

HUMAN ACTIVITIES



Source: Climate Centre

Humans are responsible for increased building constructions, transportation, industry, deforestation, and agriculture, each emitting GHG with carbon dioxide (CO₂) having the biggest part.

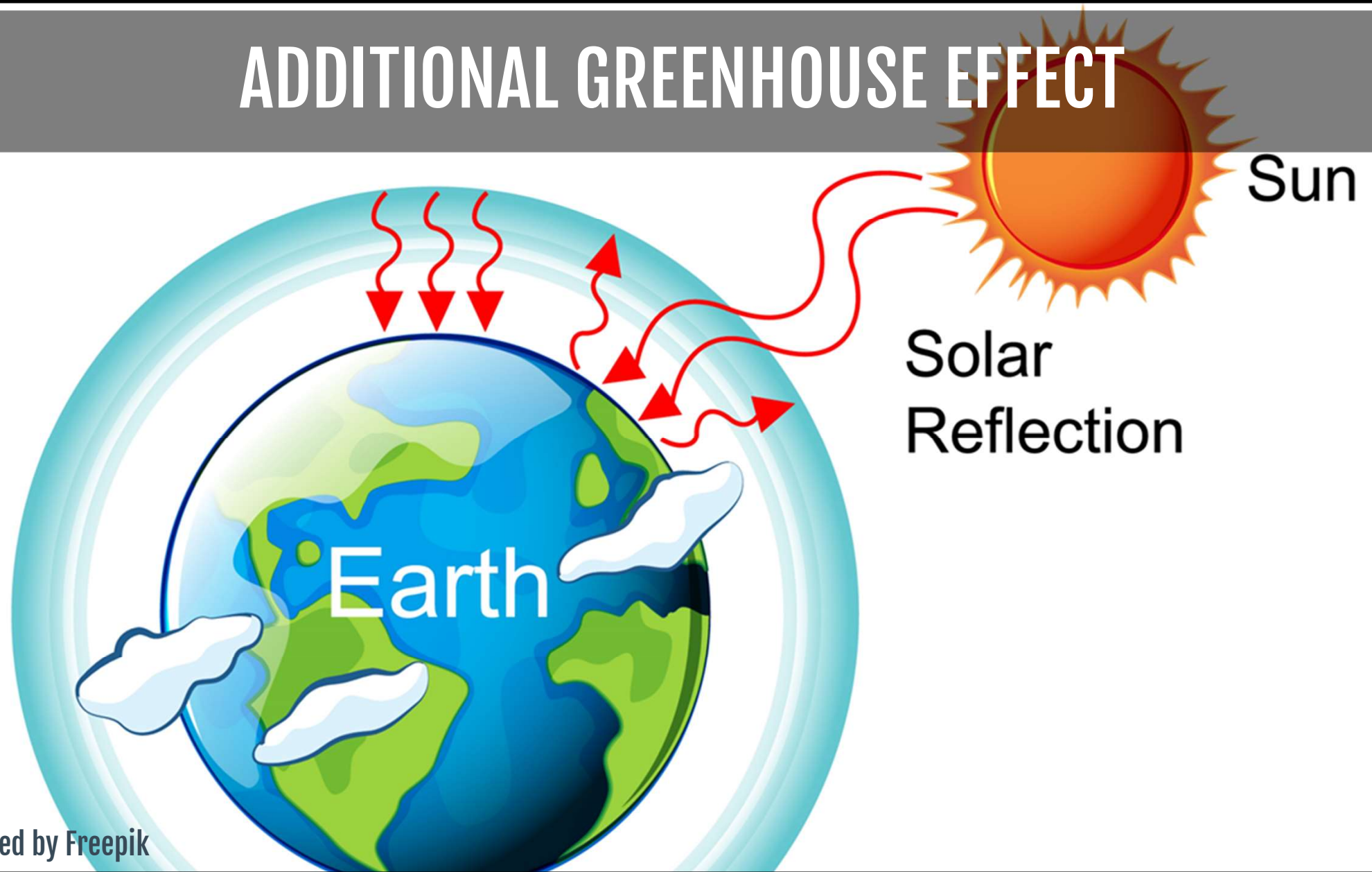
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JR0

How about "with carbon dioxide having the biggest part"

Johanna Reiner; 2024-07-10T14:59:11.369

ADDITIONAL GREENHOUSE EFFECT



The **natural** greenhouse effect traps energy from the sun, heating the world to a liveable temperature. Too much of these gases can cause earth's atmosphere to trap more and more heat. This causes the earth to warm up as the climate gets hotter.

RISING TEMPERATURES

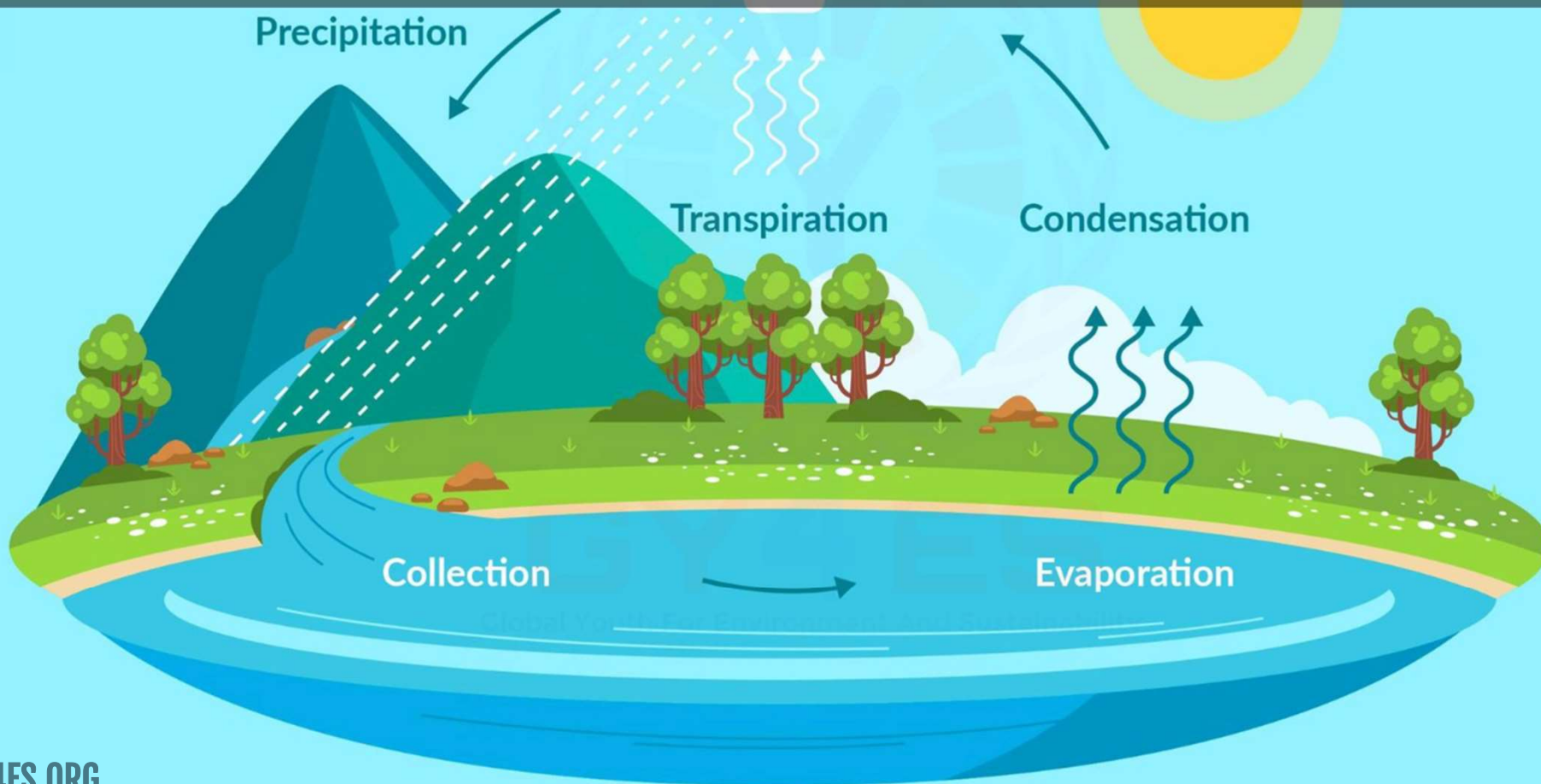


Source: Climate Centre

Global surface temperatures have on average increased by 1.1°C compared to pre-industrial levels. Pending human emissions, average global temperatures can further increase between 1.1°C and 1.8°C (very low emissions) to 5.7°C (very high emissions) at the end of the 21st century. Certain areas warm faster than other areas.

Source: IPCC, AR6 2023

CHANGING OF THE WATER CYCLE





Higher temperatures lead to increased evaporation.

Warmer air can hold more water vapor, impacting the amount of rainfall distribution and changing rainy seasons.



CHANGING SEASONS

Source: Climate Centre & IFRC

**The changing climate is shifting the timing
of seasons.**

**Impacts include erratic rainfall patterns
and rainy seasons coming early or late,
affecting crop yields
and freshwater availability.**

EXTREME WINDS AND STORMS

A satellite image of Hurricane Milton, showing a well-defined eye and a dense, swirling cloud structure over the ocean. The eye is a dark, circular center surrounded by a thick, white ring of clouds. The outer clouds are more diffuse and spread out over a large area of the ocean. The ocean surface is visible as a dark blue color, with some whitecaps and ripples. The horizon of the Earth is visible at the top of the image, with a thin layer of atmosphere above it.

Source: Video grab Nasa, Hurricane Milton

Warmer and wetter global conditions lead to increased sea surface temperatures, which drive more intense tropical storms, cyclones and hurricanes.

DROUGHTS



Source: Kenya Red Cross Society

Drought conditions become more frequent, intense, and long-lasting as the water cycle is disrupted. Less rain creates challenges for livelihoods, health and water supply.

FLOODS



Source: Uganda Red Cross Society

Rainfall patterns are shifting due to changes in the water cycle.

Stronger, unpredictable and more intense rain increases flood risks, amplifying water-borne diseases and population displacement.

HEAT WAVES



তাপদাহ

অতিরিক্ত তাপমাত্রায় কী করবেন-

- ✓ তীব্র রোদ থেকে দূরে থাকুন
- ✓ প্রচুর পরিমাণে বিশুদ্ধ পানি পান করুন
- ✓ প্রয়োজনে একাধিকবার গোসল করুন
- ✓ তীব্র রোদে ছাটা ব্যবহার করুন
- ✓ মাঝে মাঝে ছায়ায় বিশ্রাম নিন
- ✓ হিট স্ট্রোক, টাইফয়েড, ডায়রিয়া, আমাশয়, চর্মরোগ ইত্যাদি রোগব্যাধি প্রতিরোধে সরবরাহকারী স্বাস্থ্যকর্মীদের পরামর্শ ও সেবা



তীব্র তাপদাহ শরীরের জন্য মারাত্মক

এটি মৃত্যুর কারণ হতে পারে

পাইলট প্রোগ্রাম্যাটিক পার্টনারশিপ- বাংলাদেশ
মানবিক ও স্বাস্থ্য সেক্টরে স্থানীয় পদক্ষেপ ত্বরান্বিত করা





More people are being exposed to higher temperatures for longer durations, increasing heat-related illnesses and mortality.

This affects particularly the most vulnerable such as elderly, women and children.

MELTING GLACIERS AND ICE SHEETS



Source: Climate Centre

Glaciers across the world are melting at records rates, threatening freshwater resources and contributing significantly to sea level rise.

SEA LEVEL RISE



Source: Climate Centre

Sea level rise is caused by thermal expansion due to warming of the ocean (water expands as it warms), and increased melting of land-based ice, such as glaciers and ice sheets.

Sea levels have risen by 20 cm since 1900, threatening coastal communities and small-island nations.

OCEAN ACIDIFICATION



Source: Climate Centre

The oceans absorb CO₂ from the atmosphere which causes the seawater to become more acidic (“sour”). This makes it hard for organisms such as clams and corals to build their shells and skeletons. When these organisms are at risk, the entire food chain in the ocean is at risk – as well as threatening people and economies dependent on fish and shellfish.