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Thermal recycling: A Lifeline for the Planet and Humanity

Structure : ADELP

Grand Est

THERMAL RECYCLING: A CRUCIAL ISSUE FOR THE PLANET AND HUMANITY.

JUSTIFICATION AND RESEARCH PLAN

In 2024, many regions of France experienced severe natural disasters. In January 2025, northwestern France suffered floods of unprecedented magnitude. Marine evaporation, soil sealing, and water saturation are not the only factors responsible for these floods. In fact, due to global warming, large flows of warm, humid air are moving toward the North Pole. Before the pole melted so much, much of the moisture contained in these warm, humid air currents would condense and then freeze, thickening the sea ice at the pole; thus, the returning air currents were colder and, above all, drier. This humid air, which continuously returns from the pole, adds to “natural” evaporation to increase the amount of water vapor in the atmosphere and form torrential rainfall. We cannot directly intervene at the pole to make it melt less, but we can reduce heat emissions from human activity, so that the warm air flows heading toward the pole decrease. How? By developing thermal recycling. The numerous explanations are presented in seven papers; to maintain their coherence, it is recommended to study them in ascending numerical order.

1. THERMAL RECYCLING TO THE RESCUE OF THE CLIMATE. Applied to housing, it

shows how thermal recycling reduces warm airflows toward the pole
2. AERIAL AND MARITIME HEAT FLOWS. The experiments visualize the flows and the “air voids creating suction” left by the departure of warm air currents; the amount of heat is also distinguished from the temperature
3. THERMAL FLOWS AND THE CONCEPT OF THE EARTH’S “ICEBOX.” Thermal flows are validated by the seasons; the Earth’s thermal system is compared to an isothermal ice box; it is shown that ice at 0°C cools more effectively than water at 0°C, and a diagram illustrates the closed cycle of water vapor
4. SEA ICE REGULATES THE CLIMATE. The functioning of the Earth’s thermal system is compared to that of a refrigerator: simulations with bowls containing hot liquid passing by at varying speeds concretely visualize the warmer and more humid return flows when the pole loses its cooling capacity; it is concluded that these warmer and more humid air currents contribute significantly to torrential rainfall
5. RELATIONSHIP BETWEEN ENERGY AND HEAT. It has been demonstrated that the production and use of energy release a great deal of heat; it is also shown that the energy future for a better climate is not limited to decarbonization, nor to the search for a single, cheap energy source; it recommends utilizing the entire energy chain
6. BREAKDOWN OF ENERGY CONSUMPTION by sector in 2012.
7. HEAT PUMPS ARE WITHIN EVERYONE’S REACH. The concept is presented exclusively through visuals to ensure broad understanding of thermal recycling.

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