

How much? What is how much?

On the necessity of quantitative studies in climate and energy science

Prof. László Csaba SZARKA

*Geophysicist; Ordinary Member of the Hungarian Academy of Sciences;
Chair, Energy Working Group of the Batthyány Society of Professors (PBK)*

Co-authors (PBK Energy Working Group Members):

*Prof. István BÉRCZI , Prof. István BÁRSONY (Ordinary Member of the Hungarian Academy of Sciences),
Prof. László CSERNAI (Ordinary Member of the Norwegian Academy of Sciences, External Member of the Hungarian Academy
of Sciences), Prof. László GARBAI, Prof. Gyula GRESCHIK, Prof. Tamás BIRÓ, Prof. György KÁDÁR, Prof. Ádám KISS,
Prof. Paul G. MEZEY (External Member of the Hungarian Academy of Sciences),
Prof. Csaba Attila SZABÓ, Prof. József Zsigmond SZABÓ*

**16th International EIKE Conference on Climate and Energy
in Cooperation with CFACT and The Heartland Institute
Vienna 14 – 15 June 2024**

Version of June 2, 2024

***The ship's captain shouts down to the engine room to the furnaceman: "how much?".
"Thirty" is the answer.
"Thirty what?" - asks the captain.
"What is how much?" asks the furnaceman.
(Known as an old joke in Hungary)***

Seeing the dramatic energy developments in Europe, and feeling our responsibility, a conservative group of Hungarian scientists: the Energy Working Group of the Batthyány Society of Professors (established in the summer of 2022 within the PBK), in 2023 published a comprehensive summary for decision makers, both in Hungarian and in English. An insight:

1. Energy is the basis of our civilization. Our energy carriers come from the conversion of natural energies.
2. In order to deal meaningfully with any issue, it is first of all necessary to get rid of unclear definitions and narratives that are far removed from physical reality.
3. The answers that can be given to the basic questions of the Earth-mankind relationship, largely depend on the human values we start from. Among other things, whether we admit that nature can be made more beautiful by humans. Answering this question is especially critical nowadays, when everything becomes totally confused.

Since 2022, the global situation has worsened.

„For the time will come when people will not tolerate healthy doctrine, but with itching ears will surround themselves with teachers who cater to their people’s own desires. They will refuse to listen to the truth and will turn to myths.”

2 Timothy 4, 3-4

„Denn es wird eine Zeit sein, da sie die heilsame Lehre nicht leiden werden; sondern nach ihren eigenen Lüsten werden sie sich selbst Lehrer aufladen, nach dem ihnen die Ohren jucken, und werden die Ohren von der Wahrheit wenden und sich zu Fabeln kehren.”

2 Timotheus 4:3-4

Myths (Fabeln)

Healthy doctrines (heilssame Lehre)

The Green Transition Myth

Environmental damage →

It exists, but its remedy

is the terr

About 45

„ecological f

CO₂-em

„Green
Transition”



Antropogeneuous CO₂-emission

A healthy doctrine

The Green Transition is technically impossible and it is against both humanity and nature.

Pointless. Among others, because ~1% (10 000 ppm) of the composition of the whole planet is of carbon.

Global natural phenomena cannot be stopped.

Mitigation: only on local and regional scales.

Confused, controversial; it ignores the nature

The atmospheric CO₂ concentration increase is a fact, but only ~5% is of anthropogenic origin.

It is fact, but even the sign of its overall effect is questionable.

**At the COP 28, it became evident
that the original Green Transition
is impossible...**

Environmental
damage

... and the
green transition
is more harmful

→ „Green Transition“



Decarbonization

?



Mitigation

(Stop „Global Warming“, „Climate Change“,
„Extreme Weather“)

?



„Global Warming“, „Climate Change“,
„Extreme Weather“

?

LET'S EXAMINE THIS CLOSER!



Increasing CO₂ level in the atmosphere

?



Antropogeneous CO₂ emission

?

WHAT IS „CLIMATE CHANGE”?

A traditional definition: „Climate change is the term used to describe changes in the state of the climate that can be identified by changes in the average and/or the variability of its properties and that persists for an extended period, typically decades or longer.” (WMO)

UNFCCC (1992): The Beginning of an Open Scam

Preamble, page 1: *Concerned that human activities have been substantially increasing **the atmospheric concentrations of greenhouse gases**, that these increases enhance the natural greenhouse effect, and that **this will result on average in an additional warming of the Earth’s surface and atmosphere** and may adversely affect natural ecosystems and humankind...”*

Article 1 (Definitions), page 3: *“Climate change” means a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.*

Article 3 (Objectives), page 4: *The ultimate objective of this Convention ... is ... **stabilization of greenhouse gas concentrations** in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system.*

IPCC’s (1988) recognizes both definitions for Climate Change:

Climate Change by IPCC: *Climate change refers to any change in climate over time, whether due to natural variability or as a result of human activity. This usage differs from that in the United Nations Framework Convention on Climate Change (UNFCCC), which defines “climate change” as: “a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.” See also climate variability.*

IPCC has two Governing Principles:

IPCC Governing Principles (1998). *„to assess on a comprehensive, objective, open and transparent basis the scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced adaptation and mitigation.” [ipcc-principles.pdf](#)*

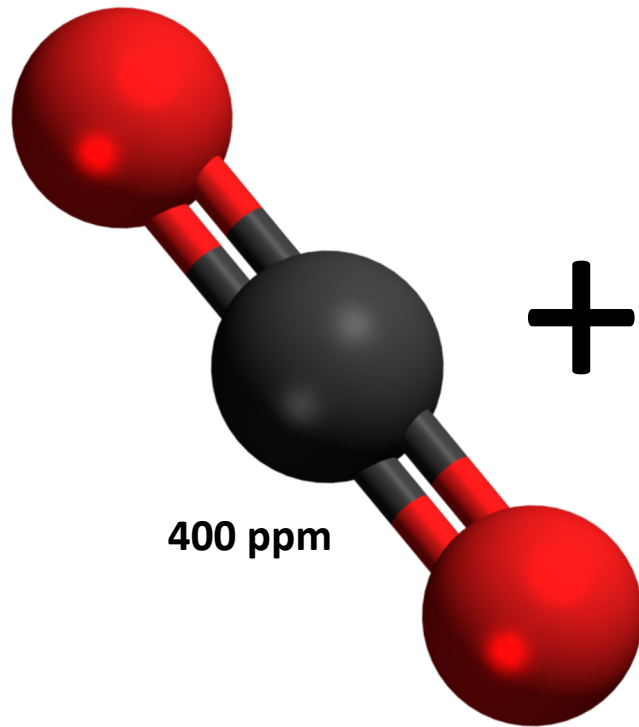
IPCC Governing Principles (2024). *„The Intergovernmental Panel on Climate Change (IPCC) was set up in 1988 to provide comprehensive assessments of the state of scientific, technical and socio-economic knowledge on climate change, its causes, potential impacts and response strategies.” [ipcc.ch](#)*

2021-: the IPCC AR6 narrative sets it as the two definitions are the same, that is the „natural climate variability” is zero.

2020-: EVERYTHING is subordinated to Climate Policy, see Great Reset ("Agenda 2030"="SDG")

The CO₂ myth

Today's scientific world-view:



+

**Positive
feedbacks**

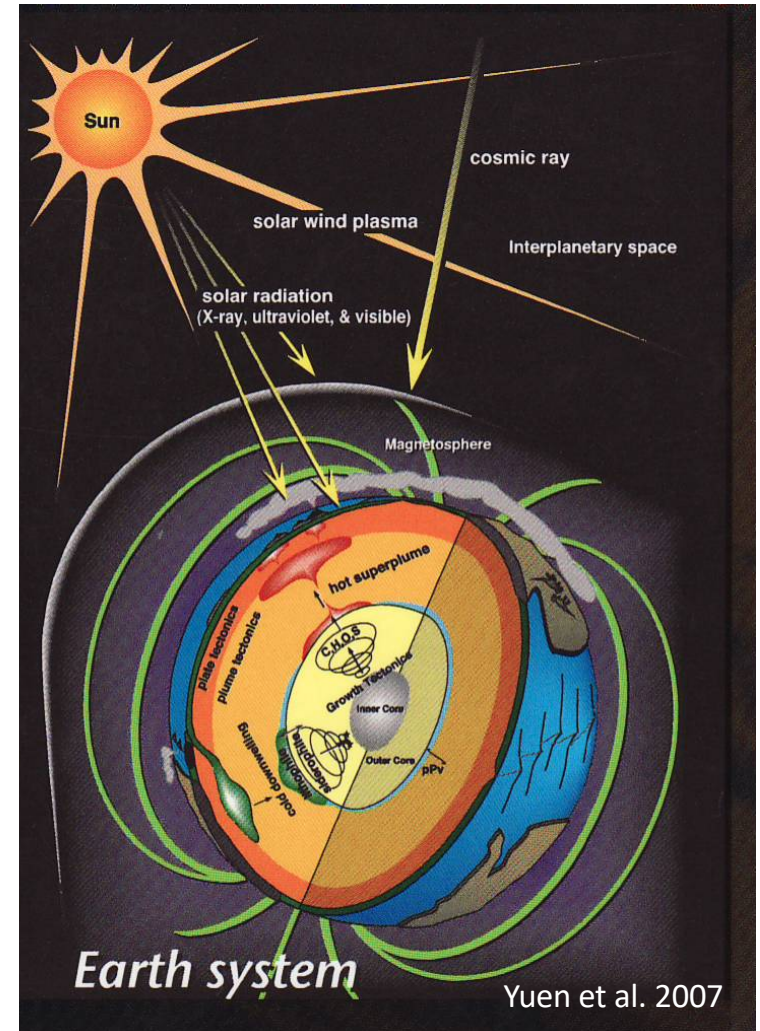
But:

1. Water vapour (10-20 000 ppm) is NOT a „positive feedback”
2. Henry's law (Henry, 1803) is NOT a „positive feedback”

„The saturation concentration of a gas dissolved in a liquid – the solubility of the gas – is proportional to the pressure p and decreases with increasing temperature.” (Budó, 1972)
CO₂ solubility in water: 1718 cm³/l (0°C), 878 cm³/l (20°C)

Healthy doctrines

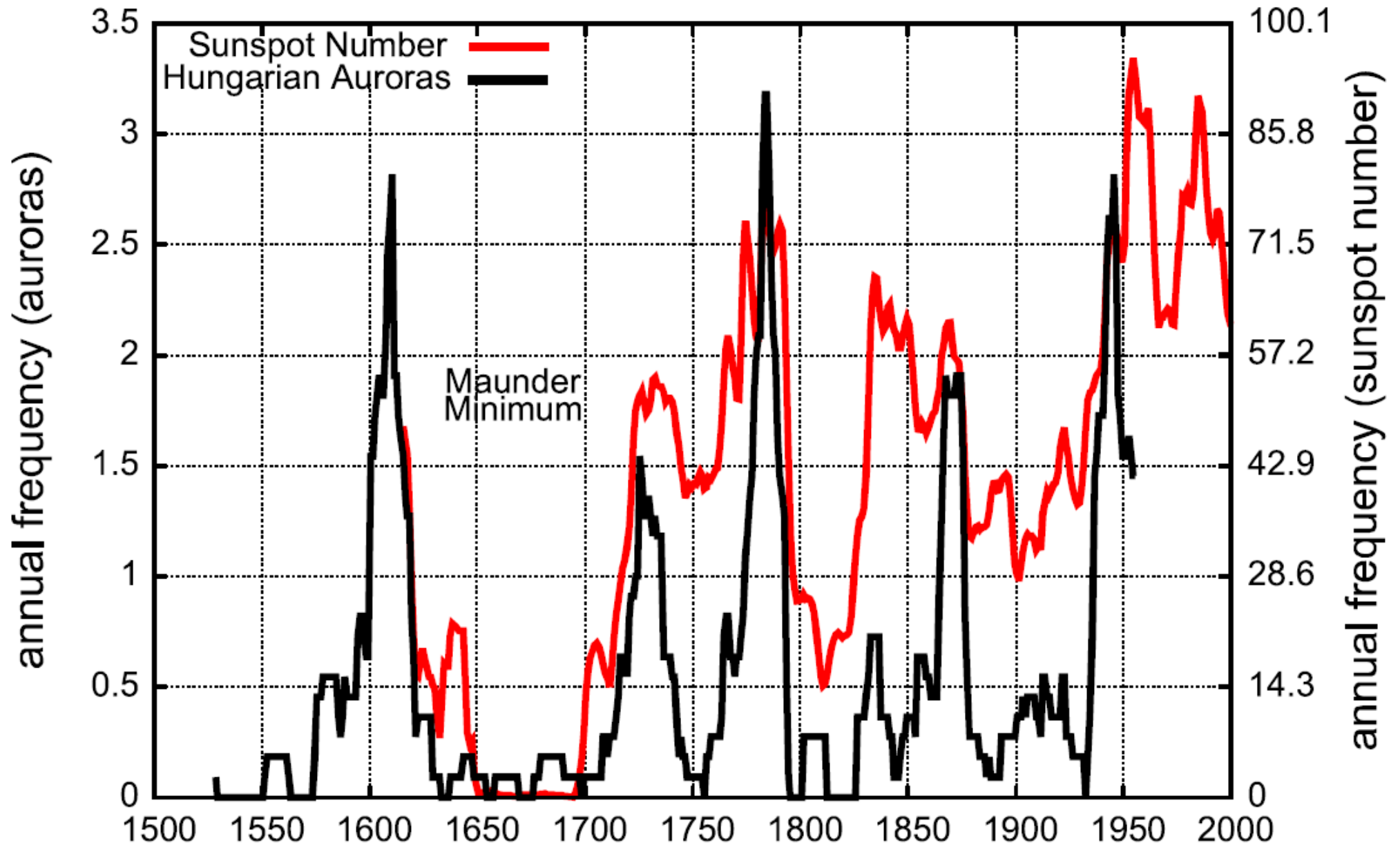
The atmosphere („climate”) is not independent of the Earth system:

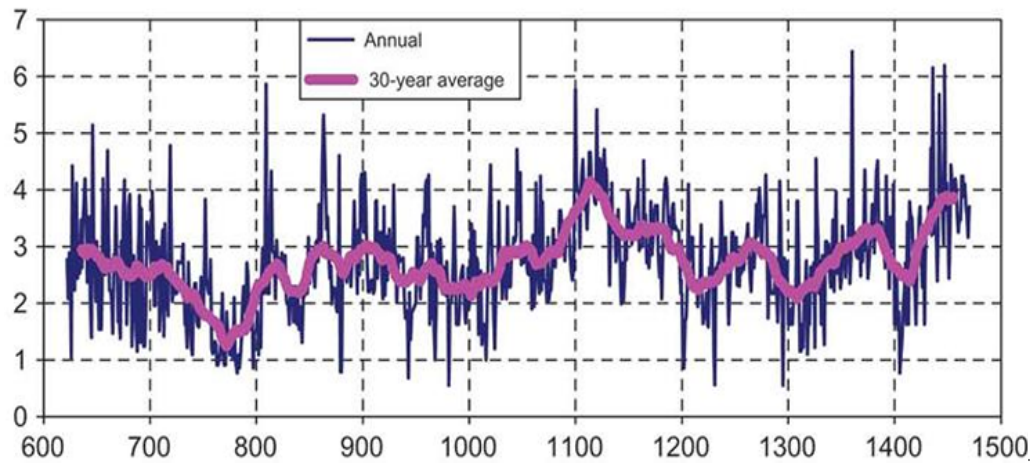


A lot of truth-searching approaches (all of them are „healthy doctrines”)

Rich traditions in quantitative observation

- Réthly A, Berkes Z (1963): Nordlichtbeobachtungen in Ungarn (Auroras in Hungary), 1523-1960
- Databases of the Debrecen Heliophysical Observatory, <http://fenyi.solarobs.epss.hun-ren.hu/en/databases/Summary/>

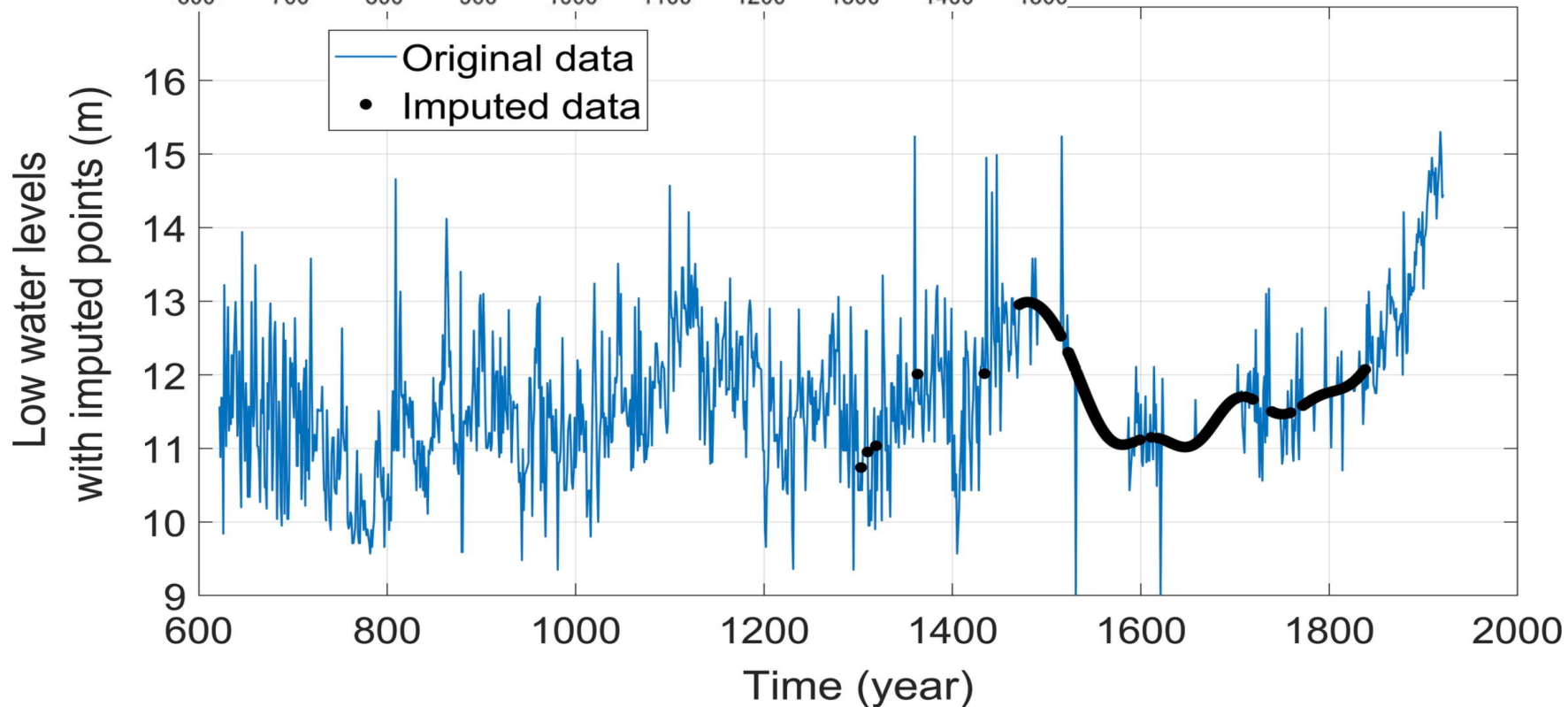




622-1456: Koutsoyiannis, 2013

622-1921: Szűcs et al. , 2024

Annual water level minimum data



Altitude
of the Roda
nilometer: 9 m

The precipitation variation in the catchment area of river Nile is a primary climate indicator. With the help of a correct mathematical procedure, all available annual water level data of the river Nile between 622 and 1921 were transformed into one single 1300 year long time series.

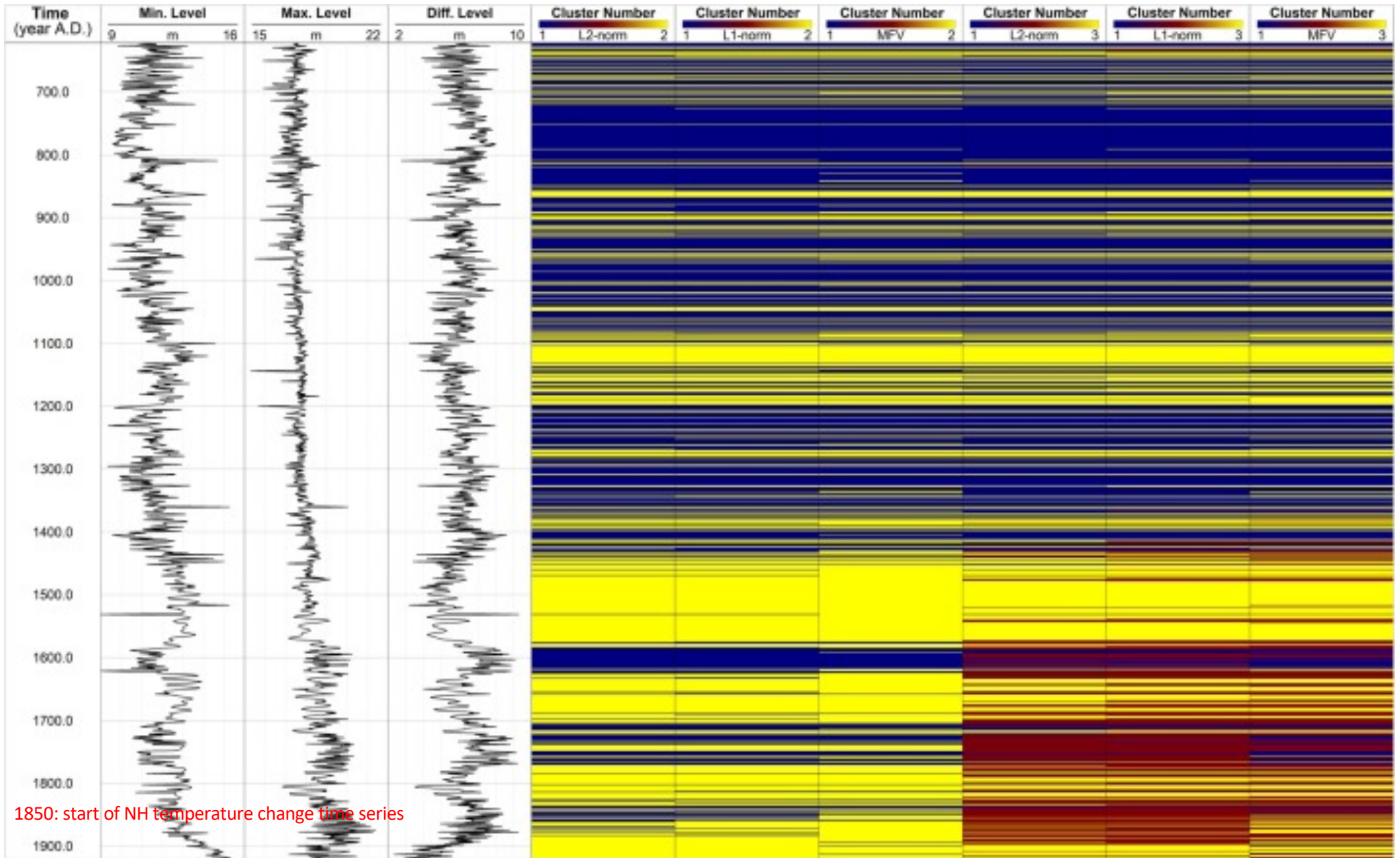
Instead of climate models (myths), forecasts should be based on such healthy doctrines.

Time variation of cluster numbers 1-2 or 1-2-3 through 13 centuries

(Szűcs et al. 2024)

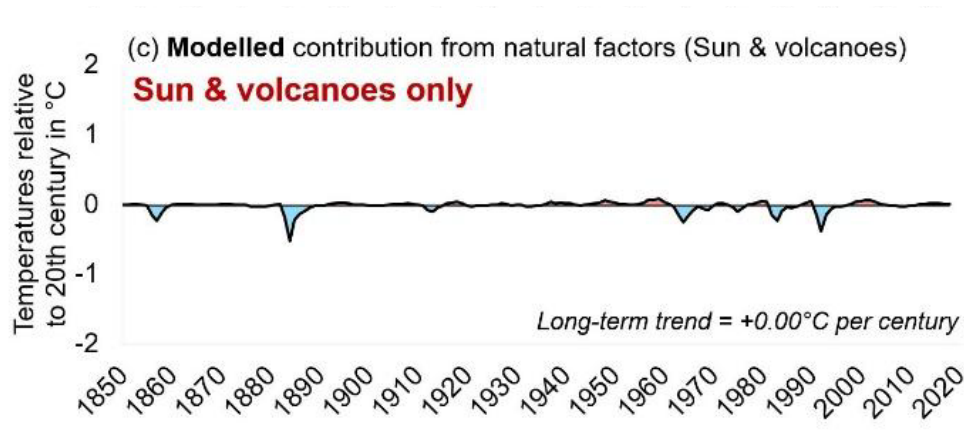
Clusters 1 and 2 are assumed

Clusters 1, 2 and 3 are assumed



MYTH

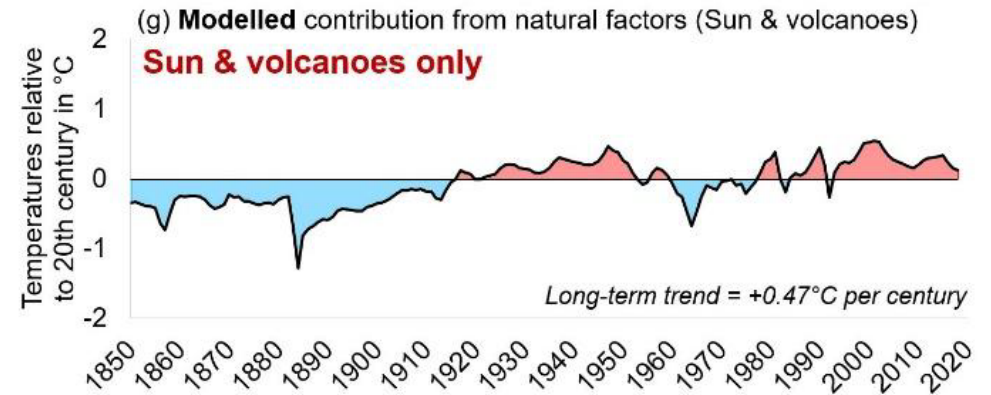
THE IPCC MYTH ABOUT NATURAL FORCING



HEALTHY DOCTRINE

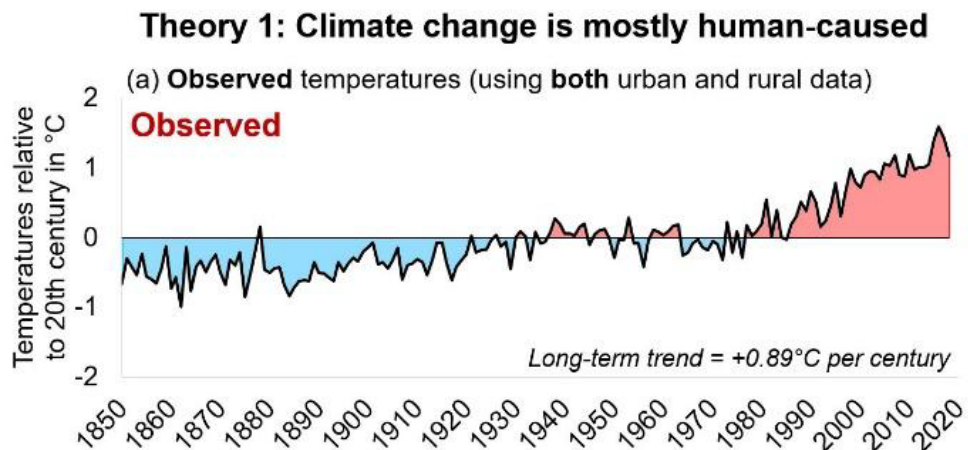
ONE OF THE POSSIBLE REALITIES

(Connolly et al. 2021, Connolly et al. 2023, Soon et al. 2023)



OBSERVED NH TEMPERATURE CHANGES

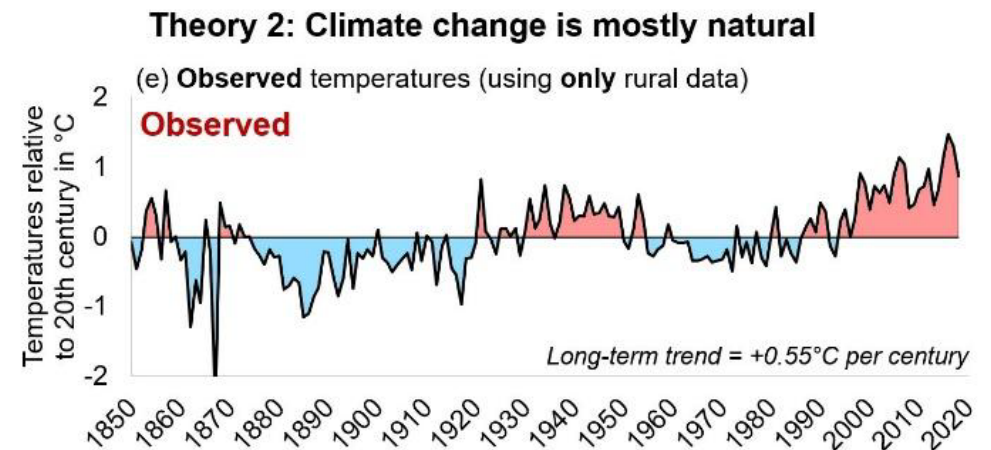
including "outside" temperatures extrapolated from "inside"



OBSERVED NH TEMPERATURE CHANGES

exclusively from data observed „outside“

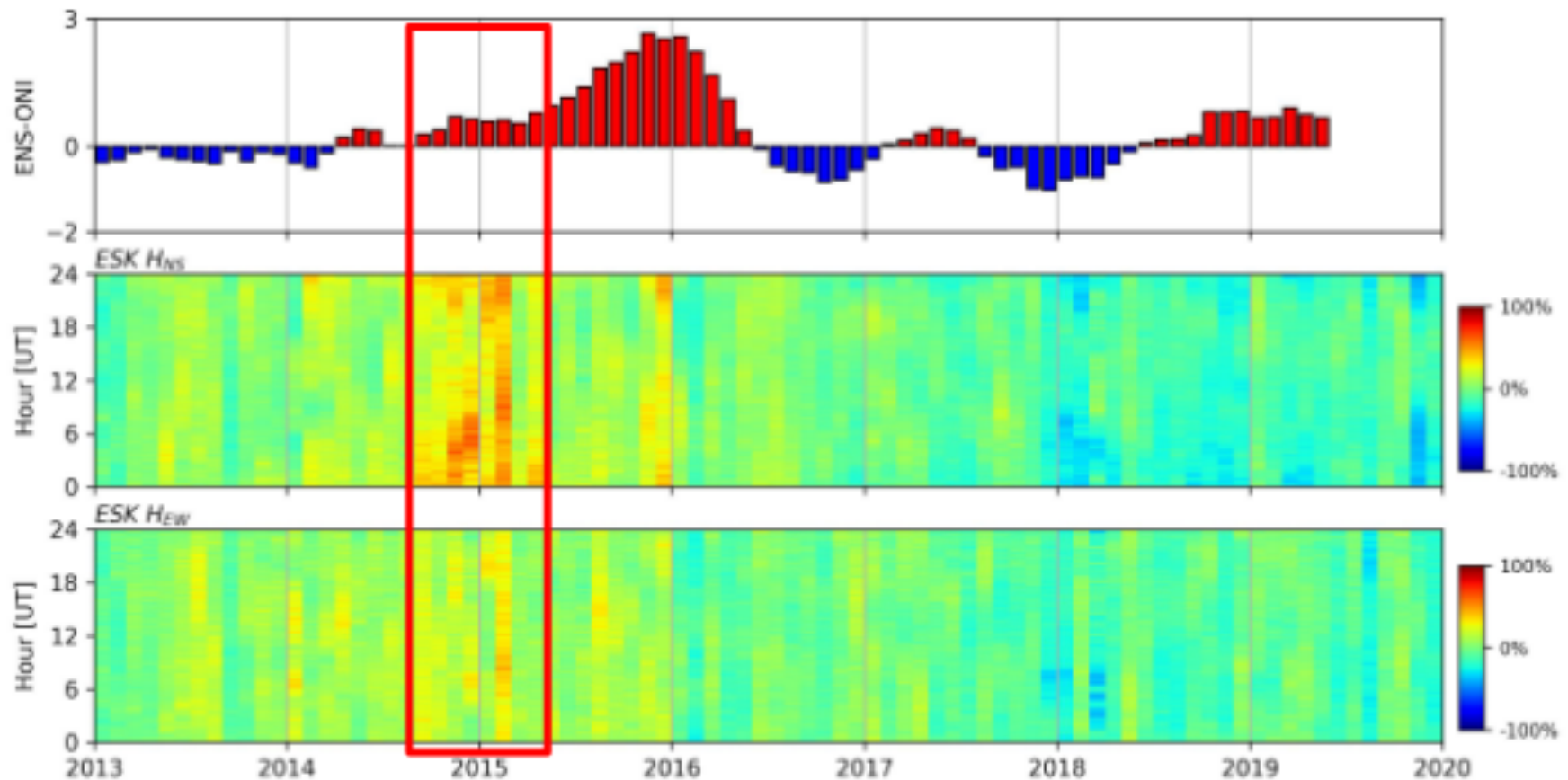
(Connolly et al. 2021)



The conclusion about the temperature-changing effect of Nature depends on the choice of the time series.

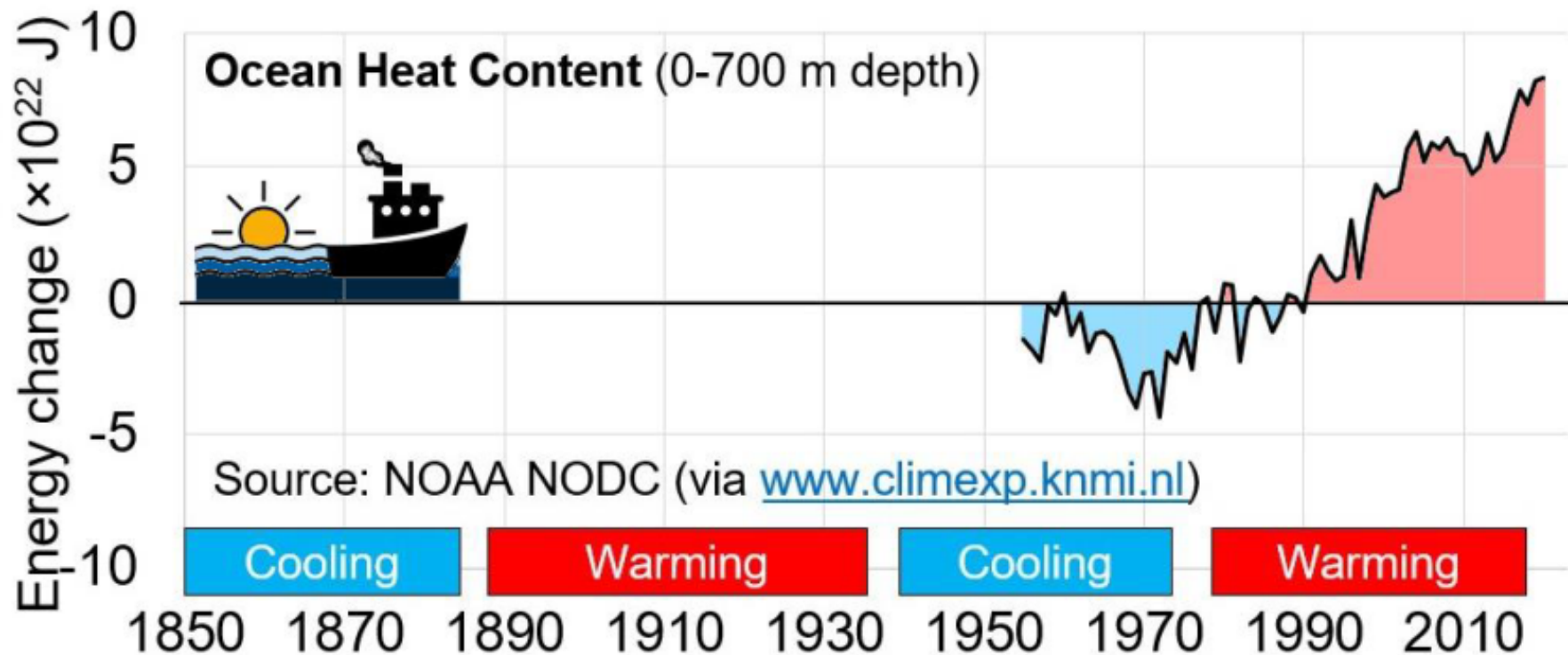
Discoveries in truth-searching climate science (some results are presented at this meeting) need test.

One example: „climate regime changes” suggested by Vinós (2023), occurring e.g. in 1997 and 2015, in form of super El Niño events, are accompanied with (and indicated by) geophysical changes in ground-based geophysical observatories. Super El Niño events are preceded by global lightning activity increases (Williams, Bozóki et al., 2021).



There are a plenty unexploited climate-related geophysical indicators and precursors.

IPCC argues that the observed increase of the Ocean Heat Content (OHC) is of anthropogenic origin. It is a myth.



Connoly et al. 2021 . Soon et al. 2023, Connoly et al. 2023

The Human Primary Energy Consumption from 1800 is $\sim 40 \times 10^{21} \text{ J} = 40 \text{ ZJ}$ (zettajoules)
The Human Primary Energy Consumption from 1980 to 2010: $\sim 10^{22} \text{ J} = 10 \text{ ZJ}$
Data tell that the OHC increase from 1980 to 2010: $\sim 10^{23} \text{ J} = 100 \text{ ZJ}$

CONSEQUENCE OF THE ABOVE FIGURE AND DATA:

1. Humans can NOT be responsible for such an increase in OHC. The OHC is of natural origin.
2. Justifying the Green Transition with „climate change” is false.

„HOW MUCH? WHAT IS HOW MUCH?“

https://pbk.info.hu/archiv/pbkforum/PBK_Study_English_Mzey.pdf

Structure of the study:

DEVELOPMENT AND ENERGY

Energy as a natural resource:

... Globally, the energy used from nature from year 1800 to the present is about as much (40 ZJ) as the total energy of the December 26, 2004 earthquake in Indonesia.

WE ARE ON A WRONG WAY

Our concern:

...the propagandistic presentation of climate change as a global threat to our future and the hastening of decarbonization are nothing more than the psychological preparation for the concrete implementation of the Great Reset.”

HOW TO RETURN TO THE COMMON SENSE?

What we should do for that:

...suspending the enforced primacy of current international Climate Policy and place emphasis instead on holding open scientific debates.

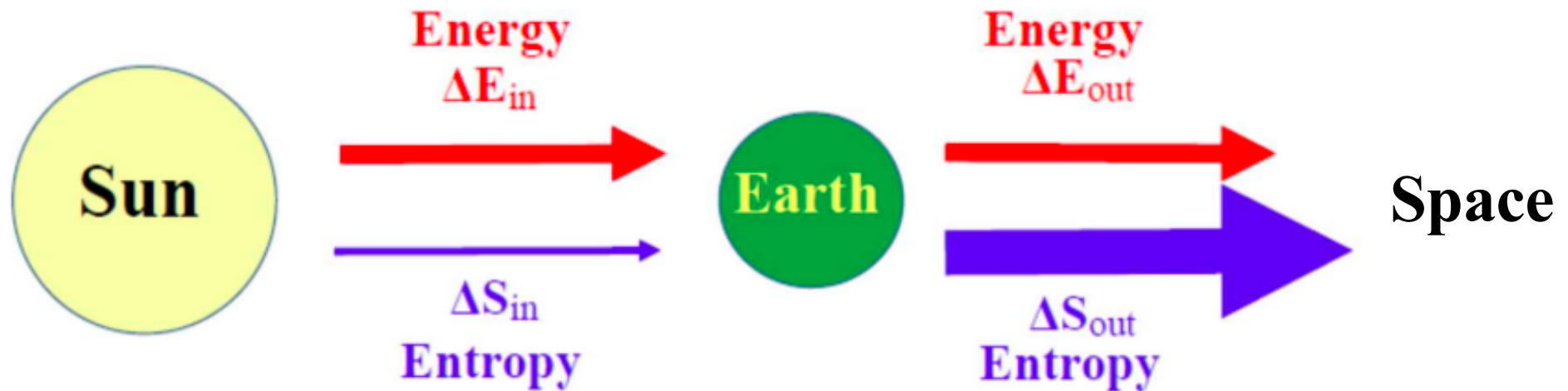
[Satoraljauhely PBK 20231122.pdf](https://pbk.info.hu/archiv/pbkforum/PBK_Study_English_Mzey.pdf)

DESTINED FOR SUSTAINABLE DEVELOPMENT

?

HEALTHY DOCTRINE:

Energy & Entropy balance of the Earth



*...natural decrease in entropy (negentropy) is the source of life on earth,
a truly sustainable development!*

Negentropy is an ...exact definition of sustainable development.

We are destined to sustainable development. „Sustainability” is a de-growth agenda.

Csernai L. P. et al.(2017): Physica A 473, 363

Csernai L. P. et al. (2016), Int. J. of Central European Green Innovation 42, 39-50

MYTH

*UN „Sustainable Development Goals”
(SDG, 2015-2030;
today: Agenda 2030).*

1. No poverty
2. Zero hunger
3. Good health and well-being
4. Quality education
5. Gender equality
6. Clean water and sanitation
7. Affordable and clean energy
8. Decent work and economic growth
9. Industry, innovation and infrastructure
10. Reduced inequalities
11. Sustainable cities and communities
12. Responsible consumption and production
13. Climate action
14. Life below water
15. Life on land
16. Peace, justice, and strong institutions
17. Partnerships for the goals

HEALTHY DOCTRINE

Smalley (2003),
Szarka and Brezsnýánszky (2012)

- I. Energy
(and raw materials)
- II. Drinking water
- III. Soils (Food)
- IV. Environment
- V. Real societal issues
poverty
terrorism and war
diseases
education
democracy
population

Achievements of the PBK Energy Working Group in 2024

Books and movie

- Hungarian subtitles to the „Climate: the Movie”
- Hungarian translation of Javier Vinós’s book (in preparation)

Full-text Hungarian translation of interviews

- Willie Soon-Tucker Carlson / Richard Lindzen / István Markó (from 2017), <https://gondola.hu/>

Events

- **How much? What is how much? Lecture series (monthly, started in December 2023)**
- Budapest, February 22, 2024: a climate debate (MCC)
- March 5, 2024: Steven Koonin in Budapest
- Discussion about John F Clouser’s Cloud-Thermostat hypothesis
- June 13, Willie Soon in Sopron (zoom)
- Javier Vinós in Hungary (June 17: Budapest, June 19: Sopron, zoom)

Publications and presentations

- PBK website <https://pbk.info.hu/energetika-es-klimapolitika/>
- Albert Szent-Györgyi: Psalmus Humanus and six prayers (republishing)
- Launching another website <https://www.klimatudomany.hu/>
- Occasionally. On May 10, 2024: OpEd in Magyar Nemzet (the leading newspaper)

Voluntary (unsolicited?) advices

Hungarian Academy of Sciences, decision makers

The greatest achievement, organized by Frank Füreidi , MCC Brussels (and not by us):

Climate Change: Beyond the 'consensus' conference (Brussels, May 23, 2024)

with Richard Lindzen and Samuel Furfari



MCC (Mathias Corvinus Collegium) Brussels, May 23, 2024
Conference:
Climate Change: Beyond the 'consensus'

Three sessions:

Keynote: Science, consensus and the politics of climate change (Lindzen)

Panel 1: Climate Science: the use and abuse of consensus (incl. Lindzen)

Panel 2: Climate Change and the perils of Net Zero (incl. Furfari)

<https://www.climatedepot.com/2024/05/29/hungarys-pm-viktor-orbans-think-tank-denounces-net-zero-as-soviet-like-embarks-on-a-miss...>



CLIMATE DEPOT
A CFACT Project

Hungary's PM Viktor Orbán's think tank denounces net zero as 'Soviet-like' – Embarks on a mission to break Europe's climate 'consensus'

CLOSING THOUGHTS

1. The consequences of imposing a dogmatic concept ignoring natural reality, and aligning exclusively to so-called "economic and social realities", are unimaginably serious.
2. Believing the UN's (anthropogenic) climate change is a historical error. Making others believe it: a historical crime.
3. Our suggestion for honest decision makers: ***"To err is human, so to be humble is divine."*** (William Nordhaus, a 2018 Nobel Laureate economist)
4. Suggestion for ourselves: ***"Preach the word; be ready in season and out of season; correct, rebuke, and encourage with great patience and teaching."*** (2 Timothy 4, 2).
5. We all have good reasons to be optimistic.

PSALMUS HUMANUS AND SIX PRAYERS

by Albert Szent-Györgyi (1893-1986, Nobel Laureate in 1937)

A poem written in 1964, but particularly timely today

V. Prayer: The Earth

The Earth My Lord! You have given us this lovely globe to live on,
Hidden untold treasures in its bowels,
Enabled us to comprehend your work,
Ease our toil, ban hunger and disease.

We are digging up those treasures to squander them,
To build them into formidable machines of destruction,
With which to destroy what other men have built,
Which will turn against me, destroy me and my children.

God! Let us be your partners in creation
By understanding and improving your work,
Making this globe of ours a happy and safe home
For Wealth, Happiness, Beauty and Harmony.

Republished by Batthyány Society of Professors in spring 2024

https://pbk.info.hu/wp-content/uploads/2024/04/PSALMUS_HUMANUS_ENG_HUN_2024_04_12.pdf