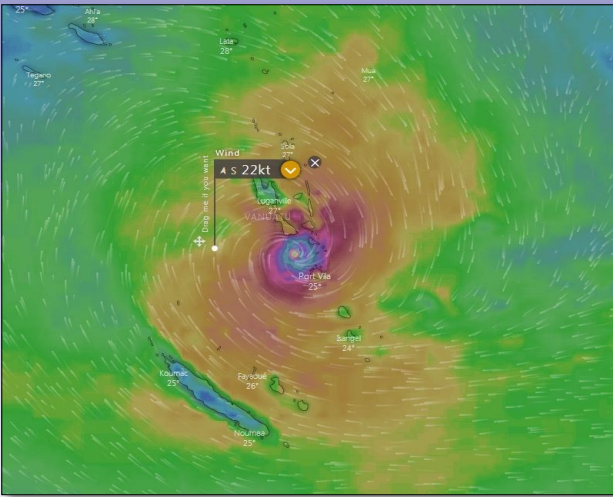


## What are the other effects of Global Warming?

Each year, scientists learn more about the consequences of global warming, and many agree that environmental, economic, and health consequences are likely to occur if current trends continue. Here's just some highlights of what we can look forward to in future:

- Melting glaciers and severe droughts will cause more dramatic water shortages and increase the risk of droughts in the low lying islands.
- Rising sea levels will lead to coastal flooding.
- Forests, farms, and cities will face troublesome new pests, high temperatures, heavy downpours, and increased flooding. All those factors will damage or destroy agriculture and fisheries sectors.
- Disruption of habitats such as coral reefs and other fruit trees could drive many plant and animal species to extinction.
- Allergies, asthma and infectious disease outbreaks will become more common due to increased growth of pollen-producing ragweed, higher levels of air pollution, and the spread of conditions favorable to pathogens and mosquitoes in our communities.



A cyclone tracking route for Vanuatu in recent months.

## How is Global Warming linked to Extreme Weather?

The earth's rising temperatures are fueling longer and hotter heat waves, more frequent droughts, heavier rainfall, and more powerful cyclones.

The earth's ocean temperatures are getting warmer, too—which means that tropical storm and cyclones can pick up more energy. So global warming could turn, say, a category 3 cyclone into a more dangerous category 5 cyclone.

The impacts of global warming are being felt across the globe including Vanuatu. Extreme heat waves have caused tens of thousands of deaths around the world in recent years. And in an alarming sign of events to come, Antarctica has been losing about 134 billion metric tons of ice per year since 2002.

This rate could speed up if we keep burning fossil fuels at our current pace, some experts say, causing sea levels to rise several meters over the next 50 to 150 years.

## WHAT IS GLOBAL WARMING?



Sea level rise in a coastal beach in Vanuatu..



June 2020

DOCC

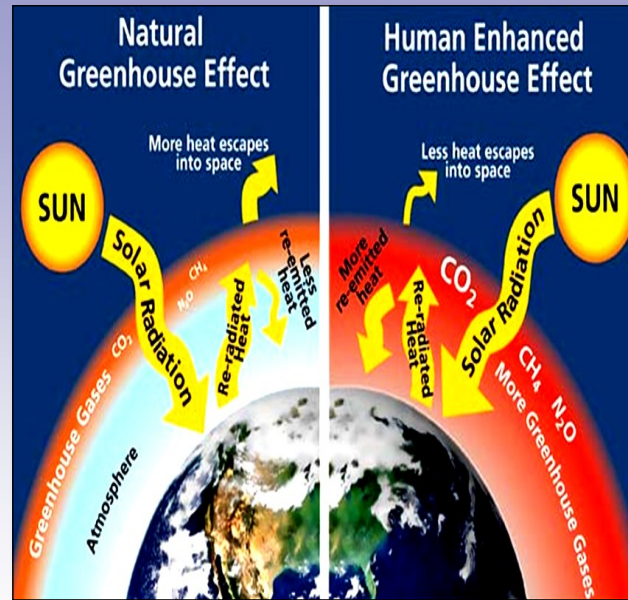
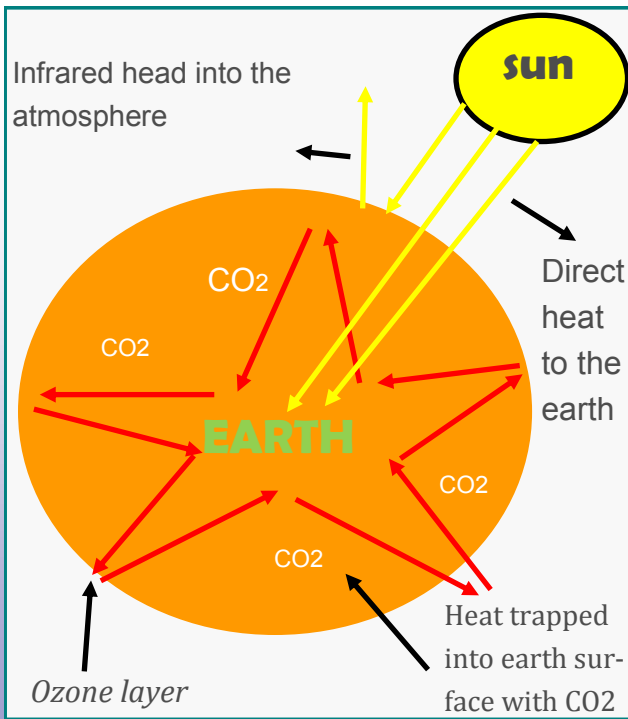
“Working Together for a Resilient Vanuatu”

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## WHAT IS GLOBAL WARMING?

- A gradual increase in the overall temperature of the earth's atmosphere generally attributed to the greenhouse effect caused by increased levels of carbon dioxide, CFCs, and other pollutants.
- It is the temperature of Earth's surface, oceans and atmosphere going up over tens of years. Average temperatures today are about 1 °C (1.8 °F) higher than before the Industrial Revolution, which started around 1750.
- A Maximum (Day) and Minimum (Night) air temperatures increased at Bauerfield and Aneityum over the years indicates a steady rise in the Temperature for Vanuatu.



(Source: IPCC, 2015)

## WHAT CAUSES GLOBAL WARMING?

An increase in Human induced activities through Green House Gas (GHG) emission.

Global warming occurs when carbon dioxide (CO<sub>2</sub>) and other air pollutants and greenhouse gases collect in the atmosphere and absorb sunlight and solar radiation that have bounced off the earth's surface. Normally, this radiation would escape into space—but these pollutants, which can last for years to centuries in the atmosphere, trap the heat and cause the planet to get hotter. That's what's known as the greenhouse effect.

## HOW GLOBAL WARMING WARMS THE EARTH?

Very massive emissions from CO<sub>2</sub> into the atmosphere causing to damage the ozone layer making it to become thin to allow large amount of sun rays to hit up the earth surface, most of the hits are trapped from the oceans and forest, this causes the earth to become more warmer and will cause natural hazards that can harm the environment.

## EXAMPLES OF WHAT CAUSES GLOBAL WARMING IN VANUATU



Energy subsectors that contribute to emissions.