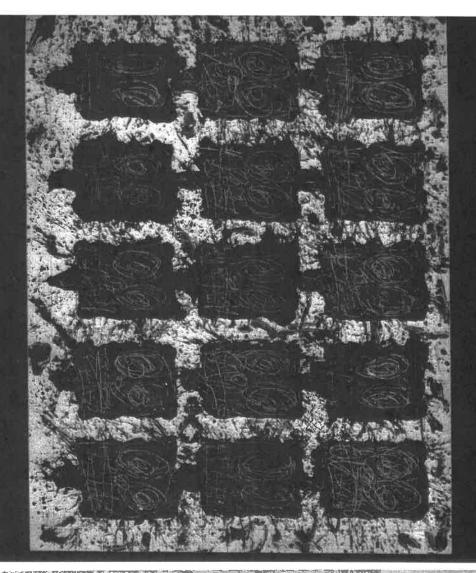
# Crisis Under Critique

HOW PEOPLE ASSESS, TRANSFORM, AND RESPOND TO CRITICAL SITUATIONS



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Toward a Theory of Climate Praxis

Confronting Climate Change in a World of Struggle

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limate changes everything. Climate changes nothing.

In New York, Hurricane Sandy was supposed to prompt a revolution in climate politics; instead, powerful actors, residents slammed
by the storm, and community organizers interpreted the storm in terms of
long-familiar frameworks and struggles. The island of St. Croix is vulnerable to
sca-level rise and was recently battered by giant hurricanes. Facing up to these
rising storms, St. Croix now debates whether to retrofit and reopen an obsolete oil refinery because that's the only revenue source capable of bankrolling the
'investments in climate resiliency now desperately needed. Our fieldwork on the
aftermath of these hurricanes, in two very different places, suggests that people's
reactions are more complex than either end of a simple climate binary.

On the one hand, progressive scholars and activists see climate change as a fundamental break with everything that came before, tilting life into an imbalance for which there is no precedent and no guardrails (McNeill and Engelke 2016; Archer 2011). It is a revolution already under way, with dramatically positive or negative potential, depending on the scholar's mood. On the other hand, progressive scholars and activists see climate change primarily as accentuating existing structures of dispossession. In its scientific diagnosis, forecasted impact, and proffered solutions, climate change is the logical outcome of historical projects of profit and power, and it should be confronted as such (Welzer 2011; Patel and Moore 2017; Estes 2019).

We want to home in on a key tension between these dynamics. For a personand a scholar—to absorb and understand the basics of climate science means recognizing that the world has irrevocably changed and will continue to do so.

ruptures, but those ruptures will be shaped by complex interactions. ments, and so on. Responses to worsening climate change are likely to lead to intersects with already existing structures, cultural frameworks, power arrangeity-primarily the combustion of fossil fuels-are the cause of climate breakdown And yet, in the social world there is never a "pure" climate politics; politics always story of cause and effect: greenhouse gas emissions resulting from human activ-(We still believe the worst can be prevented.) In turn, that recognition implies a

it is never about climate alone. climate praxis, remembering that while climate changes everything (Klein 2014), by hurricanes worsened by climate change, to start sketching a concept we call in this chapter is to use fieldwork from two different sites, each impacted of late change's interconnections with other issues and how they act on them. Our aim weather-will play the decisive role in shaping how people understand climate symbol systems, lawlike economic tendencies, or behavior responses to extreme Here, we believe that protracted political struggle-rather than, say, cultural

obtain indefinitely. layered prior projects, such that the path dependencies of climate politics will ingly foreground climate crisis. But this change will always occur on the basis of on needs and normative goals. We expect these efforts to change and to increasclimate impacts in the course of long-standing efforts to change the world based We seek to emphasize how situated individuals and groups grapple with

engaged politics. ture conversations that can lead to better theory, new research needs, and more change always draw on longer histories of dispossession. Our goal is to struc-Second, we examine the contested ways in which situated reactions to climate and enormity and by tying it down to longer-standing frameworks and struggles. existential threat seek to domesticate it by downplaying some of its specificities engage in climate praxis. First, we show how people coping with climate change's we sketch two particular ways in which political struggle informs how people Based on fieldwork in New York and in St. Croix on the U.S. Virgin Islands,

intrinsic social and cultural resource for "good" politics, without attending to mism of many social scientists and humanists who find in ordinary people an 2008). But in this chapter, we also want to push back against the inverse optiinstruments (Shellenberger and Nordhaus 2007; Gould, Pellow, and Schnaiberg by simply coordinating an inevitable shift to green technologies and financial produce sufficient decarbonization and adaptation through technocratic means, that states, nongovernmental organizations (NGOs), and corporate elites will We have never been convinced by the optimism of "ecomodernism," the view

> relation to the crisis to come. We do see grounds for hope in bottom-up politics, depend on forms of democratic control over major investment flows institutions and essentializes how people intrinsically are (whatever that is) in concrete economic, geographical, racial, or institutional specificities. The myopic but that comes through messy, pragmatic political organizing and will ultimately focus on everyday people's powers of good ignores the political economy and

of dissent (Bond 2017). Because of his research and the circulation of his findings refinery and petrochemical plant in the Western Hemisphere, as an example of 2010 and 2011, Bond began a historical ethnography on what was once the largest to join with residents working to oppose the reopening of the refineries and to among advocacy groups on St. Croix, Bond was invited back to the island in 2019 how oil refining helped define the modern Caribbean and its ecological points continued to conduct fieldwork and interviews on the city's climate politics. In by the storm (several people belonged to more than one group). Cohen has since responders, 10 community-based organizations, 37 volunteer responders like the New York after Sandy, Cohen and colleagues founded the Superstorm Research and St. Croix during the 2010s, which were years of multiple brutal storms. In charged hurricanes: New York City in the aftermath of 2012's Hurricane Sandy, work to envision alternative futures Occupy Sandy activist network, and 17 ordinary New Yorkers directly affected included interviews with a cross section of 75 New Yorkers-18 elite disaster Lab at New York University to track the storm's aftermath. Their research in two different places whose politics were convulsed by climate breakdown-We have collaborated to think through fieldwork that each of us has conducted And we see this basic set of dynamics operating across a wide range of contexts

# ONE CRISIS TO RULE THEM ALL:

the globally advertised American way of life, it is clear that certain patterned climate change remain in the future-projected sea-level rises and diminishing megacities, torched landscapes, and coastal communities, the greatest impacts of trously apparent in places like shallow atolls, densely populated deltas, parched that fostered the social forms of contemporary life and perhaps human life at human activities tilt the stability of the earth's systems beyond the conditions Whether by ecological colonialism, petrocapitalism, thermonuclear statecraft, or Climate conditions life. As climate comes undone, will life come undone as well? large. While the impacts of climate change are already under way and disas-

the climate crisis can claim to be the greatest crisis of all. returns on maps and charts. It is on the authority of predicted future changes that

on power-laden projects of "anticipatory ruination" (Paprocki 2019; see also Cohen 2021). institutions are reshaping the futures of whole countries, like Bangladesh, based McNeill 2007, 614).1 Based in part on this science, economists and development support system," in the words of leading climate scholars (Steffen, Crutzen, and has marked the future as an "unintended experiment of mankind on its own life other crises shrink in comparison. For earth system scientists, climate change of the contemporary world around a new recognition and reckoning: the planetary tenets of precarious life. The climate emergency is simply so enormous that light onto history." In so doing, climate refracts and recenters the defining crises Malm (2016, 4) has written, "Global warming is a sun mercilessly projecting a new and within the presumption of enlightened progress. As the historian Andreas and authority, within liberal institutions of state sovereignty and free markets, tural fractures and built-in blind spots within historical projects of accumulation In light of those expected changes, climate breakdown highlights the struc-

benign state that has never existed. to modelling planetary collapse. Climate science often presumes a powerful, the view of this infrastructure has shifted from monitoring planetary fallout replaced thermonuclear holocaust as the primary means of mass destruction. of the Cold War (Edwards 2010; Lepore 2017). Yet as automobile railpipes have lem, climate change came into existence through the analytical infrastructure pline born and raised within the halls of state power. As a measurable probmethods and the regulatory taming of its inquiry, climate science is a disciway. Yet this science is far from disinterested. In the political history of its climate change comes through the substantial mediation of climate science (Callison 2014). Climate science has a privileged view on the changes under to fully grasp at the scale of human experience (Norgaard 2011; Hulme 2009; over such sweeping temporalities and geographies as to be nearly impossible inequality, racism, or even the Covid-19 pandemic, climate change unfolds Jamieson 2014). So much of what we know and how we've come to experience strikers and critical theorists, climate is a curious crisis. Unlike the crises of Yet even as climate breakdown captures the imagination of young school

creates the illusion of clear climate opinion. On the ground, however, we have not guess this from public opinion polls, whose multiple-choice methodology remote from many people's everyday struggles, difficult to grasp. One might Meanwhile, we will show how the definition of climate change remains

> morality tales. open-ended question on climate, they respond in all manner of complex ways, invoking narratives that range from inevitable human apocalypse to real estate found that when people working in the shadow of extreme weather receive an

irrefutable call to arms.2 disasters, massively disruptive events whose wreckage of human lives offers an a revolution occasioned by planetary necessity, rather than arising from historic entists (and social theorists and activists), their scientific forecasts are ultimately stituting a decade of "Herculean efforts" (Rockström et al. 2017). For many sci-2009); they call for unprecedented, "rapid decarbonization," with the 2020s conaries" that are being trespassed without regard (Rockström, Steffen, and Noone present based on their forecasts of the future. They delineate "planetary boundstruggle, climate scientists frequently make some of the boldest demands of the change as they understand it. Paradoxically, despite their remove from social play those myriad, messy ways in which struggling people grapple with climate as scientific reports, public relations strategies, and media frameworks, all downmomentum. Nothing would bring this revolution about like concrete weather The prevailing scientific discourses of climate change, in their social existence

depth of scientific consensus on just how devastating climate breakdown will struggles for climate justice can link up or decouple around a rising regime of in New York City after Hurricane Sandy and at environmental justice in St. mitted magically from below. Our capsule case studies, which look at housing tative models of earth system science-or from a simple moral upswell transbe. But we doubt that the needed change will flow logically from the quanti-Croix after Hurricane Maria, show how struggles for practical justice and We sympathize with the call for transformative politics. We recognize the

### HOW CLIMATE CHANGE ROILS AMIDST PREEXISTING **OUTLOOKS AND PRACTICES**

tic City, before smashing into New York and devastating the coasts north and damage in Haiti. It was the first time since Hurricane Katrina had ravaged New south. The storm also tore through the Caribbean, wreaking especially fierce On October 28, 2012, Hurricane Sandy made landfall near New Jersey's Atlan-States. Sandy landed just days before a presidential election; the occasional Orleans in 2005, seven years earlier, that such a fierce storm had hit the United

network reemerged as Occupy Sandy, coordinating tens of thousands of volunstreets of New York, the Occupy Wall Street movement was roughly a year old; teer storm responders. in abeyance, but with its networks still strong. In the storm's aftermath, that mayor-just enough time to revive his legacy as a climate champion. And on the Michael Bloomberg still had fourteen months in his mandate as New York City's climate champion Barack Obama was running for a second term. The billionaire

shed its abstractions and feel visceral and effect, climate breakdown and the fossil fuel systems that caused it-systems that needed to be wound down. This was a moment when climate science could an unprecedented reckoning with climate change. It was a chance to link cause postindustrial city pushed from the political realm above and activists below into dy's aftermath had the chance to be something different: the story of a wealthy If Katrina's aftermath had become a story of American racial inequalities, San-

power to their cold, darkened towns and cities. Ask the entire northeast coast' steps," he wrote. "Ask the local governments struggling weeks later to turn or (Hansen 2012) illustration of the power that climate change can deliver—today—to our doormon sense of many climate advocates at the time: the hurricane was "a stark the Guardian, asserting what he presumed to be obvious and reflecting the comclimate scientist James Hansen echoed Bloomberg's headline with a column in Businessweek ran a notorious cover headline, "Ir's Global Warming, Stupid." The every level of government, was finally at hand. Just after the storm, Bloomberg boosted his reelection effort—and hopes that a new round of climate policy, at By all accounts, the Obama administration's competent response to the storm Republican governor Chris Christie during a joint tour of federal relief efforts who largely avoided partisan politics. Obama was also embraced by New Jersey's change; this endorsement provided a coveted last-minute boost from a centrist Bloomberg endorsed Obama, citing the latter's potential to tackle climate Certainly, climate was prominent in the public discourse. Just after the storm

with relief. the specific climate dimension of the storm (Cohen 2021). And none scemed 2013). They found something else: an ambivalence that accepted-but trivializedcoast, but they did interview dozens of people in New York who were affected less interested by the storm or were working on reconstruction (Superstorm Research Lab Cohen and the Superstorm Research Lab did not ask the entire northeast in climate change's causes than senior bureaucrats charged

> to climate change, said: As one senior disaster recovery official, prompted to speak on the storm's link

climate change, there probably is. Do I know the impact that it has on my city. (Cohen 2021, 693) in front of me and prepare for whatever emergency that's going to hit the my plans I don't look at it that way. My job is to deal with the facts that are manager? I'm from the old school. And so until someone can tell me that city? Yes, I see it physically. But what does it mean to me as an emergency pened in the last 50 to 100 years? Absolutely. . . . So is there such a thing as this thing climate is actually-it's real and how do I incorporate that into Have we begun to see weather have impact and effects which have not hap-

prepared, bottom-line, when the next storm hits."3 smart, we'll come up with plans that are actionable . . . [so] we can be better it comes to climate change . . . forward-looking resiliency moves. . . . If we're Most of the disaster relief officials that we spoke to echoed this view. As another senior official put it, the city needed a "forward-looking strategy when

preexisting moral and political commitments. natural disasters, most New Yorkers we spoke to situated Sandy's strangeness referred exclusively to adaptation and fortification; of the minority who menencountered people who seemed to be trying to domesticate climate change into ordinary New Yorkers, those struggles were more diverse. The lab consistently community group leaders, volunteer relief workers linked to Occupy Sandy, and lives. For disaster officials, the familiar struggle was disaster preparedness. For in the familiar philosophical and material struggles that shaped their everyday ous example of the cause-and-effect relationship between carbon emissions and progress there. While climate scientists like Hansen took Sandy to be an obvitioned decarbonization, only one expressed confidence that the city would make For virtually every disaster official we spoke to, forward-looking policy

totally ignore. I mean Europe is waking up to it. planet. . . . We have this amazing sun that shines on us every single day that we do is start immediately looking into renewable, renewable ways of energizing our to bring fracked gas into New York. She said, "Well I mean the best that we can Sandy activist group. That activist was already organizing against a new pipeline links were smooth. Take one of the volunteer disaster responders in the Occupy When those prior commitments included climate activism or organizing, the

to, we're not going to try to prevent it because it's all over. situations when it comes to climate change where we say well, we're not going saw a clear path to effective action, saying, "You know... we should never be in begin assembling the whole diaspora around a common vision. Garden Acosta nity organizers from Puerto Rican communities across the United States, to sion to cite him directly.) For him, the storm was the occasion to plan a Latino climate issues he had long organized around. (Garden Acosta gave us permis-Climate Action Summit, hosted in Puerto Rico, to draw activists and commuin Brooklyn's South Williamsburg neighborhood, likewise connected Sandy to the director of El Puente, an environmental justice-focused community group Luís Garden Acosta, a longtime Puerto Rican social justice organizer and

but, you know, some of us will try." and, you know, a disaster like this, et cetera. I don't know that that will happen to see come out of anything related to Occupy. In relation to climate change something has the stamp Occupy on it, those are the characteristics I would like engage in reclamation of the common projects. . . . That's what I see as like, if a decade of her life organizing in solidarity with Palestinians and then particiant. But, she said, "the real ideal would be that these [activist] networks would pated in Occupy Wall Street, agreed that better climate policies were importfrom the specifics of climate change. One Occupy Sandy activist, who had spent Activists who had worked in other spheres, however, often abstracted away

precisely would decarbonization achieve for these public housing residents in the visible mold before Sandy (Alliance for a Just Rebuilding et al. 2014, 2). What water's edge had visible mold after Sandy; but 35 percent of those units had had a solitary event from which one could cleanly recover (Cohen and Liboiron 2014) found that 44 percent of surveyed public housing households located near the And with good reason. One poststorm study by a number of housing groups sense that it exacerbated long-running inequalities in the city, rather than being For most community group leaders and activists, Sandy was a crisis in the

But there was more than pragmatism at work. At times, respondents spoke in a way suggesting that climate's threat was just too overwhelming to handle. pull them away from what was dearest in their activism: bottom-up mutual aid Indeed, many seemed afraid that climate change as a topic of struggle would

school, change their neighborhood, and so the climate change—you know, I guess know our programs are mostly around helping young people get jobs, get into A prominent civil society organizer in Red Hook neighborhood said,

> of the homes are multifamily apartment buildings and there is a lot of public are we going to do? We're going to put the houses on stilts?" In Red Hook, most what can you do? Aren't we just fucked? [Laughs]. I mean in Red Hook, what in terms of some sort of neighborhood rebuilding, but again I don't know. I mean housing-not the kind of home that can be elevated on stilts.

ultimately a story about inequality—and in a way that was almost paralyzing: political visions. One Occupy Sandy organizer insisted that climate change was Other activists also revealed apocalyptic fears, albeit in the context of other

don't know. It's terrifying to me reversible at this point? Do you know what I'm saying? Not that that should know, like sometimes I wonder about the climate change thing. Is it even the people who don't have the money and the means, you know? And you because the people that are going to suffer the most with climate change are just be like, "Well fuck it, let's just do whatever we want." But it's kind of—I know what I'm saying? And so that to me is connected to climate change It's like people who have means—they have means to get out of a flood. You

the end of the world than the end of capitalism." inequalities. As Fredric Jameson (2003, 76) once remarked, "It's easier to imagine to politicize climate change, it might have an opposite effect: linking the challenge of "reversing" climate change to the seemingly impossible task of reversing While many climate activists see linking climate to inequality as a fruitful way

Yorker badly hit by the storm said. equate to capture reflection about humans' relationship to nature. One New Certainly, for some respondents the language of climate change seemed inad-

my husband kept talking about global warming and a lot of people blame what we're dealing with. I didn't care about whose fault it was or whatever to place the blame anywhere. All I look at is what's in front of me. This is to manipulate nature and do different, things happened then. So, I don't look many things to alter nature and alter the outcome. I don't know because I out of sync with how nature says they should go, because man has done so the things that happen now, like when things happen or when things are my biggest concern was what are we going to do from here know before global warming occurred, or before man sort of had the power You know what it could be, it could be a manmade disaster because people,

tional discourses found people acknowledging climate while settling into more familiar, founda-Far from Hansen's prediction that Sandy exemplified climate change, we

about climate change with reference to housing ing construction. Repeatedly, interviewees across categories answered questions postdisaster struggles quickly turned into battles over the terms of new build itics of redevelopment (Greenberg 2014); community groups often found that to Sandy not just in terms of repairing that damage, but more broadly as a polthat so many experienced Sandy. And Bloomberg framed much of the response over a century (Plunz 2016). It was through damage—or destruction—of homes wasn't new. Housing precarity has defined the lives of most New Yorkers for well agery of housing inequalities was a bit like the empire come home. And this Bloomberg era, gentrification often evoked the specter of colonialism; the savbuilt environment, and the potential source of eviction and foreclosure. In the many New York fortunes, the economic sector that literally shaped the city's on New Yorkers' minds was housing and real estate. These were the source of One concrete, everyday issue in New York that has an almost existential hold

know if these things can be reversed, but at least, like, mitigated or slowed down emissions and all that thing and renewable energies, which sounds really good edge of a beach or whatever." Another affected resident likewise urged relocation: That would probably be a good idea. I don't know." I don't see it happening unfortunately. That's probably the only way to, I don't "Move to higher ground. I don't know. I mean I know that, you know, there's CO2 shouldn't be in certain places as human beings. Maybe we don't need to be on the out some flooded homeowners. The respondent approved of giving some neighborhoods "back to nature [to] protect other properties further in. . . . Maybe we Sandy's devastation, raised New York governor Andrew Cuomo's idea of buying One respondent, when asked what could be done to prevent a recurrence of

talked to who they're like, 'I never want to swim out of my house again.' " back in my home. I need to, like, get a sense of normalcy. But I can't do it again. tered "anxiety around elevating [their homes] or not. So it's like, 'I need to be of thousands of dollars to elevate their home. The organizer said they encoun-And there are people who are leaving. There are a number of people who I've mandate that people living in the most flood-vulnerable areas should spend tens organized with were agonizing mostly about their housing, including the new One organizer with Occupy Sandy reported that the affected residents they

on fieldwork in a poor, heavily contaminated neighborhood on the edge of The sociologists Javier Auyero and Debora Swistun (2008) have argued, based

> to situate in more familiar, already existing frameworks and habits. sive disruption seemed to collide with this dynamic—the storm was simply easier habits than to troubling but uncertain new information. After Sandy, even maspoisoning because of "relational anchoring"; they cathect more to long-standing Buenos Aires, that people often struggle to confront the facts about their own

redevelopment (Graham, Debucquoy, and Anguelovski 2016; Greenberg 2014). everyday concerns, there was little impetus for a larger conversation about carand people on the ground wrestling the storm into more familiar narratives and defensive fortification, prompting localized political fights over the details of months of their term (Cohen 2021). With public investments directed toward bon and energy systems. administrators focused almost entirely on adaptation for the remaining fourteen energy efficiency requirements that had stagnated before Sandy. After the storm, away from low-carbon policy efforts like reducing car use and tightening building focus partly reflected the fact that the Bloomberg administration likewise pivoted than demanding more aggressive decarbonization (Cohen 2021). No doubt, this channeling funds for adaptation and rebuilding in an equitable manner, rather environmental justice groups focused almost exclusively in Sandy's aftermath on of climate policy. And yet in a kind of "selective continuity," housing, labor, and To be sure, many organized civil society groups grappled with the specifics

relationship to nature) that were beyond the reach of really existing everyday into a low-carbon mobilization. But these politics were neither inevitable-nor nor the climate scientists' discourse about it, could turn post-Sandy politics do with decarbonization (Cohen 2021). In that context, neither the storm itself funding from all levels of government for relief and reconstruction had little to politics. To a large extent, this tendency reflected the fact that major public existing struggles, and in part relegated to transcendent narratives (humans lab spoke with, the idea of climate change was in part incorporated into already escence (Swyngedouw 2011). Rather, across the categories of New Yorkers the .. This was not a case of pure "postpolitical" technocracy and/or popular acqui-

head Bay Yacht Club in South Brooklyn to observe an evening of Occupy paper masking-taped to the walls. Many drank cheap beer from glass bottles bars. Using bright markers, activists wrote ideas on large pieces of butcher of a dimly lit bar and dining area that looked like countless of American dive activism. This was not a conventional "yacht club." The clubhouse consisted Sandy activists reflecting on what they had-and had not-achieved in their Just seven and a half months after Sandy hit, Cohen went to the Sheeps-

For Cohen, the most striking pattern to emerge from the self-critique was the number of activists who said they wished that during their everyday volunteer relief work they had organized more around, and talked more about, climate change and climate politics.

Soon, they would. In 2014, the United Nations secretary general Ban Ki-moon planned a climate summit to take place in September. Progressive groups from across civil society, including Occupy Sandy organizers and environmental justice groups whose members had been hit hard by the storm, organized a massive march to coincide with the event. New York's new mayor, Bill de Blasio, sought to distinguish himself from Bloomberg. On the eve of the summit, he released a more aggressive decarbonization plan. On September 21, over 400,000 people walked the city's streets in the People's Climate March. The demands were vague—largely centered on green jobs and investing in vulnerable communities. But in the march's aftermath, key organizers in the city decided that de Blasio's homization, but in a way that protected low-income tenants and created jobs for working-class communities of color.

the bill: a leader from a municipal union (DC-37), the director of a labor and then cited three supporters who were in the balcony, the political muscle behind grandchildren would demand real action. But perhaps most importantly, he map" by unchecked climate change, and he noted that his children and (future) able." He went on to cite the city neighborhoods that would be "wiped off the the bill, "We have ensured that this does not fall on the backs of the most vulnerwould have facilitated rent increases. As Constantanides said while introducing ital improvements" clauses in rent-regulated and senior-assisted housing that crafted by City Councilor Costa Constantanides to avoid triggering "major capers. Indeed, the housing movement support was key. The bill was specifically council, sitting in the balcony with housing and environmental justice organizopposed by the city's powerful real estate industry. Cohen attended the vote in activist and grassroots pressure that pushed city councilors to approve a bill uneven campaign, the city council passed the New York Climate Mobilization Act, likely the country's most aggressive low-carbon buildings bill, thanks to icy itself had little to do with recovery from Sandy. In April 2019, after a long, even though the coalition formed almost two years after the storm and the polcampaign's leaders referred constantly to Sandy to explain and justify the policy, proposed low-carbon buildings bill that would avoid displacing tenants. The housing justice groups, and environmental justice advocates, formed around a The Climate Works for All coalition, composed of progressives, labor groups,

economic justice nonprofit (Align), and the climate organizer of a housing and racial justice movement (New York Communities for Change).

It was not climate scientists—or climate economists—who framed the winning arguments. Rather, it was political organizers and their elected allies who had found a way to situate climate change in everyday struggles over rent and had found a way to situate climate change in everyday struggles over rent and comployment. The climate praxis found after the storm, and in the legislative campaign that followed, was never automatic or cleanly shaped. New Yorkers also paign that followed, was never automatic or cleanly shaped. New Yorkers also paign that followed, was never automatic or cleanly shaped. New Yorkers also paign that followed gas pipelines. While the city's financial industry funded a handful of contested gas pipelines. While the city's cultural institutions benefossil fuel extraction around the world and the city's cultural institutions benefited from the philanthropy of major oil executives (Cohen 2016), the city escaped the kind of visceral petro-cum-climate politics found in St. Croix, where a major oil refinery long dominated the island's economy. To grapple with these politics, we widen the lens for a more encompassing view.

# HOW CLIMATE CHANGE DRAWS IN LONGER HISTORIES OF DISPOSSESSION

In the summer of 2011, the Hovensa refinery on St. Croix broke down in spectacular fashion. That summer explosions rattled the neighborhoods around the refinery as black smoke draped the verdant landscape in what looked like sooty cloaks. Explosion after explosion was followed by emergency warnings to shelter indoors, and refinery employees in hazmat suits went door to door to skim the oily surface off residential rain catchment basins.

Built in 1967, the Hovensa refinery soon became the largest oil refinery and Built in 1967, the Hovensa refinery soon became the largest oil refinery and petrochemical plant in the world, an imperial feat that unfolded under the radar petrochemical plant in the world, an imperial feat that unfolded under the radar petrochemical plant in the world, an imperial feat that unfolded under the radar petrochemical plant in the wider Caribbean. As students and of popular and scholarly considerations of the wider Caribbean and the largest site making of the region, huge oil refineries such as Hovensa became the largest site making of the region's primary employers. Bond's research unpacked this neglected one of the region's primary employers. Bond's research unpacked this neglected history, charting how entrepôt oil refining advanced a new geography of U.S. history, charting how entrepôt oil refining advanced a new geography of U.S.

(Bond 2017).

During its heyday, Hovensa generated enough revenue to transform the During its heyday, Hovensa generated enough revenue to transform the modest island of St. Croix into a paragon petrostate. On paper, the economy modest island of St. Croix into a paragon petrostate. On paper, the economy flourished as the territorial government was flush with refinery tariffs, almost

evening parties that flowed with booze and lavish meals. even as several joined with executive staff from the refinery at tropically themed long-standing practices of deferred maintenance and questionable shortcuts, gathered injuries—into unsettling focus. As explosions continued, Environmental Protection Agency (EPA) investigators were sent in. They soon uncovered 2011 helped bring Hovensa's imperial place on the island—its exported profits and the case, such fiscal wealth came at tremendous ecological cost. The explosions of magically able to hire its way through every economic downturn. As is so often

beyond repair." lines were leaking, and by 2005 the refinery concluded they were "deteriorated internal investigation in 2001 revealed that 95 percent of the waste-stream pipeinto a shockingly large plume of petrochemicals flowing from the refinery. An hit it big until the dismal reality of the situation became clear: they had tapped geyser of crude oil shot out of the hole they were digging. They thought they'd one point, construction workers on the south shore stood back in surprise as a ical slick some ten feet thick floating on top of the island's only aquifer. At of petrochemicals had leaked from these pipelines and formed a petrochemrusting almost immediately. In 1982, the refinery estimated that 300,000 barrels ter, the entire waste stream was buried in the salty sand. The pipelines started Comprising six miles of cast iron pipeline, some up to thirty inches in diameground. Every pipeline that carried waste products was installed below ground. explained to Bond, "Every pipeline carrying a saleable product was built above Contamination, it turns out, was built into the design. As one investigator

decades of quiet neglect. what had been uncovered, he was shouted off the stage by residents furious over now readily detected in homes and neighborhoods along the south shore of St. Croix. When an EPA official came to St. Croix in 2011 to address the severity of the plume was nowhere in sight. Carcinogenic vapors from petrochemicals are amount four times the size of the Exxon Valdez spill-yet the remediation of 1 million barrels of oil had been extracted from the plume beneath the plant-an Yet the refinery continued to operate as if nothing were amiss. By 2010, over

vater from cisterns, and of flushing mercury down the drain into a bay still popional ease and corporate returns. Workers told Bond stories of venting benzene iable history of disregard, Hovensa agreed to settle with the EPA in 2011. The ular among local fishermen. Facing potentially record-breaking fines for this under the cover of night on an island where residents still get their drinking shoddy practices that routinely sacrificed public health on the altar of opera-Beyond corroded infrastructure, investigators also uncovered a history of

> substantial investments in public health on St. Croix (including a cancer register \$700 million to extensive remediation, state-of-the-art pollution controls, and refinery agreed to pay a \$5.3 million fine, and, in lieu of penalties, committed largest on record for a refinery in the United States. to investigate residents' worst suspicions). At the time, this settlement was the

up its own mess but also compelled draconian cuts to the territorial government in February 2012. This action not only sidestepped its legal obligation to clean of St. Croix, the governor of the U.S. Virgin Islands said at the time, forcing cuts get disappeared in an instant. The closed refinery had "shaken the foundations" on St. Croix. "But," he added, "it has only been a year." commissioner testified his surprise that there hadn't been a complete meltdown highest homicide rate in the world). One year out, the U.S. Virgin Islands labor rates on St. Croix rose substantially as theft and assault became commonplace tricity and gasoline rates) as the state's governing capacity hemorrhaged. Crime 20 percent and energy costs skyrocketed (the refinery had long subsidized electhat were nothing short of "catastrophic." Unemployment soon shot up to nearly budget. When the refinery shut its doors, 20 percent of the territory's annual bud-(a United Nations report notes that the U.S. Virgin Islands now has the fourth After finalizing the settlement, Hovensa shut down and filed for bankruptcy

considerable damage. Two weeks later, a second Category 5 hurricane slammed edented Category 5 hurricane brushed up against St. Croix in 2017, causing sion lines were destroyed. The back-to-back superstorms inflicted "widespread obliterating most public infrastructure. Ninety percent of all electrical transmisdirectly into St. Croix, leaving nearly every building on the island in tatters and away roughly one in ten jobs on the island and hacked an already emaciated pubcatastrophic damage," as the National Oceanic and Atmospheric Administration recovery remain a fading promise in this Caribbean territory. The plight of St gotiate its debt obligations. Three years on, congressionally allocated funds for and beyond bankrupt, unable to secure aid to meet its dire need or able to renethe closure of the refinery. The territorial government found itself downgraded lic purse in half. Unemployment claims spiked to twice their previous high point: (NOAA) put it, and uninsured damages exceeded \$7 billion. The hurricanes blew Croix clarifies exactly what "colonial" means in the present tense. Catastrophe built on catastrophe. With St. Croix still in a tailspin, an unprec-

enthusiasm was clear: the Caribbean was poised to become the premier laboratory spoke of weaning themselves off fossil fuels and building green economics. The Caribbean nations gathered to discuss climate resilience in the region. Many In 2018, a year after one of the worst hurricane seasons in recorded history,

for redesigning societies beyond oil. Then the U.S. Virgin Islands stepped on stage. Their plans for climate resiliency pivoted on one idea: restart the refinery. When pushed, officials spoke about the rising challenges and costs that climate change was bringing to the island with storms like Hurricane Irma and Maria. How could the territorial government bear these costs without the refinery? The oil industry may be morally bankrupt and complicit in the coming catastrophe, but who else is still capable of paying the bills?

to double down on the fiscal promise of oil. EPA was clear: to survive the turbulence of climate change, we have no choice but aftermath of Hurricanes Irma and Maria" (EPA 2017, 1). The advice from Trump's something "especially important for the recovery of the US Virgin Islands in the nificantly benefit the economic health and well-being of the US Virgin Islands," "understands that restarting the operations at the former Hovensa site would signally negligent-oil refineries in the world. The EPA, one senior official wrote, of the EPA was restarting one of the largest and dirtiest-indeed, most crimithe refinery to install air-monitoring equipment. In 2020, the overriding priority EPA grants appeared to use taxpayer funds to supplement the legal obligations of waste streams or the petrochemical contamination of the island. Indeed, recent intent on ensuring that the new owners need not address the built-in flaws in the environmental enforcement (Hiar 2019, 1). In this statement, the EPA seemed senior EPA official, offers "a pilot for a broader customer liaison concept" in for corporations. Assisting the new owners with "anything they need," wrote one showcase wider efforts to remake environmental protections as customer service emails, "is receiving high visibility inside the beltway" in DC and is being used to tions around restarting the refinery, according to recently disclosed internal EPA ers of any responsibility for the legacy of contamination. The ongoing negotiaof the refinery with generous tax breaks and promises to absolve the new own-Over the past two years, the territorial government has facilitated the sale

When Bond visited St. Croix in the summer of 2019, the island still bore the impact of the superstorms. Tattered blue tarps fluttered atop buildings. Many former homes and businesses still lay in a mess of rubble and fallen trees, while whole sections of the main towns remained boarded up. Hurricane Maria destroyed eight of the thirteen public schools on St. Croix. Some three years later, reopening them remains a distant event. The sole hospital on the island now operates in patched-together units and temporary modules as the main building stands condemned, its roof leaking and the hallways overtaken with mold. A replacement hospital has been promised for years now, but construction is ever deferred. Medical care has been reduced to triage and basic care. Most everything

else is referred to Puerto Rico or Florida. The island continues to lose residents Those who remain wait on promises still receding.

The refinery, however, is abuzz with activity. Bond watched as piles of equipment twisted and broken in the storm were bulldozed to one side while a man camp had been set up to house the thousand workers from Texas and Louisiana tasked with getting the refinery operational again. Locals were promised jobs in the rebuilding project, but so far the only work to be found was providing menial services to the man camp in the evenings and on weekends. No one is entirely certain about the current levels of pollution around the refinery, as most of the environmental monitoring equipment stopped working when the hurricane hit.

In June 2019, local environmental and civic leaders gathered to discuss the urgent necessity of rebuilding St. Croix. One of the aims of this convening was to envision an energy system on St. Croix that was accountable to people and the earth. The organizers asked if Bond might join them to share his historical research on the refinery. They came together for two days at the still-shuttered Carambola Resort, with tarps stapled on damaged roofs and a beachside pool still full of debris. For many residents, the environmental injustice of the refinery and arrival of new superstorms were not unrelated events. They form a single continuum of fossil-fueled disaster, a continuum that had to be broken if there was any chance of rebuilding with real hope. "From Hovensa to Maria, there has been a plan to keep us down. We got to seek justice together." "Why should we bear the burden for things others have profited from?" "Rebuilding is not enough, we must reclaim the land." One preacher offered an even longer history, noting that "white supremacy and extractive capitalism are bound up together. They only see black people as something to use up and cast away."

"Oil sabotaged our island," a local farmer reflected on the last day, "and now it's up to us to set things right." As residents talked over the present plight for several days, the moment felt both desperate and pregnant with possibility. Again and again, someone would interrupt long pauses in discussions about the immensity of the challenge with the same refrain: "We need justice." And justice started with calling the fossil fuel industry to account for both the rampant contamination of the island and its stark vulnerability to the rising storms caused by planetary instability.

The negative ecologies of fossil fuels assail St. Croix from two sides, as it were: a catastrophic history of neglect and a catastrophic future of climate instability. For state agencies and financial investors (and some strains of social theory), the answer to this conundrum is clear: it is only by turning our backs on the

found and a society beyond oil begun. St. Croix is a climate crucible. accountable-by prosecuting the profiteers of destruction-that justice can be they share one liable author: the empire of oil. It is only by holding that empire climate change may have very different temporal and spatial coordinates, but save us in the end. Residents are having none of it. The disasters of toxicity and the very industry that willingly led us into this crisis. Profits, not people, will St. Croix: to best prepare for climate change, we must absolve and subsidize thinking advances new justification for substandard citizenship in places like the still-simmering history of toxic contamination from the official record. Such neoliberal order of things). But doing so involves a technical baptism to wash quate to the great transformation now needed (without, of course, disrupting the state, rebooting the refinery is the last gamble still offering winnings that are adehistorical present that we can fully face up to the demands of the future. For the

## CLIMATE PRAXIS IN THE NOW

services, and greater political agency change to long-standing struggles for rights to their lifeworld, improved social resiliency that held no promise of delivering justice. But we have increasingly imprecise, and over the course of years—not weeks—to link ideas about climate seen something else: marginalized communities finding ways, however rough and knew the climate science had driven investment priorities in the name of climate giving political cover to old-fashioned exclusionary practices. After all, clites who this perspective, climate change amplifies a longer tradition of liberal reformers through restarting the refinery and sanitizing a history of toxic injustice; from cal of the shiny promises of "climate resiliency" they know will only be funded extremes—and the two had just merged. In St. Croix, many residents are skeptiin and around housing. Housing precarity was as existential a threat as climate ments. In New York, a common theme in post-Sandy organizing was struggles whether thanks to benign, technocratic elites or perfectly virtuous popular movelow-carbon climate politics magically emerge from climate disasters' wreckagewell as others in the worlds of social theory, who hope to find a straightforward dispossession. This may disappoint some in the climate advocacy community, as already face-everyday struggles for economic survival, long histories of colonial foundly new crisis; they make sense of it by situating it within the challenges they found one striking continuity: people don't face up to climate change as a pro-In watching communities cope with acute climate-linked disasters, we have

> change is bad or not-it's increasingly viewed, by most people, as bad. Rather, a more radical accounting, and a vehicle to secure recognition and reparations both the inevitable endpoint of colonial violence, the spark that might ignite tle against foreclosed futures. Planetary crisis, in these sites, comes to matter as still-simmering edges of colonial disregard are seized upon as the frontline batmore simple, immediate, and visceral. In places like the U.S. Virgin Islands, the and complex as climate politics might be braided into grievances that seem we have watched groups struggle to pinpoint how precisely something as new The tension here does not arise from the question of whether climate

sion about it, are almost certain to grow. All the science points toward increasing ent and recent past has limits because the impacts of climate change, and discusfrom the state. weather extremes, with broader economic and social consequences. The best proand conventional environmentalists take the moral standpoint of the future to cation). From that standpoint, it is understandable that many climate scientists perhaps clothing the durable injuries of colonial violence in new climatic justifiworld's poor, deepening existing forms of inequality, racism, and borders (and jections of climate change suggest that it will have an outsized impact on the make their arguments. And it is understandable that from this perspective, violent hurricanes offer teachable moments—shards of the future in microcosm. Making general claims about how people react to climate change in the pres-

a political sphere where historical narratives are contested to seize upon the present obligation to the future, where the normative order of the present is not Canguilhem and Derrida, Kim Fortun insists that the future anterior is also attention to "a form of history made visible in negative outcomes." By way of (2014, 138) insistence on the "future anterior" in ethnography, which draws the starting block of critical inquiry and political action but its effect. Fortun afar; the future is a political field of contestation and creativity unfolding in the The future is not a disembodied and dislocated authority viewing us as if from (2001, 361) writes, "The future anterior is where the future is worked out, now." This point recalls anthropologists Kim Fortun's (2001) and Joseph Masco's

cause and effect, and of its implications for worsening weather conditions, but different: retain our scientific understanding of climate change's dynamic of present. Climate praxis is already occurring in the present-only in more fragshift the moral authority from a modeled future to the contested, open-ended mented, tentative, and intersectional forms than is comfortable for conventional But in our view, critical theorists and engaged scholars might do something

to last (and deepen) as extreme weather worsens. among all the climate reactions occurring now, which patterns seem more likely that draw analogies to other periods of mass disruption and seek to parse out, mate change into their own struggles must be paired with theoretical strategies climate action advocates. Taking seriously how marginalized people draw cli-

Climate does change everything—but in ways that only political struggle can

- ment, and its planetary breadth, helped found the UN Environment Program. that if current trends continue, the future of life on Earth could be endangered." This sentiof the 1960s and 1970s (Bond 2018). As the UN secretary general put it in 1969: "It is apparent This is not a novel sentiment. Such a notion was a popular slogan in the environmental crisis
- dence that extreme weather events transform people's opinions on climate change (Bergquist in disasters' wake (Stokes 2018). And yet-scholars of public opinion have found little evimoments" that will imprint the necessity of climate action through force of example alone Scholars of public opinion ask if today's extreme weather events will offer "teachable (Chemnick 2012). Political scientists urge the clearer communication of attribution science
- first time, from (anonymized) transcripts of research Cohen conducted with the Superstorm Research Lab (2013). These quotations about Sandy, and those following, are reported in this chapter for the

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