
ADRIFT IN THE ANTHROPOCENE

Reconnecting Through Aesthetic Experience

B. Colby Jennings

In the Anthropocene, humanity's profound impact on global systems has generated an overwhelming abundance of data about pressing ecological and social issues. This paper argues that while this information is crucial, its sheer volume often leads to emotional detachment and inaction. Art emerges as a powerful antidote to this desensitization, capable of transforming abstract data into tangible, emotionally resonant experiences. Through an examination of works by the contemporary artists Maya Lin, Laurie Frick, Trevor Paglen, Refik Anadol, Agnes Denes, Nathalie Miebach, and Olafur Eliasson, this paper demonstrates how art can reconnect us with the urgency of our time. These artists convert complex information into sensory experiences that foster deeper reflection, expose hidden systems of power, and pose ethical critiques. By creating immersive aesthetic experiences, art provides a crucial lens for understanding and feeling the weight of the Anthropocene, inspiring critical reflection and action. The paper concludes that art's ability to elicit emotional engagement is essential for cultivating a more empathetic and ethically informed response to the complex challenges we face in this era of human influence.

Keywords: Anthropocene, art, data, aesthetic experience, emotional resonance

Introduction

In the Anthropocene—the proposed epoch characterized by humanity’s profound impact on global ecological systems—information about the most pressing issues confronting our species is staggeringly abundant and ever-present.¹ From data on climate change to reports of species extinction and resource depletion, we are inundated with statistics, charts, and graphs that convey facts, figures, scope, and scale. Yet, this flood of information has the paradoxical effect of dulling our emotional responses and reducing the felt weight of the concern.² Becoming oversaturated with knowledge, we risk emotional detachment, which paralyzes and prevents meaningful action.³ When very real challenges are amplified to abstraction, empathy fades, leaving us disconnected from the urgency they demand.

Art provides a powerful antidote to this desensitization. By transforming abstract information into tangible experience, art generates emotional resonance that raw statistics cannot achieve. Where facts and figures fail to move us, art can connect knowledge with emotion.⁴ Through its ability to provoke an emotional response and invite critical reflection, art reengages us with the demands of our time. Artists like Maya Lin and Laurie Frick demonstrate through their work how mountains of information—whether about biodiversity loss or the rhythms of human life—can be transformed into personal and emotionally charged aesthetic experiences.⁵ Lin’s *What is Missing?* (2009) memorial integrates scientific data with personal narrative, inviting viewers to reflect on ecological losses through stories of vanished species and landscapes.⁶ Frick’s work uses personal data to create vivid visual representations that frame everyday behaviors in curious and personal ways.⁷

The need to expand our capacity to fully grasp reality does not just apply to our relationship with ecological systems. Our impact on global systems is intrinsically tied to the structures of power we propagate. Artists like Trevor Paglen expose hidden infrastructures of surveillance that govern our digital lives, revealing the double-edged nature of technology: able to both conceal and reveal. In his work, Paglen uses photography to uncover secret government sites and covert satellite networks, offering critique and reflection on systems of surveillance and the power they maintain. Art can also fulfill a critical ethical role in addressing human influence. Artists like Refik Anadol and Agnes Denes provoke questions about the consequences of our environmental and technological interventions. Anadol’s *Melting Memories* (2018) transforms brainwave data into immersive visual experiences that explore memory and how technology mediates our reality. Denes’ land art, such as *Wheatfield – A*

Confrontation (1982), juxtaposes a natural and agrarian environment against urban development, reminding us of the lasting consequences of human activity.

Central to this paper's position is the concept of 'aesthetic experience,' which requires a clear definition. Drawing on Dewey's (1934) seminal work 'Art as Experience,' this paper defines aesthetic experience as a multisensory, emotionally engaging encounter with an artwork that prompts reflection and encourages action. This definition emphasizes the interactive and transformative potential of engaging with art. It is, however, crucial to update this concept for the Anthropocene context.

Bennett's (2010) theory of 'vibrant matter' extends the realm of the aesthetic beyond the human, recognizing the agency and affective capacities of nonhuman entities. Considering this, we can understand aesthetic experience in the Anthropocene as not just an encounter between viewer and artwork, but a complex interaction involving human perceivers, artistic interventions, and the vibrant materiality of a changing planet. Rancière's (2004) concept of the 'distribution of the sensible' helps us understand how aesthetic experiences can reconfigure what is visible, sayable, and thinkable in a given social order. In the context of this paper, aesthetic experiences are understood as potential disruptions to habitual ways of perceiving and thinking about environmental change. Davis and Turpin's (2015) work, 'Art in the Anthropocene,' argues that art serves as a vital sensory apparatus for comprehending the vast temporal and spatial scales of climate change. They contend that artistic practice can make visible the often-imperceptible processes of environmental degradation. While their work provides a crucial foundation, this paper extends the ongoing conversation by focusing specifically on the affective dimensions of art and its capacity to re-sensitize audiences to global concerns.

Considering this context, when this paper refers to aesthetic experience, it denotes a multifaceted encounter that:

1. Engages multiple senses and evokes emotional responses
2. Prompts critical reflection on relationships with that which is human and nonhuman alike
3. Catalyzes shifts in perception (potentially leading to action)
4. Has the capacity to reconfigure social and political sensibilities

With our approach established, this paper argues for art, and the aesthetic experience provided, as a crucial tool for reframing the Anthropocene. By reviewing a selection of artworks—from data visualization to land art—this discussion demonstrates how art functions as more than expression; it is a vital mechanism for understanding, feeling, and responding to a world shaped by human influence.

Age of Overload

Living in the Anthropocene, we are confronted with torrential rivers of data regarding the crises threatening our species and planet. From statistics on climate change to the grim realities of species extinction, the vast amount of information creates barriers to understanding. Borrowing a term from the world of marketing, “data fatigue” seems to accurately describe what occurs when the scale of the issues communicated creates emotional numbness rather than urgency. We are left disconnected from problems, unable to translate the data into action. Art—by translating the abstract and the impersonal into visceral, emotionally resonant experiences—has the potential to reignite our engagement with the world. It allows us to process the gravity of environmental degradation in ways that are both tangible and impactful. Where data fails to inspire action, art invites empathy and intention.⁸

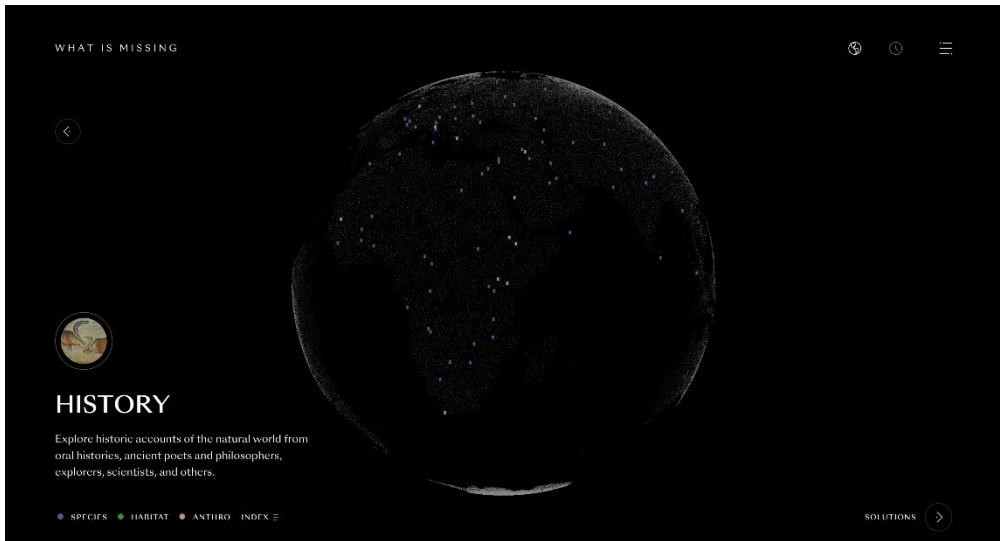


Figure 1. Maya Lin & What Is Missing? Foundation, www.whatissing.org, 2024

Maya Lin's *What is Missing?* stands as an evocative example of how art can address this issue of detachment caused by data overload.⁹ The multimedia project is a memorial dedicated to species extinction, but it defies the static nature of traditional memorials. Launched in 2009, the project offers an evolving, participatory space where scientific data intersects with personal stories.¹⁰ By blending scientific fact with deeply human narratives, Lin transforms abstract data into a shared act of mourning. This personal engagement with ecological loss draws the viewer into a reflective state, where data is no longer just information but an evocative experience.

The emotional resonance of Lin's work is critical, and its effectiveness can be understood through the lens of V.S. Ramachandran's neuroaesthetic principles. As Ramachandran's research suggests, human brains are not inherently designed to respond to raw data.¹¹ We are far more likely to engage with patterns, contrasts, and emotionally salient information—elements that art can highlight and amplify. Ramachandran and Hirstein (1999) propose that certain universal principles of artistic experience are closely tied to the way our visual systems process information, suggesting that art can bypass our cognitive defenses and speak directly to our perceptual and emotional systems.¹² Lin's project makes use of this predisposition to connect viewers emotionally with the environmental crises we often ignore, transforming scientific facts into lived experiences.

Laurie Frick's body of work based on personal data offers a complementary perspective. In this creative research, Frick transforms individual metrics—such as sleep patterns and steps taken—into geometric, colorful visualizations. The result is a striking representation of how intimately intertwined our daily lives are with data-driven systems. Like Lin, Frick uses art to make the invisible visible, but her focus is on the individual, making data personal and immediate. This shift from environmental to personal data broadens the discourse on how art confronts desensitization, reminding us that we are embedded in systems that collect and commodify our most intimate information.

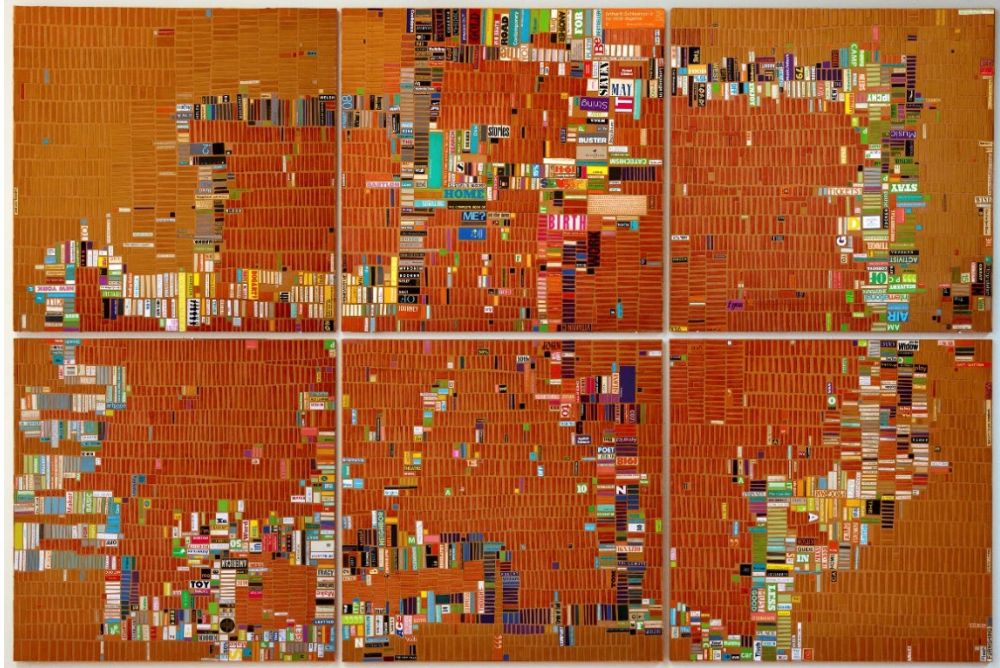


Figure 2. Laurie Frick, Walking, handmade, found and cut paper on panels. 34 in x 34 in - 72 in x 72 in, based on tracking location and movement patterns. 2012-2015

Frick's work also raises critical ethical questions about data ownership and privacy. As individuals, we are often unaware of how much personal information we share and who profits from it. In the age of what Shoshana Zuboff terms 'surveillance capitalism', where personal data is a commodity, Frick's work challenges us to reconsider the ethics of data collection and use.¹³ By turning impersonal data into something aesthetically beautiful, Frick subtly critiques the systems that track our behavior, offering a visual representation of one of the many ways we are surveilled.

Both Lin and Frick illustrate the power of artists, through their work, to reconnect us with complex systems. Their work demonstrates how art can challenge the overwhelming nature of data by transforming it into something we can feel and reflect on. This emotional access is crucial in the Anthropocene, where detachment from environmental crises has become the norm. Art, by weaving together information and empathy, invites viewers to confront the ethical dimensions of the world we shape.

Systems of Power

Technology's pervasive influence in the Anthropocene extends across both natural and constructed landscapes, shaping everything from ecosystems to social structures. These complex systems of power exert control over our physical and digital environments. As these systems become more sophisticated, their effects are harder to detect, leading to public disengagement from the forces that shape lives. Aesthetic experience through art has the unique ability to expose these systems and offer tools for examining how power operates in this moment in time.

Trevor Paglen is an artist and author whose work is positioned at the intersection of technology, surveillance, and control. Through his research and creative practice, Paglen reveals the hidden architectures of power that define and confine modern life.¹⁴ By using long-distance photography, satellite imagery, and data mapping, he captures military bases, surveillance satellites, and covert operations sites that remain invisible to the public. His body of work utilizing limit-telephotography documents classified government sites using high-powered lenses to image the locations from extreme distances. These blurred, almost abstract images evoke the secrecy surrounding the captured landscapes and how technology can obscure as much as it reveals.



Figure 3. Trevor Paglen, *National Reconnaissance Office Ground Station (ADF-SW)*, *Jornada del Muerto, New Mexico*; Distance ~ 16 miles, 2012

Paglen's work does more than simply document secret installations. It forces viewers to confront the ethical implications of living in a world shaped by hidden surveillance systems. In his project *The Other Night Sky* (2010-present), Paglen tracks and photographs secret satellites orbiting the Earth, most of which are used for intelligence gathering. By making these surveillance tools visible, he compels viewers to reflect on how these technologies quietly permeate their lives. This confrontation with the mechanisms of power and control opens an emotional space for deeper reflection on how surveillance shapes both public and private life. The power of this work lies in its ability to tap into the emotional unease generated by the knowledge of constant surveillance. Paglen exploits the human affinity for patterns and imagery by bringing the hidden into a low-fidelity view, providing a glimpse at the abstract architecture of power made tangible. His images conjure emotional resonance by exposing surveillance

systems and provoking discomfort while raising ethical questions about the limits of privacy in the digital age.

While Paglen critiques technology's use in control and surveillance, Tomás Saraceno envisions how technology might instead be repurposed for ecological harmony. Saraceno's ongoing project *Aerocene* (2007–present) imagines a future where humans live in sync with the Earth's atmosphere, free from fossil fuel reliance.¹⁵ Using solar-powered air sculptures, Saraceno demonstrates the potential for sustainable, airborne transportation that uses wind and solar energy rather than conventional fuel sources. These floating artworks, known as 'Aerocene Sculptures', are essentially solar balloons made from recyclable materials. They become buoyant when heated by the sun and can navigate using wind currents, requiring no fossil fuels, helium, or hydrogen. By harnessing only the energy of the sun and air currents, these sculptures embody a vision of mobility that works in harmony with natural systems rather than exploiting them.



Figure 4: Tomás Saraceno, On the disappearance of clouds, 2019, installation view during the 58th International Art Exhibition, La Biennale di Venezia, Venice, Italy, 2019, curated by Ralph Rugoff. Courtesy the artist. © Photography Studio Tomás Saraceno.

The emotional and ethical significance of these works lies in their ability to make visible what wants to remain hidden. Paglen's images uncover the oppressive architectures of surveillance, while Saraceno's sculptures envision utopian alternatives. Together, they prompt viewers to engage with the privilege and peril of technology: as both a tool of control and a potent agent for change. This contrast challenges us to reconsider how we relate to the systems of power embedded in landscapes of all kinds.

(Human)Influence

Humanity's influence, and the accompanying data, extend beyond reshaping landscapes—they permeate digital architectures, ecosystems, and even our cognitive processes. While some of these consequences remain invisible, art offers a crucial lens through which we can realize the full significance of human action and inaction. Refik Anadol's project *Melting Memories* (2018) explores the intersection of human cognition and digital technology, transforming neural data into visual representations. By using machine learning algorithms to convert EEG (electroencephalogram) data—captured during memory recall—into fluid digital sculptures, Anadol creates a moving expression of the fragility and plasticity of memory.¹⁶ His work highlights the malleability of our most intimate data, emphasizing that memory, much like digital data, is subject to constant change, manipulation, and decay. The flowing forms suggest a continuum between natural processes and digital information, reminding us that both are shaped by patterns of energy and interaction, much like the ecosystems we influence in the physical world.

Melting Memories exemplifies the rich potential for interdisciplinary connections in Anthropocene art. This work not only bridges art and technology but also intersects with cutting-edge research in neuroscience and data visualization. Anadol's process of transforming EEG data into fluid digital sculptures aligns closely with current neuroscientific research on memory formation and recall. For instance, Borgo et al. (2013) argue for the importance of aesthetic considerations in data visualization, suggesting that beauty can enhance comprehension and engagement with complex data sets.¹⁷ The work takes this principle to its artistic extreme, prioritizing aesthetic experience in the representation of neural data. Anadol's piece also critiques how digital systems mediate our experience of reality. As neural data is translated into art, questions emerge about data ownership, privacy, and the ethics of surveillance capitalism. Nick Couldry and Ulises A. Mejias argue that data has become a new form of capital, with human experience itself being colonized and commodified in the digital age.¹⁸ Through this lens, *Melting Memories* (2018) serves as an aesthetic

experience and a critical reflection on the increasingly porous boundaries between human cognition and technologies of control.

Where Anadol navigates the realm of digital memory, Agnes Denes brings attention back to the physical landscapes irrevocably altered by human activity. A pioneer of environmental art, Denes has long explored the consequences of human intervention in natural systems. One of her most iconic works, *Wheatfield – A Confrontation* (1982), saw Denes plant two acres of wheat in lower Manhattan, right next to the towers of Wall Street.¹⁹ The visual juxtaposition of golden wheat fields against the urban skyline serves as a powerful metaphor for the tension between natural ecosystems and capitalist economic systems. By planting wheat in one of the world’s most densely populated cities, Denes emphasizes the fragile relationship between urbanization and nature, calling for an evaluation of society’s priorities.

Wheatfield critiques urbanization while pointing to the exploitation of natural resources underpinning modern systems. The project becomes a living metaphor for the subsuming of ecosystems by economic forces that prioritize short-term profit over long-term sustainability. Public reaction to the work was mixed but powerful. Many New Yorkers were struck by the incongruity of a wheat field amidst skyscrapers, with some finding it a poignant reminder of nature's beauty and others seeing it as a provocative critique of urban development. The New York Times reported that the artwork sparked discussions about land use, food production, and the relationship between cities and rural areas.²⁰ Through her work, Denes urges viewers to reconsider the environmental costs of human activity, framing nature as something vulnerable and vital to human survival.

Together, the works of Anadol and Denes offer complementary perspectives on the Anthropocene, showing that human influence extends across both visible landscapes and invisible systems. Anadol’s work raises questions about the ethics of data manipulation and the ownership of cognitive information, while Denes reminds us of our moral responsibility toward ecological preservation. Both artists challenge us to reflect on how deeply human activity penetrates the worlds we inhabit—whether natural or digital—and the ethical implications of our continued intervention in these systems.

Breaking the Loop

As the pace of global crises quickens, public exposure to alarming data increases. As discussed, this overwhelming flow of statistics, forecasts, and

distressing images quickly results in emotional desensitization. This phenomenon dulls our capacity to feel urgency in these issues. Olafur Eliasson and Minik Rosing's *Ice watch* (2014) reawakens our engagement with environmental urgency. In this installation, Eliasson transported twelve blocks of melting ice from Greenland to urban centers like Copenhagen, Paris, and London, arranging them in the shape of a clock to symbolize the ticking of time in the fight against climate change. Passersby could touch the ice, feel its coldness, and watch its slow dissolution. This direct, tactile experience makes climate change tangible and immediate—moving it from an abstract, distant concept into something physically felt.²¹



Figure 5: Olafur Eliasson and Minik Rosing, Ice Watch, 2014, 12 ice blocks, City Hall Square, Copenhagen 2014, photo: Anders Sune Berg. Courtesy of the artist; neugerriemschneider, Berlin; Tanya Bonakdar Gallery, New York / Los Angeles, © 2014 Olafur Eliasson

Ice watch represents a potential for art to make climate change tangible and immediate. By transporting massive ice blocks from Greenland to urban centers, Eliasson creates a visceral encounter with Arctic ice melt. As passersby touch the slowly disappearing ice, they experience a direct, sensory connection to a process typically abstracted in charts and graphs. However, it's crucial to critically examine the paradoxes inherent in such a project. The very act of transporting these ice blocks contributes to the carbon emissions driving climate change. This contradiction raises questions about the ethics of environmental art and the balance between raising awareness and potentially exacerbating the problem. The temporality of *Ice watch* also warrants consideration. The dramatic, relatively rapid melting of the ice in urban settings compresses a process that occurs over much longer timescales in the Arctic. While this acceleration creates a powerful aesthetic experience, it potentially misrepresents the slow, often imperceptible nature of climate change that Nixon (2011) terms 'slow violence.'²²

Despite these critiques, *Ice watch* succeeds in breaking through the emotional barriers often erected by abstract climate data. The installation's affective power lies precisely in its ability to make distant processes immediate and personal. This tension between the work's environmental impact and its consciousness-raising potential epitomizes the complex negotiations required of art in the Anthropocene. A critical engagement with *Ice watch* reveals both the possibilities and limitations of art in addressing climate change. It underscores the need for creative approaches that can represent long-term, distributed processes while still creating immediate, emotionally resonant experiences.

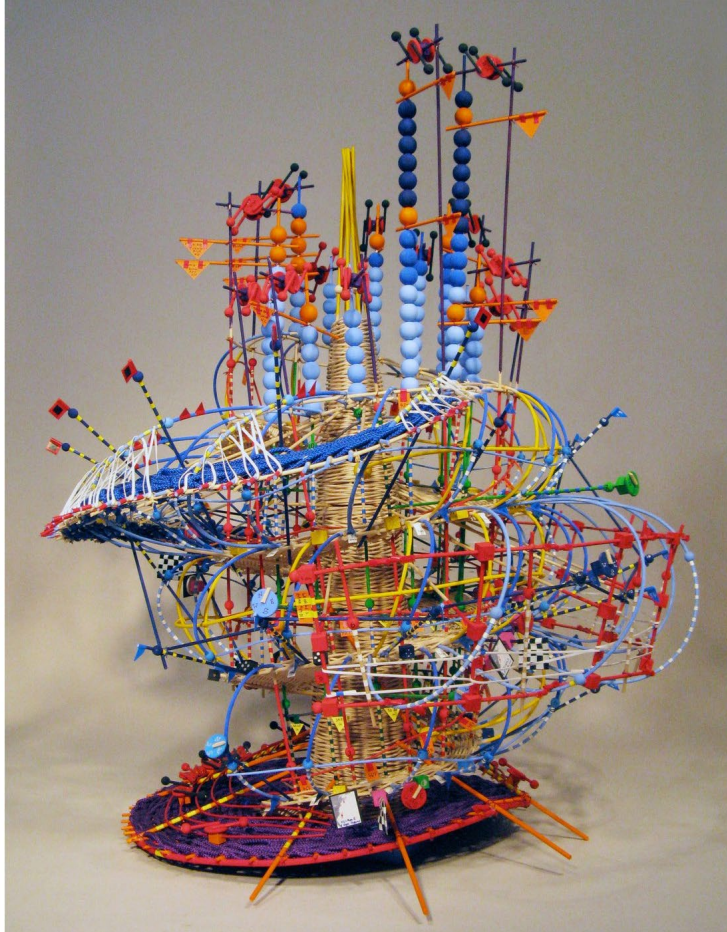


Figure 6: Nathalie Miebach, Hurricane Noel, 2010, Reed, wood, data, 32"x32"x36", 3D Musical Score of the passing of Hurrican Noel through the Gulf of Maine, Nov 6-8, 2007.

Nathalie Miebach also explores how data can be transformed into emotionally resonant forms. In her artistic practice, Miebach converts meteorological data from weather and climate data into woven sculptures and musical compositions, creating a multisensory representation of complex environmental phenomena.²³ Her process is both methodical and creative. Miebach begins by collecting weather data from specific events or locations, such as wind speed, barometric pressure, temperature, and humidity. She then develops a systematic method for translating these data points into visual and

auditory elements. In her sculptures, Miebach uses traditional basket-weaving techniques to create three-dimensional forms that represent data patterns. Each element of the sculpture—its color, shape, size, and position—corresponds to specific data points. The artist extends this data translation process into the realm of music, assigning variables to different musical elements. For instance, rising temperatures might correspond to ascending musical scales, while increasing wind speeds could be represented by faster tempos or more intense dynamics. The resulting musical score allows the listener to "hear" the storm's fluctuating patterns as it unfolded. This synesthetic approach to data representation engages both tactile and auditory senses, disrupting the tendency to view environmental data as abstract or impersonal. Miebach's work demonstrates that even highly technical information can provoke emotional engagement when presented through an appropriate artistic vehicle.

Both Eliasson and Miebach challenge the assumption that data alone can communicate the urgency of environmental crises. Their works suggest that sensory immersion—whether through physical interaction with melting ice or experiencing the auditory and tactile elements of woven data—offers a more effective method for re-engaging the public with the forces shaping our world. These forms of immersion also raise ethical questions: how can artists ensure that powerful sensory experiences lead to genuine understanding and action, rather than mere spectacle?

Art, particularly in the Anthropocene, has the potential to break the loop of desensitization. Projects like Eliasson's and Miebach's emphasize that sensory immersion, when carefully grounded in real-world data, can be a catalyst for invested dialogue without the heavy-handedness of superficial shock. The goal is not simply to surprise or provoke an audience but to create a sustained emotional and intellectual engagement with the issues at hand. By making the intangible crises of climate change and environmental degradation tangible, these artists help audiences feel the urgency of these global challenges in ways that can lead to greater awareness and action.

Conclusion

In the Anthropocene, where human influence extends across both natural and manufactured systems, art will continue to play a critical role in shaping how we engage with the global crises of our time. While data, statistics, and information overload have the potential to desensitize us, art provides a pathway to reconnect emotionally with the pressing challenges we face—whether

environmental, technological, or ethical. The works discussed in this essay demonstrate how contemporary artists can harness their research to translate abstract data into emotionally resonant experiences, offering a means of breaking the cycle of detachment.

While this writing suggests contemporary art contains the ingredients needed to generate connection with the issues of the Anthropocene, it's important to acknowledge limitations. Recognizing these constraints opens avenues for future investigation and research. First, the selection of artworks, while diverse, is not exhaustive. The focus on high-profile, predominantly Western artists may overlook important contributions from other cultural contexts or less widely recognized creatives. Future investigation could benefit from a broader, more globally representative sample. Second, this paper's discussion on the affective impact of these artworks is primarily based on analysis rather than empirical data. While such analysis is valuable, empirical research on audience responses could provide more robust support for claims about emotional engagement and potential behavior change.

Additionally, the paper's focus on visual and installation art may not fully capture the range of artistic responses to the Anthropocene. Other forms such as performance art, literature, or music may offer different strategies for engaging with issues that are not fully explored here. And, while the paper touches on the ethical implications of some artworks, a more comprehensive ethical analysis of Anthropocene art practices could yield important insights. Questions of representation, appropriation, and the environmental impact of art production itself warrant deeper examination. And lastly, the rapidly evolving nature of both global challenges and artistic practices means that any study in this field risks becoming quickly outdated. Regular reassessment and updating of the arguments presented here will be necessary.

Despite these limitations, this paper provides another step in the climb to understanding the role of aesthetic experience in engaging with Anthropocene challenges. At the heart of this discussion is art's ability to elicit engagement via emotional resonance. Maya Lin's *What is Missing?* shows how data on biodiversity loss can transform into deeply personal narratives that allow us to mourn not just what we have lost, but what we continue to lose. Laurie Frick's data visualizations take a different approach, using personal data to highlight how our lives are mediated by technology, prompting consideration of the ethical dimensions of data ownership and surveillance.

By exposing the hidden or secret, Trevor Paglen's work showcases art's ability to provide a critical lens through which we examine the systems of power

that shape our experience. His images remind us that technology is not a neutral force but one shaped by the political and social structures that use it. Tomás Saraceno reimagines technology as a force for harmony, offering utopian alternatives where humans coexist with the natural environment in sustainable ways. Together, these artists challenge us to consider how technology can either be a force for control or a medium for transformation.

The works of Agnes Denes and Refik Anadol compel us to reflect on the ethical responsibilities we bear as participants in natural and digital systems. Anadol explores the vulnerability of human cognition in a moment where even our most intimate data can be commodified and manipulated. His work raises essential questions about the intersection of data, and control, demanding attention to how we navigate a world now driven by algorithms. Denes' land art projects critique the exploitation of natural resources, urge us to rebuild our relationship with the environment, and call for long-term thinking in addressing our environmental impact.

The challenges of the Anthropocene are interconnected and demand more than intellectual understanding. Art offers the ability to see what is difficult, or even impossible, and to collapse the distance between global issues and lived experience. The urgency of this epoch cannot be overstated. As the artists examined here demonstrate, art is a vehicle for emotional engagement and a tool for exposing the power dynamics embedded in our world. Art invites us to confront the ethical consequences of human influence on both natural and digital landscapes. Through emotional resonance and critical reflection, art offers us a path forward—one that encourages empathy, fosters deeper understanding, and, most importantly, prompts action. By making the abstract tangible, art helps us envision a future that is not only more sustainable but also more just.

As overwhelming information threatens to numb us into oblivion, art has the power to re-engage us in our collective responsibility and inspire new ways of seeing the future. It is not enough to know the data; for it to matter we must feel its weight. Through art, we understand the emotional and ethical dimensions of our relationship with the world as inseparable from the scientific or technological and that addressing the crises of the Anthropocene requires us all to be fully present and able to feel. Looking forward, as the challenges of the Anthropocene continue to evolve, so too must the artistic responses to them. Future artists may need to grapple with even more complex information, emerging technologies, and unforeseen global changes. Their work will be crucial in helping us navigate the uncertainty, continually finding new ways to

transform information into insight, apathy into action, and despair into determination.

Acknowledgments

Thank you to the following people and organizations for providing access to resources essential to this paper: Maya Lin and the *What is Missing?* Foundation, Casey Carter, Laurie Frick, Trevor Paglen and Paglen Studio, Tomás Saraceno and Studio Tomás Saraceno, Olafur Eliasson and Studio Olafur Eliasson, and Nathalie Miebach.

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Endnotes

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¹⁰ Lin, *What is Missing?*

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