

# The Jus Semper Global Alliance

In Pursuit of the People and Planet Paradigm

Sustainable Human Development

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ESSAYS ON TRUE DEMOCRACY AND CAPITALISM

# Socialism and Ecological Survival: An Introduction

The issue of survival can be put into the form of a fairly rigorous question: Are present ecological stresses so strong that—if not relieved—they will sufficiently degrade the ecosystem to make the earth uninhabitable by man? If the answer is yes, then human survival is indeed at stake in the environmental crisis. Obviously no serious discussion of the environmental crisis can get very far without confronting this question.

—Barry Commoner, The Closing Circle (1971)¹

# John Bellamy Foster and Brett Clark

apitalism has brought the world to the edge of the abyss. We are rapidly approaching a planetary tipping point in the form of a climate Armageddon, threatening to make the earth unliveable for the human species, as well as innumerable other species. Such an absolute catastrophe for civilisation and the human species as a whole is still avoidable with a revolutionary-scale reconstitution of the current system of production, consumption, and energy usage, though the time in which to act is rapidly running out.<sup>2</sup>

Nevertheless, while it is still possible to avoid irreversible climate change through a massive transformation in the mode of production, it is no longer feasible to circumvent accelerating environmental disasters in the present century on a scale never



Climate Justice. By <u>Laurel L. Russwurm</u> from Canada - <u>Climate Justice</u>, <u>CC BY 2.0</u>,

<sup>&</sup>lt;sup>1</sup> ← Barry Commoner, The Closing Circle: Nature, Man & Technology (New York: Bantam, 1971), 215.

<sup>&</sup>lt;sup>2</sup> ← This is the clear implication of the "Summary for Policymakers" of the IPCC Working Group III report on *Mitigation* in its Sixth Assessment Report, in the form written by scientists and reflecting the scientific consensus. However, the published version of this report, after being redacted by governments—reflecting not the scientific consensus but the governmental consensus—erased all radical social conclusions by the IPCC scientists. On this, see "Notes from the Editors on Time is Running Out," — The Jus Semper Global Alliance, June 2022.

seen before in human history, endangering the lives and living conditions of billions of people. Humanity, therefore, is

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facing issues of ecological survival on two levels: (1) a still reversible but rapidly worsening Earth System crisis, threatening to undermine civilisation as a whole and make the planet uninhabitable for the human species, and (2) accelerating extreme weather and other ecological disasters associated with climate change that are now unavoidable in the coming decades, affecting localities and regions

throughout the globe. Social mobilisation and radical social change are required if devastating near-term costs to people and communities, falling especially on the most vulnerable, are to be prevented.

Six decades after the threat of accelerated global warming was first raised by scientists, the situation has only gotten worse. In August 2021, UN secretary general António Guterres declared that it is "Code Red for Humanity." His warning coincided with the UN Intergovernmental Panel on Climate Change's (IPCC) release of the Physical Science Basis report of Working Group I of its Sixth Assessment Report (AR6). In this report, five primary scenarios were provided

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with respect to climate mitigation. Among the most significant findings was that even in the best-case scenario (SSP1-1.9), requiring at this point nothing less than a rapidly escalating transformation of the entire global system of production and consumption, the world will surpass a 1.5°C increase in global average temperature after 2040,

and will not get below that temperature again until the very end of this century.4

The second scenario (SSP1-2.6) points to an increase in global average temperature at the end of the century of 1.8°C (still well below the guardrail of 2°C). The threat of irreversible planetary catastrophe is represented by the next three IPCC scenarios. The fifth scenario (SSP5-8.5) points to an increase in the global average temperature of 4.4°C (best

The IPCC report makes it clear that it is no longer conceivable to prevent accelerating climate disasters this century. estimate)—spelling the collapse of civilisation and absolute disaster for the human species. To avoid such a prospect, given the direction in which the world is now headed, it is necessary to reverse "business as usual," transcending the prevailing logic of an "unsustainable"

capitalist system.5

At the same time, the IPCC report makes it clear that it is no longer conceivable to prevent accelerating climate disasters this century, even in the best-case scenario, in which an irrevocable planetary tipping point would be avoided. The decades immediately ahead will therefore see the proliferation of extreme weather events that will compound one another: heavy precipitation, megastorms, floods, heatwaves, droughts, wildfires, and failing monsoons. Sea-level rise will continue throughout this century and beyond, regardless of the actions taken by humanity—though the rate of sea-

<sup>3 ←</sup> António Guterres, "Mitigation of Climate Change Report 2002: 'Litany of Broken Promises'—UN Chief," United Nations, YouTube video, April 4, 2022; "Secretary-General Calls Latest IPCC Climate Report 'Code Red for Humanity,' Stressing 'Irrefutable' Evidence of Human Influence," United Nations, August 9, 2021.

<sup>&</sup>lt;sup>4</sup> ← IPCC, Climate Change 2021: The Physical Science Basis. Working Group I Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (Geneva: IPCC, 2021), 14, https://www.ipcc.ch/. The IPCC scenarios are presented in terms of both "best estimates" and "very likely ranges." The "very likely range" for SSP1-1.9 (the most optimistic scenario) for 2021–2040 is 1.2°C–1.7°C. The "best estimate," however, is 1.5°C. The "best estimate" for 2041–2060 is 1.6°C, and for 2081–2100 is 1.4°C.

<sup>&</sup>lt;sup>5</sup> ← IPCC, Climate Change 2022: Mitigation of Climate Change. Working Group III Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (Geneva: IPCC, 2022), 39, https://report.ipcc.ch.

All of this is further complicated by the fact

that climate change is not the only planetary boundary that capitalism is currently crossing or threatening to transgress.

level rise can still be affected by the world's actions. Massive global crop failures are to be expected.<sup>6</sup> Climate refugees will be in the hundreds of millions.7 All of this is further complicated by the fact that climate change is not the only planetary boundary that capitalism is currently crossing or threatening to transgress. Others include: the loss of biological diversity (marking the sixth extinction), ocean acidification,

disruption of the nitrogen and phosphorus cycles, loss of ground cover (including forests), loss of freshwater resources, chemical pollution, and radioactive contamination.8

Up to now, the ecological, including ecosocialist, strategy with respect to climate change has focused almost entirely on mitigation, aimed at stopping greenhouse gas emissions, particularly carbon emissions, before it is too late. Yet, this

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general approach has all too often been rooted in a type of reformist environmentalism that does not seriously challenge the parameters of the present system, allowing the ecological crisis to deepen and expand. Mitigation—but today necessarily of a far more revolutionary character—still has to play the leading role in any global climate strategy, since it is essential for the continuation of civilisation and survival of the human species

(and most of the known species on Earth). However, it is now also necessary, given the inevitable degradation of the earth this century, to mobilise immediately for survival at the level of communities, regions, nations, and whole peoples.

A broad revolutionary ecological and socialist strategy has to be articulated that transcends the dominant liberal refrains of individual "adaptation" and "resilience," which largely deny the realities of class, race, gender, and imperialism—along with the metabolic rift between capitalism and the environment.

The harsh reality is that during the next few decades, which according to even the IPCC's most optimistic scenario will involve breaching the 1.5°C threshold—at least for a time humanity will inevitably see the proliferation of environmental catastrophes at all levels and throughout the planet. This requires that populations organise, plan, and create spaces of ecological sustainability and substantive equality designed to protect what Karl Marx called "the chain of human

generations."9

Self-mobilisation of populations in order to protect lives, communities, and local and national environments, while carrying out revolutionary changes at all levels of existence as part of completely reorganising production, consumption, and energy usage, now constitutes the pathway to ecological survival. Yet, this new strategic moment, in which mitigation has to be accompanied by environmental disaster management aimed at protecting populations in the community in the present as well as future, has not yet been fully mapped. A broad revolutionary ecological and socialist strategy has to be articulated that transcends the dominant liberal refrains of individual "adaptation" and

<sup>6 ←</sup> IPCC, Climate Change 2021: The Physical Science Basis, 10–12, 15–18, 21–23, 34, 41.

<sup>7</sup> Hoira Lavelle, "By 2050, 200 Million Climate Refugees May Have Fled Their Homes. But International Laws Offer Them Little Protection," Inside Climate News, November 2, 2021.

<sup>8 ←</sup> Johan Rockström et al., "A Safe Operating Space for Humanity," Nature 461, no. 24 (2009): 472–75; Will Steffen et al., "Planetary Boundaries," Science 347, no. 6223 (2015): 736-46; John Bellamy Foster, Brett Clark, and Richard York, The Ecological Rift (New York: Monthly Review Press, 2010), 13-19.

<sup>&</sup>lt;sup>9</sup> ← Karl Marx, Capital, vol. 3 (London: Penguin Books, 1981), 754.

"resilience," which largely deny the realities of class, race, gender, and imperialism—along with the metabolic rift between capitalism and the environment.<sup>10</sup>

The only meaningful, radical approach to these unprecedented challenges and multiple levels of catastrophe is that of socialism as a pathway to ecological survival. It is now widely understood within natural science that the Holocene

What is needed is the creation of a novel mode of production ushering in a new geological age of the Anthropocene... This transition must begin as soon as possible to protect lives, coordinate environmental disaster management strategies, and undercut the momentum associated with the accelerating trends of ecological disaster.

Epoch in the geological history of the earth of the last twelve millennia has ended and that the planet entered into the Anthropocene Epoch around 1950.<sup>11</sup> The Anthropocene Epoch is defined as the geological epoch in which anthropogenic, rather than non-anthropogenic factors (as in the entire prior history of the earth), now largely determine the rate of Earth System change. In what might be called the Capitalinian Age, the first geological age of the

Anthropocene, the world is characterised by an Anthropocene crisis associated with "anthropogenic rifts" in the biogeochemical cycles of the planet, brought on by the Great Acceleration of the human impact on the planet under mature monopoly capitalism. What is needed in these circumstances is the creation of a novel mode of production ushering in a new geological age of the Anthropocene (since the Anthropocene itself is now a permanent feature of geological history, as long as human civilisation continues).

In a previous analysis, we dubbed this potential future geological age of the Anthropocene the Communian Age, standing for community, communal, and the commons. The advent of the Communian Age would mark the historical

The Great Acceleration and the advent of the Anthropocene also corresponded to the emergence of the modern environmental movement in the late twentieth and early twenty-first century, which might be seen as signifying the beginnings of a Great Ecological Revolt, still emerging on a planetary level in the present century.

development of a new, higher, more sustainable human relation to the earth, one which could only come about through ecological, collective, and socialist action. This transition to the second age of the Anthropocene, transcending the present Capitalinian, must begin as soon as possible to protect lives, coordinate environmental disaster management strategies, and undercut the momentum associated with the accelerating trends of ecological

disaster.<sup>13</sup> Such revolutionary, socialist transformations constitute the necessary foundation for survival, moving forward in this century.

# The Great Acceleration and the Great Ecological Revolt

The advent of the Anthropocene Epoch is associated in natural science with the Great Acceleration of economic impacts, energy use, and pollution, marking the changed physical relation to the environment arising from anthropogenic factors. However, the Great Acceleration and the advent of the Anthropocene also corresponded to the emergence of the modern environmental movement in the late twentieth and early twenty-first century, which might be

<sup>10 ←</sup> See Stan Cox and Paul Cox, How the World Breaks: Life in Catastrophe's Path, from the Caribbean to Siberia (New York: New Press, 2016).

<sup>□ ←</sup> Jan Zalasiewicz, Colin N. Waters, Mark Williams, and Colin P. Summerhayes, eds., The Anthropocene as a Geological Time Unit (Cambridge: Cambridge University Press, 2019).

<sup>&</sup>lt;sup>12</sup> ← Ian Angus, *Facing the Anthropocene* (New York: Monthly Review Press, 2016), 42–46; J. R. McNeill and Peter Engelke, *The Great Acceleration* (Cambridge, MA: Harvard University Press, 2014); Clive Hamilton and Jacques Grinevald, "Was the Anthropocene Anticipated," *Anthropocene Review* (2015): 6–7.

<sup>&</sup>lt;sup>13</sup> ← John Bellamy Foster and Brett Clark, "The Capitalinian," — The Jus Semper Global Alliance, October 2021.

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seen as signifying the beginnings of a Great Ecological Revolt, still emerging on a planetary level in the present century.<sup>14</sup>

Modern environmentalism, or the ecological revolt of the post-Second World War years, is usually said to have begun in 1962 with the publication of Rachel Carson's Silent Spring. It is more accurate, however, to see its point of origin in the response to the disastrous U.S. thermonuclear test carried out under the code name "Castle Bravo" at Bikini Atoll in the Marshall Islands on March 1, 1954. The Castle Bravo hydrogen bomb test was intended to have a yield of no more than six megatons, but, due to an error of the scientists involved, it had an explosive power of fifteen megatons, about two and a half times what was expected and a thousand times that of the atomic bombs that the United States dropped on Hiroshima and Nagasaki. The detonation resulted in ten million metric tons of coral being radiated and absorbed into the fiery mushroom cloud that climbed over 100,000 feet into the air and spanned over seventy-five miles.<sup>15</sup>

The Castle Bravo test released an enormous, unexpected level of radiation, with the fallout extending over 11,000 square kilometres. Traces of radioactive materials, which had entered the atmosphere and stratosphere, were detected all over the globe. Marshall Islanders on the inhabited atolls were covered with a fine, white-powdered substance (calcium precipitated from the vaporised coral) containing radioactive fallout. Decades after the Castle Bravo test, most of the children and many adults on Rongelap Island had developed thyroid nodules, some of which proved malignant. The crew of a Japanese fishing boat, the Lucky Dragon, which at the time of the test was some eighty-two nautical miles from Bikini, well outside the official danger zone, were coated in radioactive fallout. By the time the boat reached Japan, members of the crew were already exhibiting radiation sickness, setting off a world alarm.<sup>16</sup>

The Dwight Eisenhower administration refused to release information on the effects of radioactive fallout and exposure in the face of the Castle Bravo disaster, downplaying the issue for almost a year. However, the veil that hid the fallout problem fell. Alarmed scientists immediately began to research the effects of radioactive fallout and how it was distributed by air, water, and living organisms throughout the global ecosystem. This work revealed how the operations of the Earth System resulted in fallout being concentrated in the Arctic, despite this region being far removed from where nuclear testing was taking place. It documented how iodine-131 adversely affected the thyroid gland. It detailed how

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plants and lichen absorbed strontium-90, which then moved throughout the food web, where this radioactive isotope was incorporated into bones and teeth, increasing cancer risks. These studies raised fears of a planetary ecological crisis, whereby the

world's population would share a common environmental fate from the spread of radiation, threatening survival everywhere, as dramatised in fictional form in Nevil Shute's 1957 dystopian nuclear holocaust novel On the Beach.

All of this was to contribute to the inception of the Great Ecological Revolt or worldwide development of environmental movements. Disturbed by the spread of radionuclides in the biosphere, scientists began protesting against above-ground nuclear tests, led by such left/socialist figures as J. D. Bernal, Virginia Brodine, Barry Commoner, W. E. B. Du Bois, Albert

<sup>&</sup>lt;sup>14</sup> → For an interesting reflection on this in the early 1970s, see the chapter on "Nature and Revolution," in Herbert Marcuse, Counter-Revolution and Revolt (Boston: Beacon, 1972), 59–78.

<sup>15 →</sup> John Bellamy Foster, *The Return of Nature* (New York: Monthly Review Press, 2020), 502; Sean Walker, "Castle Bravo: Marking the 65th Anniversary of the US Nuclear Disaster," Australian Institute of International Affairs, February 27, 2019.

<sup>16 ←</sup> Foster, The Return of Nature, 502–3; Richard Hudson and Ben Shahn, Kuboyama and the Saga of the Lucky Dragon (New York: Yoseloff, 1965); Ralph E. Lapp, The Voyage of the Lucky Dragon (London: Penguin, 1957); Jonathan M. Weisgall, Operation Crossroads: The Atomic Tests at Bikini Atoll (Annapolis: Naval Institute Press, 1994)

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Einstein, H. J. Muller, Linus Pauling, and Bertrand Russell.<sup>17</sup> Reflecting on these issues, Leo Huberman, the editor of Monthly Review, remarked in 1957 that "time is running out.... The tests [of these bombs] are dangerous to the health of the world. We must make the movement to ban the bomb encompass not just the Left who are already aware of the dangers, but all of our countrymen.<sup>18</sup>

Commoner, a biologist and a pioneer in ecological thought, helped organise in 1958 the St. Louis Citizen's Committee for Nuclear Information (later the Committee for Environmental Information) that brought scientists and citizens together to share accurate information regarding nuclear issues and concerns, including the dangers of exposure to radioactive fallout. This group famously initiated the baby tooth study in 1958, which involved coordinating with community organisations to recruit participants to collect teeth from young residents in the region to examine the absorption and prevalence of strontium-90. By 1970, approximately 300,000 teeth had been analysed, revealing that the presence of strontium-90 in teeth rose in direct correspondence to an increase in atmospheric bomb tests, only to decline following the end of such above-ground tests. Given the rich findings, similar studies were done in other parts of the United States, Canada, and Germany, further documenting how radioactive isotopes were readily incorporated into specific parts of the body, contributing to an increase in childhood cancer.

Carson herself entered into this ecological movement initially through her concern over bioaccumulation (concentration

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of contaminants like radionuclides and other toxins within organisms) and biomagnification (the magnified concentration of contaminants at higher levels within the food chain). She offered an extensive analysis of the dangers that accompanied the widespread use of synthetic pesticides, explaining that the "chemical war," poisoning, and ecological degradation were driven by "the gods of profit and production."<sup>19</sup>

In the context of the Great Ecological Revolt, both before and after the publication of Carson's Silent Spring, socialist environmentalists were generally distinguished by their more thoroughgoing critiques and far-reaching analyses of the fundamental threat that the capital accumulation system posed to the global environment, and by their insistence on the need for the formation of a revolutionary ecological movement for human survival.<sup>20</sup> Three classic works in this respect are Commoner's Science and Survival (1963); Charles H. Anderson's The Sociology of Survival: Social Problems of Growth (1976); and Rudolf Bahro's Socialism and Survival: Articles, Essays, and Talks 1979–1982 (1982).<sup>21</sup> Commoner's and Anderson's books both addressed the multiple critical ecological thresholds, such as climate change, that were

<sup>17 ←</sup> Foster, The Return of Nature, 490, 505–8; Commoner, The Closing Circle; Virginia Brodine, Radioactive Contamination (New York: Harcourt Brace Jovanovich, 1975); Daniel Ford, The Cult of the Atom: The Secret Papers of the Atomic Energy Commission (New York: Simon and Schuster, 1982); Lawrence S. Wittner, Rebels Against War: The American Peace Movement 1933–1983 (Philadelphia: Temple University Press, 1984); Lawrence S. Wittner, One World or None: A History of the World Nuclear Disarmament Movement Through 1953 (Stanford: Stanford University Press, 1993); Lawrence S. Wittner, Resisting the Bomb: A History of the World Nuclear Disarmament Movement, 1954–1970 (Stanford: Stanford University Press, 1997); Linus Pauling, No More War! (New York: Dodd, Mead and Company, 1983); Linus Pauling, Linus Pauling in His Own Words: Selected Writings, Speeches, and Interviews (New York: Touchstone, 1995).

<sup>&</sup>lt;sup>18</sup> ← Leo Huberman, "Report from Japan," Monthly Review 9, no. 2 (June 1957): 49.

<sup>19 ←</sup> Foster, The Return of Nature, 491–92, 506–7, 509; Barry Commoner, Science and Survival (New York: Viking, 1966), 119–20; "St. Louis Baby Tooth Survey, 1959–1970," Washington University School of Dental Medicine, accessed June 8, 2022; Rachel Carson, Silent Spring (Boston: Houghton Mifflin, 1994), 277–97; John Bellamy Foster and Brett Clark, "Rachel Carson's Ecological Critique," Monthly Review 59, no. 9 (February 2008): 1–17.

<sup>&</sup>lt;sup>20</sup> ← On socialist thinkers who raised these questions before the publication of *Silent Spring*, see Foster, *The Return of Nature*, 358–416, 457–501.

<sup>&</sup>lt;sup>21</sup> ← Charles H. Anderson, *The Sociology of Survival: Social Problems of Growth* (Homewood, IL: Dorsey, 1976); Rudolf Bahro, *Socialism and Survival* (London: Heretic Books, 1982). Another important work that addressed the question of survival in the 1970s, though identified with the anarchist tradition, was Murray Bookchin, *Post-Scarcity Anarchism* (New York: Ramparts, 1971).

being crossed as a result of the profit-driven production system.<sup>22</sup> The red-green theorist Bahro, building on the analysis of British Marxist historian E. P. Thompson, insisted in "Who Can Stop the Apocalypse?" that capitalism was leading to "exterminism," or the systematic death of multitudes. He called for the mobilisation of a massive, global ecological "conversion movement" aimed at transcending the system of capital accumulation.<sup>23</sup>

As Commoner, Anderson, and Bahro all emphasised, there were two existential crisis tendencies facing humanity—a reality that remains true today. One is associated with the nuclear arms race and the threat of a global thermonuclear exchange, ushering in nuclear winter.<sup>24</sup> The other is the crossing of planetary boundaries, constituting a direct threat to

The only answer is to build a strong socialist and ecological, or ecosocialist, movement locally and globally, that ensures the survival of populations and communities in the present while safeguarding the future of humanity and the earth.

ecological existence, due to the inherent drive of the system of capital accumulation in the Anthropocene. Six decades after the danger of accelerated global warming was first raised by scientists in the Soviet Union and the United States, the situation has only gotten progressively worse and more threatening, marking the complete failure

of the capitalist environmental state in checking fossil capital.<sup>25</sup> The only answer is to build a strong socialist and ecological, or ecosocialist, movement locally and globally, that ensures the survival of populations and communities in the present while safeguarding the future of humanity and the earth.

#### Ecosurvival and Ecosocialism

Born in 1917, Commoner was a child of the Great Depression and of the socialist and communist movements of the time. He was strongly influenced by the mass movements supporting the Republican cause in the Spanish Civil War and by protests against lynchings in the U.S. South. Drawn early on to socialist, dialectical-materialist approaches to science, he was a close reader of Frederick Engels's Anti-Dühring and the Dialectics of Nature. He was to be a lifelong ecosocialist. He once declared, ironically, that "the Atomic Energy Commission made me an environmentalist." In "To Survive on the Earth," the closing chapter of Science and Survival, Commoner warned:

As a biologist, I have reached this conclusion: we have come to a turning point in the human habitation of the earth. The environment is a complex, subtly balanced system, and it is this integrated whole which receives the impact of all the separate insults inflicted by pollutants. Never before in the history of this planet has its thin life-supporting surface been subjected to such diverse, novel, and potent agents. I believe that the cumulative effect of these pollutants, their interactions and amplification, can be fatal to the complex fabric of the biosphere. And, because man is, after all, a dependent part of this system, I believe that continued pollution of the earth, if unchecked, will eventually destroy the fitness of this planet as a place for human life.... I believe that world-wide radioactive contamination, epidemics, ecological disasters, and possibly climatic changes would so gravely affect the stability of the biosphere as to threaten human survival everywhere on the earth.<sup>27</sup>

<sup>&</sup>lt;sup>22</sup> ← Commoner, Science and Survival, 10–11, 125–26; Anderson, The Sociology of Survival, 126. Also Bookchin, Post-Scarcity Anarchism, 60.

<sup>&</sup>lt;sup>23</sup> → Bahro, Socialism and Survival, 142, 147–49, 151; E. P. Thompson, Beyond the Cold War (New York: Pantheon, 1982), 41–79.

<sup>&</sup>lt;sup>24</sup> → See John Bellamy Foster, "'Notes on Exterminism' for the Twenty-First-Century Ecology and Peace Movements," — The Jus Semper Global Alliance, June 2022.

<sup>&</sup>lt;sup>25</sup> ← On the first warning of accelerated global warming, see John Bellamy Foster, "Late Soviet Ecology and the Planetary Crisis," Monthly Review 67, no. 2 (June 2015): 10–12.

<sup>&</sup>lt;sup>26</sup> → Foster, The Return of Nature, 505–6; Michael Egan, Barry Commoner and the Science of Survival (Cambridge, MA: Massachusetts Institute of Technology Press, 2007), 19–20, 47; Barry Commoner, "What Is Yet to Be Done?," in Barry Commoner's Contribution to the Environmental Movement, ed. David Kriebel (Amityville, NY: Baywood, 2002), 75.

<sup>&</sup>lt;sup>27</sup> ← Commoner, Science and Survival, 122.

Commoner was deeply concerned with "the assault on the biosphere." Already in Science and Survival, he presented the basic nuclear winter hypothesis in which a general thermonuclear exchange would result, due to the lofting of smoke and soot into the stratosphere, in a drastic reduction in global average temperatures imperilling all of humanity.<sup>28</sup> In the

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same work, he pointed to climate change, warning of the effects of accelerated carbon dioxide accumulation in the atmosphere, the consequences of this on the biosphere, and the "catastrophic floods" arising from sea-level rise. "Control of this danger," that is, global warming, he observed in the mid–1960s, "would require the modification, throughout the world, of

domestic furnaces and industrial combustion plants.... Solar power, and other techniques for the production of electrical power which do not require either combustion or nuclear reactors, may be the best solution. But here...massive technological changes will be needed in all industrial nations." Nevertheless, technology itself was not the answer. As Commoner went on to state, "technology has not only built the magnificent material base of modern society, but also confronts us with threats to survival which cannot be corrected unless we solve very great economic, social, and political problems.... Science can reveal the depth of this [ecological] crisis, but only social action can resolve it."<sup>29</sup>

In 1971, in the chapter on "The Question of Survival" in The Closing Circle, Commoner made a similar declaration, writing:

My own judgement, based on the evidence now at hand, is that the present course of environmental degradation, at least in industrialised countries, represents a challenge to essential ecological systems that is so serious that, if continued, it will destroy the capability of the environment to support a reasonably civilised human society....

One can try to guess at the point of no return—the time at which major ecological degradation might become irreparable.... It is now widely recognised, I believe, that we are already suffering too much from the effects of the environmental crisis, that with each passing year it becomes more difficult to reverse, and that the issue is not how far we can go to the brink of catastrophe, but how to act—now.<sup>30</sup>

For Commoner, the ultimate problem was the mode of production itself. As he stated in the introduction to the 1992 edition of Making Peace with the Planet, "If the environment is polluted and the economy is sick, the virus that causes both will be found in the system of production."<sup>31</sup>

Anderson, who was deeply influenced by Commoner's work, was a Marxian sociologist and political economist, author

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of The Political Economy of Social Class (1974). In the mid–1970s, he developed a powerful ecosocialist degrowth analysis, focusing on the planetary environmental crisis and issues of human ecological

survival. His major work, The Sociology of Survival, argued that the alienated capitalist growth economy was destroying

<sup>&</sup>lt;sup>28</sup> ← Commoner, Science and Survival, 81–83.

<sup>&</sup>lt;sup>29</sup> ← Commoner, Science and Survival, 10–11, 125–26.

<sup>30 ←</sup> Commoner, The Closing Circle, 215, 230.

<sup>&</sup>lt;sup>31</sup> → Barry Commoner, Making Peace with the Planet (New York: New Press, 1992), ix.

the environmental conditions of human existence. "The stakes involved in this crisis of survival," he wrote, "are in the extreme sense nothing less than the physical continuation of human beings on the planet."<sup>32</sup>

Operating in the tradition of Paul A. Baran and Paul M. Sweezy's Monopoly Capital, Anderson saw capitalism in its mature state as prone to economic stagnation, manifested in a tendency toward slower growth and higher levels of unemployment/underemployment and excess capacity. But stagnation (what Herman Daly was to call a "failed growth

"With ever increasing speed and force, humanity presses forward upon the unknown limits of its own life-support systems. The breaking point, or a point of irreversible 'no return,' approaches in such major life-giving systems as the atmosphere, hydrology, nitrogen cycles, and photosynthesis.

system") in many ways only served to intensify the system's thrust against the environment, since a "stagnating capitalism is a doomed system and everything must be directed toward restoring growth, including industrial and technological innovation and change, regardless of need or impact." Hence, a capitalism, prone to stagnation, becomes more intensively destructive of "earthly life," relative to the level of

output.<sup>33</sup> This has been partially confirmed by research on the effects of economic slowdowns on carbon emissions. Thus, empirical studies have shown that, as the capitalist economy declines in terms of overall output in recessions, carbon emissions do not decrease proportionately, but rather increase in intensity.<sup>34</sup>

Focusing on the core ecological problem posed by the exponential accumulation of capital, Anderson argued: "With ever increasing speed and force, humanity presses forward upon the unknown limits of its own life-support systems. The breaking point, or a point of irreversible 'no return,' approaches in such major life-giving systems as the atmosphere, hydrology, nitrogen cycles, and photosynthesis. It is the nature of living systems to have threshold levels, meaning that things may appear to be going quite all right until virtually all of a sudden the system is in a state of irreversible decline."<sup>35</sup>

An important part of Anderson's argument was the danger to human survival represented by climate change, in which he argued that "a mere two degrees centigrade increase" in average global temperature due to the concentration of carbon

"nothing grows faster in the growth of society than energy consumption"—a view that continues to be borne out in the twenty-first century, with the U.S. Energy Information Administration projecting in 2021 that world energy consumption will rise by 50 percent from 2020 to 2050, despite the urgent need to reach zero net carbon emissions by 2050.

dioxide in the atmosphere "could destabilise or melt the polar ice caps, raising the ocean 50 meters and flooding coastal populations and agricultural areas." He insisted that in the rapacious capitalist growth economy "nothing grows faster in the growth of society than energy consumption"—a view that continues to be borne out in the twenty-first century, with the U.S. Energy Information Administration projecting in 2021 that world energy

consumption will rise by 50 percent from 2020 to 2050, despite the urgent need to reach zero net carbon emissions by 2050.<sup>37</sup>

<sup>&</sup>lt;sup>32</sup> ← Anderson, The Sociology of Survival, 4–5.

<sup>33 ←</sup> Anderson, *The Sociology of Survival*, 5, 7, 48–51; Paul A. Baran and Paul M. Sweezy, *Monopoly Capital* (New York: Monthly Review Press, 1966); Herman Daly, "Towards a Steady-State Economy," UK Sustainable Development Commission, April 24, 2008.

<sup>&</sup>lt;sup>34</sup> Richard York, "Asymmetric Effects of Economic Growth and Decline on CO2 Emissions," Nature Climate Change 2 (2012): 762–63.

<sup>35 🗠</sup> Anderson, The Sociology of Survival, 12–13; Barry Weisberg, Beyond Repair: The Ecology of Capitalism (Boston: Beacon, 1971), 6.

<sup>&</sup>lt;sup>36</sup> ← Anderson, The Sociology of Survival, 13, 126.

<sup>&</sup>lt;sup>37</sup> ↔ Anderson, *The Sociology of Survival*, 153; U.S. Energy Information Administration, "International Energy Outlook, 2021," October 6, 2021.

A crucial aspect of Anderson's argument was his emphasis on "environmental debt."<sup>38</sup> Inherently unable to adopt a sustainable approach to nature, requiring relations of ecological reciprocity incompatible with its economic expropriation of the planet, capitalism was in effect drawing down the resources of the earth needed for human survival. As he cogently explained, referring to what is now known as Marx's theory of metabolic rift: "Modern agriculture, charged Marx, is as guilty of soil exploitation as it is of labor exploitation; the capitalist extracts a fictitious surplus from the soil by taking more wealth out than he restores. Thus, just as workers produce more value than they are paid in return, and thus perform unpaid labor, so has nature been forced to yield up its capital stock at a rate far in excess of actual or restorative costs. The unpaid costs to the environment underlie the ecological challenge to survival."<sup>39</sup>

For Anderson, the extraction and depletion of resources was even more evident in the underdeveloped nations of the third world or Global South, given imperialistic relations. Resources in the periphery of the capitalist world system were expropriated without any concern for restoration or reciprocity, at the same time that the economic surplus generated in those countries was siphoned off by the rich countries in the capitalist core. In the case of poor, underdeveloped countries, therefore, growth remained necessary, but it was also crucial to implement a more "balanced growth" in the periphery and internationally, organised on a socialist, equitable, and sustainable basis aimed at addressing real needs. Here, growth is related to advancing human social development, establishing social relations with nature that mend ecological rifts, and preventing further "environmental debts." Such a transformation necessitated strongly confronting capital.

Monopoly capitalism, for Anderson, was a system of economic and ecological waste in both production and consumption. It included a massive sales effort, which penetrated into the production process, high levels of military

Growth beyond a certain "point, particularly artificially forced growth, may be seen to reverse previous progress, destroying the foundation upon which a socialist society and culture could be constructed."

spending, and financial speculation—all of which reinforced its unsustainable tendencies and intensified its wasteful operations. Science and technology themselves took alienated forms. This generated "an openly exploitative and destructive science and technology geared toward the maximisation of surplus wealth and the minimisation of immediate financial cost."41 The result

was an anti-ecological system, which became more unecological the further accumulation proceeded. Growth beyond a

"Growth becomes what it must become: social growth....
True socialism provides the conditions for growth in knowledge, art and literature, music, science and technology, ties with nature, sociality, individuality, bodily activity and spiritual appreciation."

certain "point, particularly artificially forced growth, may be seen to reverse previous progress, destroying the foundation upon which a socialist society and culture could be constructed." Nevertheless, there was no possibility of a shift away from growth/accumulation by capitalism itself, since to "give up growth" would be

to "give up everything that really matters to the capitalist class qua class." 42

The critique of unlimited capitalist economic growth, for Anderson, did not mean that "social growth" or human development could not continue. "Growth becomes what it must become: social growth.... True socialism provides the

<sup>&</sup>lt;sup>38</sup> ← Anderson, The Sociology of Survival, 73, 81; Commoner, Science and Survival, 127.

<sup>&</sup>lt;sup>39</sup> → Anderson, *The Sociology of Survival*, 140. Commoner too drew on this part of Marx's analysis. See Commoner, *The Closing Circle*, 280. For an extended analysis of these issues, see John Bellamy Foster and Brett Clark, *The Robbery of Nature* (New York: Monthly Review Press, 2020).

<sup>&</sup>lt;sup>40</sup> ← Anderson, The Sociology of Survival, 252–69.

<sup>&</sup>lt;sup>41</sup> ← Anderson, The Sociology of Survival, 142.

<sup>&</sup>lt;sup>42</sup> ← Anderson, The Sociology of Survival, 31, 41.

conditions for growth in knowledge, art and literature, music, science and technology, ties with nature, sociality, individuality, bodily activity and spiritual appreciation—available for all and pursued with everyone's well-being and personal dignity in mind."43

"Socialism and survival," in Anderson's view, were "in effect, synonymous." But survival was not simply about preserving

Ecological survival means a thoroughgoing transformation of the mode of production. "The manner in which people organise their materially productive activities," their metabolic relations with nature, constitutes "the crucial linkage between the social quality of life people and the reproductive viability of the physical life-support system."

human existence; it was also about the quality of that existence, and for this too socialism was required. Such a view stressed not only the "danger inherent in existing economic, technological, environmental, resource, population, and agricultural conditions...but also...the kind of social reconstruction" crucial to overcoming capitalism's existential ecological crisis. Ecological survival means a thoroughgoing transformation of the

mode of production. "The manner in which people organise their materially productive activities," in other words, their metabolic relations with nature, he explained, constitutes "the crucial linkage between the social quality of life people

Capitalism, he contended, raises the question of survival, which only an ecological, socialist, peace movement, involving a new material and spiritual relation to the earth, can solve.

experience and the reproductive viability of the physical lifesupport system." Above all, this requires the "liberation of time," both work time and leisure time, so they promote human development and sustainability, and neither are aimed at profits. The breakdown of the "work-leisure dichotomy" is essential

since it is "the heart of the growth system."44

A socialist dissident from East Germany who became a leader of the red-green movement within West Germany, Bahro articulated in his Socialism and Survival a sense of real urgency associated with the need to stop the planetary devastation and deepening social contradictions brought on by the "so far unstoppable process of capital accumulation."<sup>45</sup> Capitalism, he contended, raises the question of survival, which only an ecological, socialist, peace movement, involving a new material and spiritual relation to the earth, can solve.<sup>46</sup>

For Bahro, following Thompson's earlier analysis, exterminism meant the destruction of industrial civilisation along with human multitudes. "To express the extermination thesis in Marxian terms," he wrote:

one could say that the relationship between productive and destructive forces is turned upside down. Like others who looked at civilisation as a whole, Marx had seen the trail of blood running through it, and that "civilisation leaves deserts behind it." In ancient Mesopotamia it took 1500 years for the land to grow salty, and this was only noticed at a very late stage, because the process was slow. Ever since we began carrying on a productive material exchange with nature, there has been this destructive side. And today we are forced to think apocalyptically, not because of culture-pessimism, but because this destructive side is gaining the upper hand.<sup>47</sup>

<sup>&</sup>lt;sup>43</sup> ← Anderson, The Sociology of Survival, 235.

<sup>&</sup>lt;sup>44</sup> → Anderson, *The Sociology of Survival*, 8, 14, 227, 235, 276–78.

<sup>&</sup>lt;sup>45</sup> → Bahro, Socialism and Survival, 131.

<sup>&</sup>lt;sup>46</sup> → Thompson wrote an introduction to the English edition of Bahro's *Socialism and Survival*, in which he compared the latter favorably to William Morris. Thompson, introduction to *Socialism and Survival*, 8.

<sup>&</sup>lt;sup>47</sup> ↔ Rudolf Bahro, Avoiding Social and Ecological Disaster: The Politics of World Transformation (Bath: Gateway, 1994), 19.

Capitalism, precisely because its motor and purpose are found in the process of endless, exponentially increasing capital accumulation, can only proceed down the exterminist path. Hence, there is "no Archimedean point [no place to stand

"the enormous ecological destabilisation" in the Global South "is primarily a symptom of western structural penetration into 'indigenous' social and natural conditions." The result of this global capitalist exterminist expansion is "a crisis of human civilisation in general.

with which to move the world] within existing institutions which could be used to bring about even the smallest change of course." Turning to G. W. F. Hegel, Bahro explained that the prevailing "economic principle of surplus-value production" means that social advance is defined in the narrowest of quantitative criteria associated with the gains of capital. Significantly, "Hegel used to speak in such cases of a 'bad

infinity,' by which he meant a process which involved no more than adding 1 to 1, and did not lead in its own context to a decisive qualitative leap. This kind of progress must cease for the share of the earth's crust that can be ground up in the industrial metabolism is limited, despite all possible and senseless expansion, if the planet is to remain habitable."<sup>48</sup>

For Bahro, "the enormous ecological destabilisation" in the Global South "is primarily a symptom of western structural penetration into 'indigenous' social and natural conditions."<sup>49</sup> The result of this global capitalist exterminist expansion is "a crisis of human civilisation in general. There has never been anything comparable in the whole past history of our species on the earth." In fact, "exterminism is expressed in the destruction of the natural basis of our existence as a species."<sup>50</sup> The control exerted by the system over the working class is a product of capitalism's ability constantly to create an internal dependence of workers on the system, which the combined ecological and economic crisis is now weakening. But the movement of resistance that is needed has to be organised primarily through the merger of the ecological and peace movements and their relation to the working class, rather than on traditional productivist grounds. Ecology, given the scope and depth of the planetary crisis and the undermining of the conditions of life, becomes the common material ground "affecting more people in their existential interests than in any other contradiction."<sup>51</sup>

To advance on a path of sustainability and survival therefore would mean a revolutionary break with the logic and

"The oldest stratum of civilisation involved in the present crisis, is that of patriarchy, with ten millennia behind it." Many of the distinctive tendencies of contemporary civilisation, including forms of oppression, thus run deeper than present-day capitalism. institutions of capitalism, out of which the ecosocialist transition was to emerge. Capitalism, in Bahro's view, was not all inclusive, in the sense that it is often depicted in contemporary ideology as constituting the entirety of the present-day world. It continued to have an external area, which, as in the conception of Arnold Toynbee, gave rise to an "external proletariat" occupying the periphery and precarious parts of the capitalist world. This existed

alongside the "internal proletariat" of the advanced capitalist world, which, by definition, was never fully incorporated within the system.<sup>52</sup>

"The oldest stratum of civilisation involved in the present crisis," Bahro argued, following Engels, "is that of patriarchy, with ten millennia behind it." Many of the distinctive tendencies of contemporary civilisation, including forms of

<sup>&</sup>lt;sup>48</sup> → Bahro, Socialism and Survival, 28, 157; see also Foster, Clark, and York, The Ecological Rift.

<sup>&</sup>lt;sup>49</sup> → Bahro, Avoiding Social and Ecological Disaster, 29.

<sup>&</sup>lt;sup>50</sup> → Bahro, Socialism and Survival, 38, 124.

<sup>&</sup>lt;sup>51</sup> → Bahro, Socialism and Survival, 16.

<sup>&</sup>lt;sup>52</sup> → Bahro, Avoiding Social and Ecological Disaster, 5.

<sup>53 ←</sup> Bahro, Socialism and Survival, 151; Frederick Engels, The Origin of the Family, Private Property, and the State (New York: International Publishers, 1975); Foster, The Return of Nature, 287–96.

oppression, thus run deeper than present-day capitalism. There were cultural and spiritual resources that were resistant to capitalist exterminism. All of this created the potential that "the capitalist industrial system" could be "driven back and destroyed by an unstoppable manifold movement of humanity," defined in ecological and socially reproductive more than "purely economic terms."<sup>54</sup>

A central reality of capitalism, in this view, was the inability of the capitalist state itself to change course or to reverse the ecological devastation generated through its own operations. The capitalist state governed by industrial and financial

The essence of the problem was the juggernaut of capital itself, which the capitalist state only sought to accelerate, never to apply the brakes, heading therefore toward a collision with the earth. This would especially impact "the marginalised and excluded, [who] now have an unbeatable ally. This wall is formed by the limits of the earth itself, against which we really shall be crushed to death if we do not manage to [stop] the Great Machine that we have created before this finally bumps against it."

interests, Bahro wrote, "is obviously so very much wedded to exterminism that it doesn't permit itself to be used as an emergency brake.... No government which could be constituted on the present 'place' of the state [within the existing socioeconomic order] could be anything but a bad emergency government."55 The essence of the problem was the juggernaut of capital itself, which the capitalist state only sought to accelerate, never to apply the brakes, heading therefore toward a collision with the earth.

This, he said, would especially impact "the marginalised and excluded, those with their backs to the wall, [who] now [however] have an unbeatable ally in this very wall that they have their backs against. This wall is formed by the limits of the earth itself, against which we really shall be crushed to death if we do not manage to brake and bring to a halt the Great Machine that we have created before this finally bumps against it." The answer clearly could not be seen as lying in a capitalist "emergency state," which would only make things worse for the vast majority, and for the earth itself, but in a revolutionary "salvation government" in which the material struggle for survival coupled with the struggle for human liberation—the end of alienation and the focus on essential human needs—would generate a new emergent reality.<sup>56</sup>

However, this revolutionary ecological critique offered by socialist ecologists, premised on the rejection of capitalism's relentless destruction of humanity and the earth, and therefore on the linking of the struggle for survival to the struggle for human freedom, did not come to dominate the environmental movement—even though it played a critical role in the ecological struggles of the time. The environmental movement, and even much of ecosocialist thought, in the tamer periods that followed the initial revolt, gravitated toward a radical reformism, in which the full urgency of the struggle for survival was forgotten, despite the rapidly accelerating planetary ecological crisis. A stage of environmental denialism—not of the whole environmental problem but of its worst threats and their inherent relation to capitalism—set in on the left. Hence, the understanding of the existential crisis stemming from the ecological deficits of capitalism that thinkers such as Commoner, Anderson, and Bahro raised—not apocalyptically, but in terms of an ecosocialism of survival demanding revolutionary social change—is now needed more than ever.

#### **Existential Crisis Now!**

The IPCC reports, representing the world scientific consensus with respect to climate change, serve to illuminate how the imperatives of capitalism are pushing the world into the inferno looming before us. The more optimistic IPCC

<sup>&</sup>lt;sup>54</sup> ← Bahro, Socialism and Survival, 149.

<sup>&</sup>lt;sup>55</sup> ← Bahro, Avoiding Social and Ecological Disaster, 333.

<sup>&</sup>lt;sup>56</sup> → Bahro, Socialism and Survival, 149; Bahro, Avoiding Social and Ecological Disaster, 323–44.

scenarios, those resulting in a growth of global average temperature this century of well below 2°C, point to the actions

With each new IPCC report, the situation is ever more dire, and the possibility of pulling away from disaster requires ever more revolutionary change.

necessary to reach net zero carbon emissions (as well as reducing other greenhouse gas emissions), thus avoiding irrevocable climate change. The remaining scenarios, representing the continuation of "business as usual," depict how the ongoing accumulation of greenhouse gases in the atmosphere will drive an increase in the average global

temperature, resulting in abrupt changes in the Earth System that undermine the conditions of life for humanity and other

The most optimistic scenario now provided by the IPCC—the world will continue to experience the propagation of extreme weather events, heavy precipitation, flooding, drought, heatwaves, wildfires, glacial melting, and sea-level rise.

species. Unfortunately, the capitalist "business-as-usual" trends persist, pointing to hellish consequences. Thus, with each new IPCC report, the situation is ever more dire, and the possibility of pulling away from disaster requires ever more revolutionary change, given both the increasing physical scale of the problem and the diminishing time scale. This represents the

existential crisis that now lies before the entire world.

In the best-case scenario (SSP1-1.9) provided by the Physical Science Basis assessment in part 1 of AR6, written by Working Group I, global average temperature, as we have seen, is expected to surpass a 1.5°C increase above preindustrial levels after 2040, rising to 1.6°C, and not declining below the 1.5°C threshold again (returning to 1.4°C) until the end of the century. But in order for this scenario to hold, global carbon emissions must peak within a few years, with net zero emissions achieved by 2050. Still, even in this scenario—the most optimistic one now provided by the IPCC—the world will continue to experience the propagation of extreme weather events, heavy precipitation, flooding, drought, heatwaves, wildfires, glacial melting, and sea-level rise, which will affect every region of the earth, while threatening billions of people.<sup>57</sup>

The IPCC's Impacts, Adaptation and Vulnerability assessment, written by Working Group II of AR6, released in February 2022, documents the observed consequences of climate change so far, detailing the vulnerabilities and projected risks in

The rise in weather and climate extremes has led to some irreversible impacts as natural and human systems are pushed beyond their ability to adapt.

the coming decades. The "Summary for Policymakers" of Working Group II highlights the range of changes in the Earth System, which have already increased the risks that much of humanity experiences and which are decreasing the quality of existence in general. Among the "observed impacts," it is emphasised that "human-induced climate

change, including more frequent and intense extreme events, has caused widespread adverse impacts and related losses and damages to nature and people, beyond natural climate variability.... Across sectors and regions, the most vulnerable people and systems are observed to be disproportionately affected. The rise in weather and climate extremes has led to some irreversible impacts as natural and human systems are pushed beyond their ability to adapt."58

Heat- and drought-related conditions have increased tree mortality and wildfires. The warming of the ocean has resulted

Climate change is also increasing irreversible conditions such as species extinctions.

in "coral bleaching and mortality" and the "loss of kelp forests." Half of the species considered are already migrating toward the poles or moving to higher elevations. Climate change is also

<sup>&</sup>lt;sup>57</sup> → IPCC, Climate Change 2021: The Physical Science Basis, 10–12, 15–18, 21–23, 34, 41.

<sup>&</sup>lt;sup>58</sup> → IPCC, Climate Change 2022: Impacts, Adaptation and Vulnerability. Working Group II Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (Geneva: IPCC, 2022), 7–8, https://www.ipcc.ch/.

Climate change and extreme weather events are reducing "food and water security." It is estimated that up to 3.6 billion people currently reside in places "that are highly vulnerable to climate change," which is contributing to the overall humanitarian crisis.

increasing irreversible conditions such as species extinctions. In comparison to previous estimates in prior assessments, "the extent and magnitude of climate change impacts are [now] larger."59

Climate change is negatively affecting both the physical and mental health of people. For example, "extreme heat events have resulted in human mortality and morbidity"; "the occurrence of climate-related food-borne and water-borne diseases has increased"; "the incidence of vector-borne diseases has increased from range expansion and/or increased reproduction of disease vectors"; and "animal and human diseases, including zoonoses, are emerging in new areas." Populations around the world are experiencing greater trauma from extreme weather events. They are also contending with "climate-sensitive cardiovascular and respiratory distress" due to "increased exposure to wildfire smoke, atmospheric dust, and aero-allergens." Heatwaves are amplifying air pollution events. Climate change and extreme weather events are reducing "food and water security." It is estimated that up to 3.6 billion people currently reside in places "that are highly vulnerable to climate change," which is contributing to the overall humanitarian crisis.<sup>60</sup>

The "Summary for Policymakers" report of Working Group II of AR6 is clear that the current socioeconomic system that

The current socioeconomic system that organises production and consumption is unsustainable.

organises production and consumption is unsustainable, "increasing exposure of ecosystems and people to climate hazards." In fact, "unsustainable land-use and land cover change, unsustainable use of natural resources, deforestation, loss of biodiversity, pollution, and their

interactions, adversely affect the capacities of ecosystems, societies, communities and individuals to adapt to climate change." Short-term interests, focused on increasing profits, drive poor management of resources, habitat fragmentation, pollution of ecosystems, and overall ecological degradation.<sup>61</sup>

Between now and 2040, it is absolutely necessary to keep warming below the 1.5°C threshold (or at the very worst well below 2°C), otherwise the climate-related "losses and damages" to both ecosystems and society will dramatically multiply. Surpassing this threshold will result in extreme and high risks associated with biodiversity loss, a dramatic decline in snowmelt water availability for irrigating crops, a severe reduction in above-ground and groundwater availability, declining health of soils, widespread food insecurity, flooding of "low-lying cities and settlements," accelerated proliferation of disease risks, even more intense and frequent weather events, and extensive heatwave conditions. "Many natural systems are near the hard limits of their natural adaptation capacity," whereby additional warming will result in irreversible changes that undermine essential ecosystem services that support life. The overall damages, threats, and problems "will continue to escalate with every increment of global warming." It will only become more and more difficult to intervene and manage the compounding risks that will cascade throughout the world, depending on the magnitude of the overshoot.<sup>62</sup>

<sup>59 →</sup> IPCC, Climate Change 2022: Impacts, Adaptation and Vulnerability, 8.

<sup>60 ←</sup> IPCC, Climate Change 2022: Impacts, Adaptation and Vulnerability, 10–11.

<sup>61 ←</sup> IPCC, Climate Change 2022: Impacts, Adaptation and Vulnerability, 11–12.

<sup>62 →</sup> IPCC, Climate Change 2022: Impacts, Adaptation and Vulnerability, 13–15, 18–20, 27.

#### True Democracy and Capitalism

Hence, the "Summary for Policymakers" of Working Group II in AR6 focusing on Impacts, Adaptation and Vulnerability concludes that "there is a rapidly narrowing window of opportunity" to forge a radically different future. It warns that

It is unequivocal that climate change has already disrupted human and natural systems. Past and current development trends...have not advanced global climate resilient development.... Societal choices and actions implemented in the next decade determine the extent to which medium- and long-term pathways will deliver higher or lower climate resilient development.... Importantly climate resilient development prospects are increasingly limited if current greenhouse gas emissions do not rapidly decline, especially if 1.5°C global warming is exceeded in the near term.<sup>63</sup>

The leaked scientific-consensus draft of the "Summary for Policymakers" by Working Group II of AR6, received by the

We need transformational change operating on processes and behaviours at all levels: individual, communities, business, institutions and governments. We must redefine our way of life and consumption."

French news agency Agence-France Presse in June 2021, included the following statement: "We need transformational change operating on processes and behaviours at all levels: individual, communities, business, institutions and governments. We must redefine our way of life and consumption." This transformation requires coordinated action, massive public mobilisation, political

leadership and commitment, and urgent decision-making to change the global economy and support an effective and accelerated mitigation-adaptation strategy.<sup>64</sup> Unfortunately, such action has been consistently thwarted by capital and global political leaders, who managed to remove the statement from the final published Working Group II report, where it is nowhere to be found.

In May 2022, the carbon dioxide concentration in the atmosphere measured 421.37 parts per million, marking a new

"this last decade, the rate of increase has never been higher, and we are still on the same path. So we are going in the wrong direction at maximum speed." high. Peter Tans, a climate scientist at the National Oceanographic and Atmospheric Administration, explained that in "this last decade, the rate of increase has never been higher, and we are still on the same path. So we are going in the wrong direction at maximum speed."65 As climate breakdown accelerates, the conditions of life

are rapidly deteriorating, creating numerous health problems, some of which manifest as corporeal rifts, undermining bodily existence.<sup>66</sup>

Corporeal challenges, which could be viewed as indications of a corporeal rift in which climate change disrupts human

Corporeal challenges, which could be viewed as indications of a corporeal rift in which climate change disrupts human bodily functions, have received additional attention given the brutal heatwaves.

bodily functions, have received additional attention given the brutal heatwaves and record-breaking temperatures in India and Pakistan in spring 2022. On May 1, the temperature in Nawabshah, Pakistan, was 49.5°C (120.2°F). What made this heatwave, along the

coasts and the Indus River Valley in these countries, particularly unbearable was that it was accompanied by high levels

<sup>63 ←</sup> IPCC, Climate Change 2022: Impacts, Adaptation and Vulnerability, 30, 35.

<sup>64 →</sup> IPCC, Climate Change 2022: Impacts, Adaptation and Vulnerability, 29–35. For a discussion of the leaked "Summary for Policymakers" for part 3 on Mitigation of the IPCC's Sixth Assessment Report and the relation to the final published report (after being rewritten by governments), see "Notes from the Editors on Leaked IPCC Reports" —The Jus Semper Global Alliance, January 2022;

<sup>65 ←</sup> Leslie Hook and Chris Campbell, "Climate Graphic of the Week," Financial Times, May 13, 2022.

<sup>&</sup>lt;sup>66</sup> ← For a discussion of the corporeal rift, see Foster and Clark, *The Robbery of Nature*, 23–32.

of humidity.<sup>67</sup> Together, these can create dangerous levels of heat stress, which can result in death. This issue is particularly important to consider in regard to global warming, as climate change increases heat and the amount of water vapor in the atmosphere. Furthermore, warmer air holds more moisture, making humidity worse. Heat and humidity are additive, generating conditions in the form of wet-bulb temperatures (combining both normal, dry-bulb temperature and humidity) that exceed the capacity of people to survive. One of the important issues, under such conditions, is that nighttime temperatures are also high, making it difficult or impossible for the body to recover partially overnight—worsening the situation. This is part of the reason that, as heatwaves progress, it becomes increasingly difficult for people to function physically.

In the article "The Emergence of Heat and Humidity Too Severe for Human Tolerance," published in Science Advances, Colin Raymond, Tom Matthews, and Radley M. Horton explain that what are called dry-bulb temperatures,

Once the wet-bulb temperature reaches 35°C (or 95°F), this cooling mechanism ceases to be effective. Under such conditions, human beings are not able to cool themselves by sweating, even if they are in the shade, wearing little clothing, and drinking plenty of water.

measurements obtained from an ordinary thermometer, are not adequate in ascertaining the dangers to human health associated with heat stress.<sup>68</sup> Instead, it is necessary to measure the wet-bulb temperature—heat and humidity. This is obtained by placing a wet cloth on the thermometer and blowing air on it. Human beings

cool themselves or shed their metabolic heat at high temperatures via sweat-based latent cooling. But once the wet-bulb temperature reaches 35°C (or 95°F), this cooling mechanism ceases to be effective. Under such conditions, human beings are not able to cool themselves by sweating, even if they are in the shade, wearing little clothing, and drinking plenty of water. When outside and exposed to such wet-bulb temperatures for six hours, even young, healthy individuals will perish from this heat stress. In humid regions, and for populations whose physical conditions are less than optimal, it is possible for lives to be threatened even with lower wet-bulb temperatures, between 26°C and 32°C, as was the case in the heatwaves that hit Europe in 2003 and Russia in 2010, killing thousands of people, especially the elderly and other vulnerable populations.<sup>69</sup>

Raymond and his colleagues stress that "extreme heat remains one of the most dangerous natural hazards" and "a wet-bulb temperature...of 35°C marks our upper physiological limit." Thus, it is not possible simply to adapt to progressively

In the second half of the century, if "businessas-usual" trends continue, the likely consequences are too horrific to imagine. warmer temperature, when heat and humidity surpass the point of what is survivable. These worrying wet-bulb temperature conditions are occurring a few hours at a time in coastal and major river regions of South Asia, the Middle East, Mexico, and

Central America. Such conditions are likely to become more regular and to last longer in these regions over the next few decades, or even years, with even more deadly consequences, while spreading across larger terrestrial stretches, rendering parts of the world uninhabitable. In the second half of the century, if "business-as-usual" trends continue, the likely consequences are too horrific to imagine.<sup>70</sup>

<sup>67 ←</sup> Jeff Masters, "India and Pakistan's Brutal Heat Wave Poised to Resurge," Yale Climate Connections, May 5, 2022.

<sup>68</sup> Colin Raymond, Tom Matthews, and Radley M. Horton, "The Emergence of Heat and Humidity Too Severe for Human Tolerance," Science Advances 6, no. 19 (2020)

<sup>69 →</sup> Masters, "India and Pakistan's Brutal Heave Wave"; Raymond, Matthews, and Horton, "Emergence of Heat and Humidity"; Tim Andersen, "Wet Bulb Temperature Is the Scariest Part of Climate Change You've Never Heard of," Infinite Universe, July 2, 2021.

<sup>&</sup>lt;sup>70</sup> ↔ Raymond, Matthews, and Horton, "Emergence of Heat and Humidity"; Masters, "India and Pakistan's Brutal Heave Wave."

Nevertheless, in the opening scene of The Ministry for the Future, the science-fiction novelist and socialist Kim Stanley Robinson tries to imagine what could happen to human beings under the unbearable heat and humidity associated with

"Life on Earth can recover from a drastic climate shift by evolving into new species and creating new ecosystems. Humans cannot."

wet-bulb temperatures. The population of a town in India is suffering from an intense heatwave. People are panicking, immersing themselves in the lake, trying to cool down, but to no avail, as the water provides no relief. It is noted that the people are being poached. Before too long, the lake is filled with corpses—"all the children were dead, all the old people were

dead."71 It is a hellish scene, but it captures the gravity of exterminism that is unfolding and the urgency of the fight for survival. This is the sobering reality of the current ecological moment, as the leaked draft of the "Summary for Policymakers" of Working Group II stated (though this was removed, probably by governments, from the published report): "Life on Earth can recover from a drastic climate shift by evolving into new species and creating new ecosystems. Humans cannot."72

# The Structural Crisis of Capital and the Failure of Environmental Reform

The failure of capital to face up to the rapidly increasing ecological crisis, even as the earth as a home for humanity is fast approaching an irreversible tipping point, is often attributed to the growth of neoliberalism, as if this were simply a

The centrality of what was dubbed the "environmental state," introduced as the capitalist system's response to the deepening environmental crisis, experienced an early death. It was to be replaced under neoliberalism by a more diffuse system of "environmental governance."

contingent fact of history determined by political swings and policy changes.<sup>73</sup> The advance of neoliberalism, however, was itself a response of the capitalist system to the insurmountable structural crisis of capital that first emerged in the mid–1970s, leading to the restructuring of this system. This included not only the reduction of the relative autonomy of the state, but also the restructuring of

the capital-labor relation through the globalisation of production and the financialisation of the system.<sup>74</sup> In these changed circumstances, the centrality of what was dubbed the "environmental state," introduced as the capitalist system's response to the deepening environmental crisis, experienced an early death. It was to be replaced under neoliberalism by a more diffuse system of "environmental governance," involving both the private and public sectors, ensuring that the accumulation of capital always took complete precedence over the sustainability of the natural environment.<sup>75</sup>

The initial Great Ecological Revolt of the early post-Second World War years was largely radical in inspiration, strongly critical of capitalism, drawing its strength from the grassroots, and raising the essential question of human survival. However, these radical environmental challenges to the system were soon contained and co-opted through the rise to prominence of the capitalist environmental state, allowing the Great Acceleration of economic impacts on the

<sup>&</sup>lt;sup>71</sup> ← Kim Stanley Robinson, *The Ministry for the Future* (London: Orbit, 2020), 1–12.

<sup>&</sup>lt;sup>72</sup> ↔ "Notes from the Editors on Time is Running Out," — The Jus Semper Global Alliance, June 2022.

<sup>73 ←</sup> The neoliberal argument is present most prominently in Naomi Klein, This Changes Everything: Capitalism vs. the Climate (New York: Simon and Schuster, 2014), 69–73.

<sup>74 ←</sup> See Harry Magdoff and Paul M. Sweezy, *Stagnation and the Financial Explosion* (New York: Monthly Review Press, 1987); Joyce Kolko, *Restructuring World Economy* (New York: Pantheon, 1988); John Bellamy Foster and Robert W. McChesney, *The Endless Crisis* (New York: Monthly Review Press, 2012); Grace Blakeley, *Stolen* (London: Repeater, 2019).

<sup>75 ←</sup> See Arthur P. J. Mol and Frederick H. Buttel, eds., *The Environmental State Under Pressure* (New York: JAI Publishing, 2002); Magnus Boström and Debra J. Davidson, eds., *Environment and Society* (Cham, Switzerland: Palgrave Macmillan, 2018).

environment to expand largely unhindered. The notion of the environmental state stood for a patchwork system of environmental regulations and statutory laws introduced by the state within the limits allowed by the powers that be,

Although there was no solution to the economic malaise of the mature capitalist economies, the ruling class was able to extend its power, in a context of "disaster capitalism," through the promotion of a more predacious system that brought the state more firmly within the rules of the market.

thereby precluding any major challenges to the process of capital accumulation. The dominant state-directed environmental reformism that emerged in these years, combating isolated cases of extreme pollution and environmental degradation at the local level, was commonly presented in received ideology as a logical outgrowth of capitalist modernisation, viewed as an

extension of the logic of the welfare state. Capitalism, it was claimed, followed a path whereby environmental spending increased at higher levels of economic development, ameliorating the negative effects of growth.<sup>76</sup>

All of this has proved to be a dangerous illusion. The environmental state as a central actor within the system was at best a very short-term affair, soon overshadowed by the structural crisis of capitalism that emerged only a few years later by the mid–1970s. The economic restructuring of the late 1970s and early '80s was a response to the deepening stagnation of capital accumulation, evident in a slowdown in economic growth and rising unemployment/underemployment and idle capacity.<sup>77</sup> Although there was no solution to the economic malaise of the mature capitalist economies, the ruling class was able to extend its power, in a context of "disaster capitalism," through the promotion of a more predacious system that brought the state more firmly within the rules of the market.<sup>78</sup> These developments were accompanied by the globalisation of production and the financialisation of the economy, ushering in a new phase of globalised monopoly-finance capital, made possible in part by new systems of communication and surveillance.

By the 1990s, even those proponents of capitalist ecological modernisation, who were the most enthusiastic cheerleaders of the environmental state, were forced to point to the counter-pressures being imposed on it by capital;

Proponents of capitalist ecological modernisation, who were the most enthusiastic cheerleaders of the environmental state, were forced to point to the counter-pressures being imposed on it by capital; while more recently, they have acknowledged its virtual demise.

while more recently, they have acknowledged its virtual demise.<sup>79</sup> In the context of this rapid decline of the state-directed system of environmental regulation (the environmental state), the notion of environmental governance was introduced as the new reform-oriented concept to take its place. Environmental governance was meant to refer to the much greater role assumed by private interests, including corporations, corporate

foundations, non-governmental organisations, international financial institutions, and intergovernmental organisations in determining the realm of environmental regulation, which, in many areas, such as various certification processes, carbon markets, and the financialisation of nature/conservation, generated new markets for capital accumulation, legitimated in terms of so-called green capitalism.<sup>80</sup> The environmental nation-state (a notion that in the international context

<sup>&</sup>lt;sup>76</sup> → For a critique of mainstream ecological modernization theory, including the so-called Environmental Kuznets Curve, see John Bellamy Foster, "The Planetary Rift and the New Human Exemptionalism: A Political-Economic Critique of Ecological Modernization Theory," Organization and Environment 25, no. 3 (2012): 211–37.

<sup>77 ←</sup> István Mészáros, *The Structural Crisis of Capital* (New York: Monthly Review Press, 2010).

<sup>78 →</sup> John Bellamy Foster, "Absolute Capitalism" — The Jus Semper Global Alliance, March 2020.): 1–13; Naomi Klein, The Shock Doctrine (New York: Picador, 2008).

<sup>&</sup>lt;sup>79</sup> ← Arthur P. J. Mol, "The Environmental State and Environmental Governance," in *Environment and Society*, ed. Boström and Davidson, 119–42; Mol and Buttel, *The Environmental State Under Pressure*.

<sup>80 ←</sup> John Bellamy Foster, "Nature as a Mode of Accumulation" — The Jus Semper Global Alliance, May 2022; John Bellamy Foster, "The Defence of Nature," — The Jus Semper Global Alliance, June 2022.

represented a further distancing from the concept of the domestic environmental state) was seen as subject to intergovernmental agreements such as the 2015 Paris Accord on climate change.<sup>81</sup>

Nonetheless, the phases of limited environmental reform, presided over initially by the capitalist environmental state and more recently by so-called environmental governance under direct corporate and ruling-class dominance, have seen the

Marginal attempts by the present politicaleconomic system to address the planetary ecological emergency have proven entirely ineffectual since the capitalist juggernaut always takes priority.... The ruin, when it comes, will be ecological as well as political-economic and will fall most heavily on the vulnerable and future generations.

acceleration of the destruction of the earth as a home for humanity. According to the world scientific consensus, ecological catastrophes, on scales never before seen by humanity, are now fast approaching. Marginal attempts by the present political-economic system to address the planetary ecological emergency have proven entirely ineffectual since the capitalist juggernaut always takes priority. The world is now on a runaway train to disaster,

rapidly approaching the edge of the cliff. As Engels once remarked, capitalism is ruled by "a class under whose leadership society is racing to ruin like a locomotive whose jammed safety-valve the driver is too weak to open."82 The ruin, when it comes, will be ecological as well as political-economic and will fall most heavily on the vulnerable and future generations.

This deadly trajectory is evident everywhere, underscoring the failure of capitalist ecological reform. According to the UN Emissions Gap Report 2021, the present voluntary national climate pledges of countries in accordance with the Paris Agreement would generate a 2.7°C increase (66 percent probability) in global average temperature this century, as

Presently, there are more than four hundred ongoing fossil fuel extraction projects in process in the world (40 percent of which have not yet commenced extraction), currently advanced by corporations and supported by governments, known as "carbon bombs."

opposed to the well-below 2°C increase, which is the goal of the accords, and far above the scientific-consensus goal of 1.5°C, which is the most important threshold for planetary climate security.<sup>83</sup> Presently, there are more than four hundred ongoing fossil fuel extraction projects in process in the world (40 percent of which have not yet commenced extraction), currently advanced by corporations and supported by governments, known

as "carbon bombs." Each of these represents at least one gigaton of carbon emissions, which, if they are all carried out, "will exceed the global 1.5°C carbon budget by a factor of two."84 There is no sign anywhere that the necessary limits will be imposed by capitalism to protect the planetary environment. Rather, the signs all point to the opposite as a frenzy for fossil fuels is developing. The G7 leading capitalist countries, meeting in May 2022, agreed eventually to "phase out" "unabated coal" but put forward no date for doing so, with the discussion dominated instead by the need for vast new fossil fuel sources in the context of the Ukraine War, setting aside all climate objectives.85

Perhaps the greatest single example of the collective duplicity of governments within the dominant capitalist world system in the face of the planetary ecological emergency is the rewriting of the scientific-consensus "Summary for Policymakers" of Working Group III in the IPCC's AR6 report on Mitigation, published in April 2022. A comparison of

<sup>81 ←</sup> Mol, "The Environmental State and Environmental Governance," 119–42.

<sup>82 ↔</sup> Marx and Engels, Collected Works, vol. 25 (New York: International Publishers, 1975), 145–46, 153, 270.

<sup>84 ←</sup> Kjell Kühne, Nils Bartsch, Ryan Driskell Tate, Julia Higson, and André Habet, "'Carbon Bombs'—Mapping Key Fossil Fuel Projects," Energy Policy 166 (2022):

<sup>85 ←</sup> Markus Wacket and Kate Abnett, "G7 Pledges to Phase Out Coal but No Date," The Young Witness, May 27, 2022.

A comparison of the scientific-consensus version of the "Summary for Policymakers," leaked in August 2021, with the later published version, which was censored and completely rewritten by governments in consultation with corporate lobbyists—carried out in line with the IPCC process—demonstrates a complete betrayal of science and humanity.

the scientific-consensus version of the "Summary for Policymakers," leaked in August 2021, with the later published version, which was censored and completely rewritten by governments in consultation with corporate lobbyists—carried out in line with the IPCC process—demonstrates a complete betrayal of science and humanity. The collective pronouncements of the scientists on the need to: (1) eliminate all coal-fired plants worldwide this

decade, in order to avoid greatly surpassing the 1.5°C target; (2) carry out immediate, rapid transformational change in the political-economic regime affecting production, consumption, and energy use; (3) shift to low-energy solutions; (4) implement plans for "accelerated mitigation"; and (5) support mass social movements against climate change rooted in the most vulnerable sectors of society, advancing a radical just transition—were all removed from the report. All criticisms of the "vested interests," including the term vested interests itself, were erased from the report. Flatly contradicting the scientific-consensus "Summary for Policymakers," the redacted governmental-consensus report went so far as to claim that the number of coal-fired plants could be increased due to the promise of carbon capture and sequestration—a view that the scientists had rejected.

Governmental leaders also eliminated statements in the scientific-consensus "Summary for Policymakers" regarding

The entire critique of the fossil capital regime presented in the scientific-consensus "Summary for Policymakers" was excluded by governments in the interest of keeping the accumulation process, the motor of the capitalist system.

how: (1) the wealthiest 10 percent of the global population are responsible for around ten times the greenhouse gas emissions of the poorest 10 percent (despite the fact that this was a very conservative estimate of the emissions gap); (2) the top 1 percent of air travelers account for 50 percent of aviation-based emissions; and (3) some 40 percent of the

emissions from developing countries are linked to export production for core nations.86

Indeed, the entire critique of the fossil capital regime presented in the scientific-consensus "Summary for Policymakers" was excluded by governments in the interest of keeping the accumulation process, the motor of the capitalist system, going. In nearly every line of the final, published "Summary for Policymakers" by Working Group III of AR6, the Mitigation report, the betrayal of the global population by the world's governments is present, as the latter, operating together, eviscerated the IPCC's scientific consensus, undermining any meaningful actions and policies. When the Mitigation report was published in April 2022, Guterres remarked that the current moment is one of "climate emergency," marked by "a litany of broken climate promises," constant "lies," and "empty pledges [by the vested interests] that put us firmly on track towards an unliveable world."<sup>87</sup> The consequence of this is to further promote what Engels called "social murder," but now on a planetary scale, threatening the entire chain of human generations. <sup>88</sup>

<sup>86 → &</sup>quot;Notes from the Editors on Leaked IPCC Reports" — The Jus Semper Global Alliance, January 2022; "Notes from the Editors on Time is Running Out," — The Jus Semper Global Alliance, June 2022. Oxfam and the Stockholm Environment Institute have shown that the wealthiest 10 percent of the world's population are responsible for 52 percent of carbon emissions, while the poorest 50 percent account for only 7 percent. "Confronting Carbon Inequality," Oxfam Media Briefing, September 21, 2020. See also Jess Colarossi, "The World's Richest People Emit the Most Carbon," Our World, December 5, 2015; John Bellamy Foster, "On Fire This Time," Monthly Review 71, no. 6 (November 2019).

<sup>87 → &</sup>quot;Secretary-General Warns of Climate Emergency, Calling Intergovernmental Panel's Report 'a File of Shame,' While Saying Leaders 'Are Lying,' Fueling Flames," United Nations: Meetings Coverage and Press Release, April 4, 2022.

<sup>88 ←</sup> Marx and Engels, Collected Works, vol. 4, 394; Foster, The Return of Nature, 184, 196.

The U.S. federal government's prioritisation of capital accumulation, including that of the fossil fuel industry, over not only human lives in the present, but the future of humanity as a whole, is evident in the nonstop battles of the Barack

The lawsuit declares that the executive and legislative branches in Washington knowingly violated the public trust with respect to climate change by allowing the undermining of the "survival resources" on which the lives of people in the present and future depend, putting human survival in question.

Obama, Donald Trump, and Joe Biden administrations against the federal lawsuit of Juliana vs. the United States, in which twentyone young plaintiffs have challenged the U.S. government for wrongfully promoting the fossil fuel industry in violation of what is known as the public trust doctrine within the common law, affirmed in a famous 1892 decision involving the Illinois Central Railroad company, as applicable to the U.S. Constitution. Applying the public trust doctrine to the federal government, the

lawsuit declares that the executive and legislative branches in Washington knowingly violated the public trust with respect to climate change by allowing the undermining of the "survival resources" on which the lives of people in the

Biden has made it evident that it will use every procedural tool available to arrest the progress of the lawsuit, killing it at the earliest opportunity.

present and future depend, putting human survival in question. As Oregon District Court judge Ann Aiken ruled in 2016, "I have no doubt that the right to a climate system capable of sustaining human life is fundamental to a free and ordered society." Juliana vs. the United States is based on the presumption that statutory law with respect to the climate

is too narrow and is not enforced, requiring that the federal government be mandated on constitutional grounds to cease its support of the fossil fuel industry.<sup>89</sup>

In response, successive Democratic and Republican administrations have done everything they could to stop this

Not only has the U.S. federal government put capital accumulation and the fossil fuel industry before human life as a whole, promoting social murder on a global scale, or exterminism, it has also neglected to take proactive and comprehensive action to protect the population, particularly the most vulnerable.

lawsuit, which has been subject to more "exceptional legal tactics" (including "six rulings on the notorious shadow docket," where legal opinions are not published and the justice's votes are not made public) than any other federal lawsuit in history. The Biden administration Department of Justice has made it evident that it will use every procedural tool available

to arrest the progress of the lawsuit, killing it at the earliest opportunity.<sup>90</sup> The goal is to allow the fossil fuel industry to continue to accumulate and expand by preventing any obligation of the U.S. federal government to protect the present and future of humanity.

Not only has the U.S. federal government put capital accumulation and the fossil fuel industry before human life as a whole promoting social murder on a global scale, or

"All emergency agencies" in the United States taken together do little in advance to prepare for disasters, while FEMA programs have been shown to "entrench and exacerbate inequities because they focus on restoring private property.

whole, promoting social murder on a global scale, or exterminism, it has also neglected to take proactive and comprehensive action to protect the population, particularly the most vulnerable, in the face of accelerating ecological catastrophes. The U.S. government's program of disaster relief is based in the Federal Emergency Management Agency

(FEMA). But FEMA at present is underfunded and geared primarily to protecting high-end private property, thus leaving

<sup>&</sup>lt;sup>89</sup> → Julia Rock, "Biden Is Preparing to Crush a Historic Climate Change Lawsuit," *Lever News*, May 26, 2022; Mary Christina Wood, "On the Eve of Destruction: Courts Confronting the Climate Emergency," *Indiana Law Journal* 97, no. 1 (2022): 277.

<sup>90 ←</sup> Rock, "Biden Is Preparing to Crush a Historic Climate Change Lawsuit."

the mass of the population with little or no protection—and without any coordinated programs aimed at reducing risk associated with environmental disasters. Under the Obama administration, proposals were made, as articulated by FEMA director Craig Fugate, to put FEMA on a fully capitalist basis along the lines of the private insurance industry, complete with deductibles. FEMA assistance was thus to be determined largely by whether the private insurance industry had decided to ensure a given structure, an approach that would inevitably have a detrimental effect on the poor.<sup>91</sup>

With record-breaking hurricanes, wildfires, and other extreme weather disasters presenting themselves in 2020, coupled with the COVID-19 pandemic, FEMA and the U.S. government in general, as explained by Scientific American, proved itself utterly incapable of addressing the growing natural and epidemiological disasters. This brought "into stark relief problems of capacity and inequity—[with] people of color and low-income communities" getting "hit disproportionately hard." "All emergency agencies" in the United States taken together do little in advance to prepare for disasters, while FEMA programs have been shown to "entrench and exacerbate inequities because they focus on restoring private property. This approach favours higher income, typically majority white areas with more valuable homes and infrastructure over people of color and low-income communities, which are disproportionately affected by disaster and least able to recover from it." A precondition of FEMA disaster relief is "cost matching," which systematically and structurally favours wealthier over poorer communities. The comprehensive failure of the United States to address the COVID-19 pandemic, resulting in more than a million deaths, is a manifestation of the complete lack of an infrastructure, including public health facilities, equipped to cope with disasters in general, particularly where the most vulnerable populations are concerned. Instead, the capitalist system has enshrined the principle of the devil take the hindmost.<sup>92</sup>

## **Ecological Civilisation or Exterminism**

In the 1860 edition of his Trades' Unions and Strikes, the English Chartist and trade unionist Thomas Joseph Dunning wrote:

Capital is said by this reviewer [in the Quarterly Review] to fly turbulence and strife, and to be timid, which is very true; but this is very incompletely stating the question. Capital eschews no profit, or very small profit, just as Nature was formerly said to abhor vacuum. With adequate profit, capital is very bold. A certain 10 per cent. will ensure its employment anywhere; 20 per cent. certain will produce eagerness; 50 per cent. positive audacity; 100 per cent. will make it ready to trample on all human laws; 300 per cent., and there is not a crime at which it will scruple nor a risk it will not run, even to a chance of its owner being hanged. If turbulence and strife will bring a profit, it will freely encourage both. Smuggling and the slave-trade have amply proved all that is here stated.<sup>93</sup>

It is this innate drive of capital, trampling over all other social considerations, already depicted by Dunning in the nineteenth century, that helps explain why, even in the face of the certain ruination of contemporary civilisation, humanity, and to a considerable extent life as a whole, capital nonetheless proceeds down that same road of creative destruction. It is not deterred from burning all existing fossil fuel reserves, and thus the heating up of the climate, as long as the short-term profits are ample. Its "solutions" to the environmental crisis increasingly take the form of the

<sup>91 -</sup> Christopher Flavelle, "FEMA's Director Wants Capitalism to Protect Us from Climate Change," Bloomberg, December 12, 2016.

<sup>92 ←</sup> Editors, "Fix Disaster Response Now," *Scientific American*, September 1, 2021; Junia Howell and James R. Elliott, "Damages Done: The Longitudinal Impacts of Natural Hazards on Wealth Inequality in the United States," *Social Problems* 66, no. 3 (2018): 448–67.

<sup>93 →</sup> Thomas Joseph Dunning, *Trades' Unions and Strikes* (London: London Consolidated Society of Bookbinders, 1873), 42. Quoted (slightly differently) in Karl Marx, *Capital*, vol. 1 (New York: International Publishers, 1976), 926.

Its "solutions" [of capital] to the environmental crisis increasingly take the form of the financialisation of nature, aimed at buying up the "environmental services" of the entire planet.

financialisation of nature, aimed at buying up the "environmental services" of the entire planet, operating under the senseless presumption that if there is a global ecological crisis it is due to the failure to incorporate nature fully into the market.94

Consequently, a whole new revolutionary ecological civilisation and mode of production, dedicated to sustainable human development, one in which the associated producers regulate the metabolism between humanity and nature, is now necessary for survival and for life. This requires revolutionary transformative actions to mitigate climate change, in order to protect the planet as a safe place for human habitation and life in general. But in seeking to protect the earth as

In seeking to protect the earth as a home for the future of the chain of human generations, it is also necessary to protect current generations.

a home for the future of the chain of human generations, it is also necessary to protect current generations. At issue today is not only the long-term issue of the survival of humanity as a species, but also the more immediate imperative of ensuring the lives and living conditions of twenty-first-century populations, including whole communities, nations,

and peoples, and especially those whose lives and living conditions are most exploited, precarious, and vulnerable.

This two-level movement, to protect the earth both as a home for humanity (and innumerable other species) well into the future and for the defence of human communities in the present, is most fully addressed in the world today, though not without contradictions, in those societies with a more socialist bent.<sup>95</sup> It is socialist, post-revolutionary societies that are better able to resist the logic of capital, despite the continuing dominance of the capitalist world economy, by

In September 2017, Maria, a category 5 hurricane, hit Puerto Rico, a U.S. colony, resulting in almost three thousand deaths. In that same month, Irma, another category 5 hurricane, hit Cuba, causing only ten deaths. Cuba's low mortality was the result of comprehensive disaster protection measures.

introducing ecological as well as economic planning, and facilitating alternative forms of social metabolic reproduction. We can see this in Cuba, which has developed an ecosocialist model of degrowth, in the sense, designated by Don Fitz, of a society that embodies "a reduction of unnecessary and destructive production by and for rich countries (and people)," that "exceeds the...

growth of production of necessities by and for poor countries (and people)."96

Cuba has not only repeatedly been designated by international indicators as the most ecological nation on the earth, but also as the one most prepared for disasters. Cuba in 2017 was "the only country in the world with a government-led plan (Project Life, or Tarea Vida) to combat climate change" based on a century-long projection. In September 2017, Maria, a category 5 hurricane, hit Puerto Rico, a U.S. colony, resulting in almost three thousand deaths. In that same month, Irma, another category 5 hurricane, hit Cuba, causing only ten deaths. Cuba's low mortality was the result of comprehensive disaster protection measures introduced from the beginning of its revolution and built into the entire

<sup>&</sup>lt;sup>94</sup>  $\leftarrow$  Foster, "The Defence of Nature," — The Jus Semper Global Alliance, June 2022.

<sup>95 ←</sup> The dominant ideology in the capitalist world has manufactured an unbalanced and one-sided environmental history of state socialism as one of continual ecological destruction pervading all of society, said to exceed the ecological destruction wrought by the West. However, a new book by Salvatore Engel-Di Mauro has shown that the record of environmental policy in Soviet-type societies was much more mixed. Actually existing "socialist states scored...many environmental successes," comparing favorably, in many respects, especially when historically contextualized and placed in a global context, with the nations of the capitalist core. This is even more the case in the twenty-first century, when examining the results of socialist-directed ecological planning in states such as China and Cuba. See Salvatore Engel Di-Mauro, *Socialist States and the Environment* (London: Pluto, 2021), 198. The great advantage of socialist-type societies is that it is possible to engage in social and ecological planning that puts people and the long-term environmental good ahead of profits. See Paul M. Sweezy and Harry Magdoff, "Socialism and Ecology," *Monthly Review* 41, no. 4 (September 1989): 1–8.

<sup>96 &</sup>lt;u>←</u> Don Fitz, "Cuba Prepares for Disaster," *Resilience*, March 24, 2022.

structure of the society. Cuba put in place a national plan to protect the population from COVID-19 prior to the first death there from the pandemic. It has developed highly effective COVID-19 vaccines, which have been used to vaccinate its entire population and to help other countries at low cost.<sup>97</sup>

In terms of the wider issues of climate change, Cuba, rather than following the dominant capitalist strategy of promoting maximum energy usage and simply converting to "alternative" energies (which are also extremely damaging to the

One problem today is that you cannot convert the world's energy matrix, with current consumption levels, from fossil fuels to renewable energies. There are not enough resources for the panels and wind turbines. environment at higher levels of energy generation), has chosen energy conservation, seeking to minimise both energy usage and the resultant negative effects. As Cuban energy advisor Orlando Rey Santos has observed: "One problem today is that you cannot convert the world's energy matrix, with current consumption levels, from fossil fuels to renewable energies.

There are not enough resources for the panels and wind turbines, nor the space for them. There are insufficient resources for all this. If you automatically made all transportation electric tomorrow, you would continue to have the same problems of congestion, parking, highways, heavy consumption of steel and cement."98

In "Cuba Prepares for Disaster," Cuban analyst Fitz explains that "a poor country with a planned economy can design policies to reduce energy use. Whatever is saved from [energy efficiency] can lead to less or low-energy production, resulting in a spiralling down of energy use. In contrast, in accordance with the well-known Jevons Paradox, competition drives capitalist economies toward investing funds saved from EE [energy efficiency] toward economic expansion resulting in perpetual growth" and mounting ecological contradictions. As Fitz goes on to observe: "What is amazing is

The demise of the Soviet Union and its fossil fuel subsidies to Cuba, forced Havana, faced also with a tightening U.S. embargo, to develop agroecology and urban farming at very high levels, resulting in Cuba's eco-revolutionary transformation into a model of sustainable human development.

that Cuba has developed so many techniques of medical care and disaster management for hurricanes and climate change, despite its double impoverishment from colonial days and neocolonial attacks from the U.S.," including the permanent embargo imposed by Washington as a form of economic siege warfare. 99 Cuba's Special Period, following the demise of the Soviet Union and its fossil fuel subsidies

to Cuba, forced Havana, faced also with a tightening U.S. embargo, to develop agroecology and urban farming at very high levels, resulting in Cuba's eco-revolutionary transformation into a model of sustainable human development.<sup>100</sup>

Cuba's successes in promoting sustainable human development fed the anti-communist ire of Washington. Relying on new means of financial warfare, the Trump administration introduced 243 additional financial sanctions directed at Cuba, while the Biden administration extended those further.

Cuba's successes in promoting sustainable human development fed the anti-communist ire of Washington. Relying on new means of financial warfare, the Trump administration introduced 243 additional financial sanctions directed at Cuba, while the Biden administration extended those further. This

<sup>97 -</sup> Fitz, "Cuba Prepares for Disaster"; see also, Richard Stone, "Cuba Embarks on a 100-Year Plan to Protect Itself from Climate Change," Science, January 10, 2018.

 $<sup>^{98} \</sup>leftarrow$  Rey Santos quoted in Fitz, "Cuba Prepares for Disaster."

<sup>99 🗗</sup> Fitz, "Cuba Prepares for Disaster." On the Jevons Paradox, see Foster, Clark, and York, The Ecological Rift, 169–82.

<sup>&</sup>quot;As World Burns, Cuba No. 1 for Sustainable Development: WWF," teleSUR, October 27, 2016; Matt Trinder, "Cuba Found to Be the Most Sustainable Country in the World," Green Left, January 10, 2020; Mauricio Betancourt, "The Effect of Cuban Agroecology in Mitigating the Metabolic Rift," Global Environmental Change 63 (2020): 1–10; Rebecca Clausen, Brett Clark, and Stefano B. Longo, "Metabolic Rifts and Restoration: Agricultural Crises and the Potential of Cuba's Organic, Socialist Approach to Food Production," World Review of Political Economy 6, no. 1 (2015): 4–32; Christina Ergas, Surviving Collapse (New York: Oxford University Press, 2021); Sinan Koont, "The Urban Agriculture of Havana," Monthly Review 60, no. 8 (January 2009): 44–63.

#### True Democracy and Capitalism

generated increased shortages in food and other basic items, made worse by the COVID-19 pandemic. In July 2021, popular protests emerged in Cuba for the first time in a generation. The increases in global food prices, accompanied by wheat shortages, in early 2022, associated with the pandemic, profiteering, and the Russia-Ukraine War, have only exacerbated these conditions.<sup>101</sup> This crisis has resulted in critical debates in Cuban society that, while intense, are mostly taking place within the revolution rather than outside of it, suggesting that Cuba will continue to carry out a process of socialist construction and reconstruction that will defy all those who are seeking its demise.<sup>102</sup>

Venezuela's Bolivarian Revolution, although in a different way than Cuba, has also moved toward an ecological society, promoting communes that put resources and production back in the hands of associated producers, ensuring that basic needs are met. Government resources are being transferred to communes and organised communities in both rural and urban areas with the objective of enhancing food security and sovereignty partly through such agencies as the Pueblo a Pueblo (or People to People) Plan, promoting an "assembly culture, planned consumption and participatory democracy." All of this points in the direction of ecosocialism. 103

Although still one of the world's largest polluters, the Chinese economy has made rapid ecological advances, in line with its goal—outside the capitalist framework—of promoting an ecological civilisation, a concept that originated with

China has set 2060 as its target to reach zero net carbon emissions.... It is the world's leader in solar power and in reforestation/afforestation. China protected its population from the COVID-19 pandemic, with 4 deaths per million versus 3,087 deaths per million in the US. With only 10 percent of the world's arable land and 20 percent of the global population, China currently produces 25 percent of the world's grain.

socialist environmentalists in the final decades of the Soviet Union, and that has now taken on Chinese characteristics. 104 Although still a developing country in the sense of having a low per capita income relative to the developed capitalist states, China has set 2060 as its target to reach zero net carbon emissions. Meanwhile, it has become the world leader in solar power—both production and consumption—and in reforestation/afforestation. China was able to protect

its population from the COVID-19 pandemic, with 4 deaths per million as of June 4, 2022, versus 3,087 deaths per million in the United States. With only 10 percent of the world's arable land and 20 percent of the global population,

The global struggle for sustainable human development can also be seen in places within the advanced capitalist core, including the United States, where considerable opposition is exhibited in some locations to the dominant logic of the political-economic system.

China currently produces 25 percent of the world's grain. In the decade from 2003 to 2013, China increased its total grain output by about 50 percent. Most farms are largely organised on a semicommunal, cooperative basis, with the land held in common and distributed among producers by the

community. From 2013 to 2019, the number of towns with supply-marketing cooperatives in rural China increased from

<sup>101 ← &</sup>quot;Notes from the Editors," Monthly Review 73, no. 4 (September 2021); "Soaring International Prices Aggravate Cuba's Food Crisis," Reuters, May 20, 2021.

<sup>102 ←</sup> Manolo de los Santos and Vijay Prashad, eds., Cuba's Revolution Today: Experiments in the Grip of Challenges, Monthly Review 73, no 8 (January 2022).

<sup>103 ←</sup> Ricardo Vaz, "Maduro Orders Asset Transfers as Grassroots Groups Aim to Boost Production," *Venezuela Analysis*, May 28, 2022; Pablo Gimenez (interview), "Venezuela: Fighting the Economic War 'People to People,'" *Venezuela Analysis*, October 29, 2019; Frederick B. Mills and William Camacaro, "Venezuela and the Battle Against Transgenic Seeds," *Venezuela Analysis*, December 11, 2013; John Bellamy Foster, "Chávez and the Communal State," *Monthly Review* 66, no. 11 (April 2015): 1–17; Chris Gilbert, "Red Current, Pink Tide," *Monthly Review* 73, no. 7 (December 2021): 29–38; Chris Gilbert, "A Commune Called *Che*," *Monthly Review* 73, no. 10 (March 2022): 28–38.

<sup>104 ←</sup> On ecological civilization, see Arthur Hanson, Ecological Civilization in the People's Republic of China: Values, Action and Future Needs (Manila: Asian Development Bank, 2019); John Bellamy Foster, Capitalism in the Anthropocene (New York: Monthly Review Press, 2022), 433–56.

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50 percent to 95 percent, as part of the revitalisation of the countryside, contributing to the elimination of extreme poverty in the country.<sup>105</sup>

The global struggle for sustainable human development can also be seen in places within the advanced capitalist core, including the United States, where considerable opposition is exhibited in some locations to the dominant logic of the political-economic system. Cooperation Jackson, based in Jackson, Mississippi, is engaged in a revolutionary, transformative project, as part of building ecosocialism, in order to protect and advance the survival of existing communities and to create an "ecologically regenerative," sustainable future. Kali Akuno, the co-founder and co-director of Cooperation Jackson, explains that the continuing realities of racial capitalism have led to extreme forms of inequality, control of knowledge by private capital, and uneven development, whereby Jackson, Mississippi, has largely been organised around resource extraction to serve capital accumulation for distant vested interests. This exploitative system "is rapidly destroying all of the vital, life giving and sustaining systems on our planet." Thus, it is urgent to forge an alternative productive system.

Through collectively organising, mobilising, and working with "structurally under- and unemployed sectors of the working class, particularly from Black and Latino communities," Cooperation Jackson seeks to "replace the current

Through self-organisation, self-determination, and self-management, human beings will gain social control over their productive lives, allowing them democratically and collectively to make decisions focused on how to meet human needs, rather than those of capital.

socio-economic system of exploitation, exclusion and the destruction of the environment with a proven democratic alternative." It promotes a radical form of social organisation built on equality, cooperation, worker democracy, and environmental sustainability, aimed at providing meaningful work through living-

wage jobs, while reducing racial and other inequities, and building the public wealth of the community. This is all seen as part of a "transition to ecosocialism." <sup>107</sup>

Cooperation Jackson has as its goal collectively owning and controlling the means of production. Akuno explains that this involves "control over processes of material exchange and energy transfer," including the "processes of distribution, consumption, and recycling and/or reuse" to ensure that the social metabolism operates within natural limits and advances "sustainability and environmental justice." 108 Through self-organisation, self-determination, and self-management, human beings will gain social control over their productive lives, allowing them democratically and collectively to make decisions focused on how to meet human needs, rather than those of capital. This approach serves as the basis on which to "upend" the dictates of the exploitive class-hierarchical system. It seeks to eliminate the artificial scarcity, rooted in waste, destruction, and inequality imposed by capital, generating the potential for abundance, while remaining "within ecological limits." Human interactions with nature need to be focused on conservation and

<sup>105 ←</sup> Joe Scholten, "How China Strengthened Food Security and Fought Poverty with State-Funded Cooperatives," *Multipolarista*, May 31, 2022; "Reported Cases and Deaths Per Country: COVID-19," Worldometer, accessed June 4, 2022; Liu Min and Hu Angang, "How China Became the World's Largest Contributor to Forest Growth," *China Environment News*, March 22, 2022; Barbara Finamore, *Will China Save the Planet*? (Cambridge: Polity, 2018); John Bellamy Foster, "The Earth-System Crisis and Ecological Civilization," *International Critical Thought* 7, no. 4 (2017): 449–53; Lau Kin Chi, Sit Tsui, and Yan Xiaohui, "Tracing a Trajectory of Hope in Rural Communities in China," *Monthly Review* 72, no. 5 (October 2020): 32–34; Lau Kin Chi, "Revisiting Collectivism and Rural Governance in China," *Monthly Review* 72, no. 5 (October 2020): 35–49.

<sup>106 ←</sup> Kali Akuno, "Build and Fight: The Program and Strategy of Cooperation Jackson," in Jackson Rising: The Struggle for Economic Democracy and Black Self-Determination in Jackson, Mississippi, ed. Kali Akuno and Ajamu Nangwaya (Wakefield, Québec: Daraja, 2017), 3, 11.

<sup>&</sup>lt;sup>107</sup> ← "About Us," Cooperation Jackson, accessed June 8, 2022; Akuno, "Build and Fight," 3.

<sup>108 ←</sup> Akuno, "Build and Fight," 4.

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"preservation of the environment and ecology," fixing and "repairing the damage done," while creating new efforts to "regenerate the bounty of life on our planet, in all its diversity." 109

Despite the extreme capitalism promoted by U.S. corporations, the wealthy, and the servile state, which constitutes its environment, Cooperation Jackson has begun and plans to implement a series of concrete, integrative projects that serve as the means to accomplish their larger goals. This includes forming a non-profit, community land trust, focused on removing as much land as possible from "the capitalist market," in order to "decommodify" it. Under these conditions, the community serves as the steward. It also establishes a basis with which to help block gentrification processes that have been premised on expanding capital accumulation at the expense of the local community. This revolutionary transformation involves creating an alternative currency, a system of mutual credit, and "community-controlled financial institutions ranging from lending circles to credit unions," in order to expand the overall capacity and support of citizens.

Building on these foundations, Cooperation Jackson has gone on to establish urban farm co-ops, a restaurant/grocery store, and a lawn-care team. Compost from the store and lawns is used as fertiliser on the farms, returning important

Cooperation Jackson can be regarded as a microcosm of ecological and social revolt, as part of the struggle for survival while advancing sustainable human development and ecosocialism.

nutrients to the soil as part of metabolic restoration. There are plans to create a series of cooperatives focused on housing, recycling, construction, child care, retrofitting homes, and solar energy. All of these efforts are organised as "non-reformist reforms" to improve the quality of people's lives,

expand the power of the citizens, and confront capital, by subverting its very logic and operations. The goal is to foster "the development of a non-capitalist alternative" that will "socialise every step of the productive process required to create, distribute, and recycle a product," forging "collective ownership and democratic management," and increasing "the effective scale and scope of the solidarity economy."<sup>110</sup> Rather than promoting fashionable ideas of "resilience," which fail to challenge the dominant system, Cooperation Jackson can be regarded as a microcosm of ecological and social revolt, as part of the struggle for survival while advancing sustainable human development and ecosocialism.

The most radical and comprehensive strategy with respect to the planetary ecological emergency emanating from North America is the Red Nation's The Red Deal: Indigenous Action to Save Our Earth. In the words of the Red Nation:

Rather than taking an explicitly conservationist approach, the Red Deal instead proposes a comprehensive, full-scale assault on capitalism, using Indigenous knowledge and tried-and-true methods of mass mobilisation as its ammunition.... We must be straightforward about what is necessary. If we want to survive, there are no incremental or "non-disruptive" ways to reduce emissions. Reconciliation with the ruling classes is out of the question. Market-based solutions must be abandoned. We have until 2050 to reach net-zero carbon emissions. That's it. Thirty years. The struggle for a carbon-free future can either lead to revolutionary transformation or much worse than what Marx and Engels imagined in 1848, when they forewarned that "the common ruin of the contending classes" was a likely scenario if the capitalist class was not overthrown. The common ruin of entire peoples, species, landscapes, grasslands, waterways, oceans, and forests—which has been well underway for centuries—has intensified more in the last three decades than in all of human existence.<sup>111</sup>

<sup>109 ←</sup> Akuno, "Build and Fight," 5–7. On human needs versus capital needs, see Michael A. Lebowitz, Build It Now (New York: Monthly Review Press, 2006).

<sup>&</sup>lt;sup>110</sup> ← Akuno, "Build and Fight," 15–29.

<sup>111 ←</sup> Red Nation, The Red Deal (Brooklyn, New York: Common Notion

Survival in these terms requires the growth of what could be called an environmental proletariat, bringing together the global revolt against the capitalist expropriation of nature and exploitation of labor, thereby uniting the struggles over the

[Survival] means learning from Indigenous, colonised, and historically enslaved peoples while embracing issues of social reproduction.... this struggle can only succeed in the end if it takes the form of a revolutionary transformation directed at the creation of a socialist ecological civilisation.

economy and the earth. This means learning from Indigenous, colonised, and historically enslaved peoples while embracing issues of social reproduction. A revolt by the world's environmental proletariat conceived in these terms, in which hundreds of millions, even billions, of people will inevitably take part, is destined to come about in the coming decades as a result of the struggle for

ecological survival. It will lead to new microcosms of existence and an assault on the macrocosm of capital and its state. But this struggle can only succeed in the end if it takes the form of a revolutionary transformation directed at the creation of a socialist ecological civilisation, drawing on the rich reservoirs of human knowledge and community. In the words of the great Irish revolutionary James Connolly: "We only want THE EARTH."<sup>112</sup>

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<sup>112 -</sup> James Connolly, Songs of Freedom: The James Connolly Songbook (Oakland: PM, 2013), 59

- About Jus Semper: The Jus Semper Global Alliance aims to contribute to achieving a sustainable ethos of social justice in the world, where all communities live in truly democratic environments that provide full enjoyment of human rights and sustainable living standards in accordance with human dignity. To accomplish this, it contributes to the liberalisation of the democratic institutions of society that have been captured by the owners of the market. With that purpose, it is devoted to research and analysis to provoke the awareness and critical thinking to generate ideas for a transformative vision to materialise the truly democratic and sustainable paradigm of People and Planet and NOT of the market.
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