# The Great Delusion

An artist's thesis from within the climate crisis.



by Beth Johnston 2022

Bill McKibben wrote, 'We live in a post-natural world.' But did 'Nature' in this sense ever exist? Or was it rather the deification of the human that gave it an illusory apartness from ourselves? Now that non-human agencies have dispelled that illusion, we are confronted suddenly with a new task: that of finding other ways in which to imagine the unthinkable beings and events of this era.

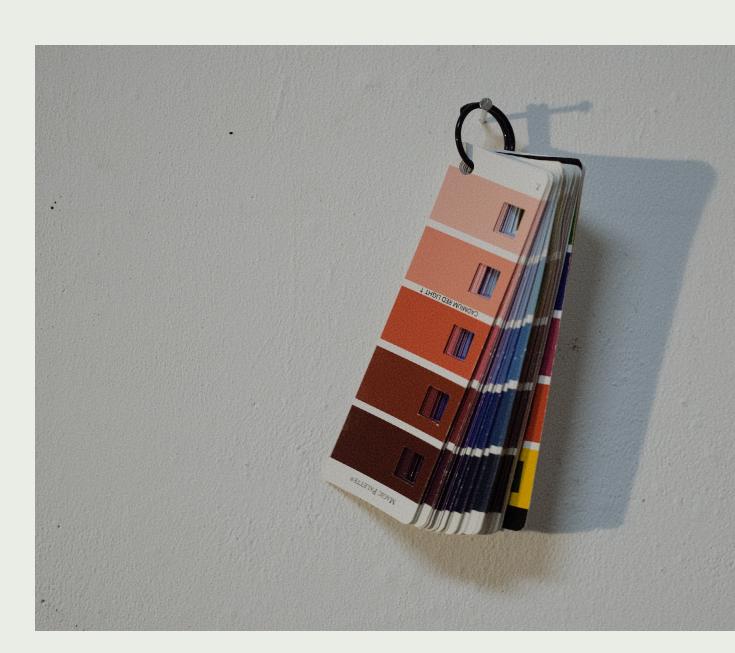
-Amitav Ghosh, The Great Derangement

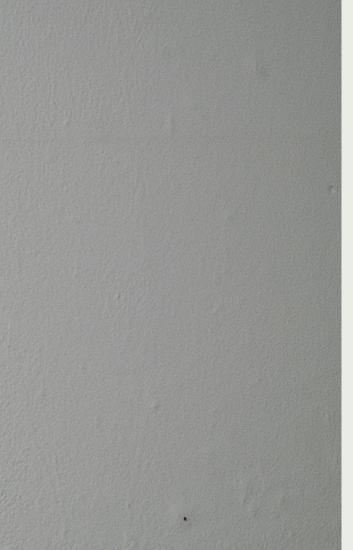












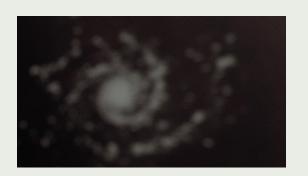




Title: The Great Delusion

Medium: Video

8 minutes 10 seconds









## Video Transcript

Let's start in the middle the perceived now with a strange question.

What is this thing?

This nature thing?

This thing I'm told has life is life is more alive than my inherited-ly blind life.

This nature thing.

Yesterday I read about ticks.

Their territory is growing you know because of the warming.

What does warm look like?

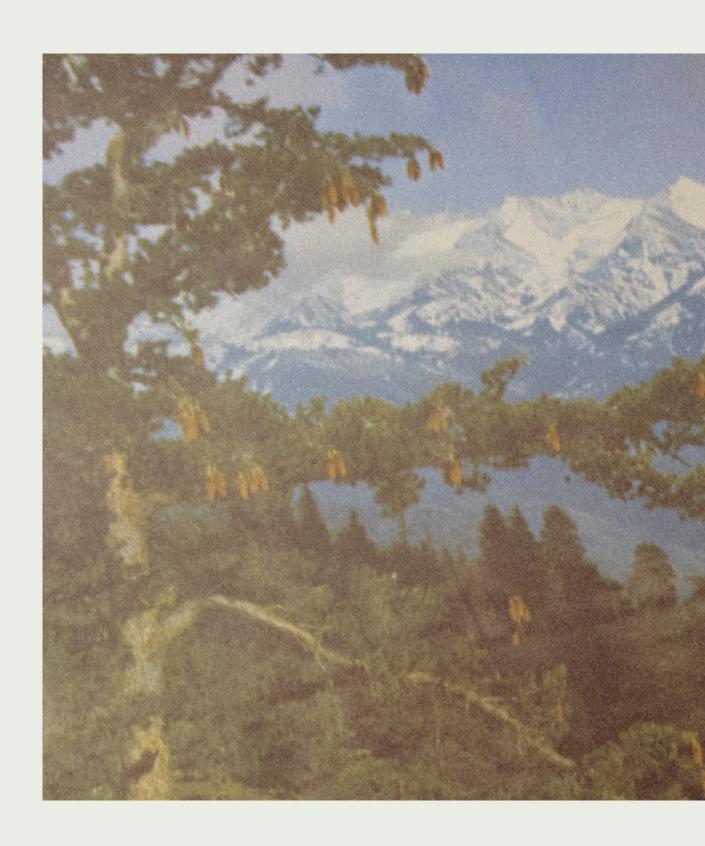
Red is the warmest visual color as defined by science. Or is it white-blue? Or purple? Visual to who? To what thing?

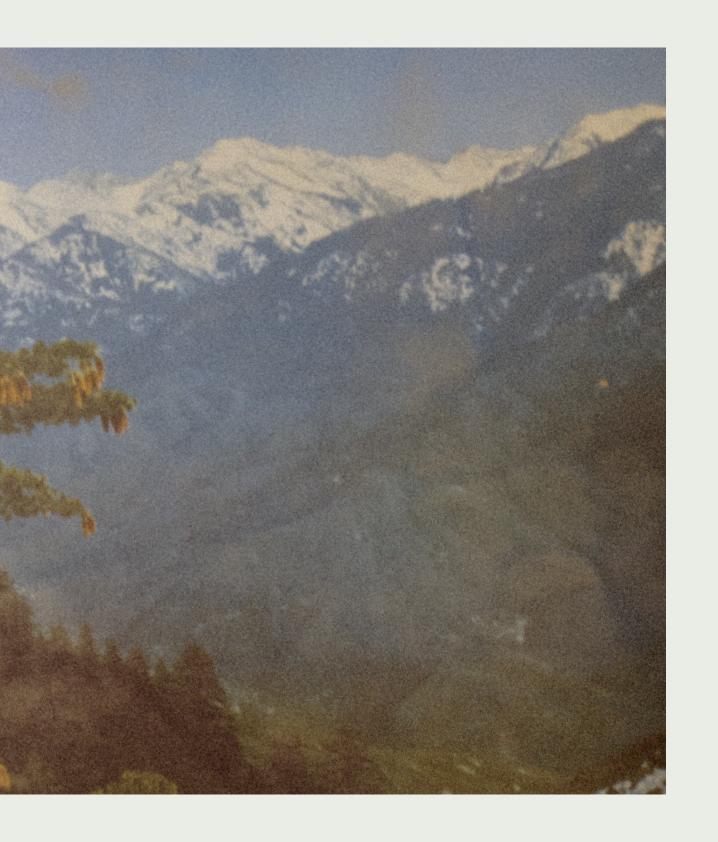
They say the world is warming.

Warming fast.

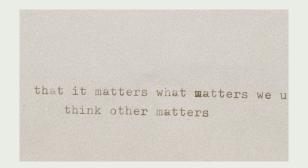
Faster than predicted.

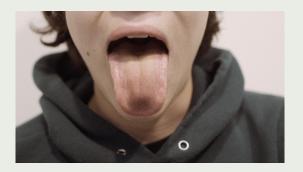
Because predictions are precedented.















That this nature thing matters.

That matter matters.

That it matters what matters we use to think other matters.

That this nature thing this thing over there under there up there on here in here matters.

That a matter of degrees matters.

Will warm look different tomorrow from today?

Matters get wonky when we think about mattering. In a world full of matter where mattering is regulated dominated outsourced and extracted.

Where mattering is a matter of life and death of animate or inanimate where mattering implodes on itself when I look in the mirror.

This thing.

This nature thing.

### Thing.

Defined as an object that one need not cannot or does not wish to give a specific name to.

#### Thing.

An inanimate material object as distinct from a living sentient being.

Example given:
I'm not a thing
not a work of art to be cherished.

Thing.

This nature thing.

How do we care about this nature thing?

Care is an interesting term an ethical term a term that might be the point of rotation the axis the concept to center.

Caring implies connection.

When did we stop seeing the connection?











At some point or more accurately a collection of many points before and after one another...

Was it:
the beginning of agriculture?
or the scientific revolution
or when Columbus was born?
or in 1610
or in 1619
or in 1945
or yesterday
when I filled my car up with gas?

When was the beginning of this mass delusion?

The great delusion?



I've been obsessed lately with these lists of
false binaries:
mind/body
good/bad
past/future
complete/incomplete

A semiotic reduction.

A cascade of questions.

Mind/body.

But things are always lost in translation.

I look up anthropocentrism a philosophical viewpoint the default in the west.

Man over nature.

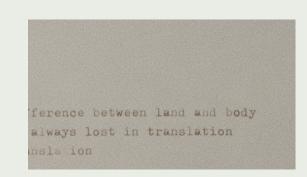
What does warm look like?

Visual to who? To what thing?

The cascade of questions.

This nature thing.

Where is this nature thing? Over there? Under there? Beyond the fence? Inside the fence? Who made the fence?





















Interlude:

Let's look with this tree for a moment.

This tree has roots has seeds.

These seeds are only released with heat but not too much heat but the balanced heat caused by small fires like the ones that were used in the pre-"new world."

And this tree loves disturbance disturbance ecology.

Like it used to get before the purity of fences.

This tree is both male and female it is non-binary this tree refutes time and is time and displays time and was poisoned by pesticides promoted by petrochemical companies the ones invested in making sure this nature thing stays a thing.

These trees were planted as ideal crop and resource by the Forest Service a US agency under the Department of Agriculture you know a different agency than the Department of the Interior which handles these nature things like:

Fish and Wildlife Services
Bureau of Land Management
Bureau of Ocean Energy Management
and the Bureau of Indian Affairs.

The cycles and circles.

Feedback loops.

This thing.

This nature thing.













Does warm feel different today?

Care, caring, carer burdened words contested words and yet so common in everyday life as if care was evident beyond particular expertise or knowledge.

Care.

Caring.

Carer.

As if we haven't been programed to not care.

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I've been carrying this weed around with me and I'm not sure why.

Weeds are defined as plants in the wrong place.

According to who?

To what thing?

Examples given:
Poison sumac
Dandelion
Crabgrass
Ragweed
Bindweed
Jewelweed
Tumbleweed

noxious invasive parasitic

Unwanted in human controlled settings such as farm fields gardens lawns and parks.

Who made the fence?

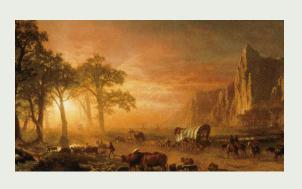
These plants came with settlers in bags of flaxseed.

They love disturbance disturbed land like the land of manifest destiny and nuclear testing sites and

the warming.

Each plant spreads 250,000 seeds as it rolls around.

This nature thing.



These weeds are everywhere in the American imagination:

freedom
individualism
survival of the fittest
wide open spaces
opportunity
rugged
daring
pull yourself up by your bootstraps
frontier myth.

I grew up picking these weeds by hand.

Under mountains named after men Moran Bierdstat Kit Carson you know the guys.

I grew up within the frontier myth.

Myth a widely held but false belief or idea.

The weeds roots are strong and deep.

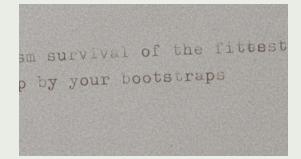
Sometimes it would take falling over backwards to yank them from their place.

A few years ago a strange phenomena occurred.

They call it tumblegeddon.

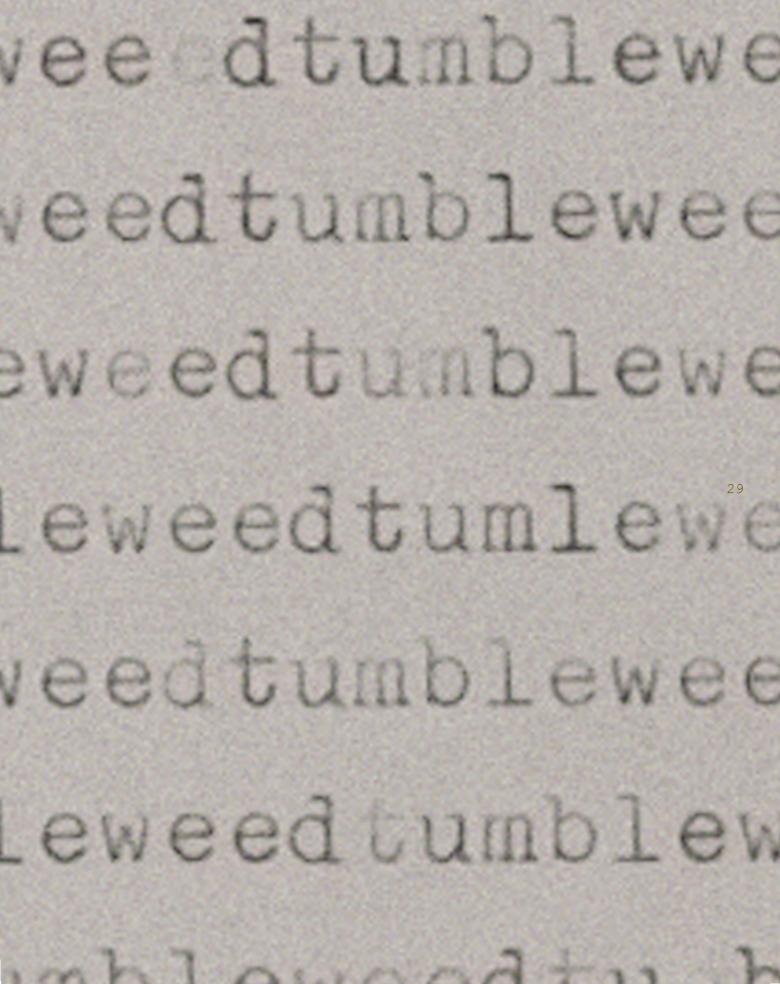
30 foot waves of tumbleweeds overtook cars and homes.

Those rescued said "normally you can drive right through them."





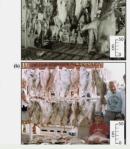
leweedtumblev leweedtumblev bleweedtumble nbleweedtumb] leweedtumblev nbleweedtumbl thoons I done



largest fish were due to shifting taxonomic composition of the cycle of reduction in size within groups. Analyses based 00 these nontraditional data sources offer a base-fine size are period for which there are to quo. It also essentially the composition of the cycle of the cyc

#### Methods

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Normally. When is normal?

Shifting baseline syndrome is defined as the inability to see change from within change.

Like the fishermen that keep smiling even though their fish are smaller.

This nature thing.

It takes 40 years for the carbon dioxide emitted to start affecting climate systems.

That's a reductionist statement but still true.

1982 becomes today today becomes 2062.

A time when we must queer time.

When future becomes today and today becomes.

They say the world is warming warming fast.

Faster than predicted.

Because predictions are precedented.

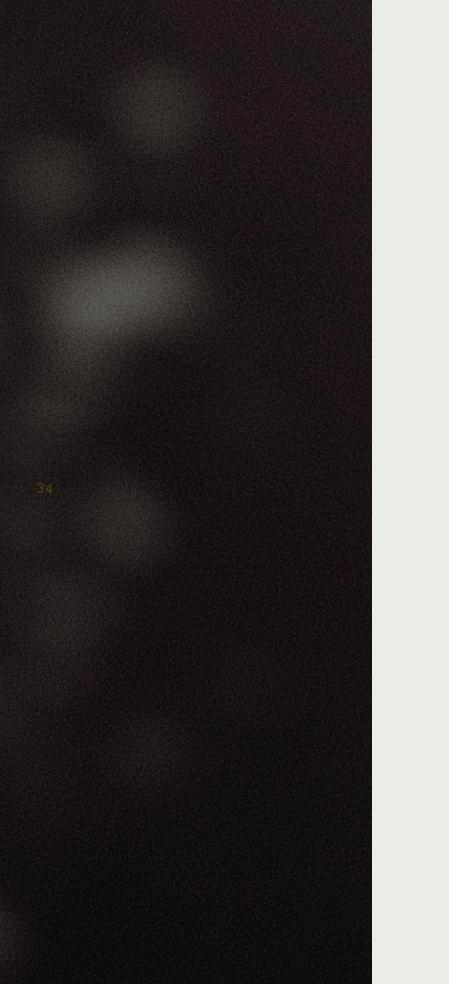


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Cartesian maps decentered a body.

Are we ready to be decentered?







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Thank you to my peers. This is just the beginning.

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I'm thinking about tipping points, watershed moments, paradigm shifts, and critical points, when a solid becomes a liquid, when the form changes altogether.

When do these transformation events occur?

The questions resurface:

I wonder, when does a stream become a river? When does a trickle become a cascade? When does a pile of dust become a loess?

Mhen do plants begin to grow in the loess?  $^{70}\,$ 

70 When does the transformation begin?

Complete/incomplete

-Aman Sium, Chandni desai, Eric Risckes, "Towards the 'tangible unknown'"

Let me "conclude" this essay by pointing to the beginning term "loess". It is a term, idea, and physical reality that I am actively engaging with, without summation or conclusion (yet?). Within this essay, the engagement with loess resides at the edges of this porous mound of essays, artwork, questions, and other particulates. The mound of essays and artwork, as an example of my practice, is evermound of essays and artwork, as an example of my practice, is everevolving. I am trying to learn from loess, not just the metaphor, but evolving. I am trying to learn from loess, not just the metaphor, but the very real ground formation.

Loess, as I read the word, is so close to loss. I don't think you can look at the realities of climate change without experiencing great loss. Lawyer and environmental justice activist Colette Battle in a recent interview said:

To admit climate—to really, really admit that you understand what is happening to the planet—it will break your heart. If you don't cry deep, hard tears for the state of this planet and all of the people on it, you don't yet understand the problem. And once you get to that place, the only thing that can bring you out of that kind of darkness is belief in something greater than yourself. 69 kind of darkness is belief in something greater than yourself.

This encounter with loss has changed me. It is why I came to RISD in the first place. To attempt to communicate the impossible. I turn to art because it becomes an act of processing the loss, opening up the conversation, and in believing in something greater than myself. That there is power in gathering.

It is here between the binary of the end of the world and the future of the world, that I turn to artwork. To reveal, explore, spend time with and wrestle with the space in-between loss and beauty, care and control, between the "overstated and the unspeakable," between despair and hope.

I'm learning to trust artwork to expose the entanglements that are beyond summation. I believe that, by engaging in the material act of making, we\*, as artists, are helping invite speculative futures into being. That in the act of making-with material, in honoring the earthly material we are entangled with, we\* are engaging in a morethan-human conversation. Even if these are (just) mental exercises, I do believe that art paves the way for different realities; it is a place to work out the unspeakable terrain, where there isn't language yet; that art can be a point of social and material transformation.

It has indeed been that for me.

### An Entangled Transformation

There's a famous idiom within climate change discourse communities, that it's easier to imagine the end of the world than it is to imagine the end of capitalism. This, for me, is a problem of imagination.

As we\* begin to dissolve the Cartesian binaries and perceptual divide of nature and body and its concomitant modes of thinking, we\* begin to see possibilities. Between the binaries, lies a spectrum of relationships, pluralities, and multiplicities. It is an opportunity to invite radical social justice. This can't be a passive engagement to invite radical social justice, all or nothing shift. 65 Much like the problem, the solutions are also entangled.

The climate crisis, as an entangled and wicked problem, will require coalitions across disciplines, across ages, and across species. It requires coalitions across time, of seeing both our past and our future. It will require a re-membering of our place within the ecosystem, now, before, and after. 66 It will require a lot of honest, messy convers-ations.

I recently read that the Greek word Apokalypsis, literally means "removal of the veil." This is unlike the "doomsday apocalypse" narrative common within the ecological discourse. Thinking through apocalypse with this new definition, embracing it even, might just reveal worlds of possibility. 67 Let's spend some time imagining those possibilities.

- T.J. Demos states "we cannot address climate justice adequately without also targeting the corruption of democratic practice by corporate lobbying, or the underfunding and failure of public transportation systems, or Indigenous rights violations by industrial extractivism, or police violence and the militarization of borders." Decolonizing Nature, 12.
- 66 Re-membering points to the recognition that the world we\* inhabit, including our body, is a multi-species site. It is a multi-being site. We\* must somehow remember that there are many members of our community.
- See Facing Apocalypse by Catherine Keller. She continues to explain that the term "means not closure, but dis-closure-that is, opening." To state again, that the removal of the veil, apocalypse, is actually an opening, not an ending, xvi.

### Camille Henrot

Camille Henrot (b. 1978) is a French artist and director. Her 2013 film Gross Fatigue was made during a residency at the Smithsonian Institute where she dove into available archives and collections. With a wide-ranging research base that includes philosophy, anthropology, and history, Henrot used this research as a raw material in the film. The narration is expansive and like Sara Cwynar's work provides a visual essay as the viewer is Like Sara Cwynar's work provides a visual essay as the viewer is taken from the Smithsonian Institute's building and collections as the location and subject of the film, Henrot is using research as a material, both physically and conceptually.

Henrot has described the work as an "intuitive unfolding of knowledge" that is meant to point to both the abundance of our knowledge in modern culture as well as the limits of current frameworks of knowledge. 64 In this way, I think of Henrot's video as an example of embodied knowledge where the intellectual, physical, emotional, and spiritual converge.

These three artists, in using research as a primary material, make their academic worlds accessible for engagement and contemplation. Their scholarship, through affect, becomes an embodied experience. Facts, no longer sit on a page to be read, they are felt through auditory and visual engagement. Furthermore, through temporal pairings and layers, the research becomes intertwined, revealing connections that might not be found in textbooks. As I attempt to enliven climate data and visualize unseen connections, these artists become important visualize unseen connections, climate research through affect.



Camille Henrot, Grosse Fatigue, 2013, 13 min., video still.

#### Sara Cwynar

to a wider audience. This, even if in a small way, makes academic research accessible auditory experience, without having to read Benjamin directly. heart of Cwynar's interpretation of the quote through visual and the original intent. The viewer may comprehend what is at the to be materialized and understood, even if differently from the viewer and through visual references, allowing the research reference in the video though, Cwynar is providing research for is annotated by Cwynar. 63 Even without the direct textual Argeo' if is in the book form of the work where the transcript in meanings." While this quote is not directly provided in the the alienated things are hollowed out and, as ciphers, they draw Benjamin's quote that "with the vitiation of their use value, within commodity culture. This is a direct reference to is referencing Walter Benjamin's study of the shopping arcades example, a line that reads "B. calls them 'alienated things'" so pages was condensed from hundreds of pages of writing. For of fragments from a research essay. The final script of 8 or of her narration. The script, Cwynar has said, is compiled becomes apparent both through visual references and by way video takes the form of a visual essay where Cwynar's research ideas of sexism, capitalism, and the formation of desire. Each visual culture and design. Her three-part video series explores that explores embedded systems of power through a critique of Sara Cwynar (b. 1985) is a photographer, video, and book artist

The sense of humor present in Cwynar's work is an important marker for the tone of the piece. The humor allows the heaviness of the topics at hand to wash over you, penetrate your psyche even, because your guard is down. As a viewer, I learned a great deal from Cwynar's work, leaving with a list of theorists to look into and intrigued by the quotes Cwynar shared. I also left with an emotional experience. By placing academic research in this altered medium of video, I encountered academic theory differently. I had an emobodied and emotional experience to the text that was quite different than reading it on a page or listening to a lecture. Cwynar made the theory come alive.

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Sara Cwynar, Soft Film, 2016, 16 mm film, 6 min. 28 sec, promotional poster.

Artist(s) Case Study: Research as Material Sara Cwynar, Camille Henrot, and Ellie Ga

Video and performance artists such as Sara Cwynar, Camille Henrot, and Ellie Ga are important contemporary artists that use their research as artistic material. While most artists have a deep pocket of research that informs their work, these artists bring the research to the forefront.

## Ellie Ga

endagement.

interweaving climate research with new exploratory methods of is something I hope to bring to my own artwork and practice, new methods in order to discover new forms of understanding revealing an altered understanding. 62 Ga's emphasis on exploring imagination" blurs the boundaries between knowledge systems, This interplay between "objective analysis and subjective be filled with personal anecdotes, sketches, and observations. a porous knowledge base, one with logical leaps that seem to gaps, dead ends, and surprising turns. The viewer is left with seems to be exploring new performance territory, allowing for embraces exploration as a method and concept. The narrative during a residency aboard a research sailboat in the arctic, and historical narrative, Fortunetellers, which was made visual performance. Moving between travelogue, artist lecture, archeology, and mythology and interweaves this material with the example, in The Fortunetellers, Ga takes fields of philosophy, journey interjecting her research with the visual encounter. For In what she calls lecture performances, Ga takes the viewer on a videos and installations that highlight her research practice. Like Camille Henrot and Sara Cwynar, Ellie Ga makes narrative Ellie Ga (b. 1976) is an American artist, writer and performer.



Ellie Ga, Fortune Tellers, 2011, performance running time: 1 hour, performance still.

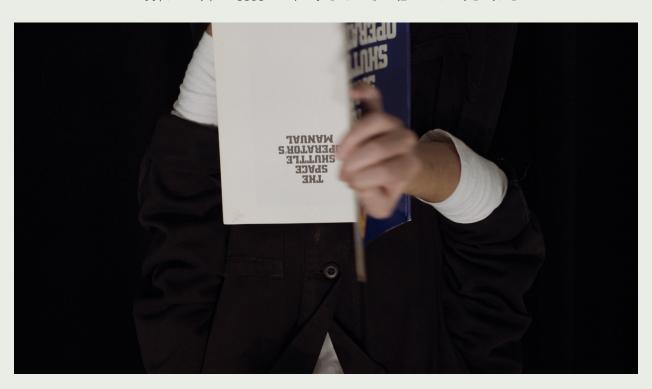
For example, the clip that begins with the narration "I look up anthropocentrism, a philosophical viewpoint, the default in the west" is accompanied by a visual of me holding up a manual about living in outer space. This pairing signifies the current proposed climate change solutions where techno-fixes, green capital, and space colonization reign. 60 These proposed solutions are an extension of human exceptionalism in general terms, but even more poignantly for colonization reign. 60 These proposed solutions are an extension of human exceptionalism in general terms, but even more poignantly for depends on current systems of power and hierarchy. I'm interested in decentering human exceptionalism as a way of placing humankind back into a balanced cycle of ecology, where we\* are one part of an interested in dependent ecosystem. 61

than-human beings and bodies. everything else rotates around, but in relationship with other moreus to see humanity, not as a separate or centering force in which into relationship with other planetary bodies, this last line asks Revolution repositioned the earth from the center of the universe that would decenter human-exceptionalism. Just as the Copernican this call for the "The Great Transition," or a paradigm shift maps decentered a body, are we ready to be decentered?" references human life-forms" (12). The ending narration that posits "Cartesian harmony with the world around us, including its human and nonpolitical, and economic life, in order to bring us into greater which will require a systemic shift in reorganizing social, "climate change is the best motivation for a 'Great Transition,' ecology. T.J Demos summarizes this in Decolonizing Nature by stating centered concept of the universe to a more-than-human centered The last scene of the film highlights the need to move from a human-

The Great Delusion script represents a particular moment of my research. This project is likely the beginning of a series, with each film having its own time stamp and particular assemblage of thinkers and ideas. "To be continued" is the ending slide of the film and points to the unfinished nature of the climate crisis and my own ongoing process-ing within it.

<sup>10</sup> Think about human exceptionalism as an extension of human hierarchies put in place by colonialism where white settlers were at the apex of exceptionalism. Thus, my comments about human exceptionalism are grounded in recognizing racial and social hierarchies.

Enrique Salmon's Kin-centric Ecology is an important reference things in relation as opposed to in-hierarchy where human things in relation as opposed to in-hierarchy where human exceptionalism results in human-apexed ecologies.



Beth Johnston, The Great Delusion, 2022, video still.

Racial Mattering, and Queer Affect. For more on animism, see Mel Chen's Animacies: Biopolitics, 69 See The Great Derangement, 3.

website: https://press.uchicago.edu/ucp/books/book/chicago/G/ bo22265507.html See the book's description on The University of Chicago Press **LS** See Giorgio Agamben, The Open: Man and Animal, 39-48 and Ada Smailbegovic's Poetics of Liveliness, 5.

exceptionalism, or anthropocentrism, are highlighted in the video. Issues regarding the Limits of western notions of human-

imagining healthy and just futures for all. necessary form of re-calibration and can be a helpful tool for re-Matter, in a time of ecological collapse, anthropomorphizing is a to say the least. As Jane Bennett highlights in her book Vibrant culture, I think some rebalancing of what we\* deem animate is needed, human exceptionalism and hierarchies of domination saturate western that might usually be classified as inanimate.  $^{59}$  In a time when extend the category of animacy to plants, rocks, and other objects humans and animals. Animism and new materiality, on the other hand, Within western culture, animacy is a narrow category containing something is deemed animate relies on human values and perceptions. imply a human apexed form of "life" and ecology. The terms by which new materiality, which question ideas of human exceptionalism that dangerously alive?"58 For me, this brings up theories of animism and when something that seems inanimate turns out to be vitally, even Ghosh begins the book by asking "Who can forget those moments There is also a question of animacy throughout The Great Delusion.

cygude. realities, keep us from adequately acting in the face of climate complicated histories that have produced current political and social problem with our imaginative and perceptual worlds that, along with generations might think so"."37 Here, Ghosh is highlighting the throughout the pages, "are we deranged?" He argues that "future to investigate the unthinkable nature of climate change. He wonders my thinking within the climate crisis. In this book, Ghosh sets out book The Great Derangement which has been extremely influential for The title of the work, The Great Delusion, references Amitav Ghosh's

ambiguity to allow the viewer to experience their own associations. name them for the viewer. Rather I let these comments stand with some types of questions I am wrestling with in this video, but I don't of western settlers. What is my inherited blindness? These are the the limits of my perception, not only as a human, but as a descendent alternate world of perception.30 In this work, I am wondering about Uexkull, this is not a deficit in sense, but rather, represents an other vegetation to wait for the warm-blooded animal to pass by. For



Beth Johnston, The Great Delusion, 2022, video still.

Mork Analysis: The Great Delusion

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The Great Delusion is a time-based video that summarizes much of  $m\gamma$  research on the climate crisis.

The video depicts a number of nature themed items in a studio space under harsh lighting. The items range from a rock to maps of outer space. The voiceover and visuals are fragmented and temporally layered to reference how climate knowledge is formed. The repeating question of "what is this nature thing?" references my research on concepts of nature as it relates to the complexities of climate change. The repeating question lands with a sense of absurdity. Humor is an important element of the film, allowing the hard topics of climate change to percolate without being too heavy. I'm trying to time the space between "too serious" and "not serious enough" as a way to incorporate the climate data encounter without invoking paralysis. The mock-essay format, in this case, is one form through which I'm trying to articulate this affective tension.

The script for this work was formed during what I describe as a mental exhale. I was frustrated. Presenting photographs of "nature" seemed to be quickly dismissed or put into a neat category of environmental art. The research on decolonizing nature, perception, time, and climate data felt like an important layer to the artwork I was making but I didn't know how to incorporate or communicate it to the viewer. Encountering videos by artists like Sara Cwynar, Camille Henrot, and Ellie Ga, who allowed their research to take center stage, gave me license to embrace my own research as the main raw material for this video. 55

to the sun (light) which helps orient them to the top of grass and the temperature of warm blood (37 Degrees Celsius), and sensitivity of only three senses: the smell of mammal's sweat (butyric acid), organism. The perceptual world of the tick, for instance, consists word for the environment, is the perceived world by a particular Uexkull's concept of the "umwelt." In short, the umwelt, a German my inherited-ly blind life" is informed by reading about Jacob von reads "This thing, I'm told, has life, is life, is more alive than but without any context or explanation. For example, the line which and the ambiguous. There are many points where research is presented, answers for, as the narration and visuals move between the didactic this 8 minute film. The film raises more questions than it provides natureculture studies and environmental justice are all smashed into new materiality, decolonizing nature, queer ecology, queer time, spoken in a way that is expository. Ideas of animism, posthumanism, The narration summarizes much of my research, though it isn't



Beth Johnston, The Great Delusion, 2022, 8 min 10 sec, video still.

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Courrently live on the first floor of an old colonial house on stimms St. In the basement you can see where the floor above is trumbling. There are large piles of decayed supports that have sallen to the concrete. Moving through the house comes with all alooming creepiness, wondering just when and how it will all

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From within the climate crisis, how we think about nature, has continued ramifications for maintaining systems of power. Socialist Raymond Williams, points out that the term "nature, is one of the most complex terms in Western thought. Nature, he says, is a polysemic, and polyreferential signifier that, whether the term is used or not, points to hegemonic ideas of race, sex, biodiversity, genes, wilderness, animals, of race, sex, biodiversity, genes, wilderness, animals, environment, and many others. SI How we think about nature

What we call the climate crisis is a part of the continuation of colonial land/nature control and extraction. This is not a new existential crisis for those that were colonized. As Kyle Powys Whyte points out, for the non-colonizer, this is deja-vu. <sup>52</sup> Or as Peruvian anthropologist Marisol de la Cadena states "now the colonizers are as threatened as the worlds they states "now the colonizers are as threatened as the worlds they displaced and destroyed when they took over what they called terms nullius. \*\*\* This is an ongoing apocalypse for many.

As climate catastrophe escalates, there is a resurgence of mastery control mechanism thinking. Everything from cloud seeding to carbon capture. Man will overcome nature once again, seems to be the lifeline of hope. But I ask, is this not the continuation of a fatal pattern where nature continues to be objectified and mastered for the benefit of a few?

- 51 Noel Castree's essay titled "Nature" quotes and builds off of Williams' scholarship. See both Noel Castree and Raymond Williams' essays in Keywords for Environmental Studies.
- 52 See Kyle Powys Whyte's essay "Is This Colonial Deja-Vu?"
- 53 See de la Cadena's book A World of Many Worlds.

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matters.

Elizabeth Kolbert's book Under A White Sky, explores many of these projects, often highlighting their unintended consequences while wrestling with the question of what is the role of humans to undo harm through technology, if possible.

earthly body. grew. Thus, the mind and imagination were separated from the grew, the need to cut ties with the "land imagination" also explains that as the need for control of the natural landscape systems which included animate land and nature relations. Ghosh the genocide of people, but a genocide of the cultural belief erase those connected to the land. This not only results in native-slave equation. As settlers claim land, they must also enslaved Africans became a necessary part of the settlerthe extraction of land continued, labor needs increased, thus settlement, extraction, ownership, and control of land. As is uniquely about the land.  $^{48}$  Specifically, it is about the colonialism, as distinct from other forms of colonialism, beobje. Scholar Heather Davis, points out that settler-America as settlers "conquer" nature, land, and the inhabiting This mastery thinking extends to the colonization of Worth

The legacies of colonizing nature continue today. Environmental sociologist Dorceta Taylor and legal scholar Jedidish Purdy point to environmentalism's roots in white supremacy as an extension of settler-colonialism.' Mot only was the founder of the Forest Service, Gifford Pinchot, a member of the United States Eugenics movement, it is often not recognized that for the creation of national parks, Indigenous nations were for the creation of national parks, Indigenous nations were for the creation of national parks, Indigenous nations were for the creation of nationally and/or dishonestly to make room for first displaced brutally and/or dishonestly to make room for eased in those moments of "conservation." Native nations erased in those moments of "conservation or their original territories though their treaties with the US government territories though their treaties with the US government within ideas of conservation.

see "Decolonizing the Anthropocene" lecture.

<sup>99</sup> See Dorceta Taylor's book The Rise of the American Conservation Movement: Power, Privilege, and Environmental Protection and Jedidiah Purdy's book After Nature for more on this.

For an account on how Indigenous nations cared for and with the land for thousands of years see Tending the Wild by M. Kat Anderson.

#### Decolonizing Nature

One does not have to be a great seer to predict that the relationship between humans and nature will, in all probability, be the most important questions of the present century.

-Philippe Descola, The Ecology of Others

Let's start here, with a strange question: how did nature become objectified? How did it become othered? To study and think about the study of study and think about inherited ideas of nature-they go hand in hand. Our notions of nature are directly nature-town we\* do or don't respond to the climate crisis.

An important element of the settler-colonial project was to separate man from nature. Many scholars point to the Cartesian divide between mind and body as the beginning of the man/nature split. \* Art historian T.J. Demos summarizes this in his book Decolonizing Nature by stating "the colonization of nature, emerging from Enlightenment principles of Cartesian dualism between human and non-human worlds, situated the nonhuman world as objectified, passive, and separate" (14). Nature, within the setller-colonial project, became a separate object to be mastered.

Writer and historian Amitav Ghosh argues that this divide between humans and nature wasn't merely an outcome, but was an essential goal of the colonial project at large where hierarchies of human value were formed. He explained in a recent interview that this philosophical thought was born as Europeans began "mastering" others during the advent of the African slave trade. The philosophical thought of Cartesian dualism, Ghosh says, was a philosophical thought of Cartesian dualism, chosh says, was a Thus, the mind body divide becomes a justification for ideas of mastery.

Outlining how this idea came to be is beyond the scope of this essay. Val Plumwood, Katherine McKittrick, Donna Haraway, Julietta Singh, Karen Barad, Trinh T. Minh-ha, and many other feminist, queer, and BIPOC scholars have outlined the embedded mastery of the Cartesian dualism.

See Amitav Ghosh's interview titled "Being Seen and Not Seen" on Emergence Magazine's podcast.

# Dualism: the logic of colonisation 43

members of the set. They should be seen as forming a system, an interlocking structure.

Key elements in the dualistic structure in western thought are the following sets of contrasting pairs:

1100	1	19410	
subject	1	opject	
public	1	private	
production	1	reproduction (nature)	
civilised	1	primitive (nature)	
pnwsu	1	nature (non-human)	
universal	1	particular	
freedom	1	necessity (nature)	
mind, spirit	1	nature	
reason	1	emotion (nature)	
rationality	1	animality (nature)	
reason	1	matter (physicality)	
master	1	Slave	
bnim	1	body (nature)	
male	1	female	
reason	1	nature	
culture	1	nature	

I do not claim completeness for this list. Indeed completeness is impossible, since any distinction can in principle be treated as a dualism major forms of oppression in western duught, and reflect the major forms of oppression in western culture. In particular the dualisms of male/female, mental/manual (mind/body), civilised/primitive, human/nature correspond directly to and naturalise gender, class, rate fand manual correspond directly to and naturalise gender, class, are indirectly involved. Their development has been a historical process, following a historical sequence of evolution. Thus dualisms such as reason/nature may be ancient, but others such as thuman/nature and as reason/nature may be ancient, but others such as human/nature and ment consciousness. But even the ancient forms do not necessarily fade many because their original context has changed, they are often deposited by past oppressions. Culture thus accumulates a store of sediment conceptual manual ment conceptual framework as residues, layers of sediment conceptual weapons, which can be mined, refined and redeployed for conceptual weapons, which can be mined, refined and redeployed for new uses. So old oppressions stored as dualisms facilitate and break the new uses. So old oppressions stored as dualisms facilitate and break the

path for new ones. Since they are formed by power and correspond to stages of accommodation, any account of their development would also be an

Image scanned from Val Plumwood's book Feminism

Metal also creates an inversion of weight which calls us to rethink power structures. To give tumbleweeds, which are normally light and airy and easily moved by the wind, the weight and seeming stability of metal, inverts their stability, giving heft to their potential harm as an extension of settler-colonial and extractivist systems. This inversion, makes material the often imperceptible sphere of settler-colonial power and legacy.

I also find myself wondering what I can learn from this tumbleweed. A number of questions arise such as how do we embrace change from this position within the climate crisis? Recent studies predict that by 2070, over a fifth of the world will be uninhabitable. The migration of human and non-human lifeforms will continue to intensify. How does this plant, as a diasportic being, teach us to embrace porous boundaries? To rethink our national borders? To rethink who and what belongs? Tethink our national borders? To rethink who and what belongs? Tethink our national that the tumbleweed has created and represents real harm, I'm also interested in learning from it. To hold both of these things, the harm and the potential leasons, with curiosity feels important in this time of climate change.

There is more to be said here, but I happen to be in the process of installing and making this work as we speak. Thus many of these thoughts are still in formation. I am currently, physically, and conceptually, wrestling with these metal tumbleweeds, what they represent, and what I can learn from

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DO22, work in process, 36 x 38 x 30 inches.

The frontier myth remains influential not only within the Western US region but in American identity, values, and ideals more broadly, including in ideas of rugged individualism and the false guise of American "freedom". As the United States continues to be both a key emitter and obstruction in work to mitigate climate change, the concepts tied to ideas of the frontier myth have

The tumbleweed, then, becomes an example for some of the entanglements of US culture with the climate crisis. The conditions that allow for weather phenomens such as tumblegeddon, are climate conditions. Rising desertification and drought in the Western US, has allowed Russian Thistle to propagate exponentially, causing waves of tumbleweeds to overtake cars. While we often think of climate disasters as being linked to hurricanes and rising sea levels, the wave of tumbleweeds is also a sign of a changing climate.

The tumbleweed symbol can be found in two of my thesis projects, The Tumbleweed, For Example (a sculptural work) and The Great Delusion (a video piece), both separately discussed in the following pages.

In the sculptural thesis installation titled The Tumbleweed, For Example, metal tumbleweeds appear to emerge from the wall, engulfing the viewer as if a weather phenomenon or event where nature is overcoming humanity. In The Tumbleweed, For Example, I point towards this entanglement of current weather patterns and the history of the frontier myth and settler-colonial extractivism. Metal branches jut out from the wall, implying a giant tumbleweed beyond sight that if materialized would be 30 giant tumbleweed beyond sight that if materialized would be 30 feet high, The viewer in comparison to this giant tumbleweed is made small, an inversion of the "man over nature" paradigm. Other material choices within the work point to an entangled history.

The use of metal, for example, is in reference to industrial extractivism that is linked to the global economy, of which the US is a key benefactor. Steel, as the internal skeleton of skyscrapers, cars, and other forms of modernized life, is a resource that is dependent on extractive systems of power. 45 Metal is also seen as indestructible and long lasting. Several of the tumbleweeds have been exposed to salt water and have begun to tust. By allowing the metal to rust, I am pointing to the earthly impermanence of this material, that it too, can decay.

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See Kathryn Yusoff's lecture "Geo-Logics: Natural Resources as Necropolitics" for more on how steel is a key racialized material and how Black slaves are a foundation for the industrial revolution.



Beth Johnston, The Perfect Tumbleweed, 2022, scan of polaroid, 3 x 3.125 inches, this photo appears in The Great Delusion.

# Mork Analysis: The Tumbleweed, For Example

In January of 2020, a strange phenomenon occurred in Washington State: waves of tumbleweeds overtook driving cars, consuming the vehicles and the disoriented drivers and passengers within them. Scenes of the event appeared on local news channels under the name Tumblegeddon. Rescue efforts took hours to dig the cars out of the 30-foot-high mound of tumbleweeds.

The tumbleweed has become synonymous with the American West. Hollywood depictions of the western "frontier" often start with scenes of this dry, prickly, circular weed bouncing across the desert. However common this weed has become, the species was originally invasive to the region. 43 The parent plant to tumbleweeds, Russian Thistle, was accidentally introduced to the United States by Ukrainian immigrants in 1873 in contaminated bags of flax seeds. Russian thistle is a beautiful, robust, emerald green color. In the arid west, it is often the only green in sight, a mirage of sorts. When the parent plant dies and dries, the tumbleweed is born; carried by the wind it can spread up to 250,000 seeds per plant. The more disturbed the land, the better for seed germination. The land of the "wild west" offered this disturbance. They've now taken over the landscape, suffocating other vegetation and radically altering ecosystems.

I grew up on a farm in southern Idaho, pulling these weeds from the family's alfalfa seed harvest. The stems of the plant are stiff and would often cut through my skin. Sometimes, the roots of the weed were so strong that it took falling over backwards to yank them from their place.

For me, the tumbleweed symbolizes the frontier myth. This myth, which romanticizes the European colonization of the United States from the comanticizes the European colonization of the displacement, erasure, and continued genocide of Indigenous peoples and their cultures across North America. The false imagination of the Western US being a vast, uninhabited landscape helped support ideas such as manifest destiny uninhabited settlers "had the divine right" to take and settle land throughout the United States, and especially during westward expansion. The erasing of Indigenous people and their cultures and estating the image of the "savage" to be rescued by the "civilized" creating the image of the "savage" to be rescued by the "civilized" man is central to the power structures of the frontier myth.

See Kyle Whyte's essay titled "Indigeneity" in Keywords for Environmental Justice for an interesting discussion on native vs non-native concepts in both horticulture and social sciences.

44 William Cronon's essay "The Problem with Wilderness; or, Cetting Back to the Wrong Nature" is influential here as is Dorceta Taylor and Jedidiah Purdy's research which is discussed below.



Screenshot from news footage about "tumblegeddon."

I am inviting others into the conversation about it. As Heather Davis points out in her lecture Decolonizing the Anthropocene where she introduces herself as a white settler descendent, she explains that this process should be uncomfortable. It should be messy, in conversation, and in process.

J. Drew Lanham, a Black scholar and ornithologist, uses the process of bird watching to think through how to do difference together and racialized interactions. He reminds us, in his essay "Birder to Birder" to literally and metaphorically lower our binoculars every once in a while, to pay attention to the points out, we\* get so consumed by our focused attention on a particular perspective and subject, that we\* lose sight of what is around us and what or who we\* might be unintentionally harming.42

The climate crisis requires multiple viewers. My community, in conversation, becomes my collective eyes. While I'm looking at the bird, someone else can be my eyes on the ground as they study the flower, telling me to step left or right to avoid harm. This requires communication, trust, openness, humility and vulnerability. It also requires each of us showing up to do our part. To meet the climate crisis requires a collective dance in which we\* stand with one another.

In every artwork I make, I wrestle with this tension between I and we\*, between the individual and the collective, between my "situated knowledge," to use Donna Haraway's term, and movement towards coalitions. I don't claim to have any answers to these questions, but I do promise that I will continue to wrestle with them.

2.<del>b</del>

Alexis Shotwell and Michelle Murphy's exploration of purity politics and alterlife, respectively, showcase the ways that purity itself is a colonial endeavor that creates hierarchy and division. 38 The pursuit of purity, of being on the right side, also erases our differentiated complicities and complacencies. Life is already altered, there is no return to a pure state, physically or ethically. Shotwell states:

All there is, while things perpetually fall apart, is the possibility of acting where we are. Being against purity means that there is no primordial state we might wish to get back to, no Eden we have discarded, no pretoxic body we might uncover through enough chia seeds and kombucha. There is no pre-racial forced labor on railroads, colonialism, genocide, and forced labor on railroads, colonialism, genocide, and forced labor on railroads, colonialism, genocide, and energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy we can use without deepening our ties to complex energy energy

Given that there is no way to remove oneself from the complex web of unethical modes of being in the world today, we\* instead need to recognize our complicity and work together for better rather than perfect or pure ways forward. The climate crisis requires collectives; it requires coalition building. But that does not mean universals or universalisms. Shotwell emphasizes that people are not equally to blame, nor are they equally able or called to respond.<sup>40</sup> To use Donna Haraway's term, how do we\* nold this differentiated "response-ability" well?

This is an unanswered question for me and one that I will continue to wrestle with. What does it mean to name and claim my position as a white settler descendent, within systems that I simultaneously critique and actively benefit from? "I what does differentiated responsibility look like for my artwork and writing? By accepting my complicity, I am not removing it, but

- 88 For a brief summary of alterlife, see footnote 2.
- 39 Shotwell, Against Purity, 4.

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- 40 Shotwell, Against Purity, 7.
- As a settler in the United States, I have a specific responsibility that requires me to look at my continued relationship with white supremacy. As Shotwell points out, white supremacy claims relation with me as a white body, thus I must acknowledge my implicit relation back as a way to begin dismantling it. See the lecture "Cultures and Media of invironmental Health" for more on this.

The Problem with We\* And the Limits of I\*35

The problem was that we did not know whom we are we reard '.  $^{\prime}$ 

-Adrienne Rich, "Notes Toward a Politics of Location"

Who is doing violence to the worldwide world?

-Michel Serres, War, Peace

brown, and black bodies and worlds. apocalypse that began with the colonization of indigenous, climate crisis is an extension of the human and more-than-human Deja-vu?." These titles and others point to the ways that the First Existential Threat," and Kyle Whyte's "Is It Colonial 'We,' White Man?," Mary Hegler's "Climate Change Ain't the highlights essay titles such as Erik Ivie's "What Do You Mean survey of how the term can be used in violent ways. Liboiron We. Ms This section's footnotes provide a quick yet expansive has a section titled: "Problems, Theories and Methods of anticolonial scientist, in their book Pollution is Colonialism change without any specific responsibility. Max Liboiron, an climate activists as a generalizing term to call for radical place by colonial and extractive systems. Often, it is used by of erasing difference and mitigating power relations set in discourse and environmental narratives that has the effect We\* is often a universalizing term used within climate

Scholars like Liboiron call for differentiated solidarity. How can we\* "stand with" one another? Kim TallBear, uses "standing with" as a methodology of how to work with, through, and among difference. Making work about the climate crisis necessitates wrestling with how we\* use the term we\*. As Timothy Morton wrestling with how we\* use the term we\*. As Timothy Morton says, "we have to figure out a way to talk about the human species" without erasing differentiated realities.<sup>37</sup>

- 35 If you are wondering why there are asterisks see footnote 2. In short, it is a visual reminder to think about the universalizing use of the pronoun we\*.
- Max Liboiron, Pollution Is Colonialism, 23.
- Timothy Morton, All Art is Ecological, xvi.

#### Cornelia Parker

Cornelia Parker (b. 1956) is an English artist best known for her installations and sculptural work, which often depict explosions of some kind. Explosions are a temporal occurrence. Through the physical suspension of materials in air, Parker suspends time for the viewer.

Cornelia Parker's work also touches on the debris of violence through the materials used to make the sculptures. In her now famous Mass and Anti-Mass installations, the materials are gathered from burnt chapels. The difference between Mass and Anti-Mass is that the former's materials were gathered from a chapel made up of a mostly white congregation in Texas that was burned down due to a lightning strike. The materials for Anti-Mass, on the other hand, were gathered from a black congregational church that was burned down by arson, a common hate crime in the Southern United States. The pairing of these two installations with their embedded material histories, highlights a racialized violence that crosses temporalities, both past and present, within the United States

These three artists work with time as a material in a mode similar to my own. The temporality of the climate crisis is hard, if not impossible, to perceive. Through the temporal acts of decay as seen in the rusting of metal in my tumbleweed installation, discussed below, to the suspension of car parts and rubber in the Slow Approach of Twilight, temporality is both a physical and conceptual material.



Cornelia Parker, Mass, 1997, Suspended charcoal retrieved from a Texan Baptist church struck my lighting, 320 x 335.3 cm. Image scanned from Iwona Blazwick's book titled Cornelia Parker.



Cornelia Parker, AntiMass, 2005, Suspended charcoal retrieved from a Kentucky Baptist church burnt by arsonists, 320 x 335.3 cm. Image scanned from Iwona Blazwick's book titled Cornelia Parker.

# Chakaia Booker

Chakaia Booker (b. 1953) is a sculptural artist based in Allentown, Pennsylvania. A self-defined, environmental artist, Booker is continually looking to highlight a connection with the environment and responsibilities for its contamination.

Using the rubber from discarded tires, Booker connects ecological concerns with racial and economic harm. The tires, through accumulation and repetition, symbolize industrialization, the auto industry, and the slow violence of pollution on communities of color. The accumulation of tire debris here makes the invisible accumulation of toxins within bodies visible. Accumulation is a temporal and material process. These sculptures point to the slow violence of environmental degradation.

Rubber too, is a temporal material as it is made from fossil fuels. Oil, as it is formed through deep time, is reconfigured into a rubber tire. The tire, an essential part of the car-centric model of the US, is an essential ingredient of modern western life. Travel, commerce, and a myriad of other modern experiences, are sped up through the tire. The tire is used in ways that the artist considers temporally, materially, and in terms of its function.

Chakaia Booker, The Feeding of Men, 2007, rubber tire, wood, steel, 54 x 57 x 65 in. Scanned from RubberMade: Sculpture by Chakaia Booker.



## <u>reonardo Drew</u>

Leonardo Drew (b.1961) is a sculptural artist based in Brooklyn, New York. Using oxidation, burning, and decay, Drew highlights the temporal processes used to make his materials. For example, many of Drew's sculptures employ rust, as a visible manifestation of decay. In using this process, Drew world. Drew describes his work as pointing to the cyclical nature of existence. All materials change over time and through their interaction with other materials; matter constantly cycles through decay and reconstitution. Drew's artwork holds us in that liminal space throughout our experience of the sculptural materials.

Cotton is another important temporal material which highlights the still present realities of slavery in the US. As a product of southern plantations which used slave labor to hand pick the cotton, Drew is referencing the US's deep history and foundation of slavery and racism. Cotton as a material, or a debris of violence, becomes a symbol of a temporal legacy. By using cotton in his work, Drew is bringing these temporal connections of the past to present into the modern conversation.

Leonardo Drew, Number 25, 1992, cotton, 108 x 120 x 46 inches. Image scanned from Existed: Leonardo Drew.



Artist(s) Case Study: Time as Material Chakaie Booker, Leonardo Drew, and Cornelia Parker

Time as a material has always been of interest to me. You can't think about the climate crisis without thinking about time, both in its connections to geological time and terms of urgency. Time is a central conceptual element of my work. I've been interested in how it can also be a material element. Time-based pieces, such as films or installations that change over time, are one approach. I use this method in several works such the Great Delusion, a time-based film that deploys references to temporal structures both directly and indirectly. But in thinking beyond "time-based" artworks, I sought to answer the thinking beyond "time-based" artworks, I sought to answer the question of how time might be used as a material in alternative ways.

Sculpture artists Leanardo Drew, Chakaia Booker, and Cornelia Parker serve as direct influences specifically in the way that their works conceptualize and materialize specific notions of time. Through repetition, suspension, and assemblage, each of these artists invoke and question layers of temporality. Additionally, their material choices are often linked to layered histories of harm, or what I think of as the debris of violence, which is also a temporal material.



Leonardo Drew, Number 14, 1990, oxidized metal and rust, 103 x 83 x 1/8 inches, detail view. Image scanned from Existed: Leonardo Drew.

The title of the installation, The Slow Approach of Twilight, was inspired by research. Within ecological degradation, the "shifting baseline syndrome" points to how we\*'re continually measuring current experience against an altered baseline. 34 The example given was the slow approach of twilight, where we\* often don't notice progressive or incremental change. Instead, we\* continually grow accustomed to the shifting loss and degradation around us. Amanda seems like a healthy ecosystem to us now, might have horrified those living 100 years ago.

However, I'm not only interested in twilight representing the imperceptible loss. I'm also interested in twilight as a point of change and a point of seeing differently. Twilight represents transition and liminality. Our eyes, adjusting to a new sensory input, hold both night and day in sight. It is a plurality of vision that is also spectrally expansive. What can we learn from the slow approach of twilight?

See Loren McClenachan's research paper titled "Droumenting Loss of Large Trophy Fish from the Floridas Keys with Historical Photographs." Brooke Jarvis summarizes this connection with "fish got smaller and smaller, to the point where the prize catches were dwarfed by fish that in years past were piled up and ignored. But the smiles on the fishermen's faces stayed the same size. The world never feels fallen, because we grow accustomed to the fall."



Beth Johnston, The Slow Approach of Twilight, 2021, installation view of research material.

Robert Macfarlane in his book Underland talks about how oil collapses time in its formation. After all, oil is merely the sun's light which had been transformed into energy and matter in the forms of plants, insects, and animals then compacted over millions of years which we\* swiftly extract and combust, the containing of fossil fuels, a geological force, or a maker of deep time. Simultaneously, an immediate response to the climate crisis is needed. This is emergency time. In this body of work, I visually explore how oil ruptures time. The insect assemblages, for example, appear to be covered in oil, a visual link between the formation of fossil fuels from biomaterial, the burning of fossil fuels which results in biomaterial, and insect health.

This rupture or disjuncture of time scales culminates in the strange slow-yet-urgent emergency that is the climate crisis. For example, the climate crisis reveals itself slower than we\* can fully perceive, and yet it is relatively urgent within human history. The climate crisis is thus a collapsing and expanding of time simultaneously.

I represent this contraction and expansion of time by way of a slow explosion of the vehicle parts. Car parts loom, suspended in air. The viewer stands amidst destruction, amid the unnoticed decline of insect lives and future human lives. The viewer is within the physical and metaphorical explosion. To state this another way, as human beings dependent on earthly ecosystems, we are in the midst of the climate crisis earthly ecosystems, we are in the midst of the climate crisis emergency. This ongoing emergency is often still not perceived.

The suspended windshields serve as an optical or perceptual materialization that links fossil fuel industry to ecological degradation. Control of public perception about the climate crisis and the ongoing legacy of how Americans view "nature" are important elements to the question of why we\* aren't adequately responding to the climate emergency. Through many deliberate and sophisticated PR campaigns, American individualism and freedom were directly linked to the US auto and fossil fuel industry. This connection continues today, with current debates about "energy independence" that falsely claim that fracking and natural gas are the answers to global conflicts such as the Russian and Ukrainian war. This connection between fossil fuel power and war is not always apparent. That doesn't make it any less true.





Beth Johnston, The Slow Approach of Twilight, 2021, installation views, windshield trames and suspended insects, 5.5'x 2.5' each.

others, illustrate how the fossil fuel companies had a heavy hand and early investment in shaping current ideals and values within the United States, that include American notions of freedom, individualism, and conservation.<sup>32</sup>
Education within an artwork is often a motivating force for me. In the installation of this work, much of this research is provided either through informational pamphlets, provided as a display, or through a short introduction. This allows the viewer to then experience the artwork with this information at viewer to then experience the artwork with this information at in the same room, the connections between fossil fuel companies and insect decline emerge. Insect decline is itself an entangled reality with ties to pesticide use (a petrochemical entangled reality with ties to pesticide use (a petrochemical product) and changing ecosystems within climate change.

Highlighting invisible connections is a motivating force for thighlighting invisible connections is a motivating force for

patterns witnessed in the realm of insects. 33 at the end of the day, we\* are just a few years behind these create (and destroy and justification thereof) as a species... but overly complicated language for describing all that we\* do and sophisticated global capital systems, we\* may have robust and to ecological food chains of humans and non-humans, to planet is connected to insect health. From plant pollination, one degree separated from insects. Every living thing on the represents, I start to feel the loss. We\*, as a species, are furs tact, and all of the entanglements this connection strange, to say the least. When I allow myself to contemplate lifetime coincides with the unnoticed insect apocalypse is realization opens up an emotional response. To know that my I was born. I am connected to these threads by time. This have largely occurred since the 1980's. This was also when material. Both insect decline and climate denial campaigns When walking through the installation, time is the invisible

Science predicts that only twenty percent of insect species across the globe have been identified. Yet, we\*'re currently losing species through extinction before we\* can even notice them.

32 See Westervelt, Rigged.

most of my work installations.

A strange fact that illustrates the insect connection to global capital is that food crop pollination is worth at least \$500 billion per year. With insect decline, farmers are now having to pay for pollination by hand. See Silent Earth for more of these connections.

Beth Johnston, The Slow Approach of Twilight, 2021, installation view of insect assemblage pieces.



continue to invest significantly in the denial of the climate displacing blame. Fossil fuel companies have invested and measurement for when it is burned by a consumer, once again carbon impact during production. The "low carbon" label has no is a new product called a low carbon fuel which only measures individualism is a celebrated national ideal. This year, there campaign is especially effective in the United States where displaces blame from the industry onto the individual. This include campaigns such as individual carbon footprints which third is now rampant. Examples of this are ubiquitous and largely given up on the first two denial campaigns, and the and green capital are the answer. Fossil fuel companies have  $we^*$  have plenty of time to figure it out and that technofixes that humans aren't the cause of changes occurring; and that of denial campaigns identified; that climate change isn't real; about the climate emergency. There have been three main forms industry's use of PR firms to deliberately mislead the public The second, contemporaneous thread, points to the oil

The making of these denial campaigns and their efficacy is a complex and layered history that has ties to beliefs in the American dream, nationalism, individualism, American freedom, and nature as commodity that were formed over the last hundred plus years.<sup>30</sup> Fossil fuel companies, alongside tobacco, automotive, and petrochemical companies, have been purposefully automotive, and petrochemical companies, have been purposefully antomotive, and petrochemical companies.

curara.

in this sophisticated PR scheme. These examples, and many nature, conservation, and the American dream are all entangled between the auto industry, fossil fuel companies, and ideas of gas stations along the routes to the destinations. A connection depicting National Parks, could only be collected by visiting and capital consumption of fossil fuels. These posters, mainly which illustrate manufactured links between ideas of nature of war. Rigged also highlights collectible landscape prints, from the 1950s that link ideas of American Freedom to ideas database are mid-century ephemera, such as fossil fuel posters deliberate denial of the greenhouse gas effect. Also in this ofher scholars' research, including documents proving Exxon's website, an open-source database of Westervelt's and many global warming. In this interview, I heard of the Rigged pelped uncover the fossil fuel industry's complex role in Westervelt, an independent environmental journalist, who has I was introduced to this research by an interview of Amy

SO See A Strategic Nature by Melissa Aronczyx and Maria Espinoza.

I See "Climate One Collaboration: Breaking Down Climate Misinformation" by Amy Westervelt for Drilled Podcast.



Beth Johnston, The Slow Approach of Twilight, 2021, installation view.

Work Analysis: The Slow Approach of Twilight Medium: Sculpture, Installation, Photo, Video

If all of mankind were to disappear, the world would regenerate back to the rich state of equilibrium that existed 10,000 years ago.

If insects were to vanish, the environment would collapse into chaos.

-E.O. Wilson

As an immersive installation, the viewer of The Slow Approach of Twilight first encounters a slow-motion video of various insects taking off for flight. This video is projected from a rear-view mirror, initially out of sight of the viewer. As they move past the video, various sculptures appear including a large assemblage of wiper blades, two suspended windshield frames with grasshoppers dangling in the middle, and accumulated and blackened insects in layered and block forms. Various fossil fuel industry ephemera, evidence, and research is displayed as research. Lastly, the viewer may notice a small elapsed hour-glass in the corner, indicating that we\*'re out of time.

There are two main research threads present in The Slow Approach of Twilight. The first is the relatively quick and unnoticed decline in insects across the world. Recent studies have found a 45%-75% decrease in insect population in the last nobody thought to measure insect population until anecdotal accounts about the noticed absence began to build. Science, in other words, had a blindspot to this problem; it is currently in the state of trying to catch up. One of these anecdotal accounts is termed the "windshield phenomenon", which points to the realization that you no longer need to clean insects off your windshield like you used to.<sup>29</sup> The windshields, present in the installation, point to the windshield phenomenon as well as auto and fossil fuel industries' role in ecological collapse auto and fossil fuel industries' role in ecological collapse through the burning of fossil fuels.

This is a complicated field of research to summarize since some insects are thriving, such as mountain pine beetle, which indicate ecosystems being out of balance. A few books dive into this complication including silent Earth by Dave Goulson.

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For a beautiful, alarming, and insightful description of the insect apocalypse see this New York Times Magazine article by Brooke Jarvis: <a href="https://www.nytimes.com/2018/11/27/magazine/insect-apocalypse.html">https://www.nytimes.com/2018/11/27/magazine/insect-apocalypse.html</a>





### Temporal Disjunctures

The porosity of assumed discrete boundaries extends to concepts of linear time. We\* are creatures living in a fast-paced, semi-virtual reality and we\* must find ways to tune into the wildly disorienting as a direct result of our extractive and consumptive occurring as a direct result of our extractive and consumptive

A strange temporal landscape emerges within the climate crisis. For example, carbon dioxide released today may not take full effect until 40 years from now. This is referred to as "carbon loading" and is the baseline of the statement that "change is baked in"; if we\* were to cease emissions completely today, the average global temperature would continue to rise for the next several decades, continuing to trigger tipping points into the future. This is an example of a temporal disjuncture or chasm. Future, Today dictates reality in the cascading future.

Alexis Shotwell points to this by explaining that "tense" (as in linguistic, grammatical temporality) from within the climate crisis "intermingles." Here, Shotwell is not only talking about the carbon loading disjuncture but is pointing to the complex ways in which histories entangle futures through systems of oppression. She says "The past involves the present and the future, the present entangles the past and outlines what is to come, bringing the future into the past, and the future rests on a situated past and can only "happen" in the present; tense intermingles." 27

In a myriad of ways, the climate crisis represents a transformation of temporalities: where today becomes the future and deep time, or geological time, becomes emergency time. As our now time becomes more layered, complicated, warped, and potent, exploring and imagining time's many modalities becomes both necessary and helpful for re-imagining realities.

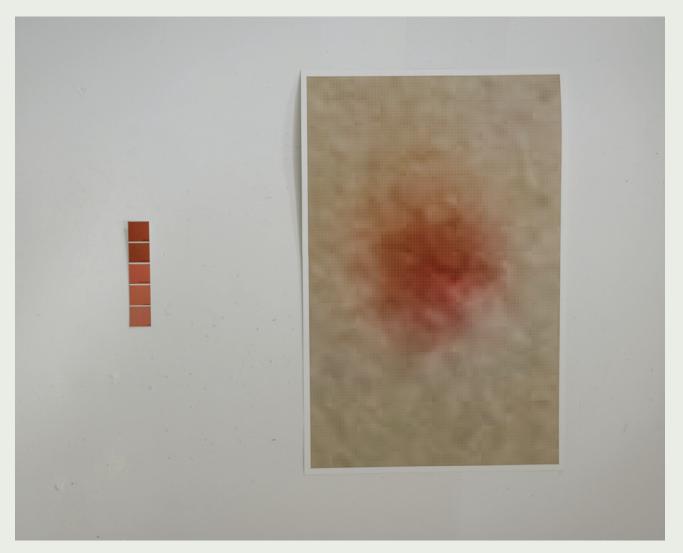
Deep cine
eological time
Kinship time
Linear time
Cyclical time
Plant time
Memory time
Trauma time
Accident time
Military time
Military time
Military time
Military time
Military time

Visual Pairing: Cherry Angioma and Red Paint Chip

Wedium: Photography

The photo on the left is a large, pixelated cherry angioma on my breast. The original photo was taken on color medium format film after a shower when I had given myself a mammogram. Zooming into the photoshop's color picker tool to find similar reds in various photographs I had taken weeks before and after. These reds were then compiled into a paint color strip, like the ones you might find at Home Depot. Clay, worm skin, and a mineral vein became the names of the extracted reds on the paint strip. This visual is a play on the color index and purposefully blurs the line of the extracted reds and incompaint and is a play on the color index and purposefully blurs the line petween my body and non-human entities surrounding me. Through our collective red archive, I become one of many parts of the ecosystem.

As with the blurring of my body with my ecosystem, climate change requires a re-imagining of assumed boundaries. In much of my work, the porosity between seemingly discrete spheres is highlighted. For example, what happens to the worms that are dying in the soil is indicative of the toxicity my body is being exposed to as well. In the above works, the porosity between my body and larger systems of environmental injustices to both human and more-than-buman lifeforms is highlighted. This porousness helps bring climate data and research into an interdisciplinary and intersectional discussion.



Beth Johnston, Red Dots, 2021, photographic prints, 16" x 30" (image on the left) and 2" x 10" (image on the right).

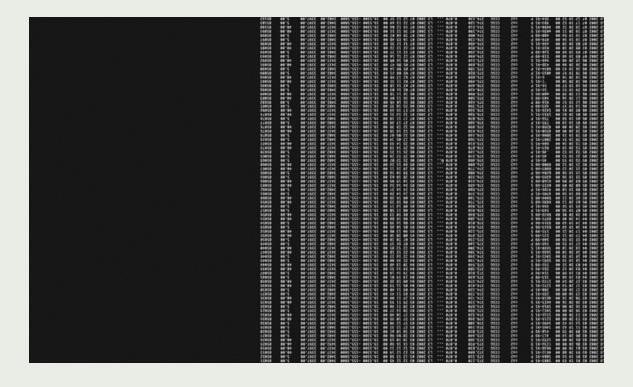
Visual Pairing: CO2 Scroll

Material: Looped Video and performance of text.

The looped video shows CO<sub>2</sub> concentration data from the Scripps Laboratory in Hawaii. Projected onto the wall while I stand within the projection and perform the Red Dots text, the data covers my body. The video oscillates in its speed, like the text, but rarely slows enough for the words or text to be clear, pointing to the imperceptibility of climate change. CO<sub>2</sub> itself is invisible but with "CO<sub>2</sub> load" the impacts of our emissions won't be seen for decades, thus representing a temporal disjuncture.<sup>26</sup>

The data, which has been collected since 1958, corresponds roughly with the lifetime of my mother. This reference points to inherited perspectives and intergenerational physical and non-physical toxicity. I'm interested in the porosity between generations and the legacies passed down from one to the next. The climate crisis, like settler-colonialism, is an inherited reality that we\* may or may not perceive. By directly and indirectly referencing these inherited realities, I hope to bring them into perception and into the conversation.

This video projection and performance situates the data on my body and immediate surroundings. Paired with the text and embedded story, the data becomes grounded and embodied through my personal experience, enlivening the carbon dioxide concentration figures. While the text mainly talks about concentration figures. While the text mainly talks about concentration figures. While the text mainly talks about control create carbon dioxide pollution. Thus, by placing these two forms of environmental harm together in this performance, I am highlighting their entangled connections, blurring the lines between seemingly disparate problems. Further, by using my impacted body within the piece, I also point to my complicity, complacency, and role within toxic ecologies.



Beth Johnston, Red Dots, 2021, video still from projected video performance.

The text is concerned with temporal discontinuities. The slow appearance of red dots is in reference to environmental scholar Rob Nixon's book Slow Violence: Environmentalisms of the Poor. Nixon highlights how the slow and often invisible appearance of health degradation from environmental pollution results in corporate and government sanctioned polluters not being held responsible for their harm.<sup>24</sup> The USDA, for example, has never been held accountable for their endorsement of harmful othemicals. Thus, slow violence is a temporal chasm that erases responsibility.<sup>25</sup> The slow appearance of red dots across my body is a material and visual stand in for toxic accumulation that is a material and visual stand in for toxic accumulation that because of its slowness and temporal discontinuities, slips through both perceptual frameworks and legal frameworks.

Kath Weston's book, Animate Planet points to the myriad ways that from within the climate crisis, we\* can no longer trust our senses to tell us when there is danger. The section that starts with "I see the red dots across the landscape" and ends with "they're not even red" points to this sensing and knowing beyond human visual perception, that something is indeed wrong. This highlights an intuitive and embodied as illegitimate. Here, I'm highlighting how these forms of sa illegitimate. Here, I'm highlighting how these forms of as illegitimate of truths beyond our current modes of perception.

I have paired the Red Dots text with several different visuals two of them here.

He emphasizes that "while spectacle-driven messaging impels most public activism today, slow violence, because it is so readily ignored, exacerbates the vulnerability of ecosystems and of people who are poor, disempowered, and often involuntarily displaced."

Julie Sze, in her essay titled Scale, investigates scalar jumps and calls for a multi-scalar lens in which to view the entanglements of the climate crisis. She points out several scalar jump that erase responsibility in a similar method that I argue temporal jumps can. See Keywords for Environmental Studies, 178.

toxicities. and then I thought about how each place holds their own specific these toxic realities and their connection to this one place, allowed because of their date of first use. I thought about chemicals that are grandfathered in- that they are only still were good because they were feeding the nation. I thought about chemicals. My dad, and the farmers before him, were told they thought about how the USDA approved and supplemented those before my dad who also covered the land with chemicals. I my childhood home. I thought about the generations of farmers cancer. I thought about the barrels of chemicals surrounding about how most of my parent's friends, all farmers, had died of grandmother, also a farmer, who had died of cancer. I thought of pesticides and crop dusters. I began to think about my specific memories about life on our family farm, like the smell being just that, a scare, but it brought to the surface several from my mom about a breast cancer scare. The scare ended up to be reading Rachel Carson's Silent Spring when I got a call a lot about environmental justice and toxicity and happened specific mother, who also has these red dots. I was researching across my body: a reminder that my body is the daughter of my apomer, as I began to notice a drastic increase in red dots The formation of this work came in phases. First, in the

An experience of an entangled temporal toxicity emerged. Red Dots, the artwork, is my response to this experience.

As I drove back home during winter break from grad school, I recited the Red Dots text to my voice recorder. The words had been forming for months, and during this drive back towards home, they flowed effortlessly. I then transcribed the voice recording to written text.

The text oscillates in tempo and scale. When spoken, there are moments of rushed and slowed speech such as the rushed attempt to rationalize that the red dots don't indicate cancer, where each sentence immediately connects to the next temporally. There is a scaling out from my positioned, individual experience of life on a rural farm in Idaho to global impacts of environmental racism.<sup>23</sup>

```
Only this glitter represents a dismissed violence
                          and your vision is glittered for a moment
          Perhaps it's like when you look into the sun accidentally
                                               They're not even red
                                                             Mostly
                                                           Sometimes
                                                           Saturated
                                                           Scattered
                            I see the red dots across the landscape
                                                           Swelling
                                                           To swell
                                           Blood rushing to a wound
                                               Of something hurting
                                                        Of bleeding
                                                    Signs of burning
                                                                 Red
                                                 I see the red dots
                                                        communities
maps of brown, black, indigenous and anything but upper-class white
    When I encounter maps of industrial pollution superimposed with
                                                I feel the red dots
                     When I drive past entire forests turning brown
                                          I think of these red dots
                  When I see the snow melting through mining sludge
                                              These little red dots
                                                            Knowing
                                                         And perhapa
                                                        And lasting
               But the connections we make as children are profound
                                 But even that is a low probability
                                                  Skin cancer maybe
                            It wouldn't be linked to these red dots
                     I know that even if I was to get breast cancer
                                              I know they're benign
```

Or is it?

A long violence A Slow Violence

Of seeing something that isn't there

These sprinkles, these dustings, these marks

I fyruks Nofyrud

I give myself a mammogram after a shower Spreading across my body A slow appearance One near my belly button this week One on my bottom lip last year One on my upper eyelid a few years ago XIS WOM First, one on my breast, then another They appeared slowly I now have these red dots That they were a sign of something wrong. My mom would get breast cancer because of these dots But I remember, at the age of five, worrying that And common I've come to learn Almost all cases They're benign in most cases Bright red mole-like bumps where blood vessels have erupted Cherry angiomas I remember seeing the red dots across her chest and poking at fight shift I would crawl into my mom's bed after she got home from a eans jou w,I Before or after this Or more likely a collection of points Arioq emos tA 45 minutes later, I could go back outside I'm sure he had a million things to do He was in a rush Because a crop duster was coming that afternoon I remember my dad telling me to stay inside Red Dots: Full Text

Medium: Text, Photography, Video, and Performance

Work Analysis: Red Dots

(1.m 3 or 4 years old. There's a lot or orange, /us darpets, other sticky kids roaming around- I'm at a daycare, my mom is just off from a double nursing shift.)

"saint ai rolos Jahw" :9M

( $oldsymbol{ t pop}$ 

My Mom: "red"

Me: "but what is your red?"

### The Unsensed Danger

too awful to comprehend. This did not make them any less true. difference"(1). In this case, the implications were too horrifying, young man is lying. I said I am unable to believe him. There is a frank. I am unable to believe him." He added: "I did not say this Court Justice Felix Frankfurter replied to the courtroom "I must be fighter testifying about the systematic murder of Polish Jews. Supreme Marshall's book opens with a chilling recount of a Polish resistance psychologically to comprehend and respond to the climate crisis. Researchers are continually uncovering how we\* are not well equipped to the ways that climate change is beyond modern Western perception. need) to ignore the many testimonies to this ongoing crisis. All point Think About It, is dedicated to exploring our collective ability (or calls it the Great Derangement. George Marshall's book Don't Even complexities of the climate crises as a Hyperobject; Amitav Ghosh philosopher Timothy Morton conceptualizes our inability to grasp the climate change, you're experiencing cognitive dissonance.21 Ecological climate crisis. Psychiatrists argue that if you're thinking about Several scholars posit theories about why we\* can't conceive of the The climate crisis is a similarly imperceptible and lurking danger.

Today, I woke up to reporters in Ukraine after the Russian invasion saying, "it all felt so surreal." I certainly do not fully perceive or understand the scope of the danger we\* face; still, I have spent enough time listening, watching, and attempting to look at this peril that is climate change to say that it is indeed dangerous, unjust, and here.

Wexive got to find a way to perceive (and believe) the danger.

<sup>21</sup> For one example of this see the following article: <a href="https://www.bbc.com/future/article/20190304-human-evolution-means-we-can-tackle-climate-change">https://www.bbc.com/future/article/20190304-human-evolution-means-we-can-tackle-climate-change</a>

The Ukrainian war is indeed another tentacle of the climate crisis as fossil fuel industries not only fuel the war, benefit from the war, but also scaffold Putin's power within the Euro-western paradigm. This thinking is informed by Amy Westervelt and other journalists tracing fossil fuel influence globally.

## Perception of Danger

Because truths we don't suspect have a hard time making themselves felt, as when thirteen species of whiptail lizards composed entirely of females stay undiscovered due to bias against such things existing, we have to meet the universe halfway. Nothing will unfold for us unless we move toward what looks to us like nothing; faith is a cascade.

-Alice Fulton, Shy One

I remember walking in the Amazon jungle, following as close as possible to Andreas, my machete swinging guide. A native Peruvian, Andreas saw spiders, snakes, and shades of red that I had never conceived of. Where I saw merely a leaf, he saw many beings, including baby tarantulas. He moved swiftly and gracefully through the shoulder high vegetation while I stumbled, and worried, and tried to control my surroundings using visual classification, like identifying plants I'd seen in a textbook.<sup>19</sup>

I have come to understand this experience as indicative of the knowledge systems I have inherited. What we\* perceive is linked directly to inherited ontologies and epistemologies, like my inability to perceive the multiplicities of life present in what I saw as a single leaf. My Peruvian guide had spent time in the jungle, training his eyes to make out the difference between a vine and snake. Time was his teacher, not only through his life, but through the generations of knowledge that were accrued through lifetimes of relations with these ecosystems before him. I had to follow closely, knowing that I couldn't see or sense the dangers all around me. 20

- 19 I'm thinking here about Linnaeus' method of classification that created arbitrary hierarchies and categories amongst the natural world.
- 20 I tell this story not to highlight my voyeuristic and privileged eco-tourism, but rather to point to the ways in which that experience illustrates yet another loss of the colonial project.

For this project, I wanted to understand what a 4 degree shift could mean physically as I wrestle with my own understanding of what a mere matter of degrees would entail. Taking color negative film, I processed the film at 4 degrees Celsius above the recommended 37.7 degrees Celsius, resulting in dramatic color shifts in the resulting images. Color negative film has a small margin of error of only I degree Celsius to render colors correctly. It is, thus, a powerful visual metaphor for the earth's relatively small temperature range visual metaphor for the earth's relatively small temperature range become grey, the grey floor becomes blue. In other images, the sky becomes red and water appears toxic. When we look at the sky now, we cannot perceive the accumulation of greenhouse gases or feel the shift in global temperature. These images are a materialization and shift in global temperature. These images are a materialization and

visualization of climate data, making the invisible threat visible.

Furthermore, these images visualize the uncanny. As I walk around the world while reading climate science, there is a creepy and disturbing knowledge that what is seen is not reality. For example, as I read about ocean acidification and the rising water temperature that will trust my sight to tell me that something is wrong. The ocean appears as it always has from my perspective. The uncanny, becomes my everyday experience as I walk through the physical world, grappling with this perceptual gap. 18

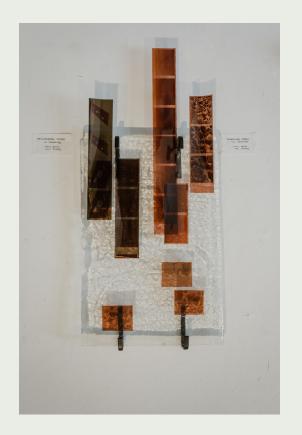
This visual data encounter on its own may or may not compet action, but coupled with other work, other conversations, or other experiences, it provides another experience and avenue to grapple with what these data sets mean.

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For a discussion on how the earth's current stable climate as writing, agriculture, the formation of cities, etc see Elizabeth Kolbert's book Field Notes from a Catastrophe.

Environmental philosopher Glenn Albrecht's term "solastalgia", or the homesickness you feel when you're already home due to ecological destruction, is also apt here. See Earth Emotions for a description of solastalgia and other proposed terms.





Beth Johnston, Matter of Degrees, 2021, photographic prints, rocks, glass slab and film, installation view.

Work Analysis: Matter of Degrees

Medium: Photography

Scientists tell us that 344 billion tons cice pas melted.

But 344 billion tons is magical counting...

the problem is not precision.

The problem is perception.

-Anne McClintock, Too Big to See with the Naked Eye

To know about the climate crisis is to know it partially; it is too complicated, too stratified, and too multiple a problem to be totally perceived by the modern subject. Alexis Shotwell describes it as a "problem we can't know the full shape of" and that is "impossible for any one knower to understand." The climate crisis's scale alone, as planetary, is beyond human scaled perceptions of space and time. In her book, Animate Planet, Kath Weston argues that the age of high-tech ecologies has forced us into a realm where our visceral senses, including sight and touch, no longer point to current realities. For example, achy joints might still tell us when rain is coming, but they give no clue to the increase in global temperature or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations. The climate crisis is too or rising carbon dioxide concentrations.

In Matter of Degrees I attempt to visualize climate data using photographic film; it is my effort at making the invisible visible through material manipulation. Current climate models predict that there will be a 4-degree Celsius rise in global temperature by the year 2100. While climate models have trouble agreeing on exactly what a 4-degree change might entail (due to the various factors at play), scientists do agree that the global climate would be radically altered, so much so that it would be unrecognizable from anything human beings have ever experienced. The last time the earth's human beings have ever experienced. The last time the earth's epoch when volcanic activity saturated the earth in COS emissions. I've read more than a few times that 4 degrees Celsius is so terrifying that most scientists would rather not contemplate it and terrifying that most scientists would rather not contemplate it and would rather put their efforts into figuring out what to do now. 16

From a lecture with Heather Houser at Rice University. See Shotwell et al. "Cultures and Media of Environmental Health."

One example can be found halfway through The Guardian's essay "The heat is on over the climate crisis."



Beth Johnston, Matter of Degrees, 2021, digital scan of film that was processed at altered temperatures.

is within a Euro-western framework such as academic journals, which assimilates and radically alters that knowledge in the process. Language data specifically, Houser argues, has a way of pointing out systemic failures as the data continues to reveal its own limitations, what it cannot show, and its entanglements with colonial legacies and spheres beyond climate science. Ironically, Houser posits, this and spheres beyond climate science. Ironically, Houser posits, this infowhelm encounter can be the catalyst to invite a new form of knowledge, one that simultaneously looks at the realities of climate science, and the realities beyond climate science.

encounter. to live differently. This, for me, is a productive and activating repetition, illustrate a need to invite radical imagination for how fyondy' fyese infowhelm encounters, through their accumulation and is just one thread of a giant knot. Rather than ending in paralysis I get overwhelmed with how complex the problem is, knowing that this extractive practices that harm global South communities and ecologies. proposed solutions such as renewable energy that is contingent on more I encounter the global temperature rise thresholds, I think about and capital legacies (among others). One such example is that as Tu the past, present and future that are entangled with colonial and epistemologies. The data has now come to represent realities me to action and to consider the limits of my inherited perspectives experienced my own personal tipping points, ones that have compelled and impacts of natural disasters, as just a few examples, I've list after list of extinct species, examples of environmental racism action. I speak here from personal experience. As I've encountered The accumulation of data encounters can create tipping points for

By using climate data as a raw material in my artwork, I hope to enliven data and support it while looking critically at what it might not be showing or doing. I use repeated data encounters not to produce paralysis, but to make the data move, to re-ground the data through embodied and emotional experience that can propel action. Data, through affect, becomes nerves, becomes matter both within and outside of the porous body as the data encounter enacts different forms of living, being, and knowing. The accumulation of data encounters can be a catalyst, a tipping point, a world-making strategy and if nothing a catalyst, a tipping point, a world-making strategy and if nothing else, the start to an informed conversation.

See Gregory Cajete's book Native Science which highlights how native epistemologies don't isolate an object or phenomenon in order to understand it, but perceives all elements in relation to one another. Cajete explains that extracting knowledge for academic journals alters the relational and contextual knowledge that is essential.

plenty of time to reduce emissions. Climate data is already campaigns in various forms including the lie that we\* now have Fossil fuel corporations are still fueling climate denial data is that many in the United States don't know these facts. Another important factor in my desire to name this climate

The Data Encounter as a Tipping Point

not to dismiss these disciplines but to critically build upon them. 12 the current boundaries of modern disciplines like climate science, effective strategy to build knowledge about the climate crisis beyond in how the data encounter, or infowhelm as she calls it, can be an emotional experience. Following Heather Houser's work, I'm interested and a means of communicating the data differently through embodied and point towards climate data to provide a shared baseline of knowledge Dots, and The Great Delusion, all discussed below, I incorporate or In much of my artwork, including Dear Reader, Matter of Degrees, Red

baseline for conversation, education, awareness and action.  $^{\text{II}}$ 

as low as possible and that the 1.5 degree threshold is a necessary  $\operatorname{cr}_{Y}$  there is no disagreement about the need to keep global warming unintended consequences about using this exact number as a rallying summary might indicate. Thus, while there is some caution about the but rather they are just more complicated than the 1.5 degree Celsius state that this is not to "argue that danger points do not exist,"

the scale and entanglement necessary.  $^{13}$ impetus to rethink systems, including current knowledge systems, at actually break through this numbed body experience, and be a necessary off Benjamin's work, argues that the experience of infowhelm might a continuation of the onslaught of shock. Heather Houser, building always changing, lists upon lists of figures and data, seems to be the human sensory experience. The climate crisis and its never ending, attested, the continual state of shock of modern life has atrophied As German philosophers Walter Benjamin and Theodor Adorno have

knowledge of ecological degradation is not considered valid unless it embedded blind spots and biases. An example of this is how indigenous histories of surveillance, control, and colonialism that have western technologies of data collection are imbricated in various that produce said data. Houser argues that we must look at how Euroespecially in the United States, but also of those knowledge systems not only the problem of public education about climate science, knowledge crisis. This epistemological crisis is one that highlights Houser, like many others, argues that the ecological crisis is a

possible and appropriate in my opinion. deserves to be stated clearly as a form of activism whenever the onslaught of misinformation. Thus, this scientific data entangled beyond perception, and seemingly opaque, without

Infowhelm is also the name of Heather Houser's book. ZT

see Infowhelm, page 21. εт

Mork Analysis: Dear Reader

Medium: Typed Letters

6

Amplifying the conversation and providing education about the climate crisis is at the heart of most of my artwork, including the above collection titled Dear Reader. In the first section, accumulated fragments, stutters, and attempts to address an absent and temporally ambiguous audience represents both the multiple voices within myself as i grapple with the climate crisis as well as various persons I have been in conversation with, including friends, family members, theorists, and artists. The audience here is both individual and collective. The full letter, which introduces the list of global temperature change thresholds, was written with friends and family fremperature change thresholds, was written with friends and family the course of my life. I ultimately came to graduate school to study and make artwork about climate change because of this encounter; thus, this letter is also written to a temporally dislocated self.

is cause for celebration and hope." The article quickly goes on to a make or break point. Importantly, each 0.1-degree increase avoided that the "1.5 degree goal can be a useful spur to action, but it's not Yale Climate Connections summarizes this argument with the statement beyond this point, there is no hope. A recent article published by already having catastrophic impacts around the world and implies that climate science and systems, erasing the fact that global warming is a tipping point at exactly 1.5 degrees Celsius which oversimplifies Furthermore, by stating this number as a goal, it seems to indicate this presumably unattainable goal results in paralysis and despair. the risk of runaway climate change,  $^{8}$  there is also a fear that stating agreement that we need to keep global warming below 1.5°C to reduce and statements is a multifaceted topic. While there is widespread the climate data provided, a seemingly straightforward set of lists has embedded conflicts, complexities, and contradictions. For example, Dear Reader, introduces the ways in which the climate crisis discourse

I owe much of this phrasing to Wicole Merola.

The International Panel on Climate Change (IPCC), the leading authority on climate science, put out a report in 2018 called "The Special Report on Global Warming of 1.5°C" in which 1.5°C was highlighted as the threshold to keep catastrophic warming and tipping points at bay. For an in-depth analysis of the report and the difference between 1.5 degrees and 2 degrees of warming, see Yale's Climate Connections website.

Kyle Powys Whyte's essay titled "Time as Kinship" offers yet another important consideration as he highlights how this kind of data can create an urgency that reproduces and perpetuates the same neoliberal systems that produce climate injustices. Instead, he calls for thinking about time in terms of relationships or kinship.

10 See Richels et al. "The 1.5 degree goal: beware of unintended consequences."

have a valid warning but aren't believed. Cassandra syndrome or phenomena now refers to those who would believe her concerns or warnings of the future. The rejected Apollo's love, he cast a curse so that nobody Cassandra who had the gift of prophecy. When Cassandra The "chorus of Cassandras" refers to the Greek myth of

to join in on the chorus of Cassandras.<sup>6</sup> and more complex and more immediate than we can describe, I have you hear scientist after scientist say... no this is actually worse I hope I'm being dramatic and theatrical. I really do. But when

Dear reader,

-David King,

climate scientist at NASA -Peter Kalmus,

".exrs well a dauf a few years." climate emergency mode and end society would switch into "If everyone could see what I see coming,

one of Australia's top public scientists

We are in a very desperate situation."

is going to determine the future of humanity. "What we do over the next three to four years...

Dear Reader,

I have no idea what your beliefs are, what your background is, or what your education about the climate crisis looks like. I am not interested in assuming that I have something new to tell you. So let's start there. What drives me to make this work is that somehow in 2022 we're still not talking about the climate crisis, at least not in the capacity and complexity it climate crisis, at least not in a neat box- over there- to be opened occasionally. When in actuality... it is the air we breathe.

A degrees Celsius above pre-industrial global temperature has been stated as the disaster threshold. Newer studies find that things are unexpectedly accelerating quicker than predicted and that 1.5 degrees Celsius should be the goal. We're at 1.18 of that 1.5 now. We're heading towards a 4-degree Celsius increase by 2100- something scientists say is truly beyond comprehension. A mere matter of degrees is the difference between life and death as we know it on this planet. This isn't hyperbole or a metaphor. We are living within the sixth mass extinction. Currently.

In order to stay below the 1.5-degree critical threshold, we must cut emissions dramatically in the next seven years. By the time you read this, less. We do have the means to reach this goal, but it requires the collective entering the conversation.

So, yes, I will repeat these things until they need to not be repeated.

Mṛfp sṛucexṛf $\lambda$ '

Ветр

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Connections and George Mason University, 15% of Americans still don't believe in global warming, 25% indicate that they are alarmed, and 60% remain apathetic for various reasons. See Leiserowitz et al. "Climate Change in the American Mind."
          According to a study released in 2021 by Yale Climate
                              You might have already survived an apocalypse.
                                                                          Dear reader,
                                               already. It resides in your body.
  I won't bombard you with catastrophic data, you've been through that
                                                                          Dear reader,
                                                                            alarmists.
  I hope this is a small chapter in history books. I hope we're called
                                                 10, 20, 30, 100 years from now...
                                                                          Dear reader,
                                                     This conversation needs you.
                                                                          Dear reader,
                                  Politics are getting in the way of hearing.
                                                                          Dear reader,
              carpet occasionally when it isn't as cold as it used to be.
      they're just there - in a box over there - spilling out over your
     You know all the facts, you've been moved by them a few times, but
                                                                          Dear reader,
                                       You might feel apathetic and powerless.
                                                                          Dear reader,
```

You might not yet be convinced.

Dear reader,

Dear Reader:

Dear reader

100 years from now... 30 20 10

. we're called alarmists.

I hope this is a small chapter in history books. I hope

Beth Johnston, Dear Reader, Attempt #6, 2022

I look to the scholarship of Indigenous, Black, Latinx, Queer, and other voices aligned with acknowledging that the climate crisis is rooted in colonial and imperial systems, including Western Epistemologies. Native scientist, scholar, and author Robin Wall extend beyond western containers of the empirical and intellectual, to include the emotional and spiritual as legitimate and necessary to include the emotional and spiritual as legitimate and necessary ways of knowing. Katherine McKittrick's book Dear Science and Other Stories illustrates how "narrations of imprecision, and relationality interrupt knowledge systems that seek to observe, index, know, and stories illustrates how "narrations of imprecision, and relationality interrupt knowledge systems that seek to observe, index, know, and interrupt knowledge systems that seek to observe, and personal effections in addition to my academic writing, I attempt to extend categories of knowledge."

Finally, there is a fragmented, accumulatory, and oscillating way in which climate crisis knowledge is formed. In her book Infowhelm, Heather Houser states that "juxtaposition, contradiction, and temporal layering" (4) are needed strategies for affective and embodied understanding of the climate crisis. I use these tools in my artwork as well as in this essay to embrace a different kind of knowing, one that is formed through non-linear accumulation.

The suffix "-ation" signifies action. It transforms verbs into nouns.

I'm interested in the act of making, in the process, in the embedded verb of making new forms. This is not as an act of arrival, but as active, unfinished participation in making new realities: in making new form-ations.

This essay is a collection of micro-essays, or particles, that explore several themes, the most prominent of which are non-linear time, affectualizing data, and concepts of nature as they relate to the climate crisis. Many other elements float through these pages such as ideas about perception, entanglement, and more-than-human worlds.

These essays provide multiple entry points into my practice and can be read in any order. They have porous boundaries and are meant to cross-read in any order. They have porous boundaries and are meant to cross-pollinate. It is in their current gathering, in their accumulation over time, that something else is formed (ing).

I have great respect for empirical and intellectual forms of knowledge. What I'm attempting to highlight here is working beyond these discrete categories. Climate science, for example, is a very needed and important form of making climate change known. I'm interested in honoring climate science, while also seeing its biases and limitations to enact political and social change. There are unknowns, potholes, and incongruencies that lie beyond scientific categorization and incongruencies that lie beyond scientific categorization and what it perceives.

#### Introduction: Notes on Form (ation)

Simple problems... have defined causes, objectives, and outputs.

Wicked problems, though, are multifaceted in every respectthey are incomplete, contradictory, and constantly changing...

As a result, there is no point at which one has enough
information to make decisions. Instead, wicked problems demand
a continuous process of evaluation and redefinition.

-George Marshall, Don't Even Think About It

The climate crisis is a wicked problem. It requires creative communication, wrestling with contradictions, active re-working of systems, and employing multiplicities of knowledge. Michelle Murphy calls this "alter-modes of collaboration." This thesis essay is an extension of my scholarship, artwork, and personal ethos; I'm interested in how this essay form can also be an alter-mode of collaboration.

My research on the climate crisis compels me to rethink systems on every level: to rethink "life" and what constitutes "life" as we\* know it, and how we\* know it, while also trying to not lose our grounding, to not get lost in paralysis. This need to rethink systems arises not out of a desire to merely think differently, but precisely because the climate crisis is an existential crisis and demands it. As I engage with this scholarship and reality, I find myself wrestling with how I can join this movement to rethink current power structures and systems.<sup>3</sup>

Alter-concepts and alter-modes are part of Michelle Murphy's working concept of alterie which "names life already altered" in reference to the colonial chemical pollution that is a shared, yet differentiated, reality. This extends to social and political structures that are colonially "contaminated" as well. I start from an altered-life mindset. See "Alterlife and Decolonial Chemical Relations," 496.

See the essay "The Problem with We\* And the Limits of I\*" for a look at the term "we". I use the asteriak symbol behind "we" to visually remind first myeelf but also a potential reader, that speaking of "we" here is not a universal "we" which erases specific responsibility.

This wrestling is informed by many scholars including E. Tuck and K.W. Yang's essay "Decolonization is a Not a Metaphor". The article asks us within academia "to consider how the pursuit of critical consciousness, the pursuit of social justice through a critical enlightenment, can also be settler moves to innocence – diversions, distractions, which relieve the settler of feelings of guilt or responsibility, and conceal the need to give up land or power or privilege," 21.

HOR CONSIGERATION: WHAT IS CLIMATE CHANGE?

```
climate change
global warming
the climate crisis
the climate emergency
the sixth mass extinction
the sixth mass extinction

it is not static.

but is absolutely carbon dioxide in the air.

it is not one thing.

it is a yes, and.

it is evolving and responding.

it is evolving and responding.

it is a verb.

it is a verb.

it is a verb.
```

rr ra ru brocesa..



Notebook scan, January 2022.

# 6

#### :tostradA

nature, and how to visualize the imperceptible. climate data encounters, the decolonization of this essay explores temporal disjunctures, Grounded in research on environmental justice, to illustrate various topics and methodologies. sculptural installation, performance, and video of graduate school, which use photography, six bodies of artwork created over the course to those complications. The thesis surveys my journey in making artwork as a response and complications of the climate crisis and srtwork that together explore the entanglements with lists, anecdotal observations, data, and accumulation of academic essays, interpolated understanding. This thesis is a non-linear that poses many obstacles for action and The climate crisis is wicked problem

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- The Great Delusion Works Cited Acknowledgements For Consideration: Global Carbon Dioxide

For my nieces and nephews.

#### SSSOJ

Loess deposits are geologic formations made of windblown dust.

ruel gre gmong rne most refitte solls because or rneit porosity.

We\* often think of dust as devoid of life- dustbowl, dusty, dirty. But in this process of gathering, in the accumulation of particulates, there is fertility and notential regeneration

become a cascade? When does a pile of dust become a loess?

When do plants begin to grow in the loess?

## The Form(ation) of Loess

A thesis presented in partial fulfillment of the requirements for the degree Master of Fine Art in Photography in the Department of Photography of the Rhode Island School of Design, Providence, Rhode Island.

By Beth Johnston, 2022

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