

We Hug the Trees Because the Trees Have No Voice: The Twenty-Second Newsletter (2021).



Setu Legi (Indonesia), *Take Care of this Land*, 2010.

Dear friends,

Greetings from the desk of **Tricontinental: Institute for Social Research**,

At the 1972 United Nations Conference on the Human Environment, the delegates decided to hold an annual World Environment Day. In 1974, the UN urged the world to celebrate that day on 5 June with the slogan ‘Only One Earth’; this year, the **theme** is ‘Ecosystem Restoration’, emphasising how the capitalist system has eroded the earth’s capacity to sustain life. The Global Footprint Network **reports** that we do not

live on one Earth, but on 1.6 Earths. We live on more than one Earth because, by encroaching and destroying biodiversity, degrading land, and polluting the air and water, we are cannibalising the planet.

This newsletter contains a Red Alert from Tricontinental: Institute for Social Research on the environmental catastrophe that befalls us. Several key scientists have contributed to it. It can be read below and downloaded as a PDF print out [here](#); we hope that you will circulate it widely.



A new **report** from the United Nations Environment Programme (UNEP), *Making Peace with Nature* (2021), **highlights** the 'gravity of the Earth's triple environmental emergencies: climate, biodiversity loss, and pollution'. These three 'self-inflicted planetary crises', the UNEP says, put 'the well-being of current and future generations at unacceptable risk'. This Red Alert, released for World Environment Day (5 June), is produced with the **International Week of Anti-Imperialist Struggle**.

What is the scale of the destruction?

Ecosystems have degraded at an alarming rate. The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) **report** from 2019 provides stunning examples of the scale of the destruction:

- One million of the estimated eight million species of plants and animals are threatened with extinction.
- Human actions have driven at least 680 vertebrate species to extinction since 1500, with global vertebrate

species populations dropping by 68% in around the last 50 years.

- The abundance of wild insects has fallen by 50%.
- Over 9% of all domesticated mammal breeds used for food and agriculture had become extinct by 2016, with another thousand breeds currently facing extinction.

Ecosystem degradation is accelerated by capitalism, which intensifies pollution and waste, deforestation, land-use change and exploitation, and carbon-driven energy systems. For example, the Intergovernmental Panel on Climate Change’s **report**, *Climate Change and Land*, (January 2020) notes that only 15% of known wetlands remain, most having been degraded beyond the possibility of recovery. In 2020, the UNEP **documented** that, from 2014 to 2017, coral reefs suffered from the longest severe bleaching event on record. Coral reefs are **projected** to decline dramatically as temperatures rise; if global warming rises to 1.5°C, only 10-30% of reefs will remain, and if global warming rises to 2°C, then less than 1% of reefs will remain.



René Mederos Pazos (Cuba), Cuba 1952, 1973.

As things stand, there is a good chance that the Arctic Ocean may be **ice-free** by 2035, which will disrupt both the Arctic ecosystem and the circulation of ocean currents, possibly transforming global and regional climate and weather. These changes in the Arctic ice cover have already triggered a race among major powers for military domination in the region and for control over valuable energy and mineral resources, opening the door even further for devastating ecological destruction; in January 2021, in a **paper** titled *Regaining Arctic Dominance*, the US military characterised the Arctic as ‘simultaneously an arena of competition, a line of attack in conflict, a vital area holding many of our nation’s natural resources, and a platform for global power projection’.

The warming of the ocean comes alongside the annual **dumping** of up to 400 million tonnes of heavy metals, solvents, and toxic sludge (among other industrial wastes) – not accounting for radioactive wastes. This is the most dangerous waste, but it is only a tiny proportion of the total waste thrown into the ocean, including millions of tonnes of **plastic waste**. One **study** from 2016 finds that, by 2050, it is likely that there will be more plastic by weight in the ocean than fish. In the ocean, plastic accumulates in swirling gyres, one of which is the Great Pacific Garbage Patch, an **estimated** mass of 79,000 tonnes of ocean plastic floating inside a concentrated area of 1.6 million km² (roughly the size of Iran). Ultraviolet light from the sun degrades the debris into ‘**microplastics**’, which cannot be cleaned up, and which disrupts food chains and ruins habitats. The dumping of industrial waste into the waters, including in rivers and other freshwater bodies, **generates** at least 1.4 million deaths annually from preventable diseases that are associated with pathogen-polluted drinking water.



Edgar 'Saner' Flores (Mexico), *Hijos del lago perdido* ('Children of the lost lake'), 2017.

The waste in the waters is only a fraction of the waste produced by human beings, which is **estimated** to be 2.01 billion tonnes per year. Only 13.5% of this waste is recycled, while only 5.5% is composted; the remaining 81% is discarded in landfills, incinerated (which releases greenhouse and other toxic gases), or finds its way into the ocean. At the current rate of waste production, it is estimated that this figure will rise by 70% to 3.4 billion tonnes by 2050.

No study shows a decrease in pollution, including the generation of waste, or a slowing down of the rise in temperature. For instance, the UNEP's Emissions Gap Report (December 2020) **shows** that the world at the present rate of emissions is on track for warming by at least 3.2°C above pre-industrial levels by 2100. This is far above the limits set by the Paris Agreement of 1.5°-2.0°C. Planetary warming and environmental degradation feed into each other: between 2010 and 2019, land degradation and transformation – including deforestation and the loss of soil carbon in cultivated land – **contributed** a quarter of greenhouse gas emissions, with climate change further worsening desertification and the disruption of soil nutrition cycles.



Farida Batool (Pakistan), *Nai Reesan Shehr Lahore Diyan* ('Lahore is incomparable'), 2006.

What are common and differentiated responsibilities?

In the 1992 United Nations Conference on Environment and Development **declaration**, the seventh principle of ‘common but differentiated responsibilities’ – agreed upon by the international community – establishes that all nations need to take on some ‘common’ responsibilities to reduce emissions, but that the developed countries bear the greater ‘differentiated’ responsibility due to the historical fact of their far greater contribution to cumulative global emissions causing climate change. A look at the data from Carbon Dioxide Information Analysis Centre’s Global Carbon Project **shows** that the United States of America – by itself – has been the largest source of carbon dioxide emissions since 1750. The main historical carbon emitters were all industrial and colonial powers, mainly European states and the United States of America. From the 18th century, these countries have not only emitted the bulk of the carbon into the atmosphere, but they also continue to exceed their fair share of the Global Carbon Budget in proportion to their populations. The countries with the least responsibility for creating the climate catastrophe – such as small island states – are the ones hardest hit by its disastrous consequences.

Cheap energy based on coal and hydrocarbons, along with the looting and plundering of natural resources by colonial powers, enabled the countries of Europe and North America to enhance the well-being of their populations at the expense of the colonised world. Today, the extreme inequality between the standard of living for the average European (747 million people) and the average Indian (1.38 billion people) is as stark as it was a century ago. The reliance by China, India, and other developing countries on carbon – particularly coal – is indeed high; but even this recent use of carbon by China and India is well below that of the United States. The 2019 **figures** for per capita carbon emissions of Australia (16.3 tonnes) and the US (16 tonnes) are more than twice that of China (7.1 tonnes) and India (1.9 tonnes).

Every country in the world has to make advances to transition from reliance upon carbon-based energy and to prevent the large-scale degradation of the environment, but the developed countries must be held accountable for two key urgent actions:

1. **Reducing harmful emissions.** The developed countries must urgently bring about drastic emission cuts of at least 70–80% of 1990 levels by 2030 and commit to a pathway to further deepen these cuts by 2050.
2. **Capacitating mitigation and adaption.** Developed countries must assist developing countries by transferring technology for renewable energy sources as well as by providing financing to mitigate and adapt to the impacts of climate change. The 1992 UN Framework Convention on Climate Change **recognised** the importance of the geographical divide of industrial capitalism between the Global North and South and its impact on respective inequitable shares of the global carbon budget.

That is why all of the countries at the numerous Climate Conferences agreed to create a **Green Climate Fund** at the Cancun Conference in 2016. The current target is \$100 billion annually by 2020. The United States under the new Biden administration has **pledged** to double its international finance contributions by 2024 and triple its contributions for adaptation, but, given the very low baseline, this is highly inadequate. The International Energy Agency suggests each year in its *World Energy Outlook* that the actual figure for international climate finance should be in the trillions. None of the Western powers have intimated anything like a commitment of that scale to the Fund.



Hiroshi Nakamura (Japan), Sunagawa #5, 1955.

What can be done?

1. **Shift to zero carbon emissions.** The world's nations as a whole, led by the G20 (which **accounts** for 78% of all global carbon emissions), must enact realistic plans to shift to zero net carbon emissions. Practically speaking, this means zero carbon emissions by 2050.
2. **Reduce the US military footprint.** Currently, the US military is the single **largest** institutional emitter of greenhouse gases. The reduction of the US military footprint would considerably reduce political and environmental problems.
3. **Provide climate compensation for developing countries.** Ensure that the developed countries provide climate compensation for loss and damages caused by their climate emissions. Demand that the countries that polluted the waters, soil, and air with toxic and hazardous wastes – including nuclear waste – bear the costs of clean-up; demand the cessation of the production and use of toxic waste.
4. **Provide finance and technology to developing countries for mitigation and adaption.** Additionally, developed countries must provide \$100 billion per year to address the needs of developing countries, including for adaptation and resilience to the real and disastrous impact of climate change. These impacts are already borne by the developing countries (particularly the low-lying countries and small island states). Technology must also be transferred to developing countries for mitigation and adaptation.



On 21 May, Sundarlal Bahuguna (1927-2021), one of the founders of the Chipko movement, left us. In 1973, in the Chamoli district of India, the government allotted an entire ash forest to a private corporation. Gaura Devi, Sudesha Devi, C.P. Bhatt, Sunderlal Bahuguna, and others decided that they would stop the loggers to defend – as Gaura Devi put it – their *maika* (‘mother’s home’). The women of Reni village went and hugged the trees, preventing the loggers from cutting them down. This act of hugging, or *chipko*, gave the movement its name. Thanks to the immense struggle by the people of Chamoli, the government of India was forced to pass a Forest Conservation Act (1980) and create a Department of Environment (1980).

During Bahuguna’s last years, he watched India’s current government actively allow deforestation and land

degradation. According to **Global Forest Watch**, between 2019-2020, India **lost** 14% of its tree cover, with 36% of its forests severely vulnerable to fires. It is almost as if the forests are calling for another Chipko movement. This time not just in Chamoli or in India, but from one end of the planet to the other.

Warmly,

Vijay