. They pointed out that Hatfield's contracts gave him an almost unbeatable advantage. He always worked during the rainy season. His contracts covered a radius of one hundred sixty kilometers, "which increased his chances of obvious success a hundredfold." The most persistent in condemning the private "rainmaker" were scientists from the U.S. Weather Bureau.

Every time newspapers praised Hatfield, the head of this government agency, Willis Moore from Washington, wrote scathing rebuttals. Literally, he pursued Hatfield

in the press across the country. In the San Diego area, where Hatfield lived and conducted most of his weather experiments, the local U.S. Weather Bureau commissioner tried to prosecute him for fraud. However, this was completely unsuccessful.

And one day, Charles Hatfield decided to prove the effectiveness of his technologies in the most convincing way. In a place where there had never been rain, and rain could not be explained by coincidence. In Randsburg, in the barren Mojave Desert area.

The Mojave is a desert in the southwestern United States, covering a significant part of southern California, southwestern Utah, southern Nevada, and northwestern Arizona.

Hatfield's experiment caused an extraordinary downpour—40 inches of precipitation fell in three hours. Such an event had never happened there before or since. This was Hatfield's response to the attacks of yet another critic, David Starr Jordan, who claimed that Hatfield always waited for the drought period to end before getting to work, simply taking advantage of the situation. Hatfield brought journalists with him to the Mojave Desert to once and for all silence all his detractors.

Economic reasons ended Hatfield's activities. During the Great Depression, he had to return to his job selling sewing machines. His wife divorced him.

Charles Hatfield died on January 12, 1958, taking his secret formula to the grave.

He lived to see the time when the United States began spending millions of dollars on various geoengineering experiments. However, by then he was completely bankrupt and barely surviving.

It's noteworthy that most of them repeated the techniques used by Hatfield. Or did U.S. government agencies simply appropriate all the developments of the private "rainmakers" of the 19th and 20th centuries?! After all, the free entrepreneurs of that era never patented anything, preferring to keep everything in the deepest secrecy!

On one hand, this heightened suspicions that they were charlatans. But on the other hand, it allowed corporations and the state to seize and monopolize the technologies. The "techno-shamans" themselves were hounded in the press and removed from their activities. The example of Hatfield is quite telling—his experiments were successful in most cases, no matter how he achieved it!

These are the kinds of stories from those times when shamans with drums were replaced by scientifically advanced gentlemen with instruments. And to the credit of these gentlemen, it must be said that their "villainous intentions" went no further than fooling the fools!

However, the state's takeover of these rudimentary, somewhat tested technologies immediately led not only to large-scale funding but also to ideas of military applications for climate manipulation. The first thing that happened was that the geoengineering developments ended up with the military!

Chapter 5. Ocean geoengineering

“The first successful experiment” —

or far from the first large-scale

intervention?!

As I was finishing the book at the end of 2022, what do I see? “Ocean geoengineering scheme successfully completes its first field test” — under this headline, an article appears in “Science” on December 16.

“Oh, come on!” was my first thought, “This is far from the first such experiment!”

Well, whatever — everyone wants flashy headlines. The press is just the press... Nevertheless, the essence of the geoengineering experiment is worth recounting. It's quite telling: who, what, and why — it's all pretty much out in the open.

“Alkaline limestone powder spread at the mouth of a river in Florida absorbs carbon and reduces acidification,” — “wow!” headlines in the press. With texts about “saving the planet from global warming” and “the first and unique experiment” following.

The reality is simpler. The shallow waters of Apalachicola Bay in Florida supply about 10% of the oysters in the U.S. But in recent years, the industry has declined. They say it's due to the warming of the bay and the acidification of its waters from the rising levels of carbon dioxide worldwide. Things got so bad that in 2020, the state banned oyster harvesting for 5 years.

Let me make a note right away: these are local changes. In this specific case — a direct consequence of the oyster monoculture, which replaced the bay's naturally diverse ecosystem on an industrial scale. Exactly the same thing that happens on land: first, millions of hectares of virgin land are plowed for monoculture grains. Amid loud cries about “the greatness of man, the king of nature” and “the fantastically increased prosperity of the people.”

The soils of destroyed steppe ecosystems degrade in just a few decades. Falling yields on depleted soils are boosted with tons of fertilizers. Or, again, by liming the acidified soils. Nothing new! All these measures in industrial agriculture only briefly delay the inevitable: ongoing erosion, weathering, and desertification.

We see an attempt to compensate for similar processes in industrial mariculture.

In May, researchers introduced about 2000 liters of seawater enriched with lime at the river's mouth. Not even two tons of lime, just two tons of lime solution. Absolutely nothing compared to land-based industrial agriculture! How to put it gently... the newspaper headlines were bigger than the “strategic geoengineering project” they wrote about.

And the media was not entirely correct in stating that “this is the first field demonstration of a technique called ocean liming.”

The essence of “ocean geoengineering” is as follows.

The ocean naturally compensates for the effects of climate change. It serves not only as a massive heat sink physically but also absorbs 30% of annual carbon dioxide emissions. Dissolved CO2 reacts with water. This forms bicarbonate and hydrogen ions in the water. These excess hydrogen ions lower the water's pH, harming marine flora and fauna, and CO2 absorption slows down. “Alkaline enhancement” aims to restore the water's chemical composition. At least, according to the proponents of such technologies.

Liming is one of the most straightforward mechanistic approaches. Added calcium hydroxide, or lime, raises the water's pH and allows it to absorb more CO2 as

calcium bicarbonate or as carbonate deposited in the shells of marine organisms.

“Essentially, liming enhances the natural process of CO2 removal from the ocean,” says Harald Mumma, a graduate student in environmental engineering at the University of Notre Dame, “We’re just speeding up natural processes and making it happen not on a geological timescale, but on a human timescale.”

A 2021 report by the National Academies of Sciences, Engineering, and Medicine proposes allocating $2.5 billion for ocean geoengineering research over the next decade. Including field tests on direct ocean liming. As you can see, small experiments are essentially pushing for massive interventions in aquatic ecosystems!

“Researchers face limitations on what can be learned in the lab,” says Deborah Iglesias-Rodriguez, a biological oceanographer at the University of California, Santa Barbara, and co-author of the National Academies report, “The lab can’t show you how an alkaline plume spreads through ocean waters, how added particles might accumulate, or how chemicals might affect marine flora and fauna.”

For all these reasons, she says, “we desperately need to go into the field.” I’ll add my own: and even more desperately, we simply need to secure billion-dollar funding for dubious experiments on the living ecosystems of the sea.

Let me summarize the scheme for promoting “ocean geoengineering” in this specific example:

1. Oyster farm owners need to urgently lift the ban on their operations, imposed due to their destruction of the bay's ecosystem, at any cost.

2. The businesspeople fund so-called "scientists" to conduct a small experiment involving the crude mechanical addition of alkali to acidified waters. Yes, acidity will decrease temporarily. The so-called "scientists" will write a report, and based on it, they'll "push through" the lifting of the ban on mariculture and further mechanical liming of the water on a massive scale.

3. As a result, the businesspeople get their operations back, albeit with increased production costs. Meanwhile, the scientific businesspeople receive further billion-dollar funding.

4. The ecosystem continues to be destroyed on an exponentially larger scale: not just the bay, but the plume of "dead water" spreading across the ocean.

The Florida test is actually far from the first field test of increasing ocean alkalinity.

For example, in 2014, sodium hydroxide was added to part of Australia's Great Barrier Reef. It was found to raise the pH level almost to pre-industrial levels, allowing for increased natural calcification of the reef. But... "the biggest advantage of lime is that it is already produced on a massive scale for the cement industry," one of the experiment's authors bluntly stated at the time! As they say, "now we know what's really going on!" — these are multi-billion-dollar orders for an industry experiencing crisis and production decline! Can you guess WHO exactly funded the experiments?! I think it's not hard to figure out!

Liming is just one of the possible methods for increasing carbon accumulation in the ocean. In April, researchers from the Cambridge University Center for Climate Repair, along with the Indian Institute of Marine Research, spread rice husks coated with an iron shell across the Arabian Sea. Iron, a nutrient, is lacking in most of the ocean; researchers hoped its addition would

trigger blooms of photosynthesizing algae, which would absorb carbon and sequester it when the algae died and sank.

Unfortunately, shortly after deployment, a storm hit, lifting the husks and making it difficult to track their effects. "The result was inconclusive," says Hugh Hunt, a climate engineer from the Cambridge team. Since February, researchers have also been trying to capture carbon by growing giant kelp off the coast of Namibia, effectively creating an underwater forest that consumes carbon.

And this technology is not new either.

Back in 2012, a geoengineering experiment in the Pacific Ocean led to a massive algae bloom.

The news agency "The Guardian" reported that the geoengineering experiment off the coast of British Columbia in Canada was successful. In July 2012, at the initiative of California's "entrepreneurial billionaire" Russ George, 100 tons of iron sulfate were sprayed over the surface of the Pacific Ocean. This subsequently caused a plankton bloom over an area of 10,000 square kilometers.

The dispersal of iron sulfate is part of a geoengineering experiment designed to demonstrate that adding fertilizers to the ocean (in this case, iron) can enhance the growth of algae, which absorb and store carbon from the atmosphere. Essentially, it's just like fertilizing fields on land! According to its proponents, this mechanism should help combat climate change.

George's actions were based on the theory that iron stimulates the growth of phytoplankton, such as diatoms. When phytoplankton dies, the organic material sinks, directing the accumulated carbon into the depths of the ocean, where it can remain for centuries.

True, environmentalists called Russ George's 2012 experiment "a blatant violation of two international resolutions"!

Reporters from The Guardian quoted Kristina Gjerde of the International Union for Conservation of Nature, who called the experiment "a blatant violation of two international resolutions," referring to the United Nations Convention on Biological Diversity and the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter.

Nevertheless, George himself says that the mentioned documents are not related to his project. He claims that his efforts are essentially beneficial to everyone and represent "the most important ocean restoration project in history."

For context, it's worth noting that the businessman gained notoriety for his previous attempts to fertilize the oceans, which were linked to the commercial sale of carbon credits.

So, as usual, it turns out to be "just business, nothing personal"?!

John Cullen, an oceanographer from Dalhousie University, said this to journalists from "The Guardian" in 2012:

“It is difficult, if not impossible, to detect and describe significant effects that, as we know, may occur months or years later. Some potential effects, such as the reduction of oxygen concentration at great depths and changes in food chains, should rule out ocean manipulation. History is full of examples of ecological manipulations that have failed.”

Chapter 6. It just happened... an ocean geoengineering experiment that no one conducted

Human interference in natural processes is so profound that sometimes there's no need to conduct any "geoengineering experiments" at all!

Oceanic shipping has turned out to be a large-scale geoengineering experiment in itself!

This conclusion was reached back in 2013.

Japanese scientists discovered that soot emitted by ships leads to a massive saturation of ocean waters with iron, in volumes exceeding all previously proposed and subsequently banned geoengineering experiments.

These are exactly the experiments I mentioned in the previous chapter.

Scientists have determined that up to 80 percent of the iron contained in soot emitted by ships dissolves in ocean water and is available for fixation by microorganisms. It was previously believed that about

98–99 percent of this iron sank to the bottom and did not affect the surface ocean ecosystem. But no—new research has shown the exact opposite result!

According to researchers' calculations, oceanic transport results in the release of up to 1000 tons of soluble iron into the ocean each year. This is many times more than was intended for use in geoengineering experiments before they were banned in 2008. The approximate area fertilized by iron from soot is about 6 million square kilometers. These are predominantly areas in the North Atlantic and Pacific Oceans. The ones through which the largest cargo flows pass.

The "fertilization" of the world's oceans with iron was controversial from the start. Nevertheless, in 2004, scientists conducted an experiment in which they dumped 14 tons of iron sulfate in an area near Antarctica. This led to a sharp increase in biomass, most of which became part of the sediments and was temporarily excluded from the biosphere's cycle. In other words, the water "bloomed," microorganisms died, and sank.

From the deck of the ship "Polarstern," 14 tons of iron sulfate dissolved in water were dumped to trigger a rapid increase in phytoplankton numbers. The

experiment was conducted near the shores of Antarctica in a specially chosen location where currents form a circular vortex about 100 kilometers in diameter, limiting the spread of the dumped fertilizers.

Satellite images showed that two weeks after the experiment began, the amount of algae had indeed increased, forming a patch covering 800 square kilometers. After most of the algae had died off, scientists collected samples of detritus—organic matter sediments falling to the bottom—from the study area. In simpler terms, silt.

It turned out that the biomass of algae, which had sharply increased as a result of the experiment, did not decompose quickly. At least half of it sank to depths of more than a kilometer. This means that the carbon dioxide fixed by the algae through photosynthesis does not return to the atmosphere but is truly removed from the cycle of elements.

It seems like a success... but...

The experiment was conducted back in 2004, before most countries adopted a moratorium on such research. According to "Science," the delay in publishing the results was due to data rechecks in light of ambiguous results from other similar experiments. Based on these,

many scientists concluded that using iron to remove carbon dioxide was impossible, as the resulting phytoplankton is quickly consumed by animals, and the fixed carbon dioxide returns to the atmosphere.

Reviewers commenting on this article noted that the observations were conducted over the longest period among similar studies, and this influenced the final conclusions. Nevertheless, none of the reviewers currently believe that the understanding of the studied processes is sufficient to conduct large-scale geoengineering experiments.

"Experiments suggest that you change the algae population, causing a shift from ecosystems dominated by fish to those dominated by jellyfish," says Alex Baker from the University of East Anglia, UK.

Overall, such concerns led to the United Nations Convention on Biological Diversity imposing a moratorium on geoengineering experiments in 2010.

What the "enterprising billionaire" Russ George ignored in 2012, when he dispersed 100 tons of pure iron sulfate off the coast of Canada, covering 10,000 square kilometers with an ocean "bloom" experiment. As you can see, "enterprising billionaires" couldn't care less about scientists' doubts or UN acts—they do whatever

they want, increasing severalfold the use of completely untested technologies!

Let's return to the emissions of iron and soot from ships.

The annual deposition from this is much greater, though less concentrated, than the iron released during field tests. This includes tests conducted both before and after the moratorium, in defiance of UN acts. However, according to corporate lawyers, since emissions from ships are not intentionally aimed at altering the ocean's chemical composition, they do not violate the moratorium.

This is the opinion of Jim Thomas from the ETC Group, a think tank advising on the UN Convention on Biological Diversity: "If you were intentionally running ships burning oil back and forth as a geoengineering experiment, that would contradict this."

But as it stands, "we didn't mean to, it just happened," means everything is fine.

The study itself, conducted by Akinori Ito from the Japan Agency for Marine-Earth Science and Technology, is the first to quantify how shipping deposits iron in parts of the ocean where it is typically scarce.

Earlier models suggested that only 1–2 percent of the iron contained in aerosols, including emissions from shipping, is soluble in seawater, so the remaining 98–99 percent would settle to the bottom without affecting ocean life. But Ito discovered that up to 80% of the iron in transportation soot is soluble. Since this soot falls on the sea surface, it has been "fertilizing" the oceans for many years.

In the high-latitude northern Pacific Ocean—a region naturally low in iron and therefore likely to be most affected by anthropogenic deposits—ship emissions currently account for 70 percent of the soluble iron resulting from human activity.

In summary.

First:

The first legal experiment with this technology of "fertilizing" the ocean with iron was conducted in 2004. Fourteen tons of solution—there was less pure iron salt in it. Over 800 square kilometers. In a safe location, where the circular current prevents further spread.

Based on the results of this and other studies, considering the ambiguity of the outcomes and the doubts of the scientific community, such experiments were temporarily banned by the UN.

SECOND:

Despite the UN ban, "enterprising billionaire" Russ George conducted a similar experiment, increasing severalfold the volumes in 2012. Already 100 tons of pure substance and 10,000 square kilometers of ocean area.

THIRD:

But recently, it turns out that such an experiment has been occurring spontaneously for many years due to soot emissions from marine vessels.

At least 1000 tons over an area of at least 6 million square kilometers.

Chapter 7. Designing complex biocenoses in the ocean — a real alternative to primitive technological geoengineering methods

As I demonstrated with the example of ocean geoengineering in previous chapters, these kinds of technologies continue to be implemented and promoted despite a direct UN ban. The opinions and doubts of a vast number of scientists and specialists don't interest anyone at all! "Enterprising billionaires" do whatever they please and keep on doing it!

The ocean is "fertilized," the ocean is "limed" like the fields of some collective farm at the whim and order of an autocratic chairman! Well, yes... in general, such a chairman might listen to the opinion of the chief agronomist or veterinarian... or he might not! And let's not forget that specialists (like agronomists or veterinarians) are dependent on the collective farm chairman. If he wants, he can fire them and stop paying

their salaries. And what does he care about some UN?! He couldn't care less about all the UNs from a high tower!

Direct geoengineering by technological methods is being carried out in the ocean, funded by various businesses. From oyster farm owners to large-scale international crooks trading in "environmental quotas."

Such completely thoughtless interventions in living ecosystems are covered up by officials and pseudo-"scientists" who receive large fees and funding for their pseudo-"research," commissioned by businessmen. In reality, there's nothing new in this for me.

The same type of so-called "scientists" churn out "research" like hotcakes, in any quantity, arguing for the extreme necessity of increasing logging in the Russian Taiga. This includes protected areas and Ancient Forests. There are those who fund this for their own interests—and those who, for money, are ready to justify anything with scientific-sounding nonsense! Alas, but that's how it is!

I want to emphasize this once more: right now, methods of TECHNICAL/INDUSTRIAL geoengineering are being aggressively promoted worldwide. By default, I am criticizing this very approach. It's extremely dangerous

to dump tons of junk into the ocean or sky!

It's like agriculture. When people say "agriculture," they immediately imagine vast fields, combines, and tons of fertilizers and pesticides. But this is NOT THE ONLY TYPE of agriculture! This is INDUSTRIAL, COMMERCIAL agriculture! It's just that this type of agro-production has taken over the world and completely controls all food production flows. But it's NOT THE ONLY possible type of agriculture!

Industrial methods in agro-production simply allow for the monopolization of the food market. That's it, nothing more! They are by no means the cheapest or most efficient, quite the opposite. Industrial agriculture is mistakenly called "efficient." In reality, all this notorious pseudo-"efficiency" was initially only due to the rapid extraction of nutrients stored over millennia in virgin black soils. And literally within a decade, it turned into soil erosion, weathering, and catastrophic depletion. But the system of monopolizing food production built on such predation began to sustain itself and its monopoly.

And now we see how ultra-wealthy monopolists are eyeing the possibility of monopolizing the climate of entire macro-regions of the planet. Incidentally, using the same methods they employed to monopolize the

global food market.

A simple scheme, by the way!

STEP ONE

They disrupt stable air currents and currents in the World Ocean. They destroy (apparently quite consciously!) Ancient Forests that regulate the climate.

In agriculture, this was done by destroying natural biocenoses and the soils they created over vast areas.

As a result, the existing system of interaction between biocenoses, the geology of the hosting biocenosis landscape, and stable climate cycles will be broken.

STEP TWO

Technical methods, for instance, are used to induce rain. But this involves expensive, powerful equipment and tons of chemicals. The essence of it all is DEPENDENCE on these technologies. And that means the sweetest word for billionaire psychopaths: MONOPOLY!

The production of food products is now monopolized and controlled in this way: monopoly on machinery, monopoly on fertilizers and pesticides. On top of that, there's a monopoly on plant varieties and animal breeds.

Genetic modification (GMO) is used to ensure legal patenting. The spread of various types of African swine fever (ASF) and other epidemics is aimed at destroying all independent farms and the private sector.

STEP THREE

Not yet realized.

Apparently — "world domination" for these psychopaths. No rational ideas are visible there at all!

A BRIEF SUMMARY OF THE ABOVE

It seems that geoengineering and geoengineering technologies are now being actively promoted to completely control food production and the very lives of people across vast territories.

The media justifies this as “saving the climate,” but that’s clearly not the case. Yes, there are approaches that genuinely preserve the stability of the climate and the planet’s Biosphere in general. For example, preserving Ancient Forests. But these are COMPLETELY OPPOSITE TECHNOLOGIES to the INDUSTRIAL-TECHNICAL geoengineering that is being brazenly pushed (and implemented!) by “enterprising billionaires,” violating all international conventions and UN bans!

In essence, we can directly say: geoengineering is now being used as a climate weapon of mass destruction. The war is being waged against peaceful inhabitants and against the Biosphere of planet Earth itself. Technical methods are crudely breaking established climate cycles. And there is every reason to believe this is being done DELIBERATELY.

Are there alternatives to “fertilizing” or “liming” the ocean, or are there none? Perhaps these “enterprising billionaires” truly want to save something there, rather than monopolize markets through DELIBERATE ECOCIDE?

I’ll try to answer these questions. With a simple example. Clearly showing the difference in approach.

The original research article was published in “Frontiers in Marine Science” on April 19, 2022.

Kelp (Saccharina latissima) mitigates acidification in coastal areas of the ocean and increases the growth of bivalve mollusks in the North Atlantic in laboratory experiments and on oyster farms.

The authors are a team of researchers from Stony Brook University, School of Marine and Atmospheric Sciences, Southampton, New York, USA.

Selective citation:

…"We report on field and laboratory experiments conducted with North Atlantic populations of juvenile hard clams (Mercenaria mercenaria), eastern oysters (Crassostrea virginica), and blue mussels (Mytilus edulis), grown with elevated CO2 levels and without, as well as with North Atlantic kelp (Saccharina latissima) and without it"…

> *"This deterioration was completely mitigated when the bivalves were exposed to the same source of acidification but were also cultivated alongside kelp."*
>
> *"Collectively, these results indicate that the photosynthesis of S. latissima, grown at densities associated with aquaculture, increased pH and decreased p CO2, promoting a carbonate chemical regime that maximized the growth of juvenile bivalves. As shown, S. latissima benefits from increased CO2. Co-cultivating bivalves and kelp in current or future acidification scenarios could be a synergistically beneficial integrated approach to aquaculture."*

It's simple: kelp fights against ocean acidification!

According to the study, kelp (seaweed) is beneficial for maintaining the water's acidity balance in the ocean. This algae can reduce the negative effects of carbon dioxide and water acidification on marine fauna, including oyster farms. And there's absolutely no need to lime the water! Just a MORE COMPLEX type of mariculture, where you grow oysters alongside seaweed.

In coastal areas, the problem of water acidification, where acidic oxides come from the land, is indeed most acute. That's exactly where many oyster beds and mariculture farms that cultivate mollusks are located.

In the fight against water acidification and other environmental issues, scientists propose creating new kelp beds. Clusters of seaweed slow down the decline in the pH of seawater. And growing kelp in the waters of oyster farms even allows for the local neutralization of increased acidity, thereby protecting mollusks and promoting their rapid growth.

It's simple, and there's no need to dump tons of lime into the ocean! It's enough to make the artificially formed agricultural biocenosis as complex as the natural biogeocenosis!

And yes, such ALTERNATIVE biological technologies exist for all these issues! Industrial geoengineering methods are a direct destruction of climate cycles and a direct war against both people and the planet's Biosphere!

Chapter 8. When states arrive...

The emergence of technical methods of geoengineering (as well as scientific or pseudo-scientific deceptions of various kinds that mimic geoengineering methods) is associated with the end of the 19th — beginning of the 20th century. It is often said that, at the very least, the ideas of climate engineering appeared precisely then.

But apparently, it's not just the ideas, but also the initial technical solutions. The same streams of hot air from the ground, explosions in the atmosphere, or the dispersion of various substances in the atmosphere are still used today. Only now, they're in a refined and enhanced form. And yes, the scale of such experiments has increased significantly, now covering entire macro-regions of the planet.

The pure ideas of "man's dominion over climate" and "man as the king of nature," I would say, clearly emerged a century earlier, in the 18th century. It seems that even the first experiments to influence the weather were conducted back then!

But the end of the 19th century, of course, marked the initial era of the emerging "climate engineers"! It was a time of explosive scientific growth and the rise of industry—people were bold and audacious. They felt they could do anything, and the whole world was at their feet. Is it any wonder that some dared to take on the climate as well?

I don't know how many of them were outright swindlers and frauds from the so-called "science" crowd, feeding farmers fairy tales mixed with carnival tricks. Probably a lot. Probably more than 90% of such figures! But! There are also individuals who clearly laid the foundations for modern methods of climate manipulation. Let me repeat: all contemporary weather interventions broadly replicate technologies proposed in the 19th century.

A point in favor of the existence of real scientists, perhaps even significantly ahead of their time, is that many of their inventions were bought out. And bought out by governments, no less! This is what I want to discuss now—how exactly governments handled the initial technologies that fell into their hands.

In the 19th century, the activities of "techno-shamans" in "rainmaking" were lighthearted and fun. Often, it was just a carnival, a circus, a show. Some of these "rain

rulers" traveled from place to place like a traveling circus tent. With an air of mystery surrounding the "great and terrible," with paid articles in newspapers and other elements of show business. These charismatic scientist-adventurers. Or just adventurers and con artists—depending on the situation! Often, their only REAL tool of "techno-shamanism" was the weather forecast from the weather observation bureaus and agencies that appeared around the same historical time.

Overall, it was all light and fun. Reading about these figures brings to mind films in the style of steampunk or dieselpunk. Something like "Sherlock Holmes" or similar. The smart, noble adventurer-researcher. The same era as the works of Arthur Conan Doyle!

But in the REAL WORLD, unlike in literature, the Main Hero did not defeat the Main Villain. The Main Villain turned out to be the multi-headed hydra of governments, in the form of dusty bureaucrats, buying up and classifying genuinely effective climate technologies.

A brief preliminary note.

Climate technologies gained the most traction in the USSR and the USA. In many ways, this happened similarly. I would say that in the Soviet Union, these were initially state programs. Entire government

institutes were created right away. In the USA, government agencies monopolized private developments in this area. They bought patents and technologies in some cases, and in others, they simply "squeezed them out," creating unbearable living and working conditions for private researchers with the full weight of the state machinery.

In general, the idea of a "climate weapon" emerged as soon as climate technologies fell into the hands of government structures. Well, that's just my naive and unrefined opinion!

An axe is just an axe. It's a tool. You can build a house. You can chop wood. Or you can take an old pawnbroker and, you know, "do away" with her. Or head out for the "night shift" under the bridge to rob passersby.

I want to emphasize to my reader that climate technologies and geoengineering are neither "evil" nor "good." They're just technologies. They're just tools. The scientific and technological development of Humanity has reached a point where we can REALLY influence the weather, solar radiation levels, and so on.

YOU CAN'T CANCEL TECHNOLOGIES — THE QUESTION IS WHO AND HOW WILL USE THESE TECHNOLOGIES!

And so far, the experience of PRACTICAL APPLICATION of climate technologies is, alas, quite dismal!

One way or another, climate technologies end up in the hands of states. And not just states, but MILITARY state agencies.

Hmm... so the generals decide, can we make it rain?! Well then, let's cause a heavy rain that will wash away all the crops and people will die of hunger!

Hmm... they came up with substances to destroy weeds for agriculture? How about we spray a lot of it, wipe out all the crops, and let people starve to death!

Hmm... scientists invented something else? Can we use it to kill someone?!

This is how professional deformation of personality happens—the first thought is how to use it for harm, for destruction.

I have no doubt that the idea of a 'climate weapon' was born in the minds of some generals!

The idea of a climate weapon is generally classified as 'hypothetical.' That is, possibly assumed, but not actually existing. Fiction, fantasy, it doesn't exist! That's the MOST COMMON position.

> *“A climate weapon (meteorological weapon) is a hypothetical and sometimes early-stage development weapon of mass destruction and economic disruption of a specific country or group of countries, using artificial impact on natural resources, weather, and climate of a specific territory, country, state, continent. Various technologies and means, artificially created man-made disasters leading to ecological catastrophes and, as a result, creating economic problems (crises), can be used as a 'launch' mechanism.”*

The Wikipedia quote is clear on this: it doesn't exist, it's a 'hypothetical' fantasy!

However, the 'History' section of the relevant Wikipedia article is not empty:

> *“The Americans' impact on the upper Mekong during the Vietnam War is known, aimed at disabling the 'Ho Chi Minh Trail,' a road system used to supply the National Front for the Liberation of South Vietnam guerrillas in South Vietnam ('Operation Popeye'). Although the Americans managed to cause heavy rains and partially paralyze the guerrillas' supply, it required enormous material costs (using substances*

like silver iodide, dry ice, etc.), and the effect was short-lived.”

Oh, right: the climate weapon is 'hypothetical' and doesn't really exist, but in the mid-20th century, this 'hypothetical and non-existent' weapon was REALLY and EXTENSIVELY used!

Then our last argument that climate weapons don't exist is the ban on using weather modification technologies for military purposes, which is currently in effect under the Convention on the Prohibition of Military or Any Other Hostile Use of Environmental Modification Techniques (ENMOD).

Oh, yes, the penalties for violations will be severe! If there is information about a violation of the Convention's provisions, any state has the right to file a complaint directly with the UN Security Council. In addition, any member country has the right to send an official request to the UN Secretary-General to convene an Advisory Committee of Experts, which must meet within a month to investigate and assess the factual circumstances of questionable environmental phenomena.

So, if by any chance, climate weapons turn out to be not "hypothetical" but the most REAL thing imaginable, then… well, file a complaint. The bureaucrats will sort it

out. They'll gather in a month or so. Maybe they'll even create another commission...

For reference, I'll repeat what I wrote in previous chapters:

Concerns about the safety of geoengineering led to the 2010 United Nations Convention on Biological Diversity imposing a moratorium on geoengineering experiments.

This is what the "enterprising billionaire" Russ George ignored in 2012 when he sprayed 100 tons of pure iron sulfate off the coast of Canada, covering 10,000 square kilometers in an ocean "bloom" experiment.

As you can see, these "enterprising billionaires," just wealthy PRIVATE INDIVIDUALS, couldn't care less about UN acts—they do whatever they want, increasing severalfold the use of completely untested technologies!

Attention, question: Will much larger structures like states and transnational corporations (essentially "non-territorial states," often more powerful and wealthy than small territorial states) even bother to pay attention to some UN acts?!

My answer is "no." They wouldn't even consider such a thing!

Well, yes: research of this kind would be classified. But they would classify the development of any innovative weapon, regardless of UN bans or permissions!

So, alas, I can't bring myself to believe in the "pure and innocent" multinationals—it's just not happening! Their reputation is, well... a bit tarnished.

But to understand EXACTLY HOW this "hypothetical" climate weapon has been used in history, let's look at a REAL instance of its application.

The Vietnam War—a conflict in Vietnam, Laos, and Cambodia from November 1, 1955, until the fall of Saigon on April 30, 1975. It was the second of the Indochina Wars, officially fought between North and South Vietnam.

But, as always, there's a certain "but" that allows us to look at the issue more broadly!

North Vietnam was supported by the Soviet Union, China, and other communist allies. South Vietnam was backed by the United States and other "anti-communist" allies. The war is considered a proxy war of the Cold War era. The conflict lasted nearly 20 years. Direct U.S. involvement ended in 1973.

For reference:

A proxy war is an international conflict between two countries that attempt to achieve their own goals through military actions occurring on the territory and using the resources of a third country, under the guise of resolving an internal conflict in that third country. Such wars are still being fought today, in the 21st century.

To assess the context of the ACTUAL USE of climate weapons:

The Vietnam War resulted in enormous human casualties. Estimates of the number of Vietnamese soldiers and civilians killed range from 966,000 to 3 million people. The reason for such a degree of inaccuracy (at least threefold) is partly because the military actions were conducted using technologies of "environmental transformation." How many people died from starvation as a result, for instance, is simply impossible to estimate.

58,220 United States military personnel also died during the conflict. Another 1,626 people went missing. Here, unlike the Vietnamese, who were not counted, the numbers are precise.

Now let's move on to the specific use of climate weapons by the United States during the Vietnam War.

"Operation Popeye" was a military operation by the U.S. Army to use climate weapons during the Vietnam War.

It began on March 20, 1967, and ended on July 5, 1972.

It was conducted during the rainy season from March to November.

The essence of the operation was to actively influence clouds from aircraft. Silver iodide was dispersed in rain clouds, leading to heavy rainfall. As a result, precipitation increased to three times the normal amount. This caused flooding of rice fields and other cultivated crops, as well as damage to the "Ho Chi Minh Trail," the route used by the North Vietnamese for transporting weapons and equipment.

During the war, 12 million pounds (approximately 5.4 thousand tons) of silver iodide were used.

"Operation Popeye" was an experimental operation developed by the U.S. Department of State and the U.S. Department of Defense.

Similarly, throughout October 1966, tests of the technologies later used in "Operation Popeye" were conducted in eastern Laos. The government of Laos was not informed about the operation, its methods, or its objectives. In Vietnam, engulfed in civil war, there simply was no one to "inform."

This is a CONFIRMED use of climate weaponry. These technologies were initially considered specifically as "climate weapons." But! As always, there's more to add!

In fact, in Vietnam, the U.S. was conducting a large-scale ecosystem war.

THE MILITARY, TOGETHER WITH COMMERCIAL TRANSNATIONAL COMPANIES, DELIBERATELY AND PURPOSEFULLY DESTROYED A FRAGMENT OF THE EARTH'S BIOSPHERE!

Perhaps it's time to reassess the events of those years in light of modern, expanded knowledge!

The theory of the biosphere pump is now practically confirmed. Ancient forests play a direct role in climate formation. Besides technical impacts directly on the climate and atmosphere, the U.S. military, along with transnational corporations, deliberately destroyed local ecosystems during the so-called "herbicide war" being waged simultaneously. This, among other things, also affected the climate.

IN ESSENCE, THERE WAS A DIRECT WAR AGAINST THE PLANET'S BIOSPHERE ITSELF!

Reference:

The herbicide war involves the use of substances intended to destroy the plant ecosystem of an area. Its main goal is to disrupt agricultural food production and destroy plants.

The herbicide war is also banned by the UN Convention on Environmental Modification since 1978, which prohibits "any methods of altering the composition or structure of Earth's biota."

A brief history of RECOGNIZED herbicide wars.

During the Malayan Emergency from 1948 to 1960, British forces used herbicides and defoliants in rural Malaysia, including on civilian crop fields. To deprive the Malayan National Liberation Army insurgents of cover, potential food sources, and to "flush" them out of the jungles, forest ecosystems were completely destroyed. There is no reliable data on the extent of the ecosystems destroyed.

The Vietnam War.

The United States used herbicides in Southeast Asia even more extensively during the Vietnam War. The success of field tests from "Project AGILE" with herbicides in South Vietnam in 1961, along with the military's inspiration from the British use of herbicides and defoliants during the Malayan Emergency in the

1950s, led to the creation of the official herbicide program "Operation Trail Dust" (1961–1971).

Operation Ranch Hand, a U.S. Air Force program using C-123K aircraft to spray herbicides over large areas, was one of many programs conducted under the aegis of Trail Dust. The aircraft crews tasked with spraying defoliants openly mocked the people and ecosystems they were destroying.

They used the slogan "Only you can prevent forests"—a twist on the well-known U.S. Forest Service slogan "Only you can prevent forest fires." This blatant mockery clearly shows that not only the generals giving the brutal orders for total ecocide understood what they were doing. The rank-and-file executors understood it perfectly as well.

The United States officially claims that herbicidal and incendiary substances, like napalm, do not fall under the definition of "chemical weapons." And that the United Kingdom set a precedent by using them during the Malayan Emergency. You understand, of course, that these are nothing more than ritual "excuses." Meaningless words.

"Ranch Hand" began as a limited program for defoliating border areas, security perimeters, and crop destruction.

But then, on an even larger scale, they began destroying the jungles. In 1963, defoliation was assessed as improving visibility in the jungles by 30–75% horizontally and 40–80% vertically. Improvements in delivery systems by 1968 increased this to 50–70% horizontally and 60–90% vertically. Ancient forests were being totally destroyed!

The scale is well illustrated by this example. The use of herbicides in Vietnam caused a shortage of commercial pesticides in mid-1966, when the Department of Defense had to use powers under the Defense Production Act of 1950 to ensure supplies. In other words, they simply took everything from the farmers in favor of the military.

The concentration of herbicides sprayed in "Operation Ranch Hand" was more than an order of magnitude higher than for "domestic use." They poisoned without restraint!

About 10% of South Vietnam's surface—around 17,000 square kilometers—was sprayed.

About 85% of the spraying was aimed at defoliating the jungles.

And only about 15% was for destroying crops in the fields.

These are just some numbers and facts. But even they, I hope, can illustrate the fact that there was TOTAL DESTRUCTION OF BIOCENOSIS.

In the total war against the Biosphere, it's very difficult to single out a purely "climate weapon" component. But it is there—our world is whole and indivisible!

Chapter 9. The first climate war

In the Middle East, a real war has been raging for at least a decade, but on a "new front," so to speak. A war for water! I can hardly interpret it any other way than as a "war"—the scale of the conflict is just too vast!

Climate change is making the Arabian Peninsula region hotter and drier. You might say, how much hotter and drier can it get when the whole region is already the Arabian Desert? Exactly! And that's precisely what makes the Middle East probably the most vulnerable region on the planet to even the slightest climate changes.

Iranian officials have been literally howling for years that other countries are "stealing their water." In 2018, amid severe drought and rising temperatures, they openly declared it!

"Both Israel and another country are working to prevent Iranian clouds from raining," Brigadier General Gholam Reza Jalali stated in a 2018 speech.

The "other country," whose name the general finds so unpleasant he won't even say it aloud, is the United Arab Emirates (UAE).

And here we come to the point where what the Iranian general unequivocally perceives as a war against his state is being conducted precisely through geoengineering methods.

The UAE started a massive cloud seeding program quite some time ago. Iran's suspicions are not surprising, given its tense relations with most Gulf countries. The UAE and Israel claim that the real goal of their geoengineering technologies is not to "steal water from neighbors," but simply to bring rain to their own parched lands.

AND HERE ARISES THE CUNNING QUESTION: WHERE IS THE LINE BETWEEN "PEACEFUL" AND "MILITARY" USE OF GEOENGINEERING?

Let's turn to a well-known and quite scientific principle: "If something increases somewhere, it decreases somewhere else." Is the Iranian general really wrong in light of the understanding and law of conservation of system elements, and the principles of interdependence of elements in eco-regions? If rains, triggered by direct technological methods, don't distribute across the entire

eco-region as before, but fall near the coast—isn't this an "ecological war" against Iranians, who will lose their agriculture and start dying of hunger? Is this already war or not yet?

In geoengineering technologies, which are increasingly being REALLY applied, there is no difference! These are the same technologies. There is no "peaceful geoengineering" or "military geoengineering"—the methods of weather manipulation are the same. But by depriving a neighboring state of precipitation, breaking existing climate cycles in the region—we deliver a blow to the neighbor's territory, quite comparable to the consequences of using any other weapon of mass destruction.

So is geoengineering a "weapon," or not yet? Or is it already quite so, for example, as an element of unofficial proxy war? Terrifying questions, I tell you, if you're a resident of a poor country on the Arabian Peninsula! And neighboring wealthy countries ruthlessly "squeeze" the already scarce water from the sky...

As the Middle East and North Africa dry up, countries in the region have entered a real race to develop chemicals and technologies that they hope will allow them to increase rainfall. The reasons are truly serious:

— currently, in 12 out of 19 countries in the region, the average annual rainfall is less than 10 inches;

— this is 20% less than the average over the past 30 years.

The issue is that some countries are wealthy, and others are not. And not everyone can afford climate technologies. The UAE "can afford it." And today, they are the leader in applying geoengineering in the region.

As wealthy countries like the Emirates invest hundreds of millions of dollars in these technologies, other countries join the race, trying to ensure they don't miss their "fair share of rainfall." Morocco and Ethiopia have cloud seeding programs, as does Iran. Saudi Arabia has also started its large-scale program. Half a dozen other Middle Eastern and North African countries are considering such possibilities but currently lack the means for geoengineering experiments. And it turns out that, at least in this region, weather experiments are becoming widespread and unpredictable.

But Middle Eastern countries have brushed off any scientific doubts from experts and have literally plunged into a "fight for water."

The undisputed regional leader is the UAE. They're "way ahead," as they say. And not just because of the country's wealth. Back in the 1990s, the ruling sheikh family in the Emirates realized that maintaining a plentiful water supply would be as crucial for preserving the country's status as the financial and business capital of the Persian Gulf as its vast oil and gas reserves. "You can't drink oil!" the sheikhs said, and they began working in this direction even then.

For comparison: in 1960, the population of the tiny country was less than 100,000 people. There was enough water for everyone.

By 2020, the population had grown to almost 10 million people. And people began to live more civilized lives: bathtubs, jacuzzis, and other pools became commonplace. The demand for water, naturally, to put it mildly, skyrocketed.

Currently, residents of the United Arab Emirates consume about 147 gallons of water per person per day, while the global average is 47 gallons. These are fresh data from 2021—three times the global average consumption.

Currently, the demand for fresh water is met through desalination plants. Building one such plant costs about $1 billion or more and requires a constant, enormous amount of energy to operate.

Now, the National Center of Meteorology and Seismology in the Emirates, after 20 years of research and experiments, is launching its cloud seeding program using almost military protocols. Pilots are on standby, ready to take to the skies as soon as meteorologists working in the mountainous regions of the country detect a promising weather formation.

“We are in a state of round-the-clock readiness. We live within 30–40 minutes' drive from the airport, and from the moment we arrive here, it takes us 25 minutes to get airborne,” says Captain Mark Newman, a pilot for a South African geoengineering company.

The United Arab Emirates uses two main substances for cloud seeding: the traditional silver iodide and a newly patented material developed at Khalifa University in Abu Dhabi. Their own innovative creation.

Israel, once a pioneer in cloud seeding not only in the Middle East but globally, halted its program in 2021. After 50 years of active research!

“It was economically inefficient,” says Pinhas Alpert, an honorary professor at Tel Aviv University, who audited Israel's geoengineering program.

This is the ambiguous situation with "rainmaking." While the Israelis prefer to save, the Arab Emirates continue to live lavishly and have no intention of denying themselves anything. To achieve this, they are ready to obtain fresh water by any means in unlimited quantities. This includes for swimming pools and luxurious gardens with exotic fruits in the palaces of the sheikhs. This behavior not only irritates the population and authorities of neighboring, less wealthy countries but also leads to accusations of conducting a "climate war" against them.

The Middle East is heating up again.

Perhaps Israel's withdrawal from an active 'rainmaking' program is not due to economic reasons but a desire to ease political conflicts.

Chapter 10. Modern geoengineering test sites: United Arab Emirates (UAE)

> *“…in the future development of the UAE, excessive consumption will continue. At the same time, increasingly advanced technologies will be used to compensate for their own excessive consumption.”*
>
> *“As long as energy resources and external rent remain, the monarchies of the Persian Gulf will, at least theoretically, maintain their ability to support their energy-intensive modern lifestyle with air conditioning and seawater desalination. They will also ensure food supply by subsidizing local agriculture and purchasing farmland abroad. Costly projects to manipulate the environment will continue, typically leveraging strong state capabilities.”*

(Luomi, Mari (2014). Monarchies

of the Persian Gulf

and climate change: Abu

Dhabi and Qatar in an era of

natural

instability.)

This is a 2014 analysis used as an epigraph.

Monarchy. Unlimited money. A hellish mix, I tell you!

Here's a little illustration from Abu Dhabi:

“Our financial resources support our ability to adapt to any challenges posed by climate change.

Currently, they are being invested in expanding air conditioning infrastructure, rainwater drainage systems, building flood barriers, and new desalination plants.

In June 2016, a new project to improve the rainwater drainage system will be launched in Abu Dhabi due to unnaturally strong thunderstorms in March 2016, which damaged the property of 860 people and caused flooding.”

For clarity: the irony is that the "unnaturally strong storms" were caused by geoengineering experiments conducted by the authorities themselves.

NOW A BRIEF HISTORY OF “TECHNO-SHAMANISM” WITH RAINS IN THE EMIRATES.

The UAE's cloud seeding program began in the late 1990s.

In 2005, the UAE established the UAE Prize for Excellence in Weather Modification Science and Practice in collaboration with the World Meteorological Organization.

In 2010, cloud seeding began as a meteorological service project to create artificial rain in practice. The project cost about 11 million dollars and resulted in rainstorms in the deserts of Dubai and Abu Dhabi from the very first practical trials.

In 2014, a total of 187 cloud seeding operations were conducted in the UAE using special aviation.

In 2017, there were 214 such operations.

In 2018, there were 184 operations.

In 2019, there were 247 operations.

Since 2020, “cloud technology” trials have been conducted with partners from the USA to test the use of fundamentally new nanomaterials for seeding.

As you can see, the use of geoengineering technologies in the UAE is expanding year by year.

TECHNOLOGY

In the UAE, operational seeding of hygroscopic clouds is now done using not only airplanes but also drones. Controlled drones, unlike random seeding from an airplane, allow for more targeted cloud seeding with chemical reagents.

Since 2021, drones have been additionally equipped with devices to alter electrical charges. They fly at low altitudes and transmit electrical charges to air molecules.

To seed hygroscopic clouds, both silver iodide and potassium iodide are used, as well as natural salts like potassium chloride and sodium chloride, which are present in the atmosphere during natural hygroscopic events.

Currently, the UAE primarily "seeds clouds" in remote areas near the border with Oman to systematically increase levels in aquifers and reservoirs.

The UAE has 75 networked automatic weather stations distributed across the territory, 7 monitoring stations, a network of Doppler weather radars consisting of five stationary and one mobile radar, and six specialized "Beechcraft King Air C90" aircraft for cloud seeding

operations. Additionally, contractors from South Africa, the USA, and the UK are involved.

Over the course of experiments, the UAE has accumulated data on the impact of geoengineering technologies on the environment.

The first and most important issue is flooding.

The influx of precipitation from cloud seeding significantly affects the UAE's unprepared infrastructure. Let me remind you: before geoengineering experiments, there were simply no floods in the DESERT Arab Emirates!

The most severe recent floods occurred in the populated parts of the country in 2019-20.

A cloud seeding experiment conducted in October 2019 by the UAE's National Center of Meteorology and Seismology as part of the UAE Research Program for Rain Enhancement Science led to a catastrophic flood.

In January 2020, the disaster repeated. Pumps were needed to remove excess water because the drainage systems couldn't handle such a volume.

Estimates suggest that the UAE is currently investing $136.1 million to protect infrastructure and transportation from flooding after severe artificial

storms. Experiments in cloud seeding continue just as actively, but they have been moved to remote regions of the country. It seems that the UAE authorities are trying to raise the level of groundwater in underground aquifers.

Another adverse consequence of geoengineering experiments is atmospheric aerosols.

Cloud seeding experiments require the release of salts and silver iodide crystals into the atmosphere, amounting to tens of tons. The increased concentration of solid particles raises the risk of respiratory diseases.

In 2017, the UAE conducted its first study before and after a cloud seeding experiment, which recorded a significant increase in solid particle content corresponding to the months of active experimentation and afterward. But this data is incomplete. There is no ongoing accounting of aerosol pollutants during geoengineering experiments.

Well, what can I say: the sheikhs can do anything... at least as long as they sit on their oil rent. And they couldn't care less about the woes and sorrows of neighboring POOR countries!

I would add that no one is assessing the IMPACT of such LARGE-SCALE weather interventions on the Arabian Peninsula, let alone on planet Earth. But I would suggest that such an impact exists.

Chapter 11. Modern geoengineering test sites: China

China is, of course, the "grand finale"!

Without a doubt, the most extensive climate transformation programs are being conducted in China! At the very least, China has developed one of the largest geoengineering research programs in the world. This is a widely recognized fact. However, I would argue that it's not just "one of the largest," but THE largest geoengineering program.

Here's the point: China has both unified management over a vast territory and unlimited funding. Huge sums are also available to various transnational commercial entities and countries like the United Arab Emirates. But only China has a massive testing ground for climate experiments under a single program with centralized leadership!

The only comparable effort might be the "Stalinist plan for transforming nature" in the Soviet Union. Since 2020, China has been creating a system for COMPLETE

monitoring and regulation of the climate over its ENTIRE territory. The plan is:

By 2025, to control and regulate the climate over 60% of the country's territory.

By 2035, to fully control the climate over the entire country and become a world leader in geoengineering technologies.

Quite an ambitious claim, isn't it?!

THREE YEARS (it's now 2023, and the plan has been underway for two years) until climate control over 60% of the territory.

THIRTEEN YEARS until FULL climate control.

...is it science fiction, or are the Chinese REALLY CAPABLE of doing this?!

I tried to analyze this question. And I'll attempt to objectively present the conclusions I've reached.

FIRST

LET'S START WITH THE SOURCE

December 2, 2020. The official government website of the PRC (www.gov.cn).

"CHINA WILL ADVANCE WITH THE HELP OF WEATHER MODIFICATION SERVICES.

On December 2, the State Council issued a circular outlining measures for the qualitative development of the weather modification system.

According to the document, by 2025, China will have a developed weather modification system with breakthroughs in fundamental research and R&D in key technologies, continuous improvements in service modernization and enhancement, significant improvements in comprehensive risk protection, and optimization of systems and policies.

The total area of artificial precipitation (snowfall) will exceed 5.5 million square kilometers, and for hail suppression, it should exceed 580,000 square kilometers.

By 2035, China's weather modification system should reach a world-leading level in terms of operations, technologies, and services, according to the circular.

The weather modification service should enhance backup services in the following key areas: assessment of natural disasters such as drought and hail, and corresponding zoning work in agricultural production

areas; standardized operational plans for regions needing environmental protection and restoration; and major emergency response measures for events like forest or grassland fires and unusually high temperatures or droughts."

SECOND:

HOW REALISTIC IS CHINA'S GEOENGINEERING PROJECT?

I'll say right away: in my opinion, it's entirely realistic!

What's interesting is that there's very little information on the implementation of climate projects in China. On one hand, this is understandable—China is a rather closed state. On the other hand, it suggests the likely secrecy of this project by the Chinese government. They talk in general terms about what's already visible. But the scale of what's being done shows that NOT EVERYTHING is visible!

THE TIP OF THE ICEBERG OF CHINA'S CLIMATE TRANSFORMATION PROJECT.

Between 2012 and 2017, China spent over 1.34 billion dollars on various weather modification programs.

In 2017, China allocated 175 million dollars for a weather modification system aimed at bringing more precipitation to a region covering about 10% of the country's territory.

PROJECT "TIANHE"

In Chinese, the name Tianhe literally means "river in the sky / heavens." It is also the Chinese name for the Milky Way.

As part of the project, tens of thousands of furnaces have been installed in the Tibetan mountains, burning fuel. This is the same technology used since the 19th century, but the equipment is much more powerful, and the project is scaled to an enormous territory. According to estimates, the impact increases precipitation by 10 billion cubic meters per year. And judging by the decision to expand the project to the entire country, everything is going successfully. Within the project's parameters.

The new 2020 plan is essentially just a continuation of the Tianhe (Heavenly River) project. Nothing more than SCALING UP ALREADY TESTED TECHNOLOGIES.

Initially, the Tianhe project was developed by scientists at Tsinghua University back in 2016. Its goal was to bring additional rain to an area of 1.6 million square

kilometers. From 2017 to 2020, the project has ALREADY successfully covered 10% of China's territory. So, the technologies are fine-tuned! If the Chinese government has enough resources, covering the entire country with "climate control" is also not an issue!

Tens of thousands of combustion chambers have ALREADY been built in remote areas on the Tibetan Plateau. This is ALREADY the largest project of its kind in the world! Yes, what "largest"—it's the ONLY project of its kind in the world!

The combustion chambers (these turbocharged furnaces) burn solid fuel to produce silver iodide, a substance that induces cloud formation, with a crystalline structure similar to ice.

The chambers are installed in rows on steep mountain ridges facing the moist monsoon from South Asia. When the wind blows against the mountain, it creates an updraft and carries particles into the clouds to induce rain and snow.

The system itself was developed by the Chinese state corporation "China Aerospace Science and Technology Corporation"—a major contractor in the field of space and defense industries. The same corporation that handles lunar exploration and the construction of the

Chinese space station. So, we're talking space technology here!

It was the "space scientists" who designed and constructed the combustion chambers, using advanced military engine technologies. This allows these furnaces, which resemble rocket engines, to efficiently burn high-density solid fuel in an oxygen-deficient environment at altitudes over 5,000 meters, where some of them are located.

THE SIGNIFICANCE OF CONTROLLING THE TIBETAN PLATEAU

This question deserves SPECIAL attention!

The giant glaciers and vast underground reservoirs found on the Tibetan Plateau, often referred to as the "water tower of Asia," make it the source of most of the continent's major rivers—including the Yellow River, Yangtze, Mekong, Salween, and Brahmaputra.

The rivers flowing through China, India, Nepal, Laos, Myanmar, and several other countries provide fresh water for nearly half of the world's population.

And now China not only controls the source of all this fresh water, but is also confident in its ability for MANAGED CONTROL.

Chapter 12. Climate weapon as an element of emerging ecosystem wars

Let me start by saying that the Convention on the Prohibition of Military or Any Other Hostile Use of Environmental Modification Techniques came into force back in 1978.

Yes, that's true.

Under the guarantees of the UN, the international community, and blah-blah-blah...

Yes, that's also true.

The question is, are these guarantees worth anything?!

I believe that since around 2020, the system of international treaty guarantees, the so-called "international system of political checks and balances," has failed. And now, gradually, all serious forces (both states and transnational corporations) are reverting to the "law of the jungle."

Well, yeah, they never really strayed far from the idea that "might makes right." But at least they pretended! Now, I seriously doubt that UN acts or international treaties can restrain anyone in any way!

Scientists claim there is no climate weapon, but the military classifies any attempts to discuss this topic. Question: why classify something that doesn't exist?!

In the press, any attempts to discuss climate weapons are instantly discredited. I mean SERIOUS attempts to SERIOUSLY discuss a SERIOUS topic.

There are plenty of silly articles about "climate weapons" on the internet. And in their ocean, genuinely interesting materials, whose authors try to analyze the issue realistically, get completely lost.

As a result, just mentioning "climate weapons" immediately removes the discussion from the realm of serious discourse:

"*Oh, it's those stories about reptilians from planet Nibiru trying to take over Earth! We don't even want to hear that nonsense!*"

"*Flat Earth nonsense!*"

"*Conspiracy theories!*"

"*Conspiracies!*"

"*Scientists don't confirm this! Scientists say such technologies don't exist today!*"

Uh... So why the IMMEDIATE negative perception of "climate weapons," I wonder?!

Well, if it doesn't exist, it doesn't exist! That's great if it REALLY doesn't!

Let's then discuss HYPOTHETICAL climate weapons. And, alas, the answer is still "no": "We won't discuss conspiracy theories!"

...and it turns out that even discussing HYPOTHETICAL climate weapons is TABOO in societies worldwide!

It feels like those "scientists," who instantly deny everything, are just afraid they'll be anathematized even for speaking on the topic!

So is this "science," or medieval scholasticism with burning unlucky participants of scientific debates at the stake afterward?!

Honestly, I wouldn't even tackle the topic of climate weapons if there were answers to the questions! But there are questions (and serious questions!), and no answers at all!

Aren't these the climate technologies that "don't exist," which China plans to use to control and regulate the climate of half the Eurasian continent?

And do the sheikhs of the Arab Emirates cause floods on the Arabian Peninsula through prayer, or is it through the use of "non-existent" technologies?

And in Vietnam, wasn't it the U.S. Army, with the involvement of multinational corporations, that waged an ecological war (including the use of climate weapons) a full 50 years ago, not "aliens from Nibiru"? Or did "alien military experts" suggest it to them?!

Are we going to declare that Vietnamese slaughter, where the Biosphere was simply exterminated over 20 years, a "hoax" and "conspiracy theory" too?!

Why are billions of dollars spent on geoengineering projects worldwide, yet any discussion of their consequences is brutally taboo in the press?

BACK TO CHINA

Imagine the Eurasian continent. Better yet, don't just look at a map—look at a globe, stopping the spinning sphere in front of you at Tibet. And yes, we need a physical map, not a political one.

Because the political map no longer interests the People's Republic of China (PRC). Chinese leaders, the Communist Party of China (CPC), are no longer interested in politics at all. They couldn't care less about national borders. Let the "white barbarians" keep playing their geopolitical games, since they're stuck in the past. Well, the civilization of the "white barbarians" is still very young. They're all noisy and bickering with each other like puppies!

But China is an ancient and wise civilization. It's the Eternal Empire. And China lives for the future.

CHINA HAS LONG SINCE BEGUN AND IS SUCCESSFULLY WAGING THE FIRST GEOPHYSICAL WAR.

AND THE REST OF THE WORLD HASN'T EVEN NOTICED YET.

Wikipedia classifies geophysical wars as "hypothetical":

"Geophysical weapons are hypothetical weapons whose target is the surrounding natural (geophysical) environment—the hydrosphere, lithosphere, ground layers of the atmosphere, ozone layer, magnetosphere, ionosphere, and near-Earth space. There is currently no evidence of the existence of such weapons.

General characteristics.

The idea of geophysical weapons is to create a mechanism for artificially triggering and targeting destructive natural disasters in specific areas. Such natural disasters include:

— Earthquakes, tectonic shifts and faults, volcanic eruptions, and the secondary catastrophes they cause (such as tsunamis). Geophysical weapons aimed at using these disasters as a destructive factor are usually called "tectonic weapons";

— Atmospheric disasters (tornadoes, typhoons, whirlwinds, downpours), as well as the general climate condition in a specific area (droughts, frosts, erosion). Weapons that could trigger them are often called "climatic weapons";

— Destruction of the ozone layer over specific areas (creating "ozone holes"), with the aim of "burning" and irradiating with natural solar radiation (ozone weapons);

— Impact on water resources (floods, tsunamis, storms, mudslides, snow avalanches);

— Ecological (biospheric) weapons.

It is believed that the possibility of covert use of geophysical weapons is low, as many countries, including the USA, Russia, Germany, France, the UK, and Japan, have various environmental monitoring

systems.

Existence.

Currently, there are no official confirmations or reliable documentary or other material evidence of the existence or development of geophysical weapons in any state. Periodic reports of their development and even use mainly come from tabloid press and are not accompanied by evidence. The possibility of using known weather modification technologies as geophysical weapons is doubtful."

You know what strikes me about this Wikipedia information on geophysical warfare?

Just a complete misunderstanding of the issue!

It's like a cavalry commander of the Red Army discussing tank battle strategy: how much feed "iron horses" need, what kind of stalls are required, and how many cavalry lances and sabers should be in the convoy in case of breakdowns.

See! Even Chinese comrades from the CPC nod in unison to my remark and confirm: "Sun Tzu said—Tactics without strategy is just the noise before defeat."

But let's look at everything ourselves, with our own eyes!

We return to the PHYSICAL map of Eurasia, pasted on a sphere. That is, to the globe. Almost in the middle of the Asian part of the continent, we see a dark brown mountainous country. Tibet and the smaller mountain systems radiating from it.

On a flat map, it will be shown so that Tibet is far to the south, and Russia and the north are enormous. This is a defect of the Mercator projection on a plane. That's why I recommend a globe.

A few years ago, it wasn't entirely clear why China wanted control over Tibet and Xinjiang. High-altitude regions. Cold, expensive, troublesome. Some political analysts pointed to mineral resources. But cautiously.

Since 2017, the Heavenly River climate regulation project has been underway. In 2020, the PRC announced it would fully regulate the climate over China by 2035.

It becomes clear that the Tibetan Plateau and Xinjiang are the keys to controlling Southeast Asia. These mountainous macro-regions create rain and climate. They are vast reservoirs of the purest drinking water in glaciers and underground.

The actions of the PRC become understandable: it's a move towards sustainable control of this entire part of the globe.

Geophysical weapons are STRATEGIC weapons.

While the technocracy of transnational corporations is busy pushing things through international bureaucratic shops like the UN, China has already laid a solid foundation for sustainable control of its 'square of the globe.' The Chinese dragon calmly and unhurriedly deploys STRATEGIC geophysical weapons. It establishes techno-control over a gigantic eco-region of the planet. And the Chinese dragon is completely uninterested in the yapping of hyenas and jackals at its feet, drooling and howling: 'Power, sweet power over the world!'

The Chinese dragon is wise. It understands that it fully controls its world. Simply because it has settled on it with its massive body and laid its head on the peaks of the highest mountains on Earth. The Chinese dragon contemplates the cosmic scale of conducting competitive wars and terraforming other planets.

And the jackals will squabble with the hyenas, and nothing worthwhile will come of it. The dragon knows this too, and it is completely uninterested.

'*To win a hundred victories in a hundred battles is*

not the pinnacle of martial skill.
To defeat the enemy without fighting is
the pinnacle.'
'*The best is to keep the enemy's army intact,*
second best is to destroy it.
... Therefore, to fight and win a hundred times
is not the best of the best;
the best of the best is to conquer the enemy's
army without fighting.'
Sun Tzu, 'The Art of War.'

Climate technologies as TACTICAL weapons are indeed extremely expensive and completely ineffective. The 'valiant' American army brilliantly demonstrated this in Vietnam. Millions of lives and 20 years of an entire generation's life, epically 'flushed down the toilet.'

The motto 'Only you can prevent forests' is a very bad idea. It's much more productive to prevent forest fires.

And forests need to be preserved. Especially Ancient Forests. They are absolutely priceless! Only recently have SOME people in the world begun to realize that glaciers or underground reservoirs of spring water have enduring STRATEGIC value.

The systemic functions of Ancient Forests have no less STRATEGIC value. As a model system for studying complex bio-systems on one hand. And as a climate-regulating element of the planet's Biosphere on the other.

Chinese comrades, by the way, are technocrats through and through, yet they are also implementing the Great Green Wall project!

NOW, ABOUT THE 'ECOSYSTEM WARS' FROM THE TITLE.

In recent years, the term 'ecosystem' has generally been subjected to an inversion of meaning.

'Inversion' means flipping.

'Inversion of meaning (of a term)' is a technology of lies, deceitful propaganda, Overton windows. Replacing the original meaning in public discourse with a completely opposite one. The concepts of 'Overton Windows' and 'inversion of meanings' are fiercely disputed and are not academic or universally recognized.

'Ecosystems' are so actively referred to as 'bank ecosystems' or 'corporate ecosystems' that the fact that an 'ecosystem' is a BIOLOGICAL system has somehow been forgotten!

Quoting from Wikipedia, before it's banned, and Wiki remembers the TRUE meaning:

"Don't confuse it with a business ecosystem!

An ecosystem, or ecological system (from the Ancient Greek οἶκος — dwelling, residence and σύστημα — "a whole composed of parts; a connection") is the fundamental natural unit on the Earth's surface, a collection of cohabiting organisms (biotic) and their living conditions (abiotic), which are in a regular interrelationship with each other and form a system.

One of the core concepts in the science of ecology. It is a biological system consisting of a community of living organisms (biocenosis), their habitat (biotope), and a network of connections facilitating the exchange of matter and energy among them."

The term "ecosystem wars," as used by me, can be found in the sense of "business ecosystem wars," "business structure wars."

I use it in the CORRECT sense of the word!

"Ecosystem" is a BIOLOGICAL system.

"Ecosystem war" is a competitive war of BIOLOGICAL systems.

Judging by the plans and actions of our Chinese comrades from the CPC of China: they understand (or have come close to understanding) the social system of the PRC as part of the local ecosystem of the planet's biosphere.

It seems they have expanded the Eurocentric understanding of "geopolitics" to recognize their society as part of the overall biological system within the encompassing landscape of the planet.

I agree, it's difficult to grasp! But this fine line might be a phase transition in large social systems. Or, at the very least, a state on the verge of such a transition.

From "man as the king of nature," "conquering nature," or even outright war with the planet's biosphere and total ecocide.

To "man as a self-aware part of the ecosystem," "self-awareness of a local civilization within the encompassing landscape."

I fully allow that our Chinese comrades are demonstrating precisely this approach. Or, at the very least, the ability to understand such an approach.

And yes: within this approach, "climate weaponry," as a variant of "geophysical weaponry," begins to be evaluated differently. It stops being "frightening," if you

will! Although it can still be understood precisely as a "weapon" within the framework of competitive warfare (struggle) of complex social systems.

Let's put it metaphorically: the so-called "Western" or "Eurocentric" world is trying to win a game of chess against China. Only I suspect that China is playing not chess, but Go with them.

And China has long since won the game of Go on the round field of planet Earth, while their opponents are still unable to comprehend this.

Chapter 13. "The Great Transformation of Nature"

When discussing geoengineering, it's essential to briefly mention the LARGEST PROJECT IN HISTORY aimed at transforming the natural environment. The Stalin Plan for the Transformation of Nature (or "The Great Plan for the Transformation of Nature," as the English version of the article title suggests) was a comprehensive program for the scientific regulation of nature in the USSR, carried out in the late 1940s and early 1950s.

The plan was officially adopted on the personal initiative of Joseph Stalin. In 1948, a state decree was issued "On the plan for protective forest plantations, the introduction of grassland crop rotations, and the construction of ponds and reservoirs to ensure high and stable yields in the steppe and forest-steppe regions of the European part of the USSR." The Soviet press immediately dubbed the document the "Stalin Plan for the Transformation of Nature."

The plan was indeed unprecedented in scale worldwide. According to this plan, forest belts were to be planted and the climate altered over an area of 120 million hectares!

Let's not be vague—here's what was planned:

"The plan outlined the creation, during 1950–1965, of large state protective forest belts with a total length of 5320 km and an area of forest plantations of 112.38 thousand hectares.

These belts would extend:

1) along both banks of the Volga River from Saratov to Astrakhan—two belts, each 100 m wide and 900 km long;

2) along the watershed of the Khoper and Medveditsa, Kalitva and Berezovaya rivers in the direction of Penza—Yekaterinovka—Kamensk (on the Severskiy Donets)—three belts, each 60 m wide, with 300 m between belts and a length of 600 km;

3) along the watershed of the Ilovlya and Volga rivers in the direction of Kamyshin—Stalingrad—three belts, each 60 m wide, with 300 m between belts and a length of 170 km;

4) along the left bank of the Volga River from Chapayevsk to Vladimirovka—four belts, each 60 m wide, with 300 m between belts and a length of 580 km;

5) from Stalingrad south to Stepnoy—Cherkessk—four belts, each 60 m wide, with 300 m between belts and a length of 570 km;

6) along the banks of the Ural River in the direction of Mount Vishnevaya—Chkalov—Uralsk—Caspian Sea—six belts (three on the right bank and three on the left bank), each 60 m wide, with 200 m between belts and a length of 1080 km;

7) along both banks of the Don River from Voronezh to Rostov—two belts, each 60 m wide and 920 km long;

8) On both banks of the Seversky Donets River from Belgorod to the Don River—two strips, each 30 meters wide and 500 kilometers long."

To develop and implement the plan, a special scientific institute was established—"Agrolesproekt."

A total of 2.3 million hectares of forest were planted in the designed shelterbelts.

Simultaneously with the establishment of the protective forest plantation system, a large program for creating irrigation systems was launched. About 4,000 reservoirs

were created, holding 1,200 cubic meters of water.

You have to wonder: Doesn't this Stalinist plan for the grand transformation of nature remind you of anything?!

In 15 years (from 1950 to 1965), complete control over the natural conditions of a vast part of the country.

Guaranteed water supply for agriculture, incredible growth in harvests, and the grandeur of the Great Country, led by the Wise Party and government.

Ah, exactly, exactly! The Great Middle Empire, the Great Communist Party, the plan for complete climate control of the entire country in 15 years, from 2020 to 2035!

Even the timeline, three five-year plans, matches up!

Let's look further: how did the Great Stalinist plan develop?

Well, it ran into trouble! With Stalin's death in 1953, the plan was scrapped. Many shelterbelts were cut down, several thousand ponds were abandoned, and the 570 forest protection stations created in just five years were dismantled.

From 1985, maintenance work on the irrigation and afforestation systems that had been created was completely halted. The system began to deteriorate and eventually fell apart.

Despite the gradual subsequent degradation, some shelterbelts still exist to this day. A monument to man—the "great transformer of nature"...

"Stone upon stone, brick upon brick,

"Our Lenin, Vladimir Ilyich, has died"...

Oh, right: Stalin, Joseph Vissarionovich!

This year, the Great Helmsman, Comrade Xi, will turn just 70! But the question, of course, is how the power struggle will unfold among the upper echelons of the Chinese elite...

Shall we stock up on popcorn and wait?

I apologize for the sarcasm, but all these "Great Transformations" HAVE ALREADY HAPPENED! Technologies change, eras change—but the essence remains the same!

On a slightly more serious note, in the chapter dedicated to China, the reader might suspect me of having a particular fondness for this truly fascinating country. I just wanted to highlight China's TRULY different approach. Its existing uniqueness. Its peculiarities.

Yes, the PRC is run by technocrats. Just as technocrats were essentially in power in the USSR during the industrialization era. And this makes the "climate

control" plans similar not only in scale.

Here, it's worth mentioning separately the "Green Wall" project—a protective belt of trees, grasses, and shrubs stretching across 13 provinces of the PRC, over 4500 km long and about 100 km wide.

The construction of the Green Wall began in the 1970s and is planned to continue until 2050. During this time, 350,000 square kilometers of the country's area will be greened.

As of 2009, the Green Wall had ALREADY grown across all 13 provinces and ALREADY covered an area of about 220,000 square kilometers. Since the 1970s, the forest area in China has nearly doubled. It has grown from about 8% of the territory to 15% and more.

So, there are successes! And undeniable successes!

I want to show that geoengineering technologies are merely TOOLS. And, like any tool, THEY CAN BE USED IN DIFFERENT WAYS.

The line between "weapon" and "tool" is very thin indeed!

Moreover, in my research, I came across the Chinese definition of climate technologies as "a weapon providing strategic advantage." So, as far as I

understand, they are not considering the question of "sending rain on the enemy," like the Americans did in Vietnam. Those are TACTICAL tasks, and therefore, NOT INTERESTING to the Chinese!

The PRC views climate technologies as a STRATEGIC means of ensuring its own territory with water and food. And, yes, it fully understands this as a MILITARY task.

The "Great Transformation of Nature" began to be tested in the Soviet Union. Now China is implementing it, increasing the scale. Why not? We humans, one way or another, have a huge impact on the Biosphere! But there needs to be an understanding of COMPLEX Living Systems. And the construction of COMPLEX systems. Based on COMPLEX interactions with the elements of the planet's Biosphere.

Simply dumping slag into the planet's troposphere by the ton or "fertilizing" the ocean with cement production waste is unlikely to have any relation to this!

Chapter 14. Chemtrails: Is it possible to openly poison the people so that no one even notices?

“Pavel, please shed some light on the chemtrail issue in your book!

I’m not sure if this relates to climate weapons. But there’s definitely something behind chemtrails. On one hand, it’s hard to believe you could poison people so openly. On the other hand, how do tobacco companies get away with selling poison? Or vodka poisoning the public? Or spraying pesticides over land? We even sprayed DDT over forests just because some official thought it was a good idea! It’s all done openly. In plain sight.

I do wonder, though, if they’re poisoning us, they’re poisoning everyone on Earth. The relatives of those doing the poisoning probably aren’t sitting in bunkers with gas masks. Then again, maybe those following orders don’t realize what they’re doing.

In short, it’s a debatable issue that requires broad public discussion. Without the usual “conspiracy theory” label. But there’s no discussion! We can expect anything from our government. And from any other government too!

If claims that long-lasting contrails are chemtrails with metal particles causing cancer and other diseases are disproven, no one loses. I’m ready to laugh at my own fears in that case. But if it’s something like Agent Orange in Vietnam, and we just laugh at those discussing it, it’ll be bad for everyone.

Personally, I’m also bothered by the fact that regular jet planes either leave no trail or a short one that quickly dissipates. And independent scientists worldwide report that rainwater collected in areas with long-lasting contrails contains aluminum and other metals in concentrations far exceeding permissible limits.

So, write about chemtrails and what you think!”

I receive many letters like this. For some reason, the chemtrail issue concerns many people.

LET’S TRY TO FIGURE THIS OUT TOGETHER!

Astronomer Bob Berman in 2009 described the “conspiracy theory” around chemtrails as a classic example of failing to apply Occam’s razor:

“…instead of accepting the long-known simple solution that the trails consist of frozen water vapor, conspiracy sites claim the phenomenon began only ten years ago and involves a sinister scheme where 40,000 commercial pilots and air traffic controllers conspire to poison their own children.”

For reference:

Occam’s razor is a methodological principle that briefly states: “Entities should not be multiplied without necessity.” Or: “Do not introduce new entities without extreme necessity.”

William of Ockham himself wrote: “What can be done with fewer [assumptions] should not be done with more” and “Multiplicity should not be posited without necessity.”

“Occam’s razor” forms the basis of an “economical” methodology—from simple explanations to complex ones. However, it’s important to remember that Occam’s razor is not an axiom but a presumption. It does NOT PROHIBIT more complex explanations in principle, but merely recommends an order of hypothesis consideration that is best in most cases.

Lieutenant General Samuel Wilson (Director of the Defense Intelligence Agency in 1976–1977) wrote: “90 percent of intelligence comes from open sources and only 10 percent from agent work.”

So we have the opportunity to really understand the chemtrail issue using OPEN sources, and STARTING WITH SIMPLE EXPLANATIONS!

So, Wikipedia and only Wikipedia! NO “conspiracy sites”! And strictly the methodological principle of Occam’s razor—starting STRICTLY from simple explanations, and only then considering more complex ones!

“Chemtrails, or chemical trails, is a conspiracy theory suggesting that a ‘shadow government’ secretly sprays ‘chemicals’ from passenger planes. Conspiracy theorists claim such planes can be identified by unusual contrails.

There is no evidence of the existence of chemtrails.”

“The origins of this concept are linked to Operation Popeye, during which the United States seeded clouds over Vietnam, Cambodia, and Laos from 1967 to 1972. The prohibition on using weather modification technologies for military purposes is now enforced under the Convention on the Prohibition of Military or Any Other Hostile Use of Environmental Modification

Techniques (ENMOD).”

"In August 1996, the U.S. Air Force published an article titled 'Weather as a Force Multiplier: Owning the Weather in 2025,' which proposed ideas for weather weapons. This article became the impetus for the idea of chemtrails."

"On October 2, 2001, the U.S. Congress passed Act H.R. 2977, which for the first time mentioned the term 'chemtrails' as part of the classification of exotic weapons systems."

"In the early 2000s, the U.S. Air Force released an undated information bulletin stating that conspiracy theories were a hoax, partially supported by references to a 1996 strategic document prepared at their Air University, titled 'Weather as a Force Multiplier: Owning the Weather in 2025.'"

The document was presented in response to a military directive outlining a future strategic system for weather modification aimed at maintaining U.S. military dominance in 2025, and was defined as a 'fictional depiction of future situations/scenarios.'

In 2005, the U.S. Air Force clarified that the document "does not reflect current military policy, practice, or capabilities," and that they "are not conducting any

experiments or programs to alter the weather and do not plan to do so in the future."

"Academician Yuri Izrael was an active proponent of the idea of altering the 'meteorological solar constant' by introducing aerosol substances, such as sulfur compounds, into the lower stratosphere (12–16 km). This measure could reduce the Sun's impact on the planet's surface."

In 2008 and 2010, under the leadership of Academician Yuri Izrael, experiments were conducted to disperse sulfate aerosols over an area of 200 km^2 in the stratosphere as a cheap and effective way to combat global warming."

"In 2019, the Harvard project on aerosol spraying in the stratosphere was launched. The first phase of the Harvard project involves two launches of balloons into the stratosphere at an altitude of about 20 kilometers, which will spray 100-gram portions of calcium carbonate over the southwestern part of the United States, and then track how these particles disperse. In total, the balloon will release into the atmosphere approximately as many particles as a commercial airliner emits in one minute of flight."

ATTENTION: THESE ARE ALL CITATIONS FROM WIKIPEDIA!

(ONLY THE ARTICLE ON CHEMTRAILS from the Russian and English Wiki was used! STRICTLY generally accepted data!)

NOW FOR THE MAIN POINT: WHAT DO THE "CONSPIRACY CHEMTRAILS" EXPLAIN?

CONTRAILS! It's simple, no one's making a secret of it: yes, planes fly, and they leave contrails in the atmosphere!

SUMMARY/CONCLUSIONS

Just a systematization of what's said on Wiki:

1. What they call "chemtrails" is simply the contrail of airplanes in the atmosphere. No secrets, everything is open, and everyone acknowledges it.

2. U.S. government agencies openly acknowledge the use of climate weapons through aerial spraying in Vietnam.

3. U.S. government agencies openly claim authorship of the term "chemtrails."

This term was first used on October 2, 2001, by the U.S. Congress in the "H.R. 2977" act as part of the classification of weapon systems.

4. U.S. government agencies openly admit that in the '90s, the idea of "weather weapons" was considered. But they abandoned this idea, and currently, U.S. government structures do not engage in climate weaponry.

5. It is openly acknowledged that "enterprising billionaires" are conducting atmospheric spraying of unknown substances. Randomly and uncontrollably: no governments or the UN can control these "initiatives."

From this perspective: Can anyone control an "enterprising billionaire" if they own an airline? What additives, for example, might be intentionally added to aviation fuel? Or, for instance, could it just be poorly refined fuel for cost-saving, containing who knows what?

I'll add: in previous chapters, I showed similar examples of ocean experiments. When "enterprising billionaire-experimenters" are caught red-handed, they simply say: "It's for peaceful purposes — it doesn't contradict conventions!"

Thus, using scientific methodological principles and relying on fully open data, we come to the conclusions:

— the chemtrail hypothesis is, in general, indeed redundant — we're already being poisoned from the sky quite openly;

— airplane contrails in the atmosphere directly affect the climate, and this is no secret;

— the state in China actively engages in geoengineering. In the U.S., this idea was considered but was likely abandoned due to the high cost of projects. As a result, private corporations are actively involved. At their own risk and completely uncontrollably. Limited, so to speak, only by their high moral principles as "sharks of capitalism."

Chapter 15. Contrails: What falls on our heads from the sky openly and officially?

Contrails are condensation trails. They are streaks of condensed water vapor created in the air by an airplane or rocket at high altitudes. When fossil fuels are burned (in both piston and jet engines), carbon dioxide and water vapor are produced. At high altitudes, the air is very cold. The hot, moist air from the engine's exhaust mixes with the colder surrounding air. As a result, the water vapor condenses into droplets or ice crystals, forming visible clouds. The rate at which contrails dissipate depends entirely on weather conditions. If the atmosphere is near saturation, a contrail can persist for some time. Conversely, if the atmosphere is dry, the contrail will quickly dissipate.

It has long been established that contrails can persist for hours. More than that! It's normal for them to spread out as cirrus clouds! Ice crystals of various sizes in contrails descend at different speeds, leading to the

vertical spread of the contrail. Then, the difference in wind speeds between altitudes (wind shear) causes the horizontal spread of the contrail. This mechanism is similar to the formation of naturally occurring cirrus clouds. Contrails at altitudes from 7,600 to 12,200 meters often merge into an almost continuous cloud sheet.

Contrails can spread laterally for several kilometers. With sufficient air movement, contrails can create a completely overcast sky, which increases the ice content of individual contrails and persists for many hours.

Experts in atmospheric phenomena say that the characteristics attributed to chemtrails are simply features of contrails reacting to various conditions. Sunlight, temperatures, horizontal and vertical wind shifts, and humidity levels. In the U.S., the grid-like pattern of the trails is linked to the National Airspace System. These are "air corridors" for aircraft, laid out in latitude or longitude directions.

The U.S. Air Force prepared an information bulletin describing these contrail phenomena, observed and analyzed at least since 1953.

Again, attention! This is all from official OPEN sources!

Another definition from the "Cirrus Clouds" section of Wikipedia:

> "A contrail is an artificial type of cirrus cloud that forms when water vapor from jet engine exhaust condenses on particles that come either from the surrounding air or from the exhaust itself, and freezes, leaving a visible trail. Exhaust gases can cause cirrus clouds to form by creating ice nuclei when there is an insufficient natural source in the atmosphere. One environmental impact of aviation is that persistent contrails can form large mats of cirrus clouds. The increase in air traffic is considered one of the possible reasons for the rise in frequency and quantity of cirrus clouds in Earth's atmosphere."

"Exhaust gases from an engine mainly consist of water and carbon dioxide, the combustion products of hydrocarbon fuel. Many other chemical byproducts of incomplete combustion of hydrocarbon fuel, including volatile organic compounds, inorganic gases, polycyclic aromatic hydrocarbons, oxygenated organic compounds, alcohols, ozone, and soot particles, have been observed at lower concentrations. The exact composition depends on the type of engine and the primary functions of the internal combustion engine, with UP TO 30% OF

AIRCRAFT EXHAUST GASES BEING UNBURNED FUEL."

"Metallic particles of micron size, resulting from engine wear, have also been detected."

> "Contrails can cause surface temperature changes on a regional scale for some time. As part of the 'Atmospheric Effects of Aviation' (AEAP) project, NASA investigated the atmospheric and climatological effects of contrails, including impacts on ozone, ice crystal formation, and particle composition."

> "Bomber contrails affected the climate during World War II. Near airbases, a higher temperature of 0.8° C was recorded."

This is all a QUOTATION from Wikipedia!

Now, some averaged estimates regarding the impact volumes of aviation.

On average, a passenger jet consumes 15 tons of fuel and 625 tons of air during 1 hour of flight.

In the form of exhaust, the following is released into the environment during 1 hour of flight: — 46.8 tons of carbon dioxide; — 18 tons of water vapor; — 635

kilograms of carbon monoxide; — 635 kilograms of nitrogen oxides; — 15 kilograms of sulfur oxides; — 2–3 kilograms of other solid particles.

For example and reference: the main limitation for aviation kerosene according to GOST is a total sulfur content of no more than 0.2%. It seems like a small amount. But imagine the volumes of sulfur released into the atmosphere, considering the volumes of fuel burned!

The average duration of these substances in the atmosphere is approximately 2 years.

LEAD

In the United States alone, there are about 167,000 piston-engine aircraft—about three-quarters of the country's private planes.

From 1970 to 2007, these small aviation planes released about 34,000 tons of lead into the atmosphere (according to the U.S. Environmental Protection Agency). The fact is that tetraethyl lead is added to their aviation fuel as an anti-knock additive.

DESTRUCTION OF THE EARTH'S OZONE LAYER BY AVIATION. A completely separate topic! And, most likely, the most dangerous one!

The hypothesis about the significant impact of aircraft engine exhaust on ozone was first proposed in 1971 by University of California chemist Johnston. He suggested that nitrogen oxides NO and NO2, present in jet aircraft emissions, could lead to a reduction in atmospheric ozone.

Further research showed that the interactions between exhaust and the atmosphere are very complex. Depending on the altitude of the flight, this can lead to both the destruction and formation of ozone. As a result, aviation was not blamed for the destruction of the planet's ozone layer. Or did they just not want to blame it?!

For reference:

The Montreal Protocol on Substances that Deplete the Ozone Layer is an international protocol to the 1985 Vienna Convention for the Protection of the Ozone Layer, developed to protect the ozone layer by phasing out the production of certain chemicals that deplete it. The protocol came into effect on January 1, 1989.

The agreement is structured around several groups of halogenated hydrocarbons that deplete stratospheric ozone. All ozone-depleting substances regulated by the Montreal Protocol contain either chlorine or bromine.

However, some ozone-depleting substances are not regulated by the Montreal Protocol, including, for example, nitrogen oxides. The question is, why?! Could it be because jet aviation is the REAL CAUSE of ozone layer destruction?!

In any case, there is no true consensus on this issue. And there are huge doubts!

SOME CONCLUSIONS

I wrote in previous chapters that it was relatively recently discovered how a massive amount of iron with soot enters the ocean from ship engines. Much more than any experiments on ocean “fertilization” for geoengineering purposes. And this has ALREADY caused colossal changes in ocean biota.

Perhaps earlier studies simply DIDN'T WANT to notice this?

It seems something similar is happening with aviation. And all the noise and fuss around “conspiracy theorists” and “chemtrails” then looks like just a cover operation, designed to distract people from the REAL danger — contrails and aircraft emissions.

Openly occurring under the influence of regular civil aviation: — alteration of the very structure of the planet's cloud cover;

— emissions of hundreds of tons of outright poisons into the atmosphere;

— destruction of the ozone layer;

— release of fine particles (or, as they are more commonly called now, nanoparticles), which remain in the air for decades.

Chapter 16. The latest major projects in geoengineering

On September 15, 2022, "Environmental Research Communications" published "A Scenario for Deploying Stratospheric Aerosol Injection with Subpolar Orientation."

A new concept for a geoengineering project is proposed, involving the spraying of light-reflecting aerosol in polar regions.

In the fall of 2022, numerous press publications referenced this study. It's no surprise that journalists are interested! The proposal involves not only a truly global climate intervention but also provides a calculated economic rationale.

The particle spraying is proposed to be done seasonally. In each hemisphere, this is planned to occur at the beginning of the polar summer. This way, the same fleet of aircraft can be used to treat the Northern Hemisphere from March to June, and the Southern Hemisphere from September to December.

Sulfur dioxide SO2 is proposed as the aerosol. It oxidizes to sulfuric acid H2SO4, an effective substance for radiation shielding, and after about a month in the stratosphere, forms a generally liquid supercooled aerosol. An extremely stable aerosol at that.

I would, of course, say that the idea of spraying sulfuric acid into the air from a safety perspective is not the best idea! But, looking further: the authors have worked out all the technical details.

The authors propose creating a new modification of an aircraft specifically designed for their project. They named this version "SAIL-43K."

“43 K” indicates the altitude (43,000 feet, or approximately 15 km) at which aerosol needs to be dispersed into the stratosphere.

"SAIL" stands for "Stratospheric Aerosol Injection Lofter"—a "Device for Injecting Stratospheric Aerosol." It's like a flying multi-ton mega-syringe. The design is based on the aerial refueling tankers of the U.S. military.

It is proposed that an air fleet of 125 such "aerial tankers" could lift and disperse the necessary amount of aerosol to cool regions above 60° latitude by 2°C in a year.

And the costs for such an event will amount to about $11 billion a year—a sum that the authors consider utterly laughable.

According to the calculations, it requires the dispersal of 6.7 thousand tons of sulfur dioxide (SO2) per year in each hemisphere. The total annual mass, released 15 kilometers into the atmosphere, then amounts to 13.4 thousand tons.

Total nonsense?! I thought so at first too!

But let's look further! The authors even capture the finer details. Including, for instance, the kind of opposition their idea might face.

Look at what they write:

> "It is equally implausible to assume that intervention in these remote regions of the world could bypass global discussions and governance issues, which will likely be necessary to establish its legitimacy. In northern Sweden in 2021, a tiny field experiment was planned solely to test high-altitude flight equipment without releasing any aerosols. Not only did it not go unnoticed, but it was also canceled after public objections from the Saami Council on behalf of local indigenous peoples (Saami Council 2021,

> SCoPEx Advisory Committee 2021)."

I also liked this phrase from the project, and I want to highlight it:

> "Therefore, the deployment of any such program should be considered a long-term and deliberate endeavor, rather than a potentially quick response to a climate emergency."

And now, "for dessert," the section on "research funding." It's really interesting — WHO funds SUCH projects?

> "Support was provided by the National Science Foundation, the Environmental Resilience Institute at Indiana University, and the 'Prepared for Environmental Change' Grand Challenge initiative."

"Grand Challenges" — as far as I can tell, this is a family of initiatives by the Bill and Melinda Gates Foundation.

Grand Challenges at Indiana University.

Prepared for Environmental Change.

Our second Grand Challenge, Prepared for Environmental Change, started in early 2017.

(Prepared for environmental

change

Our second big challenge,

prepared for environmental

change, began

in early 2017.)

In 2017, Indiana University (IU) President Michael A. McRobbie announced that IU would invest $55 million to help Indiana develop effective solutions to the consequences of ongoing environmental changes. The initiative, prepared to address environmental changes, is the second project funded under the $300 million IU Grand Challenges program, which launched in 2015.

It's just curious where the state of Indiana is in the U.S., and where the spraying of all sorts of junk at the planet's poles is happening!

Some additional facts.

In February 2021, an interview surfaced in which Bill Gates talked about his intention to invest $2 billion in startups and projects that help combat climate change. The billionaire planned to spend this amount over the next five years.

Additionally, Mr. Gates noted that addressing climate change requires new technologies. In this field, government support is crucial. Therefore, he called for increasing government spending on research and development in this area fivefold—to $110 billion a year.

By the way, Bill Gates is also sponsoring the "SCoPEx" project ("Stratospheric Controlled Perturbation Experiment"). It was developed by Harvard University scientists in the field of solar geoengineering. The project involves using a balloon to release a certain amount of calcium carbonate particles into the atmosphere at altitudes of about 20 km.

This is the very experiment that the Sámi Council disrupted in 2021 in Sweden.

Such interesting connections.

Perhaps it's worth adding the following:

In 2022, the U.S. authorities announced a five-year research plan on "climate intervention" using geoengineering methods to combat climate change.

Let me remind you that since the 1990s, according to claims by U.S. government agencies, they have not conducted such programs. But starting in 2022, they OFFICIALLY began such programs!

“In the Consolidated Appropriations Act of 2022, Congress directed the White House Office of Science and Technology Policy (OSTP), in coordination with relevant federal agencies, to develop a five-year scientific assessment of solar and other rapid climate interventions in the context of short-term climate risks and hazards,” the White House stated.

The report should include:

1. — defining goals in relevant areas of scientific research;

2. — capabilities necessary for modeling, analysis, observation, and monitoring of atmospheric composition;

3. — impact on the climate and Earth's radiation budget;

4. — coordination of federal research and investments to manage short-term climate risks and research into long-term climate interventions.

Chapter 17. Tectonic weapons — can earthquakes or tsunamis be triggered?

SPOILER: The idea of such weapons is old. But ACTUALLY having this kind of impact on the planet is UNLIKELY for humans at this point. There are types of weapons that fit the definition of “seismic/tectonic weapons.” However, their power is extremely limited — they won’t trigger a 10-point earthquake. The sad part is that the development of such weapons is likely CONTINUING. And this is a potentially very dangerous way for Humanity to collectively commit suicide…

SUCH WEAPONS, WHETHER THEY EXIST OR NOT, ARE A SOURCE OF CONCERN.

Any major earthquake sparks a surge of so-called “conspiracy theories” in society.

Journalists, various media outlets, and now bloggers on social networks, seize the moment to tell “scary stories.” And the scarier the story, the more it grabs the audience’s attention!

This was once again demonstrated by the surge of various speculations and “horror stories” following the recent earthquake in Turkey in 2023. So let’s try to figure it out ourselves and “separate the wheat from the chaff”!

Due to the increasing flow of unreliable information, we face an additional problem — secondary unreliability of information, or “second-level unreliability,” so to speak.

Society is manipulated not by hiding or classifying facts, but by drowning them in a flood of lies and fantastical assumptions. The more unrealistic these “scary stories” are, the better for the manipulators. It becomes very easy then to declare everything, including REAL FACTS, as “conspiracy nonsense”!

FIRST, LET’S DEFINE THE TERMS.

Tectonic weapons are hypothetical devices or systems that could trigger earthquakes, volcanic eruptions, or other seismic events in specific locations by interfering with Earth’s natural geological processes. It was defined in 1992 by Alexey Vsevolodovich Nikolaev, a corresponding member of the Russian Academy of Sciences: “Tectonic or seismic weapons are the use of accumulated tectonic energy from the deeper layers of the Earth to cause a destructive earthquake.”

So, the very definition of “tectonic weapons” was given relatively recently (in 1992) by a Russian/Soviet scientist. I searched for the source, found it, and now I’ll simply quote it for the readers:

“Correspondent: — What exactly are ‘tectonic weapons’? Can a nuclear explosion provoke an earthquake in a given area?”

A. Nikolaev: — Tectonic, or seismic, weapons are those that can, using the accumulated tectonic energy of the Earth’s interior, lead to a destructive earthquake. But there is some terminological confusion here. When talking about an earthquake induced by an explosion, some believe it’s just a ‘trigger’ for an event already prepared by nature, while others think that an area that has never experienced an earthquake will suddenly have one if a nuclear bomb is detonated there. I, of course, believe that nothing will happen if the Earth isn’t ready. (…)”

Is it possible, from a scientific standpoint, to initiate a seismic shock? For example, for good purposes?

A. Nikolaev: — We’ve already discussed examples of beneficial impact. But setting out to cause an earthquake is a highly dubious endeavor. Seismically hazardous zones are known in principle. But it’s not easy

to determine where a shock will occur exactly ten days later — that would mean solving the problem of earthquake prediction.

IF THE PROBLEM OF PREDICTING THE TIME AND PLACE OF AN EARTHQUAKE IS SOLVED, THEN IN PRINCIPLE, YOU CAN USE YOUR KNOWLEDGE TO NUDGE EVENTS. Similar to how a stone on a slope is about to fall, but we don't wait for it to fall and give it a push. In general, tectonic weapons are an exaggerated problem."

An extremely interesting opinion from a specialist, by the way, from the "distant 90s"!

Note also: Wikipedia and all subsequent quotes emphasize that the author of the term "tectonic weapons," Soviet seismologist Alexey Nikolaev, DENIES THE VERY POSSIBILITY OF SUCH WEAPONS EXISTING. However, in the ORIGINAL interview with the Soviet specialist, I find that he DOUBTS its existence based on the scientific knowledge of that time.

But!

"IF THE PROBLEM OF PREDICTING THE TIME AND PLACE OF AN EARTHQUAKE IS SOLVED, THEN IN PRINCIPLE, YOU CAN USE YOUR KNOWLEDGE TO NUDGE EVENTS."

So, tectonic weapons, though limited in application ONLY IN SEISMICALLY HAZARDOUS ZONES, are, it turns out, PRINCIPALLY POSSIBLE!

The question isn’t so much about the possibility of provoking an earthquake (the expert speaks of this as a real fact) — it’s all about the ability to predict an earthquake! And then, knowing the right moment, you can influence the process. Difficult? Yes. Impossible? No.

Overall, the article with the interview is very interesting. In many ways, it hasn't lost its relevance over the years. Therefore, and considering that the article is now hard to find, I will present its text in full as an appendix chapter for my readers.

Chapter 18. Appendix

ARTICLE "Earthquake on Command, or a Discussion on Whether Humans Can Control the Elements."

Journal "Knowledge is Power" No. 1, 1992.

In the summer of 1991, sensational reports appeared in the press: there is a direct correlation between nuclear tests and the strongest earthquakes. Naturally, such reports could not leave people indifferent, especially those living in seismically dangerous areas. Our correspondent reached out with questions on this matter to one of the leading seismologists in our country, Corresponding Member of the USSR Academy of Sciences, Professor Alexey Vsevolodovich Nikolaev.

CAN EARTHQUAKES BE CONTROLLED?

Correspondent: — In early summer 1991, the media circulated sensational reports about the possibility of controlling earthquakes using powerful explosions. These were based on your presentation at an international symposium in Baku in June of last year and a report in the "Proceedings of the USSR Academy of

Sciences." Is such a possibility real? What is "induced seismicity"?

A. Nikolaev: — The term "induced seismicity" first appeared in connection with the filling of artificial reservoirs. A classic example is the construction of a dam and the filling of a reservoir near the city of Koyna, India, which triggered an earthquake with a magnitude of six in an otherwise calm, aseismic area. Then, high dams began to be erected in many regions, and an increase in weak and moderate seismicity was noted there.

True, there were no very strong earthquakes or disasters, but disturbances and inconveniences occurred in response to the filling of reservoirs. The positive effect was that knowledge emerged on how to operate a reservoir to reduce the risk of a strong induced shock — you shouldn't fill the reservoir too quickly or release water from it too rapidly.

Correspondent: — And that's when the idea of artificially relieving tectonic stresses arose?

A. Nikolaev: — This idea is old and not ours. It was expressed in connection with rock bursts. An experimental nuclear explosion was even conducted to somehow shake the rock formations and relieve stress.

For more than ten years, we have been dealing with somewhat different artificial effects — the influence of vibrations on the physical properties of rock formations and the processes occurring within them. This led to the discovery of induced geophysical effects. Despite vibrators emitting microdoses of seismic energy, it was like modeling stronger impacts. From here, we can move to full-scale applications.

The main result: rocks are affected not only by constant or very slowly changing stresses but also by seismic waves (in technical terms, they are not only stress-sensitive but also vibration-sensitive). By acting with elastic waves, we can alter the natural course of processes, revealing subtle effects that exist in nature but are unnoticed under normal conditions. Discovering that the vibration sensitivity of rocks is high, I wondered; could a strong, albeit distant earthquake affect an earthquake in another zone? And could an explosion affect earthquakes, the process of earthquake preparation?

Correspondent: — Despite the weakness of such impacts due to great distance? But under what conditions?

A. Nikolaev: — Well, with a large energy source, the surface displacement amplitudes even thousands of kilometers from the epicenter aren't so small — on the order of microns. But the main thing is that the earthquake must be ready to occur. It just needs a nudge, help to pull the "trigger." And it will happen sooner and won't mature to a larger energy (magnitude).

It's like shaking an apple tree to prevent the apples from growing further. A statistical analysis method was applied to earthquake and underground nuclear explosion catalogs, allowing even very weak connections between phenomena to be identified.

As "inducing" sources, earthquakes in the Pamir-Hindu Kush zone and underground nuclear explosions at the Nevada and Semipalatinsk test sites were used. The results were unexpected. The influence of earthquakes and explosions on the situation in seismically hazardous zones was detected at distances up to two thousand kilometers. This effect manifested at different times over short and long distances, varying slightly with explosions and earthquakes, but in principle, it boiled down to one thing: the maturation of the focal zone for a seismic shock was noticeably accelerated.

Let's say, in the first five days after an underground nuclear explosion, all the earthquakes that were supposed to occur not in the first five, but in the first seven days, actually happened. Thus, the Earth is stimulated for accelerated development. For instance, in the zone of a future epicenter, there is avalanche-unstable crack formation. This is precisely what gets accelerated.

The impact of the explosion, although weak, occurs over a large area and not instantaneously, but continues for several minutes with a magnitude of 5.5—6. It's a kind of homeopathy that produces a noticeable effect. In principle, it's possible to "irradiate" a seismically active zone with vibrational impacts, but we haven't managed to do that yet. The power there is less, but the effect can be achieved through the long duration of the impact.

Correspondent: — Can weak tidal moonquakes be considered a model of induced seismicity?

A. Nikolaev: — In a way. Lunar earthquakes occur according to a "gravitational schedule," with a known periodicity, every half month to a month. The changing gravitational pull of the Earth prevents large stresses from accumulating there. If the release on the Moon happened, say, once a year, they would probably be

larger events.

Does tectonic weaponry exist?

Correspondent: — What exactly is "tectonic weaponry"? Can a nuclear explosion trigger an earthquake in a specific area?

A. Nikolaev: — Tectonic, or seismic, weaponry is something that can use the accumulated tectonic energy of the Earth's interior to cause a destructive earthquake. But there's some terminological confusion here. When people talk about an earthquake induced by an explosion, some believe it's just a "trigger" for an event already prepared by nature, while others think an area that has never experienced an earthquake could suddenly have one if a nuclear bomb is detonated there. I, of course, believe that nothing will happen if the Earth isn't ready.

Correspondent: — So, an earthquake can't happen in Moscow?

A. Nikolaev: — An earthquake can't happen in Moscow, and tectonic weaponry can't be used against Moscow.

Correspondent: — I remember, two or three years ago, there was panic in Moscow about this, fueled, by the way, by the press. People were waiting for "X-day." Employees of the Institute of Earth Physics were

calming the public through newspapers and TV screens. As a lecturer for the "Knowledge" society, I even had to write a note for a high school student's mother, saying that on such-and-such a July day, there would be no earthquake in Moscow, and it was safe to send her child to camp.

A. Nikolaev: — Yes, at that time, my colleagues — A. Nikonov, G. Sobolev, N. Shebalin, V. Sholpo, O. Starovoyt — and I had to debunk these frightening predictions. Scientists usually analyze a whole set of possible future scenarios.

We were offered a single scenario, consisting of a series of assumptions and conjectures, with each link in the chain of cause and effect viewed extremely pessimistically. In any case, one shouldn't make categorical, unchecked statements in the mainstream press, bringing scientific debates to the public and inciting fear. Openness is one thing, but it doesn't negate scientific ethics, responsibility, and common sense. Moreover, Moscow is located outside seismic zones; strong earthquakes don't occur here. It's another matter if waves come from a distant epicenter — dishes might rattle, chandeliers might sway — but that's not dangerous.

Correspondent: — What about where the Earth is ready? Say, Gazli in 1976 and 1984? Weren't these earthquakes initiated by underground nuclear explosions at the Semipalatinsk test site?

A. Nikolaev: — In general, underground explosions significantly add to natural seismicity. For instance, there were about five hundred explosions in Nevada, around three hundred in Semipalatinsk. As a result, the major region — Anatolia, Iran, Central Asia — slightly adjusted its seismic regime. Previously, there were very strong earthquakes (with a magnitude of 8). Now there's a shortage of "eights": human technological interference through explosions has made the Earth tremble more often and less intensely.

As for Gazli. Yes, there were eleven earthquakes with a magnitude over five, including three well-known destructive ones, all occurring just a few days after explosions at the Semipalatinsk test site. But it wasn't just the explosions that influenced them. There was a dual impact. First, natural tectonic stresses had already accumulated. According to geological data, strong earthquakes had occurred there. Academician A. Yanshin and Professor V. Ulomov had previously written that this was a potentially seismically dangerous area. Additionally, gas extraction altered the reservoir

pressure. In the final stage of earthquake preparation, the process lost stability and became sensitive to external influences. At that point, to overflow the cup of tectonic patience, so to speak, it only took the last drop — a nuclear explosion.

Correspondent: — Let's recall the rumors and discussions after the 1988 Spitak earthquake that it was orchestrated by ill-wishers, that it wasn't an earthquake but an explosion. What would you say about that?

A. Nikolaev: "It's a pointless endeavor, conjectures without any basis. Everything is documented. If anyone doubts and doesn't believe the official data, they can look at the seismograms, the records of geophysical fields, and see for themselves that there are no anomalies that could be identified as explosions. The issue of potential impact on the geophysical environment surrounding humans has been of concern to the international community for two decades."

The Soviet Union submitted a proposal to the United Nations to establish a convention prohibiting impacts on the natural environment and climate for military and other purposes not compatible with the interests of international security, welfare, and human health. A draft convention was presented, which among other

things proposed banning "the excitation of seismic waves by any methods and means leading to earthquakes." The convention came into force in 1978, with about sixty participants joining. The Soviet Union was one of the first to join and strictly adheres to the convention.

Correspondent: "But there could be violators of the convention. Is it scientifically possible to initiate a seismic event? For example, for benevolent purposes?"

A. Nikolaev: "We've already discussed examples of beneficial impacts. But setting a goal to trigger an earthquake is an extremely dubious endeavor. There are known seismically hazardous zones in principle. However, it's not easy to pinpoint where a tremor will occur exactly in ten days—that would mean solving the problem of earthquake prediction. If the problem of predicting the time and place of an earthquake is solved, then in principle, one could use that knowledge to nudge events along. It's similar to a stone on a slope that's about to fall, but instead of waiting for it to fall, we give it a push. Overall, tectonic weapons are a contrived issue."

AND YET: CAN WE PREDICT THE TIME OF AN EARTHQUAKE?

Correspondent: "With the identified possibility of releasing tectonic stress, doesn't the issue of earthquake prediction take a back seat?"

A. Nikolaev: — The issue of seismic hazard and safety encompasses a whole range of aspects: predicting location, magnitude, timing, earthquake-resistant construction, monitoring, induced seismicity, seismic weapons, and seismic protection. The problem of prediction remains, to a certain extent, the main one. In general, seismology develops from one major earthquake to the next major earthquake.

The first "government decree" on seismology by His Imperial Majesty's Highest Law regarding the allocation of funds from the State Treasury for the maintenance of Russia's seismic institutions was adopted after the catastrophic Verny earthquake in 1911. The next was related to the Yalta earthquake (1927), then the Ashgabat earthquake in 1948. Post-Spitak hasn't happened yet. Funds have been promised for the development of a modern system of seismological observations, but they are not available yet.

Correspondent: "What effect will this system have, and will the costs of its creation be justified?"

A. Nikolaev: "The new observation network will improve the quality of seismic zoning—firstly. Secondly, it will allow construction to be based on more substantiated recommendations from seismologists."

Next, consider the long-term forecast, which essentially merges with seismic zoning. Seismic zoning determines the overall probability of a strong earthquake in a given location over a span of one hundred to one thousand years. Meanwhile, the long-term forecast covers a period of up to ten years. Therefore, it is possible to plan economic activities, construction, anti-seismic measures, and civil defense readiness accordingly. In short, live by the saying, "be strong where you need to be, and weak where you can be."

And if this had been done, the losses from earthquakes would have been less. Over forty-five years, including Ashgabat, Spitak, and Ossetia, the losses amounted to about 20 billion rubles. They could have been reduced by at least thirty percent. And if even a fraction of that were allocated to the development of seismology, it would thrive without financial worries.

Correspondent: "Some scientists believe that predicting the time of an earthquake is impossible, and therefore unnecessary..."

A. Nikolaev: "It's not up to scientists to decide whether a prediction is needed or not. You can think that way sitting in Moscow. But try telling that to someone whose child was trapped in a daycare during the Spitak earthquake... It's strange to me when people in Moscow sit and debate whether it's needed or not."

Correspondent: "But is it possible or not?"

A. Nikolaev: — With some probability, since our forecast is probabilistic. Let's say, next week in this area, there's a probability of zero point... tenths that a tremor with a magnitude greater than such-and-such will occur. And the authorities can decide what to do—warn people, evacuate them, mobilize rescuers, or do nothing. But really, solving the forecasting problem is a slow process, whereas building properly could be done right now. Then forecasting wouldn't be such a painful issue.

Shadow seismology

Correspondent: "In this context, let's touch on the topic of seismic prophets, or we could say shadow forecasting. Readers of newspapers and magazines in the years following Spitak are familiar with the barrage of projects, literally an onslaught of forecasters from both within and outside science. In particular, the Institute of Earth Physics, where you are the deputy director, has

been inundated by them. What is the current relationship with these 'seismic shadowers'?"

A. Nikolaev: "Yes, there have been quite a few stories. The main ones are associated with names known from the press—E. Nesmeyanovich, V. Ivannikov, O. Martynov. The Interdepartmental Council on Seismology and Earthquake-Resistant Construction and the Institute of Earth Physics of the USSR Academy of Sciences had to engage in a lengthy dialogue with them. The story of O. Martynov, a metallurgist from Tula, is particularly telling."

Here too—grand claims, top secrecy, new physical fields, and philosophical principles. The story began with an article in "Pravda" in June 1989, where three correspondents recounted a visit to a small, clandestine laboratory. There, using a "barrel pierced with rods," a device "developed on an entirely new theoretical basis of physics," and the concept of "system openness considering direct and feedback links," they allegedly detected earthquake precursors. Despite the top secrecy, we managed to get into this barrel. As we suspected, there was neither method nor prediction. The question arises: how is it that Martynov received funding from the USSR Council of Ministers (if "Pravda" is to be believed, three million rubles), and why, despite

false earthquake predictions for Petropavlovsk-Kamchatsky and Alma-Ata, is he setting up his system of devices in Kazakhstan? There are many more "whys," and the answers, it turns out, lie deep—in the conversion of the military industry. Entangled in this web of problems are the Ministry of Communications, the newspaper "Pravda," and the Ministry of Defense. But that's a separate fascinating story.

Correspondent: "And how has the financial 'support' been lately? Has it continued?"

A. Nikolaev: "Yes, in Kazakhstan, the construction of a seismic forecasting range equipped with Martynov's top-secret devices is ongoing."

Correspondent: "What distinguishes amateur forecasters? Is there something common or characteristic about them?"

A. Nikolaev: "Perhaps. First, they actively engage in self-promotion. In doing so, they disparage professional science. Often, they harbor a particular hatred and irritation towards the Academy of Sciences."

Second, they avoid expert evaluation under various pretexts. Third, they easily manipulate facts: failed forecasts are declared successful; after a strong earthquake, they claim they predicted it in advance. And

lastly, they used to often appeal to the classics of natural science and Marxism-Leninism in their proofs, but now there's a shift towards astral themes and all sorts of nonsense like poltergeists."

I must say, this is not only characteristic of our prophets. Our country is not an exception in this regard. It has happened in the USA, Japan, and other countries... Now the press there has 'grown up,' and the issue of forecast information is under control. But this was only after the 'Peruvian drama.' In Peru, American seismologist Brady, ignoring his colleagues' opinions, informed the press about an impending seismic catastrophe, as he believed. Panic ensued, and the flow of tourists decreased. Essentially, it was an economic sabotage that cost the country billions. Brady couldn't be held accountable—there were no appropriate laws."

But later, the UN recommended that scientists and authorities not disclose forecast information concerning another country's territory. Professional secrets are shared only with colleagues. This, of course, also applies to one's own country: forecast information verified by experts should be passed on to the government. The authority that announces the forecast assumes full responsibility.

That's why the USSR Academy of Sciences has a special system for processing forecast information. The Interdepartmental Council on Seismology conducts the evaluation. Unfortunately, these rules are violated, specialists don't keep secrets, authorities don't know what to do, and the law doesn't apply to prophets. Who will answer for the reckless, false forecasts that have flooded the country?

Through calls and letters, we know their geography. There are plenty of irresponsible forecasts. But canceling them is harder; it requires not just knowledge but courage. The press, probably unintentionally, often creates a stressful situation. We believe the press should also be the one to fix it.

KNOW WHAT TO FEAR

Correspondent: — What should the culture of media coverage be like when it comes to the complex issues of seismology that affect people's lives? How can we educate the public and raise their seismic awareness? We live in a complex, contrasting, psychologically tense time; people are looking for relief and are susceptible to rumors and sensationalism. On the other hand, science hasn't succeeded in predicting earthquakes...

A. Nikolaev: — Undoubtedly, spreading scientific results among the masses is very important, though we don't always realize it, or we simply don't have time to do it. Writing about seismology needs to be regular and competent. Some form of seismic culture should be instilled as part of general culture. This is especially important for those living in seismically hazardous areas. They need to know what to fear, what not to fear, what's happening, and how to behave in danger.

In the U.S., for example, there's a children's record and booklet, and kids sing along and remember where to run and what to do. Unfortunately, we don't have mass publications on this topic. Now, about trust and the crisis of trust. There has always been a crisis of trust — towards the intelligentsia, scientists, and fundamental sciences. People say they just sit there, spending money on who knows what. This crisis is not only due to the undeniable imperfection of our knowledge. It's also because we have this long-standing 'practice' where someone has to be blamed. A strong earthquake occurs. Why did it happen? Either because the scientists are so smart that they provoked it, cleverly timing it right under Spitak. Or, they say, the scientists are such fools, wasting state money, and still can't predict earthquakes. These are the polar viewpoints. We need to understand

what can be expected from scientists and what cannot. There is inherent ambiguity in solving certain problems, and there is a definite limit to what can be explored about the Earth using geophysical methods. Seismology learns from the strongest catastrophic earthquakes. When they occur, we get a chance to understand them better. They happen rarely — there's little material for learning. This doesn't mean we regret their rarity. But we must realize: we will be learning all our lives. And our grandchildren will be learning. If the current level of science had existed a thousand years ago, we would know a lot — how earthquake precursors behave in each area, how to identify them precisely. We would trust some things. And some things — not... Right now, it's a painful learning process.

Correspondent: — You once said that for precise and detailed knowledge of the Earth's structure and the mechanism of earthquakes, so much is needed, I quote — 'every cobblestone needs to be replaced with a seismometer.' What kind of investment does seismology deserve today, in our time of pervasive shortage and universal crisis?

A. Nikolaev: — I think now is not the time to create super-systems, but a time to plant potatoes and sow wheat. We need to survive the tough period and endure.

We should work well with the resources we already have and improve them. Aiming for a super-system is, among other things, an attempt to justify our impotence: 'if only we had the most advanced equipment and computing technology, then we could do everything!'

The well-known economist Tereshchenko called this hidden sabotage. Intervention should be 'velvet.'

Correspondent: — Let's conclude by discussing what seismology brings to people's lives. Can its influence be positive and negative? Is it appropriate to speak of “seismozhology”?

A. Nikolaev: — Yes, if we mean induced seismicity. When it comes to preserving nature, we need to ensure that artificial technological impacts are delicate, aligned with natural geodynamic processes, and do not lead to undesirable consequences. They should not disrupt, but possibly enhance, natural balance.

If we can regularly release tectonic stresses, it will lead to ecological well-being, though it also represents an intrusion into nature. And from this, only this special perspective, underground nuclear explosions contribute positively to seismicity. They help ensure that stresses in the Earth's crust are released in jolts not with a magnitude of eight, but with a magnitude of seven, or

instead of seven, six.

Of course, nuclear tests should be banned for other reasons—environmental, moral. And here, seismology plays a positive role in monitoring. Another example is seismic exploration of oil structures. It's an extremely necessary task. However, there are drawbacks: it disrupts the productive soil layer and the balance of groundwater. But seismologists are seeking solutions—using the Earth's natural vibrations, employing non-explosive wave sources, impact, and vibrational methods. By the way, vibrational impacts prove beneficial for stimulating oil recovery from fields. And finally, there's the ecology of people's psyche, if you will. Here, the science of seismology helps prepare, potentially shielding from alarming rumors and unfounded fantasies and fears. It protects against nervous overloads, preserving and strengthening people's mental health. This is also not the least of seismology's tasks.

(Interview conducted by I. Galkin)

WHILE THE ISSUE WAS BEING PRINTED

In October 1991, when the issue was already in print, a forecast of a devastating earthquake in Chechen-Ingushetia was announced. It added to the passions and

anxieties of the socio-political situation. During those days, Alexey Vsevolodovich NIKOLAEV appeared on television with an "anti-forecast." We asked him to comment on this heated situation in addition to the already prepared interview.

A. Nikolaev: "In my opinion, and this is not just my view but also that of seismology experts, no one in Chechen-Ingushetia had the data necessary to issue a short-term forecast for a destructive earthquake. The information available does not contain any signs warranting an alarm. Of course, more detailed geophysical observations in this area would be needed, but that's a matter for the future."

The analysis of the available data allowed us to say: there is no basis for issuing a short-term forecast for the next month in Chechen-Ingushetia. At the same time, there is currently a seismic activation throughout the Caucasus region, and a strong earthquake in the North Caucasus, including Chechen-Ingushetia, is possible. However, the expected probability of it is much lower than what a short-term forecast would suggest. As for the "Political Statement" of the OKCHN (National Congress of the Chechen People) executive committee from October 1991, published in the newspaper "Voice of Chechen-Ingushetia" on October 18, 1991, which

claimed that Russian seismologists knew about the preparation of the earthquake and that it could be artificially initiated or intensified, I will say briefly and firmly: they did not know, it cannot be!

The misunderstandings here are caused by false information published in the newspapers "Megapolis Express" and "Komsomolskaya Pravda." To paraphrase a well-known French saying, "Look for the journalist." Unfortunately, the press is often careless.

Reporter: "Have you ever had to 'cancel' earthquakes?"

A. Nikolaev: "You can't cancel an earthquake, but I've been involved in canceling earthquake forecasts many times: I canceled short-term forecasts for a major earthquake in Beijing (at the request of the Soviet embassy), in Petropavlovsk-Kamchatsky, Almaty, Stavropol, Crimea, and even in Moscow. And in Chechen-Ingushetia, as you can see."

Reporter: "And how about your 'anti-forecasts'?"

A. Nikolaev: "So far, they've been accurate."

Reporter: "What feelings do you have towards the authors of unreliable forecasts?"

A. Nikolaev: "Sympathy. Mostly, these are people who are sincerely mistaken, though not all of them, of course, as mentioned in the interview. You can't really change their minds. The only thing you can do is somehow temper the press, which often creates and supports these people."

Reporter: "And that's why you feel about the press..."

A. Nikolaev: "As a seismologist—cautiously, distrustfully. This doesn't apply, of course, to the magazine 'Knowledge is Power,' with which I've been collaborating for a long time."

Chapter 19. Earthquake in Turkey — is the use of tectonic weapons possible?

“Turkish conspiracy theorists accuse NATO and the USA of using tectonic weapons in Turkey.” “Strange lightning flashes were observed minutes before the earthquake. Additionally, a US warship arrived off the coast of Turkey shortly before the earthquake.”

Headlines like these are all over the press right now!

The authors propose three main points for consideration:

1. A US ship was stationed in Turkey the day before.

2. Starting January 27, 2023, US and other countries' embassies were closed under the pretext of a “security threat” in Turkey.

3. The earthquake in Turkey, which has become an “inconvenient partner” for the US and NATO, happened “very conveniently” for political reasons. It will likely distract Turkey from foreign policy issues for a long time

and is already being actively used by the Turkish opposition. In general, President Erdogan now has plenty to deal with — all this happening just before the presidential elections.

At the same time, rumors of “strange glowing” before the earthquake are being debunked: other sources report that several videos showing bright lights in the sky are unrelated to events in Turkey. The original video was shot on September 21, 2022, in Kazakhstan. It was the launch of the Soyuz MS-22 spacecraft from Baikonur.

Let's try to figure this all out!

FIRST QUESTION: who is spreading the idea of the possible use of geophysical (tectonic) weapons?

In Russia, on the program “MALAKHOV” on the “Russia 1” channel, a certain Sedik Afghan stated that there is a committee in the world working against humanity. Sedik claims that back in 2015, he predicted natural disasters that would occur in 2023. Therefore, when the disaster struck southeastern Turkey, he wasn’t surprised: “According to my calculations, this is an artificial earthquake. It was done on purpose. A bomb was placed 14 kilometers deep in the ground and detonated. These are not empty words — I can calculate and prove all of

this right now.”

Who is this Sedik Afghan?

“Sedik Afghan is an Afghan philosopher and mathematician. One of the greatest geniuses in the world, included in the UN and UNESCO World Heritage List.

He was born on March 20, 1958, into a family of Afghan businessmen and had a special inclination for calculations from childhood. From 1982 to 1991, he studied in the USSR: mathematics in Lipetsk, then philosophy with history (Leningrad). Above all titles and ranks, Sedik values his independence. He loves and respects all peoples and nations of the Planet. He feels at home everywhere. Currently, he lives ‘in two homes’ — in Turkey and Afghanistan. Like all reasonable and educated people, he dreams of a New Just World and is ready to contribute to its creation.”

This is from one of the mathematician's own websites.

The Russian-language resource is called the “Center for Philosophical Mathematics.” It claims to be “intended to coordinate a movement to unite efforts in support of peace on the entire planet.”

The English-language Wikipedia entry is more modest:

> “Sedik Afghan is an Afghan mathematician. He is the founder and head of the World Philosophical-Mathematical Research Center in Kabul, Afghanistan. He is also a political activist. He played a notable role in protests in Kabul regarding issues related to Afghanistan and Islam, including an anti-American protest in 2003, a hunger strike protesting the beating of journalists by Afghan security personnel in 2006, and another against Danish cartoons of Muhammad in 2008.”

…

> “Ask other Russian scientists about Sedik Afghan’s talent: most of them consider him a fraud who profits from naive people by offering them paid courses in the philosophy of mathematics.”

Not as epic as on the mathematician's own sites.

I’ll leave it to the readers to assess the credibility of Mr. Malakhov and TV talk shows in general!

SO:

PROPOSED METHOD: “A bomb was placed 14 kilometers deep in the ground and detonated.”

CREDIBILITY OF THE INFORMATION SOURCE: not great, in my opinion.

FOR REFERENCE AND COMPARISON: “The Kola Superdeep Borehole (SG-3) is the deepest man-made hole in the world.…

In 1997, it was listed in the Guinness Book of Records as the deepest human intrusion into the Earth's crust, and it remains so to this day.…

As a result of drilling, which was conducted intermittently from 1970 to 1991, the DEPTH OF THE BOREHOLE REACHED 12,262 METERS.”

What can I say…

If we believe the mathematician, then the Kola Superdeep Borehole, which was drilled for 20 years, is no longer the record! Two kilometers deeper, IN SECRET FROM EVERYONE, someone not only managed to drill but also buried the fruit of their titanic efforts with a bomb explosion at a depth of 14 kilometers!

The next source is Turkish.

The Turkish newspaper "dikGAZETE" claims: The USA caused earthquakes in Turkey using the HAARP project.

The closure of US consulates in Turkey at the end of January, the earthquakes, and the arrival of an American warship shortly before cannot be a mere coincidence. Washington is behind the disaster, argues the author of the article from "dikGAZETE," Ömür Çelikdönmez.

SO: THE SUPPOSED METHOD: the HAARP project.

LEVEL OF TRUST IN THE SOURCE: not great. A newspaper article with more complaints about the American flag on an American ship being much larger than the guest Turkish flag.

FOR REFERENCE:

"HAARP (High Frequency Active Auroral Research Program) is an American research project focused on studying the interaction of the ionosphere with powerful electromagnetic radiation. The project was launched in the spring of 1997 in Gakona, Alaska. … Similar complexes and stations are located:

in Vasilsursk (Russia) — "Sura," the second most powerful emitter after HAARP; … Emission power: HAARP (USA) — presumably up to 4.8 MW (in 2009 it was 3.6 MW). Sura — about 2 MW. … Conspiracy theories:

HAARP, like the "Sura" installation, has been a target for conspiracy theorists who claim it can modify the weather, disable satellites, control people's minds, and so on, suggesting it is used as a weapon against terrorists. They have blamed HAARP for earthquakes, droughts, hurricanes, floods, diseases (Gulf War syndrome and chronic fatigue syndrome), the crash of TWA Flight 800 in 1996, and the destruction of the space shuttle Columbia in 2003.

Commentators and scientists say that proponents of these theories are "uninformed," as most of the proposed theories fall far outside the capabilities of the facility and often beyond the realm of natural sciences. The power of HAARP's emissions is vanishingly small even compared to a lightning discharge (50-100 lightning strikes occur in the atmosphere daily), and the energy of the solar wind is much higher."

It’s worth adding, of course, that the programs for researching ionospheric scattering of high-frequency radio waves deserve separate consideration: it’s a very large topic with many questions surrounding it!

Another Turkish source is clearly more serious than a newspaper!

Serdar Hüseyin Yıldırım, who was appointed head of the Turkish Space Agency in 2019. Not just an official state bureaucrat, but also a "specialist" in the field!

In a video posted on social media, Serdar Hüseyin Yıldırım says: "There are killer satellites that can send 10-meter titanium alloy rods to any point on Earth from space! These rods penetrate 5 kilometers underground, creating earthquakes with a magnitude of 7 to 8. They are also impossible to detect."

Whoa! Now that's some technology, isn't it?!

But there are nuances!

Yıldırım made a statement regarding this video on social media after the publication spread. On February 15, he made the following statements:

— "There are many questions about the video that has been circulating on social media for several days. This short video is a snippet from a lecture I gave long ago at the Institute of Strategy. I described a weapon system that, when deployed and used in low Earth orbit, could wipe a small city off the map.

— This weapon system does not perform functions like triggering fault lines or creating tectonic earthquakes. Therefore, it has nothing to do with the natural disaster, the tectonic earthquake that occurred on a known fault

line. I don't want any misconceptions. The effect of this weapon can be compared to a meteorite strike."

So there you have it—no sensationalism here!

The man was talking about a FANTASTIC, though theoretically possible, weapon system. And he spoke about it years ago in a lecture.

It would be simply IMPOSSIBLE not to notice the REAL application of such technology!

So, it's worth being critical of information sources!

SECOND QUESTION: what exactly happened. At least briefly for understanding!

The 2023 earthquake in Turkey and Syria is a provisional name for two consecutive powerful earthquakes that occurred on February 6, 2023, nine hours apart. The epicenter of the first, with a magnitude of 7.8, was in the Şehitkamil area of Gaziantep (Turkey), and the epicenter of the second, with a magnitude of 7.5, was in the Ekinözü area of Kahramanmaraş (Turkey). After the earthquakes, more than a thousand aftershocks were recorded, with the strongest having a magnitude of up to 6.7.

As a result of the catastrophe in Turkey, 39,672 people died (as of February 17), and in Syria, at least 8,500 people. Tens of thousands were injured.

Turkey is located in one of the most seismically active zones in the world. The area where the earthquake occurred is at the intersection of three tectonic plates: the Anatolian, Arabian, and African plates. The Arabian plate is moving northward, causing the Anatolian plate (which holds most of Turkey) to be pushed westward. The movement of these plates creates pressure on the fault zones between them. A sudden release of the accumulated energy from this pressure triggers earthquakes.

Since 1970, within a 250-kilometer radius of the February 6, 2023 earthquake, there have been three earthquakes with a magnitude of 6 or more. The largest of these, with a magnitude of 6.7, occurred on January 24, 2020.

Could an earthquake have been accurately predicted in advance?

To some extent, it is possible! For example, Russian seismologists were aware of the high risks of a powerful earthquake in Turkey and Syria thanks to their own system for predicting underground tremors. This was

stated to Izvestia by the director of the Institute of Earthquake Prediction Theory and Mathematical Geophysics of the Russian Academy of Sciences, Pyotr Shebalin:

> "The earthquake in Turkey occurred in a zone where we expected tremors with a magnitude of 8 within five years. But this zone covers an area larger than all of Turkey. From a layperson's perspective, this prediction is imprecise, as it cannot be used for evacuating the population or conducting other preventive measures. Indeed, such a forecast is insufficient for cutting off electricity to prevent fires or for halting transportation."

As you can see, even in earthquake prediction, human capabilities are quite limited!

Right now, Turkish seismologists are predicting an earthquake in Istanbul. It could lead to even worse consequences than the disaster on February 6. This was reported by the newspaper "Hürriyet" on February 17, citing data from scientists.

Experts explain that such a danger is determined by the city's location at the junction of the Anatolian and Eurasian tectonic plates.

"An earthquake with a magnitude greater than 7 awaits us all in Istanbul at any moment," experts say.

THIRD: BRIEF CONCLUSIONS.

— the earthquake occurred in one of the MOST SEISMICALLY DANGEROUS REGIONS IN THE WORLD, where such earthquakes are not uncommon;

— it's entirely possible that the U.S. had more accurate forecasts than other countries. There's nothing impossible about that. In that case, the closure of embassies could be linked to this. It's despicable, of course, to know about a disaster in advance and not inform people! But it's quite in the spirit of "international politics";

— the U.S. ship that was in Turkey shortly before the earthquake — USS Nitze (DDG-94) — an Arleigh Burke-class destroyer. It's doubtful that it could "launch a nuclear torpedo and cause an earthquake." Not the right class of ship, in principle!

For reference: "A destroyer is a class of multi-purpose, fast, maneuverable warships designed to combat submarines, aircraft (including missiles), and enemy ships, as well as to protect and defend ship formations or convoys at sea. Destroyers can also be used for reconnaissance and patrol duties, artillery support

during landings, and for laying minefields and smoke screens."

The Russian name "minonosets" comes from the fact that in pre-revolutionary Russia, torpedoes were called "self-propelled mines." The designation "squadron" indicates the ability of ships of this class to operate as part of a squadron in oceanic and maritime zones."

— the proposed theories on how and what could have triggered the earthquake (a bomb explosion in a 14-kilometer-deep well, HAARP radiation, "titanium piles driven into the ground from satellites," or possible sabotage by a destroyer-class ship) seem dubious;

— the loud cries in the press and on television about the "artificial origin of the earthquake" seem to be nothing more than publicity stunts by their authors on a "hot" topic — on the blood and victims among the population, which attract a lot of audience attention. Despicable, but quite in the spirit of the media.

I tried to gather and analyze REAL facts. To collect and sift them from the "ninth wave" of lies that the media bombard us with.

And behind the veil of lies, I see real crimes being committed against people and the Earth's Biosphere itself. The facts that are hidden from us. We're being

"talked over." Discord is sown among people. Something is deliberately exaggerated to cartoonish proportions, and then everything is declared "conspiracy theory" along with genuinely existing things.

Among other things, I came across some data: a recent express survey of Turkish residents by the sociologists at "Qvanta." Already, 69% believe the earthquake was "the result of deliberate actions by the USA" and "America's use of tectonic weapons."

However, the theories about "what was used" vary. About half link the disaster (and previous ones) to the docking of U.S. warships with "special installations" in a Turkish port, while a third of respondents blame the American HAARP system and strikes with titanium rods from American Warrior satellites.

A complete success for "Turkish conspiracy theories"! The enemy and culprit have been found! Meanwhile, the embezzlement of construction funds, the lack of earthquake-resistant buildings, or a reliable earthquake prediction system go unnoticed by the people…

And yes: the development of geophysical (tectonic) weapons was pursued in the past. And most likely, it continues today. It's just that FOR NOW, such technologies are unlikely to match the destructive power

of natural disasters. But businessmen in search of profits and military departments in the struggle for power do not stop…

And they are not even stopped by the destruction of the very habitat of humans, the Biosphere itself, in the pursuit of such endeavors…

Chapter 20. Climate technologies in our country. Here and now — contemporary use

On May 29, 2023, Vladimir Putin held a working meeting with the head of the Republic of Sakha (Yakutia), Aisen Nikolaev. They discussed the socio-economic situation in the region, as well as projects in industry, information technology, and so on and so forth.

I was intrigued by the discussion on rainmaking technology. Such a high-level discussion in our country!

I quote what was dedicated to this kind of "techno-shamanism" with rain:

“Vladimir Putin:

Fire hazard period. How are we preparing for this?

Aisen Nikolaev:

Vladimir Vladimirovich, first of all, thank you immensely for the support you provided us in 2021. Without your personal support, your calls, how would we have managed? But we learned very important lessons and

worked on our mistakes.

Thanks to your directive, the federal budget increased funding for this area by almost six times, and we increased ours by more than three times. Here's how it turned out: in 2021, over seven million hectares of forest burned. There were 1600 fires. Last year, 2022, there were 500 fires (about three times fewer), and the area affected by fire was around 500 thousand hectares — a historic minimum for all observation times, a 14-fold decrease.

This is precisely the result of the funds allocated by the Government's decision and our funds being invested in increasing staff numbers. Remember, I always said we were lagging far behind even the Soviet standards. We've started to catch up a bit, equipment was purchased, and the number of aerial monitoring routes increased.

LAST YEAR, WE CONDUCTED AN EXPERIMENT FOR THE FIRST TIME: WE ENGAGED AVIATION TO PROACTIVELY INDUCE RAIN IN AREAS WHERE WE MIGHT HAVE HAD FIRES. I BELIEVE THIS HELPED US A LOT IN MAY AND JUNE.

This year won't be easy for us either. To implement all the decisions on reducing forest flammability, we have increased the service area by 20 million hectares, in agreement with Rosleskhoz (it was 40 million in 2021, last year it became 50 million, and this year it's 70 million). We've also deployed additional forces."

Exactly a year ago, in May 2022, Nikolaev proposed inducing artificial rainfall in Yakutia to reduce the fire risk in the forests.

In June 2022, the country's president instructed the government and Nikolaev to conduct an experiment on artificial rainfall to prevent fires.

In August, the first deputy chairman of the republic's government, Dmitry Sadovnikov, announced that the experiment was successfully completed.

According to Article 53.4 of the Forest Code, artificial rainfall in Russia can only be induced to extinguish forest fires. Nikolaev proposed an experiment aimed specifically at preventing fires, not extinguishing them:

> "I propose considering the possibility of amending the Forest Code of the Russian Federation with provisions that allow for activities not only to extinguish forest fires through artificial precipitation

but also to conduct artificial precipitation activities to reduce the fire hazard class in forests located in control zones. <…> And I ask to designate Yakutia here as the region with the largest area of forests in the control zone—we have 200 million hectares—as a pilot region."

"We consider artificial rainfall to be the most effective and productive method in fighting forest and other landscape natural fires here in the republic. Last year, it helped us a lot. According to the Forest Code [of the Russian Federation], artificial rainfall is only carried out to extinguish forest fires. I believe that in control zones <…> we need to work proactively using a risk-oriented method. Specifically, upon receiving a forecast from the meteorological service about an increase in the fire hazard class in a particular area, we should take action without waiting for fires to start burning far from populated areas and potentially spread to them."

Local authorities also stated that the aircraft used for artificial rainfall could be applied for soil moisture and combating drought in agriculture.

The Yakutia authorities intend to expand artificial rainfall efforts in 2023. Dmitry Lepchikov, chairman of the regional state committee for ensuring public safety (Goskomobespecheniya), says the following:

> "As planned last year, we will continue the work on artificial rainfall — using a reconnaissance aircraft. We also plan to ensure the readiness of the Polar Airlines aircraft (a regional airline), which will have new equipment for artificial rainfall. This means the republic will have its own aircraft for artificial rainfall."

Eighty million rubles will be allocated for these purposes.

A plane from the local airline "Polar Airlines" will be equipped with equipment.

The Federal Aerial Forest Protection Service has long used a special reconnaissance aircraft, the An-26 "Cyclone," equipped with a "Fan" installation loaded with pyrotechnic cartridges containing silver iodide. And now Yakutia will have such an aircraft too.

The An-26 "Cyclone" aircraft, used for artificial precipitation, is equipped with 384 pyrotechnic cartridges.

Rain can start at least 30 minutes after the shots. At most—within three hours. Pyrotechnic cartridges with silver iodide are "fired" into clouds at an altitude of about 5 kilometers above the ground. When the cloud is sprayed with the tiniest particles of silver iodide, snowflakes immediately begin to form on them. Just a few grams of this substance are enough for 10,000 tons of water to pour out of an average-sized cloud. To deliver such an amount of water to a fire, it would take more than 830 Be-200 firefighting planes.

A pyrotechnic device weighing 75–80 grams contains a pyrotechnic composition weighing 33 grams, which burns for about 40 seconds and during this time, in free fall, manages to travel at least 1500 meters above cumulus clouds. Meanwhile, the combustion products of silver iodide flow out, forming an ice-forming reagent that induces precipitation.

This technology has been developed in Russia since 1968. Active work was conducted in Siberia, the Far East, the Urals, and the Northwest during the USSR era.

Since 2007, the work was halted due to the transfer of forest fire extinguishing responsibilities to the regions of Russia.

The right to conduct such work was returned to the Federal Aviation Forest Protection Service in 2016. From that moment, efforts to artificially induce precipitation have resumed across the country.

A BIG AFTERWORD

In reality, this book on climate technologies is just a survey. I tried to gather the striking moments of the history and current practice of geoengineering to create a more or less complete picture of what's happening.

This, of course, goes beyond just manipulating the climate, but my own feelings from the puzzle I've put together are disheartening. Behind the theatrical scenery of “civilization,” a hairy ape still sits, squinting maliciously. One might say, “with a grenade of geoengineering technologies in its trembling paws,” but the situation is much worse! The ape is sitting on an entire box of grenades. This includes nuclear technologies, virology, information technologies, social sciences, and much, much more. Everything in the ape's brain successfully forms a stable phrase with the word “weapon.”

Proxy wars, wars fought by others, continue as they always have. If anything, they burn even brighter.

I've written about this before: essentially, a war is being waged against the planet's Biosphere. The Vietnam War is the clearest example. The biological system itself was deliberately destroyed. Jungles were totally annihilated so that “guerrillas would have nowhere to hide.” The local forest ecosystem was burned with napalm and poisoned with chemicals. Technologies for artificially inducing rain were used to boot. It was like trying to “kill a fly with a sledgehammer.” A complete disproportion of methods to the intended goal.

And you know what struck me as the most vivid and telling in the history of the Vietnamese ecocide?

The motto of the U.S. Air Force pilots, who were the direct executors of the criminal orders for ecocide: “Only you can prevent forests.” A perversion of the U.S. Forest Service's motto, “Only you can prevent forest fires.”

Many of them later fell ill, poisoned by the same toxins that fell on them as they sprayed Vietnam.

Some even lived to receive compensation from the government. Not all of those poisoned, of course.

Poisoned — themselves. Poisoned themselves.

Perhaps this is the biggest lesson of the Vietnam War?

And indeed of the war we are waging against the planet's living ecosystems?

We are killing ourselves. We are poisoning ourselves.

In the chapter on chemtrails, I quoted Bob Berman:

> “...instead of accepting the long-known simple solution that the trails consist of frozen water vapor, conspiracy sites claim that the phenomenon began only ten years ago and involves a sinister scheme in which 40,000 commercial pilots and air traffic controllers are conspiring to poison their own children.”

Bob is both right and wrong at the same time!

Indeed, there was and is no “sinister scheme!”

Everything is open and obvious!

It's just that “40,000 commercial pilots and air traffic controllers are conspiring to poison their own children” completely voluntarily!

And they are sincerely proud of their well-paid jobs and their professionalism.

Why shouldn't civil aviation pilots write on the sides of airliners “There are no chemtrails — only we are poisoning you from the sky!” following the example of

their U.S. Air Force colleagues during the Vietnam ecocide?!

People tell me: So what, should we switch to a horse and cart now?!

I don't know.

But such a radical action is unlikely to help solve the problem!

But to solve problems, they first need to be recognized and not feared to be spoken aloud. That's what I do — I write books and run blogs.

Climate weapons existed in the past, exist now, and continue to be developed. Quite actively, by the way! With adjustments for the type of warfare, which is changing.

These are MY conclusions. I have gathered in one place and briefly outlined why I draw such conclusions. Everything is open! And everyone can make THEIR own conclusions.

THE PAST

Climate technologies (intervention in weather processes through technical methods) were brought under state control from the end of the 19th to the middle of the 20th century.

Geoengineering has fallen into the hands of the military. The ecocide in Vietnam is just the most striking example of its use. But it's by no means the only one!

PRESENT DAY

The military is "keeping a finger on the pulse" of geoengineering technologies. However, they classify them as "exotic weapons" and are not actively pursuing military developments. As a "direct action" weapon, climate technologies have proven to be slow and unpredictable in their outcomes. More importantly, they are also extremely costly.

However, now commercial transnational companies are actively engaged in geoengineering. In their type of proxy wars, based on the principle of "everyone against everyone" without territorial divisions and in the absence of borders, climate manipulation is a weapon that is applicable and effective. The delayed and not fully predictable result is difficult to link to the perpetrator. Just as intended!

The bureaucratic system of states, and even more so of intergovernmental organizations like the UN, is complex and practically non-functional. And business structures couldn't care less about international acts! They not only bypass what hinders them but also exploit the

monstrous structure of bureaucracies (national or international) to their own advantage. In some places, it's bribes and corruption. And elsewhere, the bribery of officials is even legalized and called "lobbying."

Transnational businesses are now stirring up panic in the press about the "climate agenda." They use objective, real problems for their own enrichment. A simple scheme, for example, to obtain massive funding for climate experiments is quite clear. It's no different from siphoning off funds through road projects! There, it's impossible to accurately assess how much gravel or sand was actually "poured" into the roads. You're not going to "dig up" the road for an expense audit! And here, it's unclear how much soot or sulfur you've "launched into the sky" or dumped into the ocean.

With one caveat, though: dumping crap into the atmosphere or ocean is NOT DESIRABLE at all! Civil aviation and maritime shipping already handle that in excess! I'm talking about pollution of the atmosphere and ocean.

Future

Neither major corporations nor the big, commercial science tied to them will shy away from geoengineering experiments. There's just too much money involved!

But an even more dangerous trend is emerging.

The first 'techno-shamans' were nothing more than carnival hucksters and charlatans. They collected money from gullible farmers, paying for PR campaigns in the press and simply having a weather forecast in hand. At the same time in history, similar figures were selling 'magic seeds,' 'miracle fertilizers,' and 'unique growth and yield stimulators.'

Over time, the world became more systematic. Now, transnational corporations completely control farmers through monopolies on fertilizers, technologies, and seeds. These are the same corporations, by the way, that received money from the U.S. military and government for their 'Agent Orange' and technologies during the Vietnam ecocide.

Great idea: Why not charge for rain and climate too?!

This business narrative is clearly visible in the actions of transnational merchants! Unfortunately...

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