

In the Wake of the Atmos+Sphaira' is an architectural thesis that investigates the roles of atmospheric events in reimagining architectural space. The framing of events is the subject of revision, where atmosphere emerges as both spatial content and container. This architecture of atmosphere reconstructs the dialogue between body and space, creating a new trilogy of relationships: space, atmosphere and event. The thesis developed an apparatus that has the operational capacity to capture, orient, determine, intercept, model, control, categorize and diverge atmospheric events into two predetermined conditions: temperature and temperament. Positioned between the technical and the aesthetic, temperature and temperament bring the quantitative and qualitative dimensions of atmosphere into dialogue with one another. The byproduct of the convergence between temperature and temperament is a 'Temperamental Architecture' - an architecture that reclaims space as atmosphere.

IN THE WAKE OF THE ATMOS+SPHAIRA'

IN THE WAKE OF THE ATMOS+SPHAIRA'

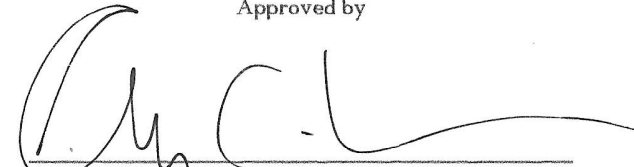
A thesis presented in partial fulfillment of the  
requirements for the degree of Master of Architecture  
in the Department of Architecture of the Rhode Island  
School of Design, Providence, Rhode Island

By

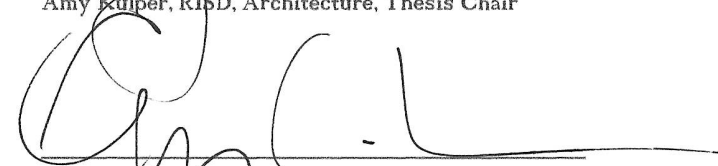
Jesús M. Meléndez Vázquez

2019

Approved by

A handwritten signature in black ink, appearing to read 'Amy Kulper', written over a horizontal line.

Amy Kulper, RISD, Architecture, Thesis Chair

A handwritten signature in black ink, appearing to read 'Amy Kulper', written over a horizontal line.

Amy Kulper, RISD, Architecture, Primary Advisor

A handwritten signature in black ink, appearing to read 'Carl Lostritto', written over a horizontal line.

Carl Lostritto, RISD, Architecture, Secondary Advisor

IN THE WAKE OF THE ATMOS+SPHAIRA'

Author: Jesús M. Meléndez Vázquez  
Primary Advisor: Amy Kulper  
Secondary Advisor: Carl Lostritto

**"Inebriate of air am I."**  
-Emily Dickinson

TABLE OF CONTENT

Synopsis.....07

Acknowledgements.....09

Introduction

    Weather-State of the Atmosphere.....11

Part I

    Apparatus-Origin and Speculation.....15

Part II

    The Ceiling.....44

    The Wall.....46

    The Floor.....48

    Temperamental Architecture.....51

Part III

    Thesis Project.....54

Reference.....75

Image credit.....00

Index.....00

Appendix.....00

## SYNOPSIS

In the Wake of the Atmos+Sphaira' is an architectural thesis that investigates the roles of atmospheric events in reimagining architectural space. The framing of events is the subject of revision, where atmosphere emerges as both spatial content and container. This architecture of atmosphere reconstructs the dialogue between body and space, creating a new trilogy of relationships: space, atmosphere and event.

Initially, this thesis developed an apparatus that has the operational capacity to capture, orient, determine, intercept, model, control, categorize and diverge atmospheric events into two predetermined conditions: temperature and temperament. Positioned between the technical and the aesthetic, temperature and temperament bring the quantitative and qualitative dimensions of atmosphere into dialogue with one another. The byproduct of the convergence between temperature and temperament is a 'Temperamental Architecture' - an architecture that reclaims space as atmosphere.

My thesis scrutinizes our discipline's representational techniques, seeking the appropriate conventions for the depiction of architecture at the scale of atmosphere. It reclaims and engages two subnatural atmospheres: exhaust (vaporous and malodorous) and dankness (dark, wet, and cool). The interaction of these forgotten atmospheres creates the potential for a third atmosphere, where body and use, and content and container intermingle.

This thesis tests these premises through the revision of precedents that embody the disappearance of atmosphere: the Kanagawa Institute of Technology by Junya Ishigami and Mies van der Rohe's Farnsworth House - creating plausible fictions of architectural futures that seamlessly incorporate atmospheric events.

## ACKNOWLEDGMENTS

*In the Wake of the 'Atmos+Sphaira'* was realized with the inspiration, commentary, and support of numerous people. First and foremost, I would like to thank to God Almighty for giving me the strength, knowledge, ability to undertake this thesis and to persevere and complete it satisfactorily. Without his mercy and providence this achievement would not have been possible. Good friends that either discussed the material with me provided welcome respites from work-related discussion include Colin Christensen, Sara Naja, Hannah Winders, Corey Weiss, Rob Diaz, Cam Leandri, Sam Wesselman, Andrea Dragani, Sung Hong, Dewen Ju, Diyi Zhang, Patricia Salas Silva, Wilfred Rodriguez Marrero, Pablo Herraiz Garcia de Guadiana, Jose Luis Rivera Colon, Jesus J. Alfonso, Madison Blaize Russ and Kyna Leski. Special thanks for Luis V. Badillo Lozano, my mentor, the person who showed me the world of architecture with different eyes. Last but not least, to my beloved *Revisionist Histories* friends, thanks for giving me the best thesis experience that a seeker of knowledge would ever ask, thanks for all the conversations and collaborations that provided great feedback for this thesis, thanks Montana Gray, Vuthy Lay, Louna BouGhamen, Daedalus Guining Li, Yixuan Cai, David Amdie, Aniebiet Celebb Ekong and our Thesis Advisor, Professor and now our mentor Amy Kulper. Thank you so much for all those valuable lessons that will guide us for the rest of our professional life. Special thanks for my academic advisor and secondary thesis advisor Carl Lostritto for your constant support and encouragement in any idea, project or thoughts through my two years at RISD. I would like to thank my family, for the unconditional support and love, particularly Nitza M. Vazquez Cruz and Manuel E. Melendez Velazquez, my parents who has patiently endured my work schedule. This thesis is dedicated to my family who believed in me when no one did, they are the true heroes of my life.

# Introduction

## Weather- State of the Atmosphere

### INTRODUCTION

#### Weather-State of the atmosphere

Have you ever wonder why architects are bad architects? we spend most of our time talking, theorizing, drawing and then, constructing whatever the outcome is. This is very dangerous. And you know what is the dangerous part? That we often ignore the site, the place and most important we do not contemplate the outer context of any architecture: the atmosphere and its events.

A year ago, I began a thesis between the subjects of architecture, weather, atmosphere, space and event, but like David Gissen on his book *Subnature Architecture's other enviroments*, "I was not entirely certain what I would explore" (Gissen, 2009). In that atmosphere of uncertainty, specific questions were a constant:

What happen with weather?

What is weather for us?

What is atmosphere?

What is event?

...and when you join this two words,

What is Atmospheric Event for us?

#### Why weather matters-

I can answer the first two questions, but I'm certain that the last three questions will be a challenge and like this thesis, I accept that challenge.

Just to give a historical context, since the beginning of human civilization, humanity have been negotiating the basic conditions of temperature, humidity and seasonal climate (Eliasson, 2003). In other words, this is known as weather, or how I like to call it: the basic recipe of weather.

I would say that weather have been fundamental for the understanding of civilizations and space through our history. (Eliasson, 2003) Weather is part of our reallity! We can't denied it. Weather or climate phenomena have been so politicized that it have become a subnature. Something that exist, but have been forgotten.

Here, climate change have a pivotal role on changing the paradigm and our relation with weather and space; is intense and more dramatic. The spatial consequences and atmospheric recoveries are more complicated to resolve. That's what climate change have done so far.

However, this post-apocaliptical tone resonates with a tragic atmosphere, but lets remove the political, cultural and economical aspects of climate change and let us focus on the scale for a moment.

Today, we experience a rise in global temperature, warming oceans, glacial retreat, Sea level rise, ocean acidification, hurricanes and tsunamis (NASA, 2019) and other more extreme events.



This is the new scale of our current state of the atmosphere. We need to take it seriously! Most important, we need to recognize a potential on extreme climate phenomena as not only a design factor but to develop a design principle from it. Atmospheric events can be a tool and resource for material imagination which will affect the conception and representation of architecture.

## What is Atmosphere?-

If you search for the etymological meaning of atmosphere and divide the word in two, we have:

*ATMOS*: meaning Vapor

*SPHAIRA*: meaning Globe

*-Oxford English Dictionary (2019)*

In a way, atmosphere means vapor-globe. *A Globe made of Vapor*, which has its own temperament and mood.

This reminds me to a quote from the book *The Invention of Clouds* by Richard Hamblyn that mentions:

*"In sharp contrast to such harmonious conceptions, much of the moral power of the Old Testament religion derived instead from the narration of extreme and persecutory weather events. From the*

*Flood of Genesis to the plagues and hail/storms of Exodus, the books of Moses and the Prophets resound with the terrible weather of vengeance, much of which was brought to pass by violent winds from the east."* (pag.18)

This temperamental vapor, being the most traumatic of these episodes seem to say,

*"is the one great precondition on earth, the one persistent feature of the natural world that cannot, that will not, be controlled."* (pag.18)

Make sense to realize that the atmosphere is indeed spatial content and container, and at the same time is event-maker.

## What is event?-

I would like to bring and quote the held definition of event from the Architect and theorist Bernard Tschumi in his Book *The Manhattan Transcript*:

*"Event: an incident, an occurrence; a particular item in program. Events can encompass particular uses, singular functions or isolated activities. They include moments of passion, acts of love and the instant of death. Events have*

*an independent existence of their own. Rarely they are purely the consequences of their surrounds. Events have their own logic, their own momentum. In literature, they belong to the category of the narrative."* (pag. 21)

This by far is a very provocative definition of event, but what is truly interesting is the final part: *"(...) events have an independent existence of their own."*

Now, we know that Tschumi's event relies and exists on the immediate context provided by architecture, and to say more, architecture is conceived as not defined by its formal container, but rather by its combination of Tschumi's trilogy: space, movement and event (Tschumi, 2019). Where event-making exists by the interactions of the bodies in space or Architecture in the context of violence -bodies violating space- and of course, they act as spatial epicenters.

## What is Atmospheric event?-

In the case of Atmospheric events, they are different, they don't need human intervention in order to be (in order to exist). This thesis reformulates Tschumi's definition of event and expresses it as: atmospheric events have an independent existence of their own, they have

their own logic and momentum. They are their own content, therefore, they are their own events.

This means that there exists a potential to study the atmospheric event as spatial epicenters, that doesn't need the existence of human bodies in space, because the atmosphere itself provides meaning. This bodiless realm reclaims space as atmosphere.

In other words, atmospheric events are capable to transform reality changing the way the body interacts with space. Which in the case for architecture opens the opportunity and potential to investigate the role of atmospheric events in reimagining architectural space, creating plausible fictions of architectural futures that seamlessly incorporate atmospheric events.

Producing what in the thesis *In the Wake of the Atmos+Sphaira* proclaimed as a *Temperamental Architecture*.

# Part I

## Apparatus- Origin and Speculation

### PART I Apparatus-Origin and Speculation

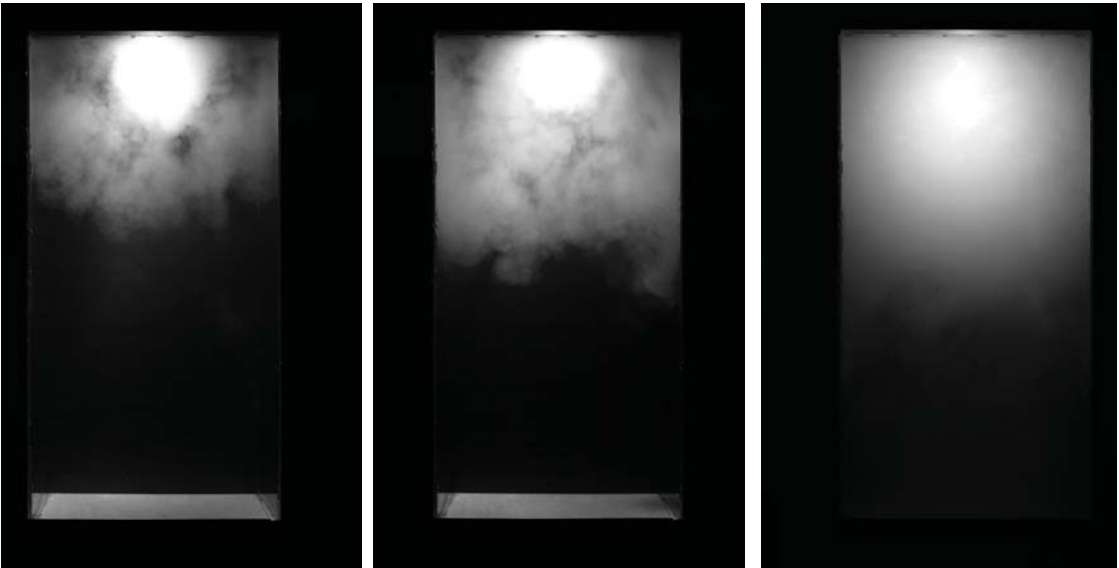
Thought on the apparatus...

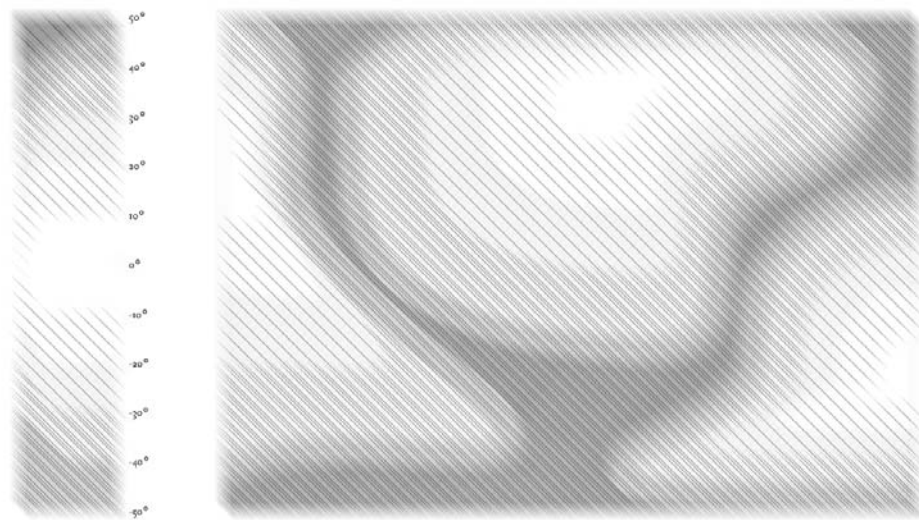
“(...) the nature of an apparatus is essentially strategic, which means that we are speaking about a certain manipulation of relation of forces, of a rational and concrete intervention in the relation of forces (...).”

-Giorgio Agamben

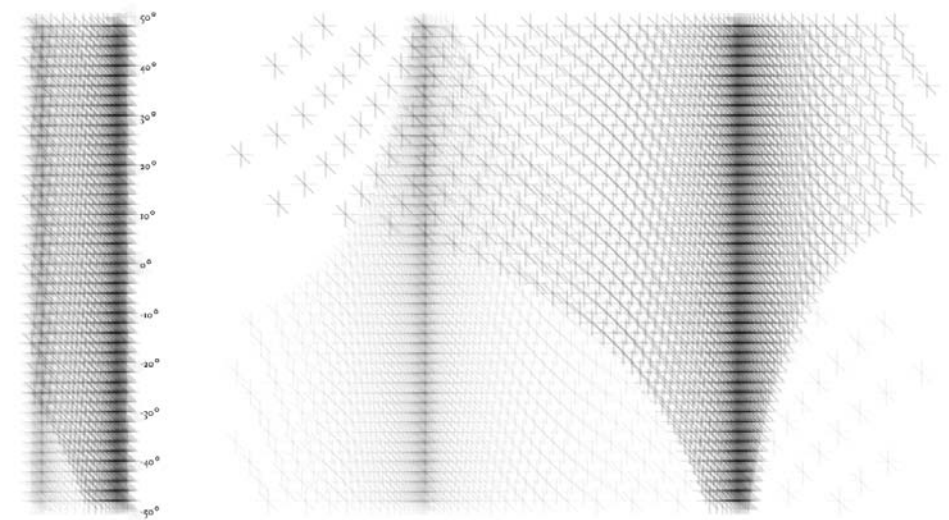
This thesis developed an apparatus that has the operational capacity to capture, orient, determine, intercept, model, control, categorize and diverge atmospheric events into two predetermined conditions: temperature and temperament. Positioned between the technical and the aesthetic, temperature and temperament bring the quantitative and qualitative dimensions of atmosphere into dialogue with one another. The byproduct of the convergence between temperature and temperament is a 'Temperamental Architecture' - an architecture that reclaims space as atmosphere.

My thesis scrutinizes our discipline's representational techniques, seeking the appropriate conventions for the depiction of architecture at the scale of atmosphere.

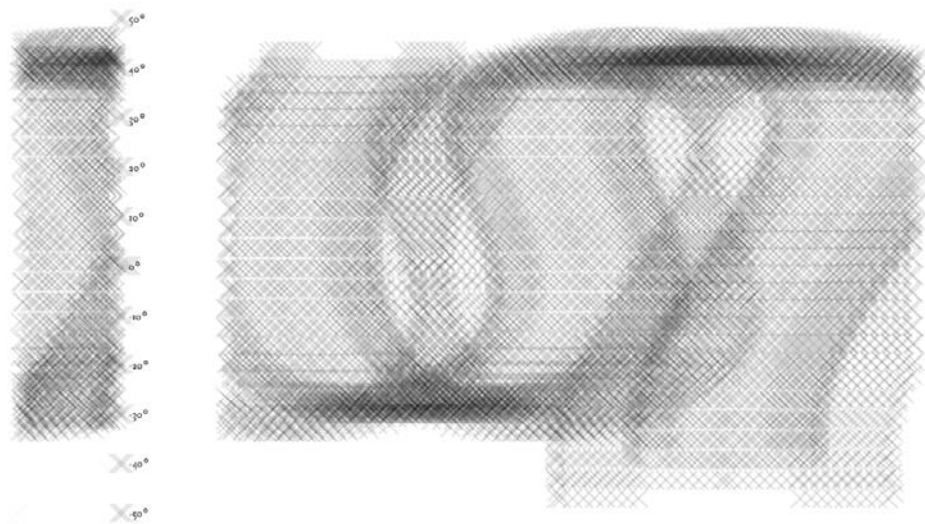




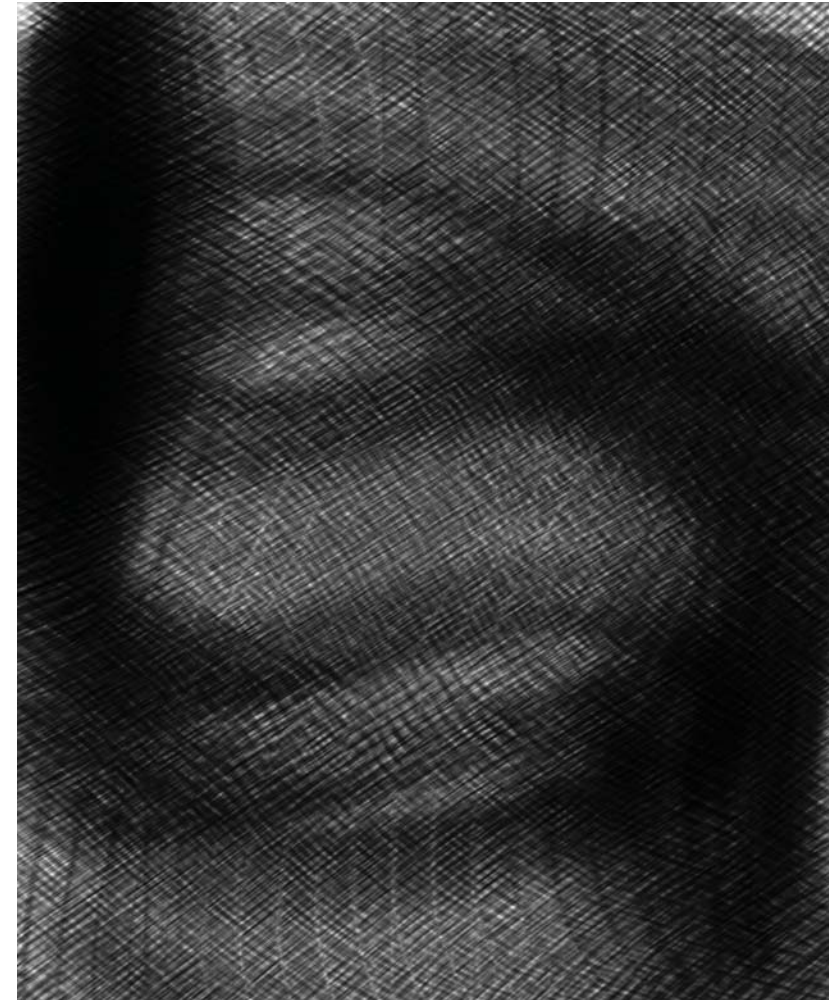
Study #01 of representation testing origins and predetermined conditions for a potential drawing technique for the depiction of thermal energies.



Study #02 of representation testing origins and predetermined conditions for a potential drawing technique for the depiction of thermal energies.



Study #03 of representation testing origins and predetermined conditions for a potential drawing technique for the depiction of thermal energies.

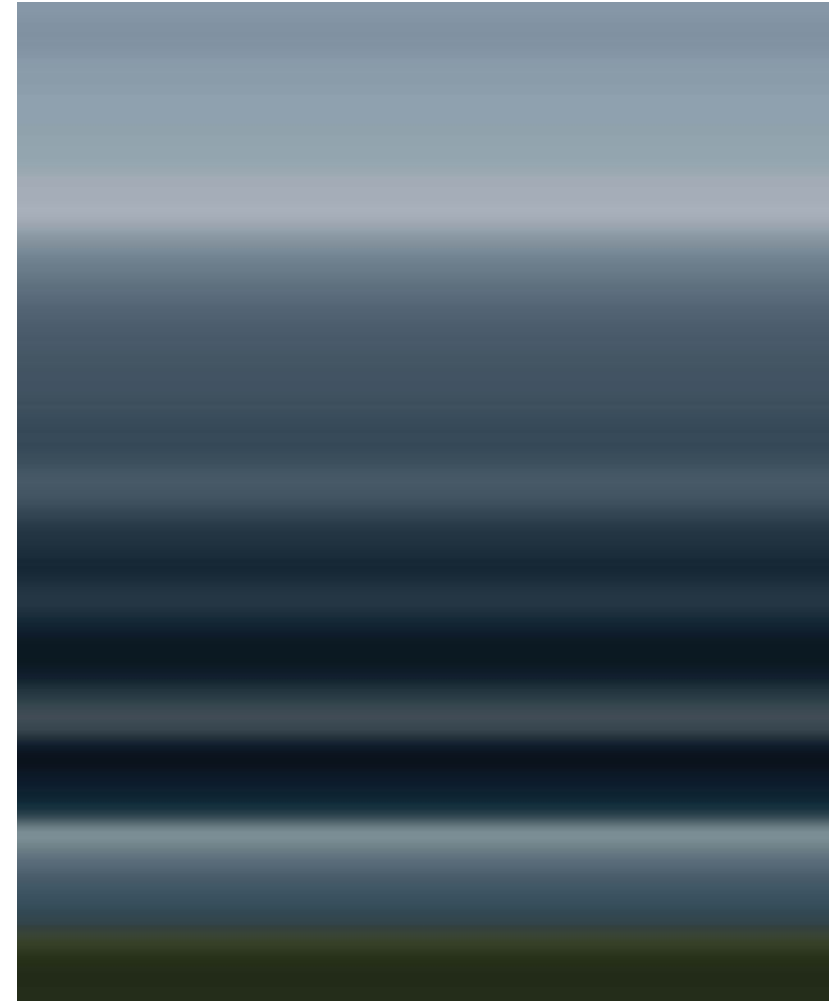


Drawing generated by the tools and instruments to define a representational technique as hypothesis.



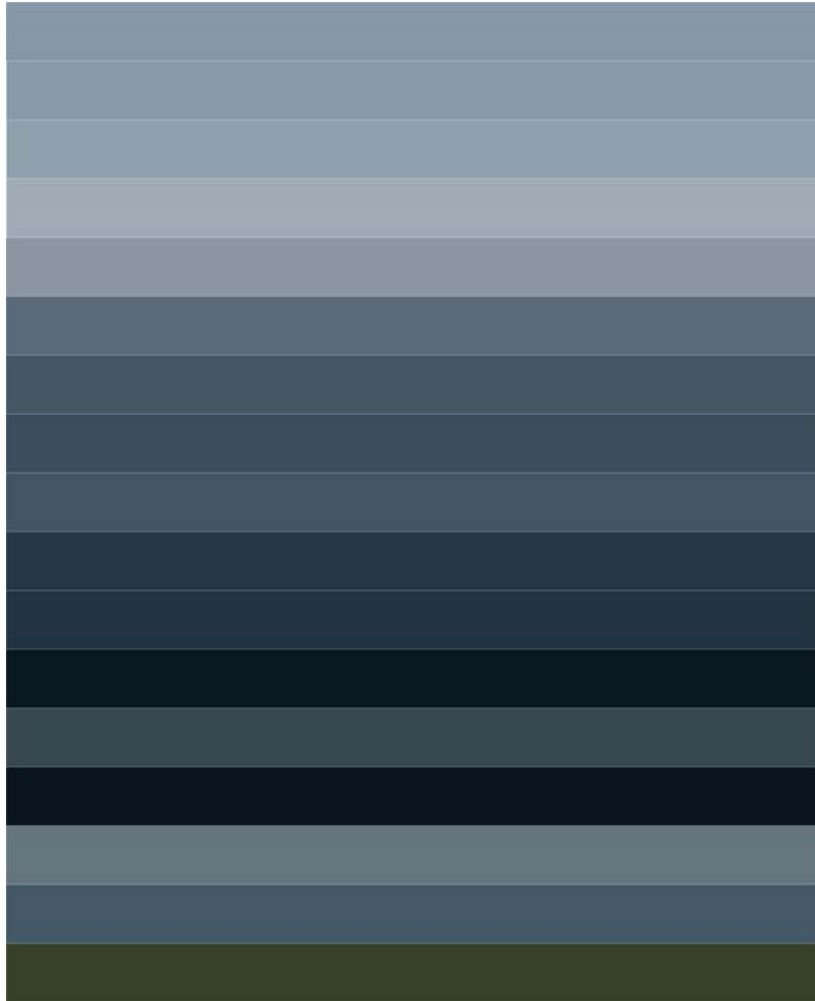
Fig. 1  
Observing tornado with violent winds and  
subsequent floods in El Reno, Oklahoma.

-Image taken in <https://www.smithsonianmag.com/science-nature/how-storm-chaser-changed-face-tornado-science-180968688/>

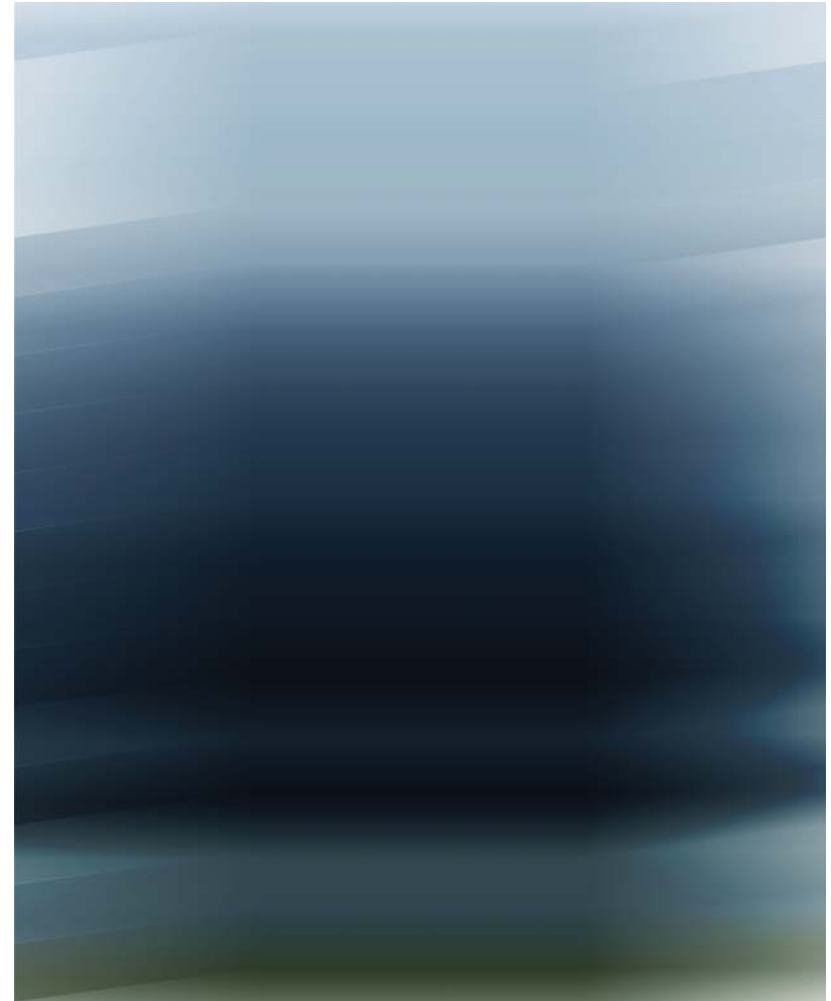


Pixel selection of colors from a real  
atmospheric event and then stretched.

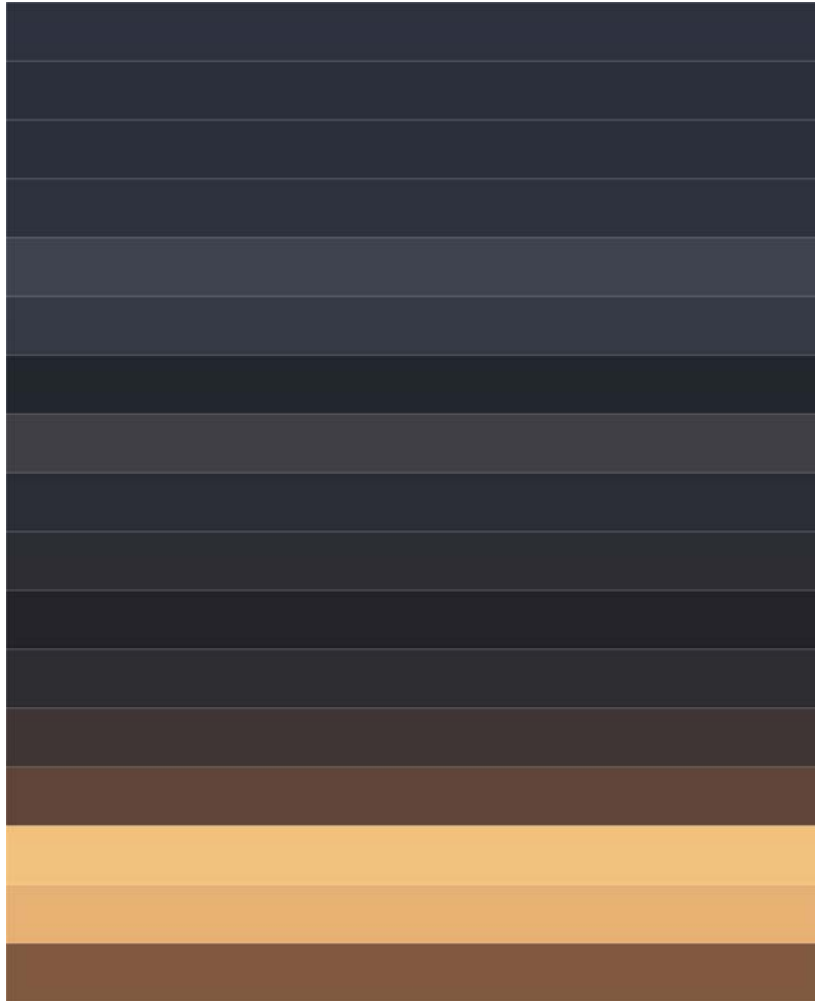




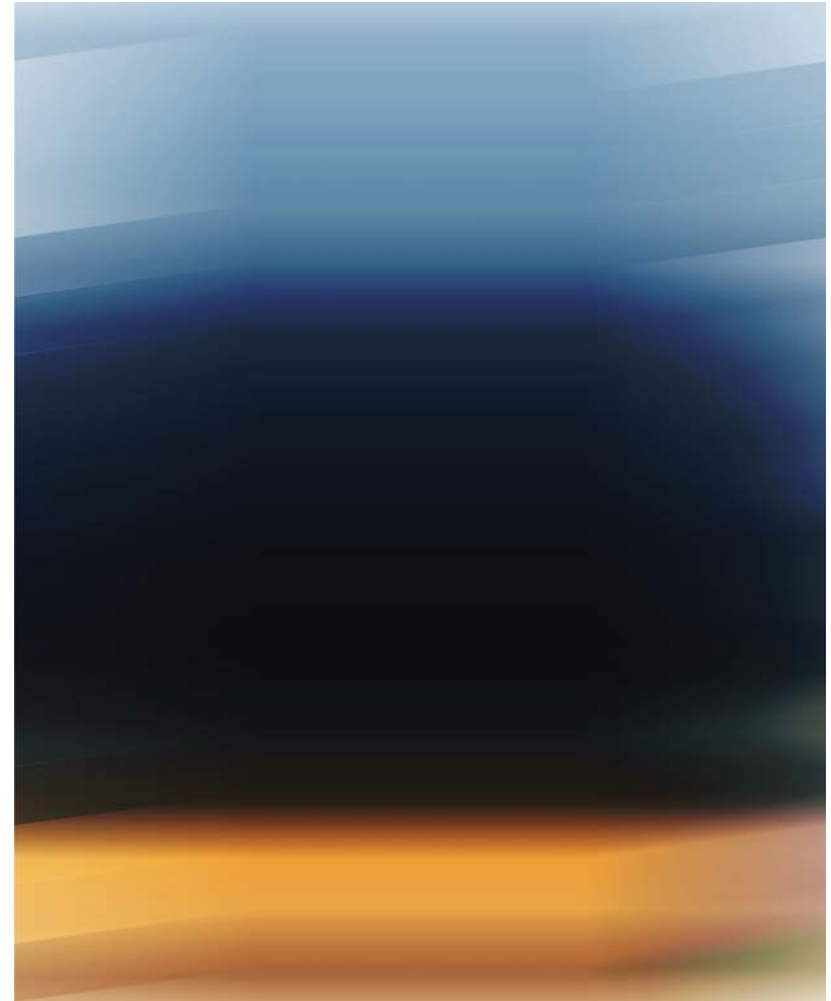
Color pixel selection every one inches to  
sinthetize and categorize samples of the  
natural atmospheric event.



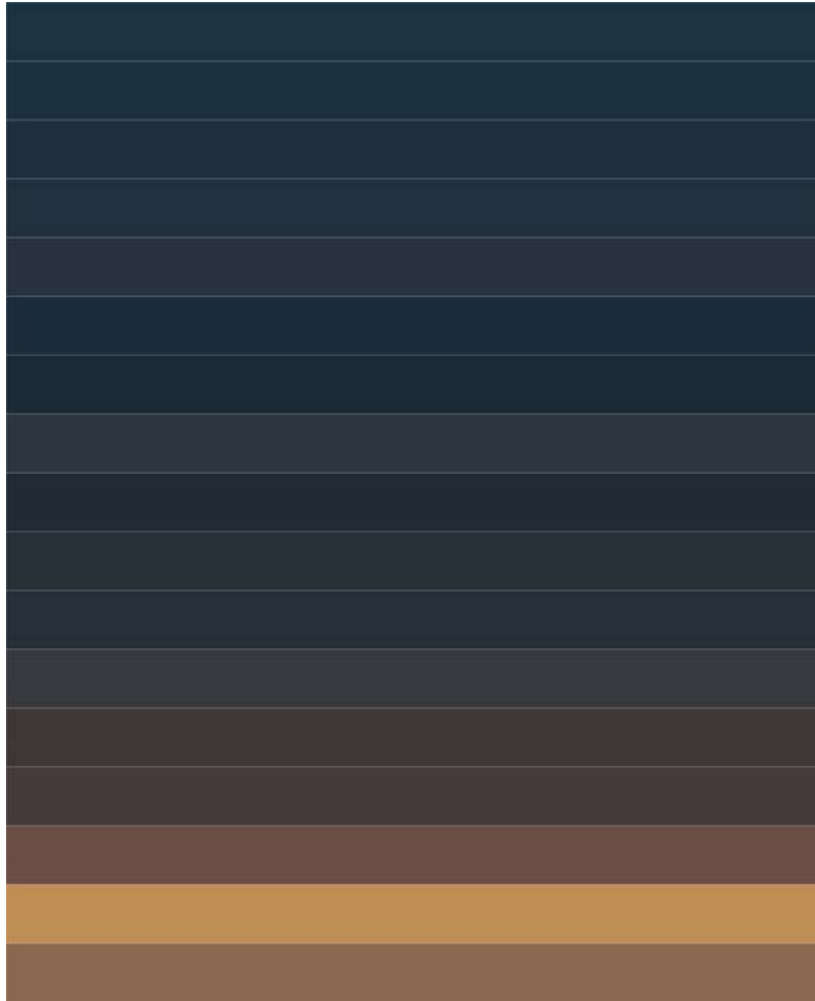
Pixel manipulation where the pixel is  
relocated through algorithms and produce an  
artificial atmospheric event from the natural  
one.



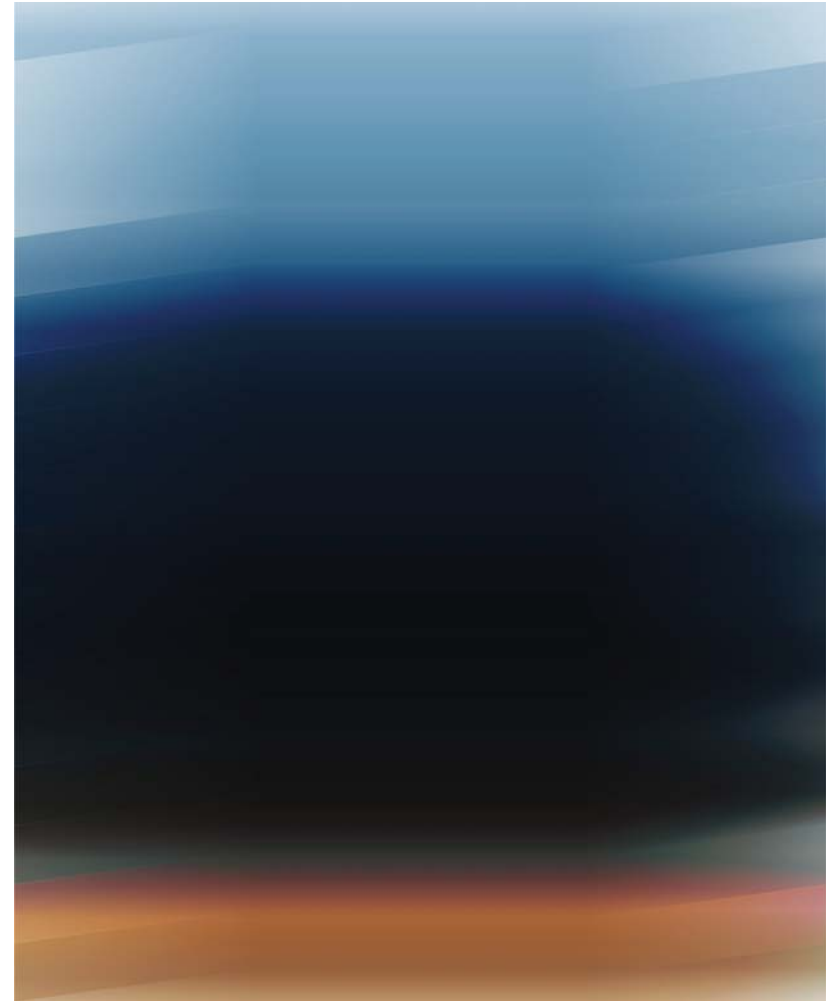
Color pixel selection every one inches to  
sinthetize and categorize samples of the  
natural atmospheric event.



Pixel manipulation where the pixel is  
relocated through algorithms and produce an  
artificial atmospheric event from the natural  
one.



Color pixel selection every one inches to  
sinthetize and categorize samples of the  
natural atmospheric event.



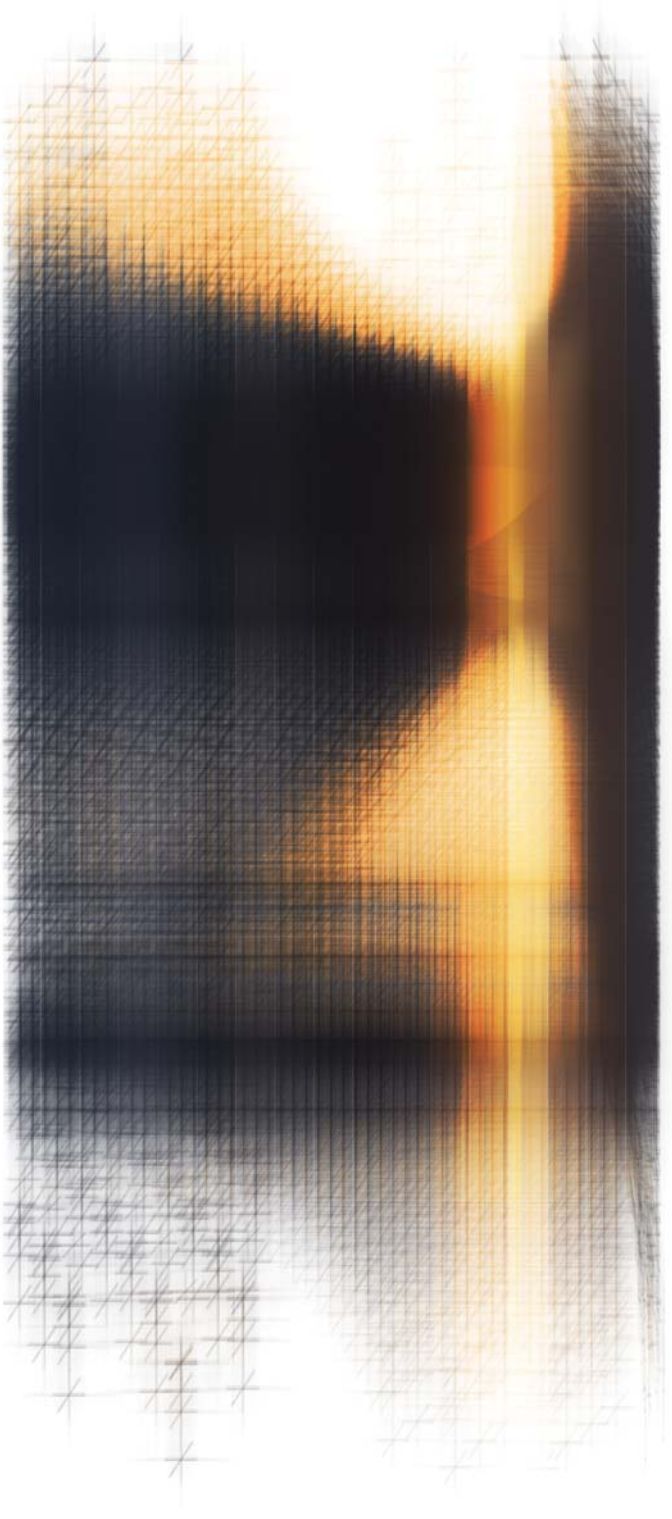
Pixel manipulation where the pixel is  
relocated through algorithms and produce an  
artificial atmospheric event from the natural  
one.



				
Sample#1	Sample#2	Sample#3	Sample#4	Sample#5
R45 G51 B62	R41 G47 B59	R41 G48 B58	R46 G50 B62	R62 G67 B79
				
Sample#6	Sample#7	Sample#8	Sample#9	Sample#10
R52 G57 B68	R35 G38 B45	R62 G62 B71	R42 G45 B54	R45 G46 B51
				
Sample#11	Sample#12	Sample#13	Sample#14	Sample#15
R37 G36 B42	R46 G45 B51	R62 G51 B52	R95 G68 B57	R242 G194 B125
				
Sample#16	Sample#17			
R231 G277 B115	R229 G189 B154			

Categorized samples in order with RGB decimal code.






















Convergence  
between the technical  
and aesthetic as  
temperamental  
depiction of artificial  
atmospheric event.

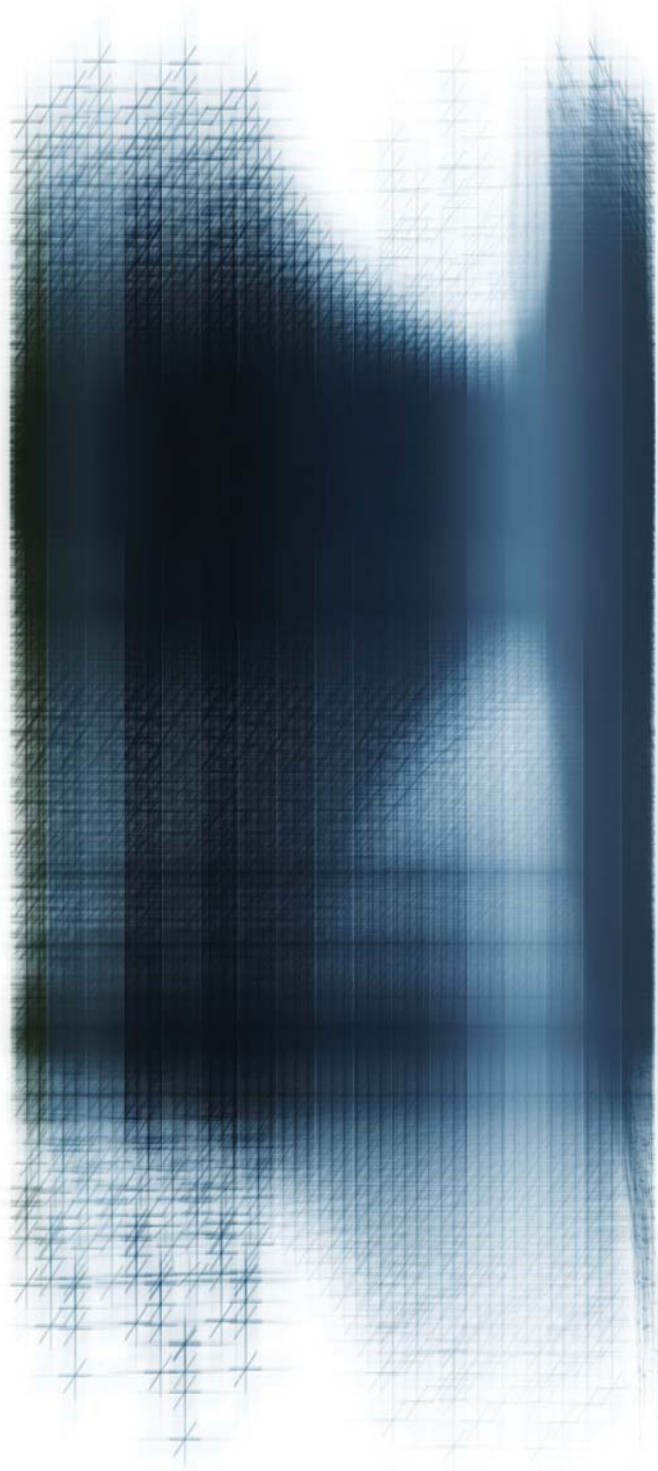


Convergence  
between the technical  
and aesthetic as  
temperamental  
depiction of artificial  
atmospheric event.

				
Sample#1	Sample#2	Sample#3	Sample#4	Sample#5
R135 G152 B168	R136 G154 B168	R143 G161 B177	R159 G179 B181	R138 G150 B162
				
Sample#6	Sample#7	Sample#8	Sample#9	Sample#10
R189 G206 B222	R169 G187 B201	R159 G178 B193	R167 G185 B199	R127 G155 B169
				
Sample#11	Sample#12	Sample#13	Sample#14	Sample#15
R134 G151 B164	R14 G22 B24	R155 G172 B180	R1 G17 B193	R101 G118 B125
				
Sample#16	Sample#17			
R167 G189 B202	R155 G165 B171			

Categorized samples in order with  
RGB decimal code.





Convergence  
between the technical  
and aesthetic as  
temperamental  
depiction of artificial  
atmospheric event.



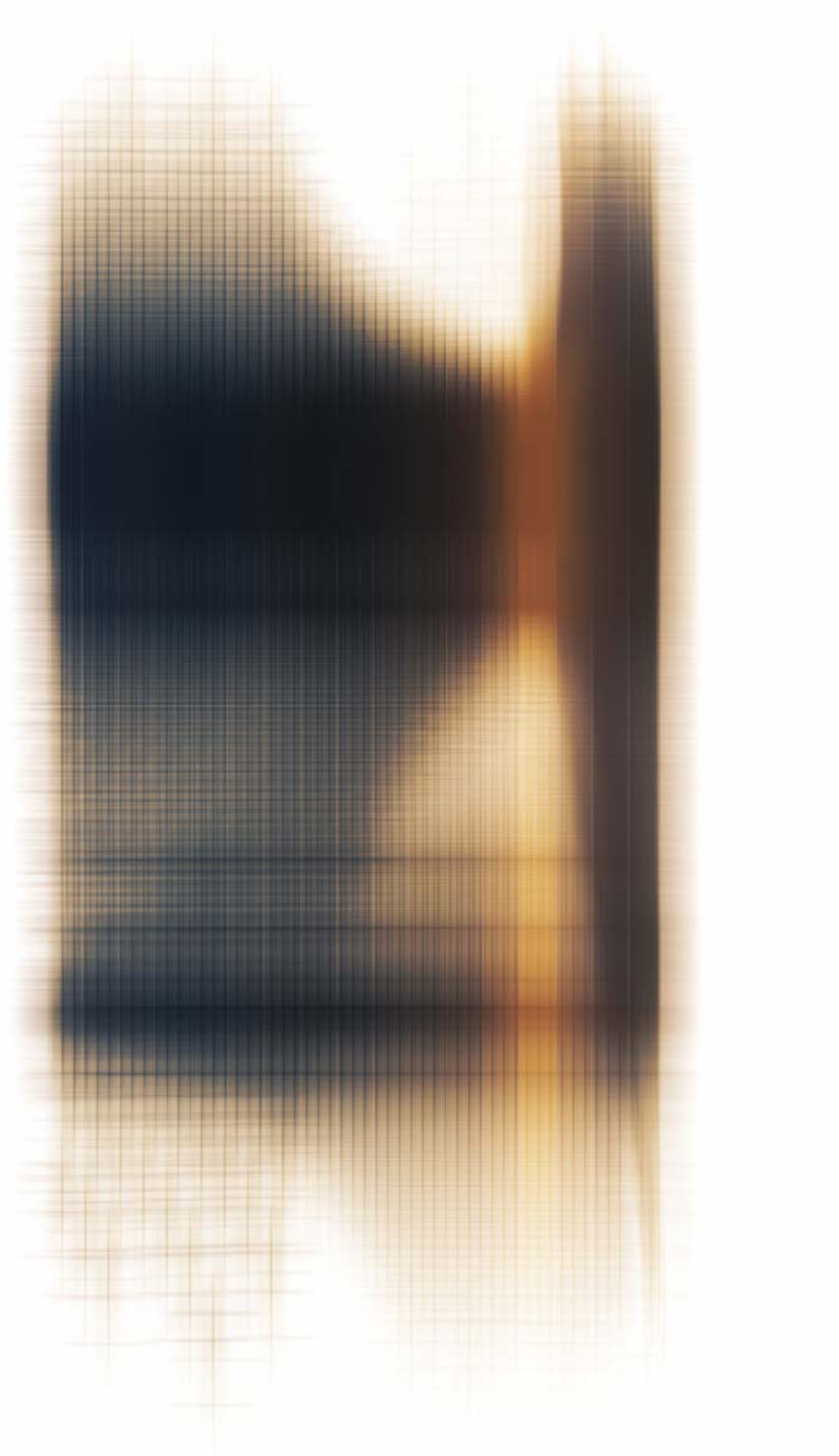
Convergence  
between the technical  
and aesthetic as  
temperamental  
depiction of artificial  
atmospheric event.



				
Sample#1	Sample#2	Sample#3	Sample#4	Sample#5
R28 G50 B64	R37 G49 B62	R33 G45 B61	R34 G48 B61	R41 G51 B62
				
Sample#6	Sample#7	Sample#8	Sample#9	Sample#10
R29 G45 B58	R29 G42 B54	R44 G54 B64	R33 G42 B52	R39 G48 B55
				
Sample#11	Sample#12	Sample#13	Sample#14	Sample#15
R39 G47 B58	R56 G57 B62	R61 G56 B52	R69 G59 B58	R107 G78 B70
				
Sample#16	Sample#17			
R191 G142 B86	R138 G104 B79			

Categorized samples in order with  
RGB ecimal code.





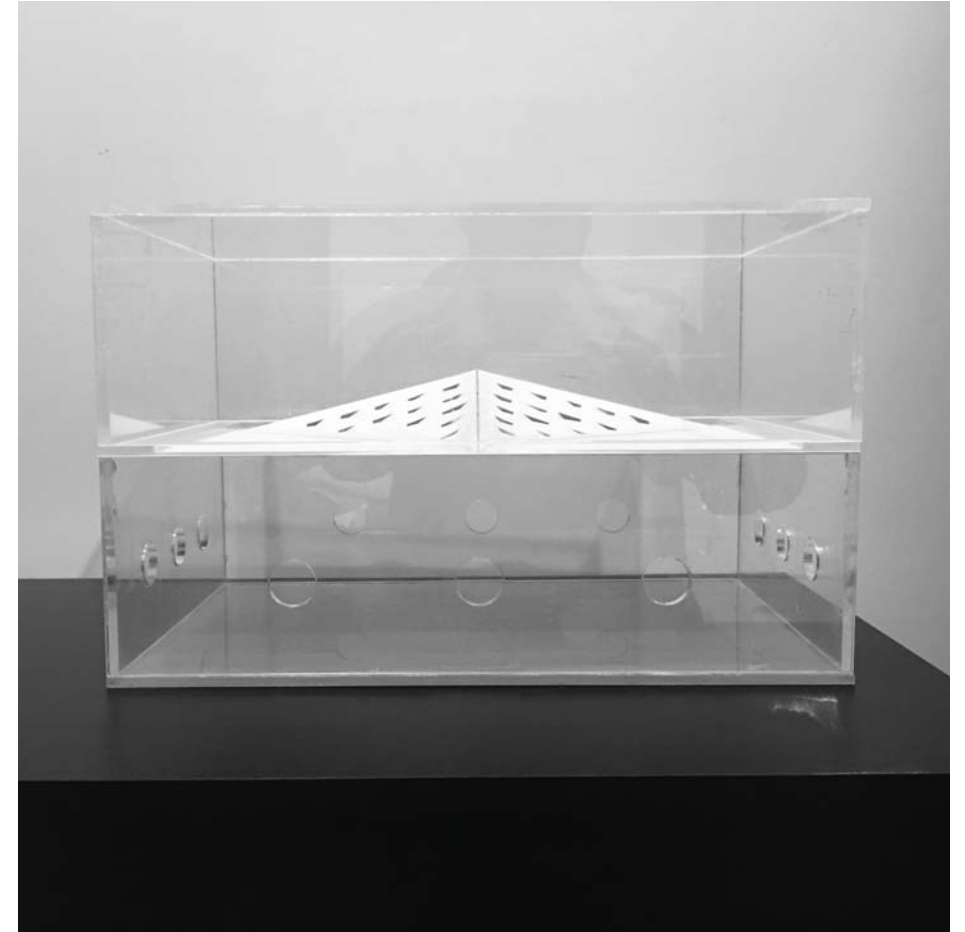
Convergence  
between the technical  
and aesthetic as  
temperamental  
depiction of artificial  
atmospheric event.



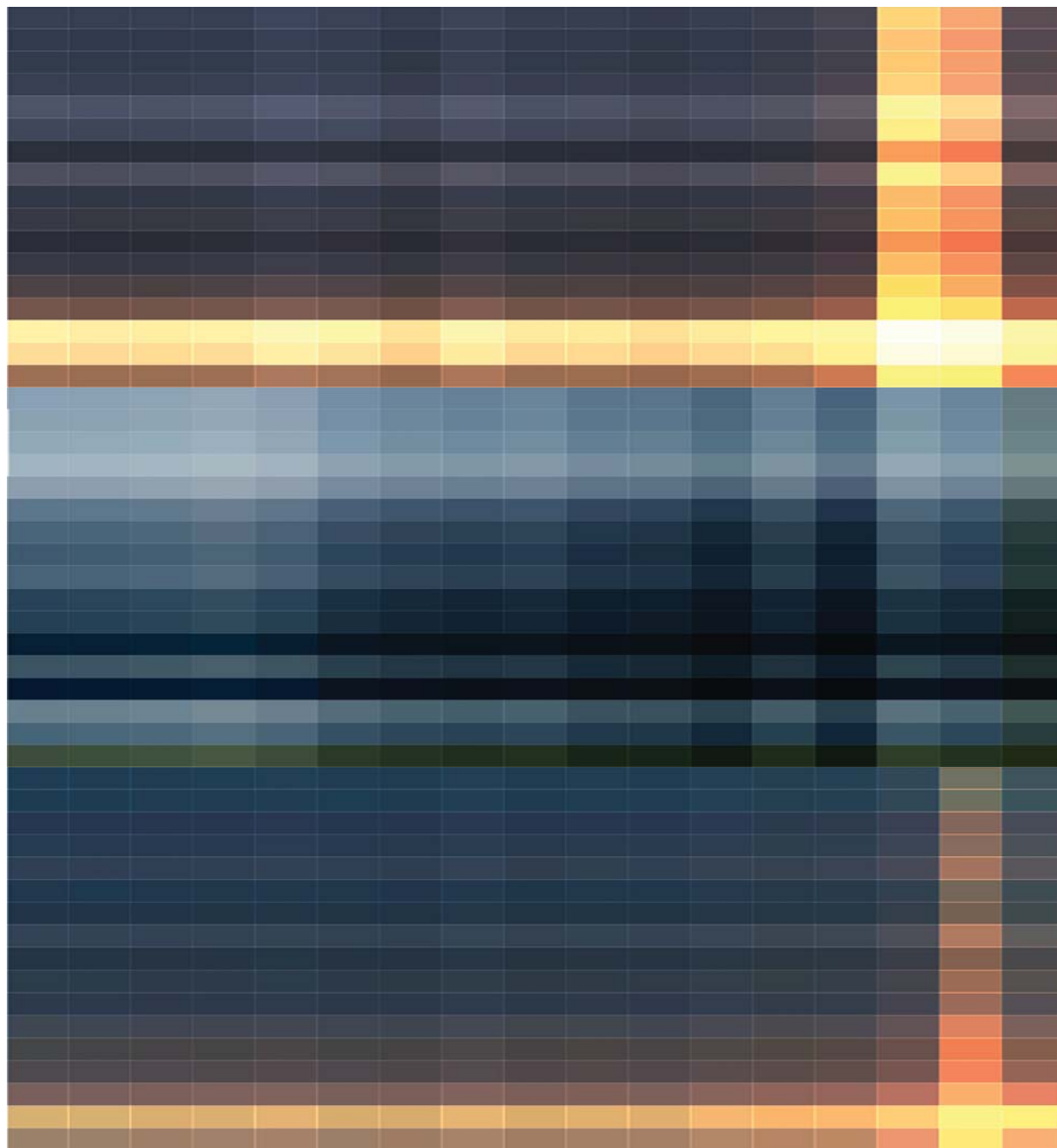
Convergence  
between the technical  
and aesthetic as  
temperamental  
depiction of artificial  
atmospheric event.



Physical Apparata to  
test thermal energies  
contains in a glass  
box. This apparatus  
test architectural  
elements like ceiling,  
wall and floors.



Physical Apparata to  
test thermal energies  
contains in a glass  
box. This apparatus  
test architectural  
elements like ceiling,  
wall and floors.



## Testing Temperament (Scattered Grid)

Sample#1



Sample#2



Sample#3



Sample#4

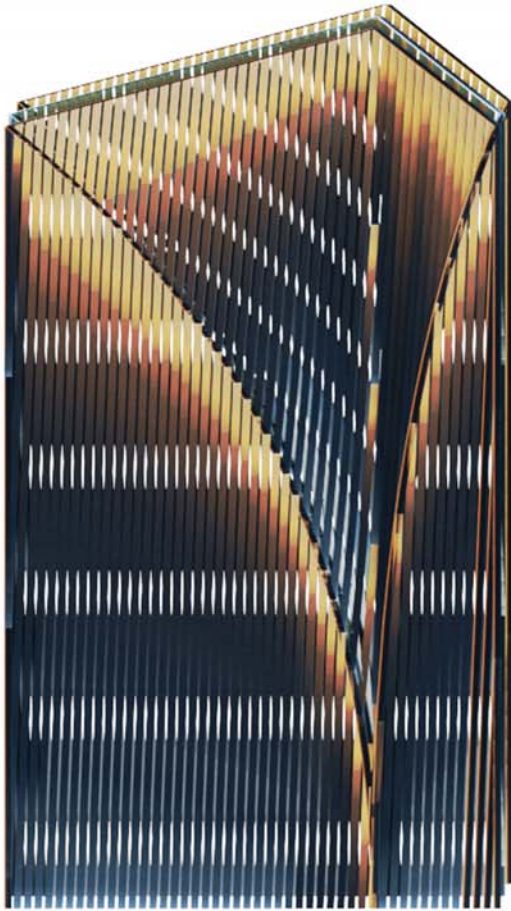


Scattered grid using temperament samples to reproduce atmospheric events as filters.



## Part II

### *The Ceilling*



Str. Temperament#1



Str. Temperament#2



Str. Temperament#3

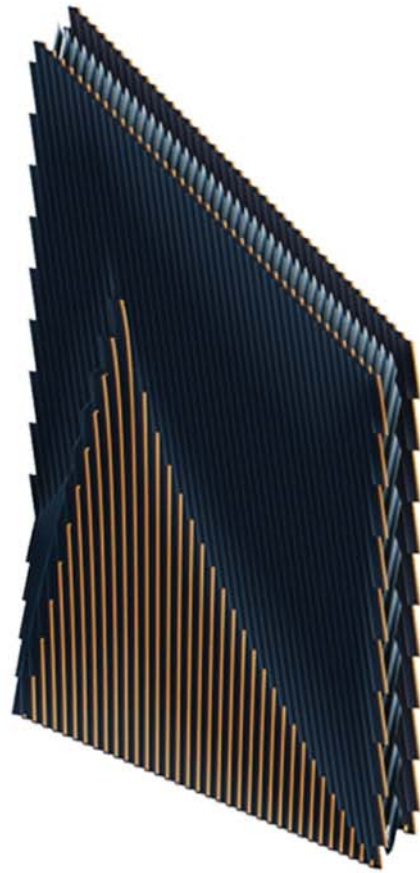


Str. Temperament#4



## Part II

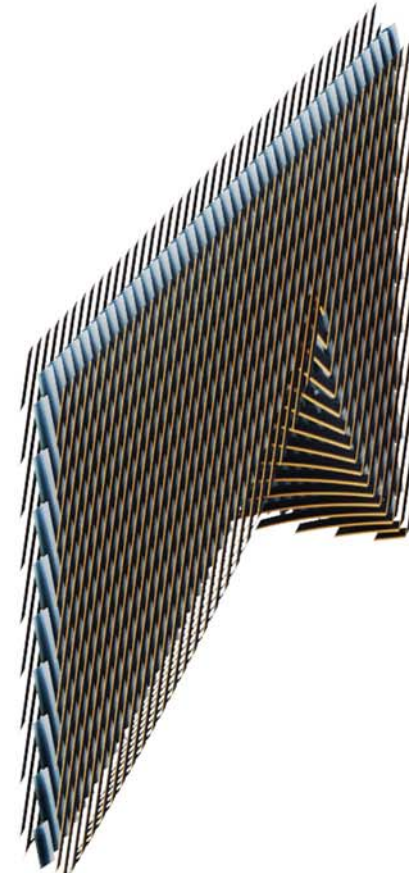
### The Wall



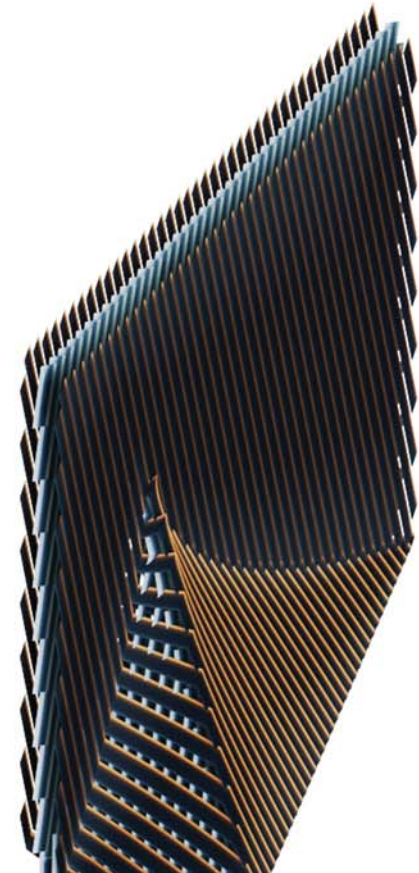
Str. Temperament#1



Str. Temperament#2



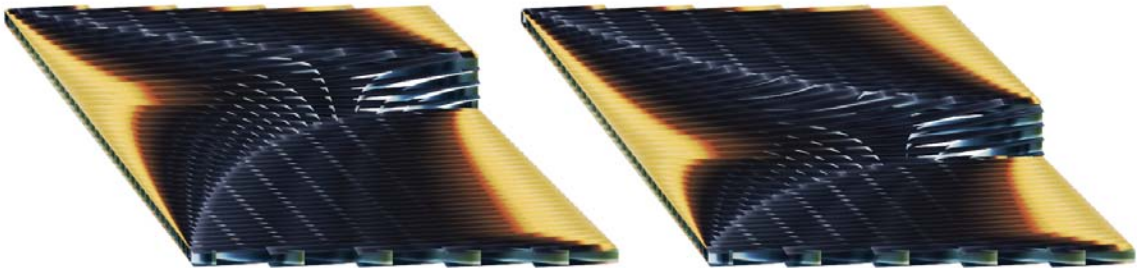
Str. Temperament#3



Str. Temperament#4

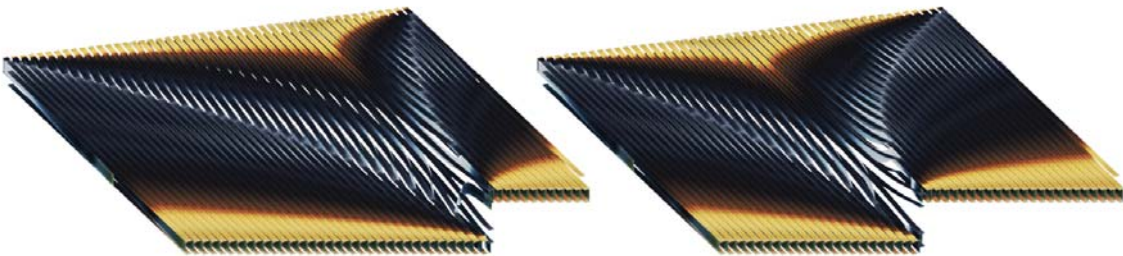
Part II

The Floor



Str. Temperament#1  
Variation #1

Str. Temperament#2  
Variation #2



Str. Temperament#3  
Variation #3

Str. Temperament#4  
Variation #4



## Part II

### *Temperamental Architecture*



Temperamental Hut





**Primitive Hut**  
**Vitruvius**  
**Marc Antoine Laugier**

Fig. 2  
 Primitive Hut, Vitruvius, Marc  
 Antoine Laugier.

-Image taken from <https://aap.cornell.edu/news-events/philippe-rahm-preston-h-thomas-masterclass>



**Primitive Hut**  
**Eugène Viollet-le-Duc**

Fig. 3  
 Primitive Hut, Eugène Viollet-  
 Le-Duc.

-Image taken from <https://aap.cornell.edu/news-events/philippe-rahm-preston-h-thomas-masterclass>



**Temperamental Hut**

'ATMOSPHERIC EVENTS'

'CONTENT AND  
CONTAINER'

'APPARATUS'

'CAPTURE.  
ORIENT,  
DETERMINE,  
INTERCEPT,  
MODEL,  
CONTROL,  
,CATEGORIZE  
AND  
DIVERGE'

'TECHINICAL AND  
AESTHETIC'

'TEMPERATURE  
AND  
TEMPERAMENT'

'FORGOTTEN:  
EXHAUST-DANKNESS'

'THIRD  
ATMOSPHERE'

'PAUSIBLE FICTIONS'



Reclaim and Engages



Fig. 4  
Observing the smog-filled air of  
New York.

-Image taken in [https://  
www.6sqft.com/remembering-  
new-york-citys-days-of-deadly-  
smog/gLVYTVFbx8aBKzsM8](https://www.6sqft.com/remembering-new-york-citys-days-of-deadly-smog/gLVYTVFbx8aBKzsM8)

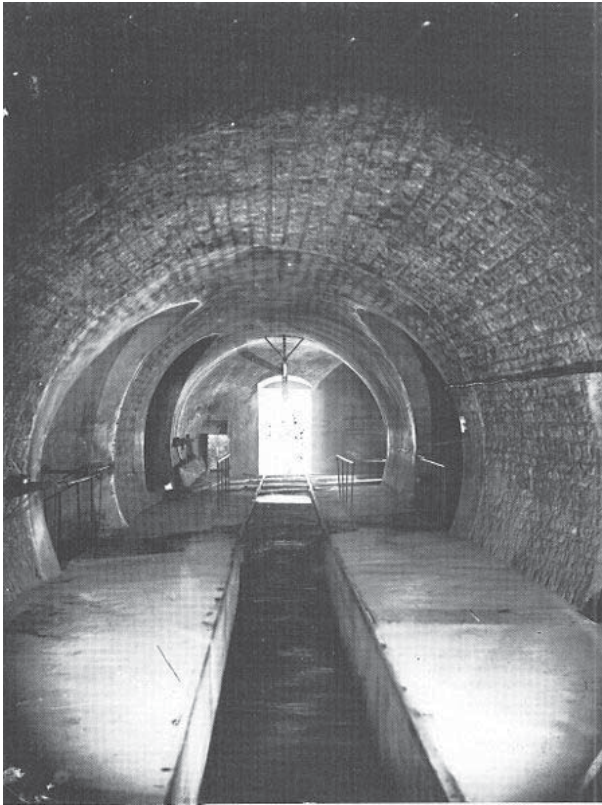


Fig. 5  
Rationalizing the dark, wet,  
underground of Paris, interior of  
a sewer, Nadar, circa 1886.

-Image taken from  
Gissen, David, Subnature  
Architecture's other  
environments. 2009. Pag. 33.

It reclaims and engages two subnatural atmospheres: exhaust (vaporous and malodorous) and dankness (dark, wet, and cool). The interaction of these forgotten atmospheres creates the potential for a third atmosphere, where body and use, and content and container intermingle.

## Revision of Precedents



Fig. 6  
Kanagawa Institute of  
Technology (Japan) by Junya  
Ishigami.

-Image taken in [https://  
images.app.goo.gl/](https://images.app.goo.gl/)



Fig. 7  
Farnsworth House (Illinois) by  
Mies Van der Rohe

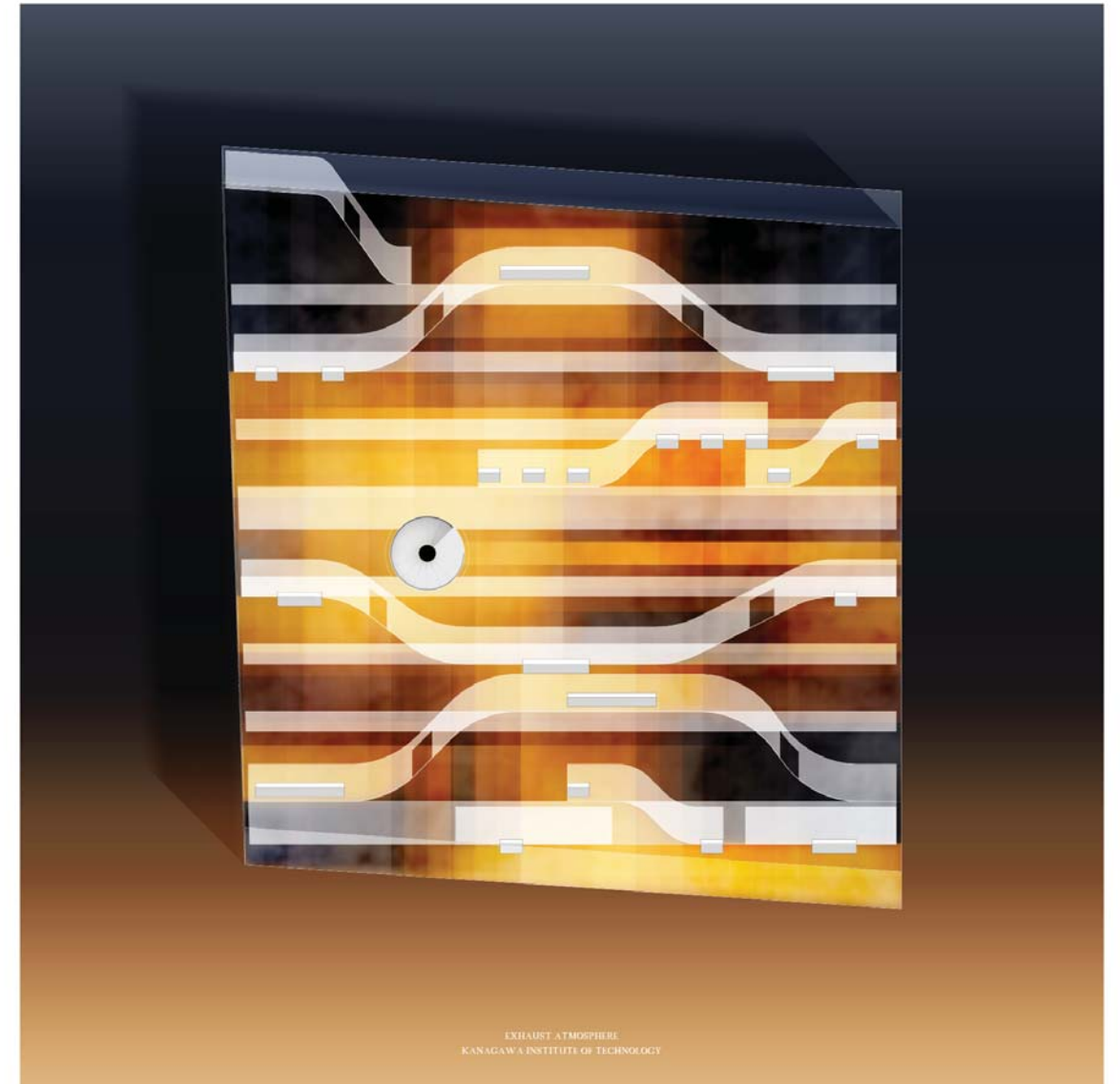
-Image taken in [https://  
www.smithsonianmag.  
com/science-nature/how-  
storm-chaser-changed-face-  
tornado-science-180968688/  
TWHzf9ycM1VQBAo8](https://www.smithsonianmag.com/science-nature/how-storm-chaser-changed-face-tornado-science-180968688/TWHzf9ycM1VQBAo8)

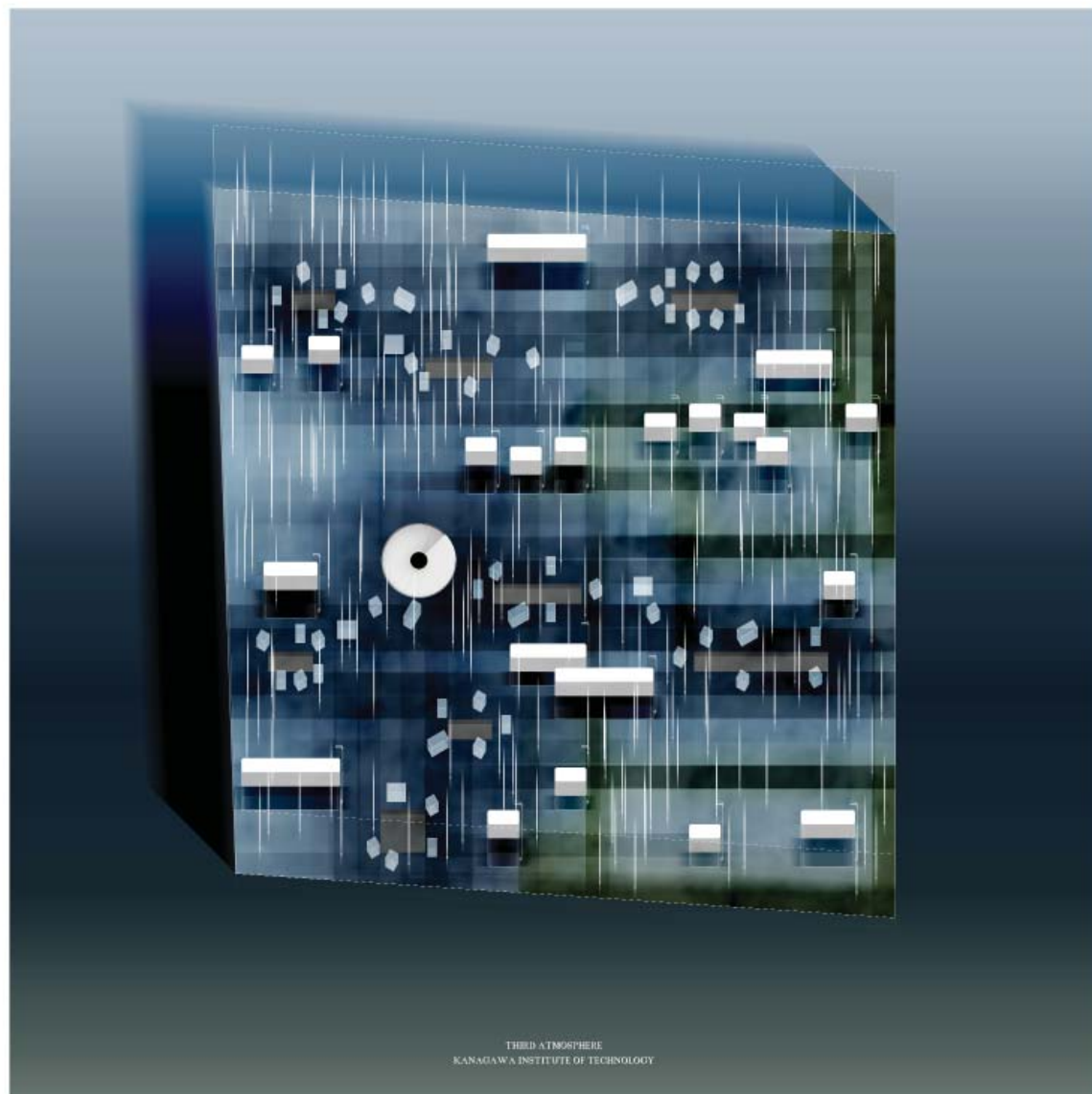
This thesis tests these premises through the revision of precedents that embody the disappearance of atmosphere the Kanagawa Institute of Technology by Junya Ishigami and Mies van der Rohe's Farnsworth House creating plausible fictions of architectural futures that seamlessly incorporate atmospheric events.



## *Pausable Fictions*

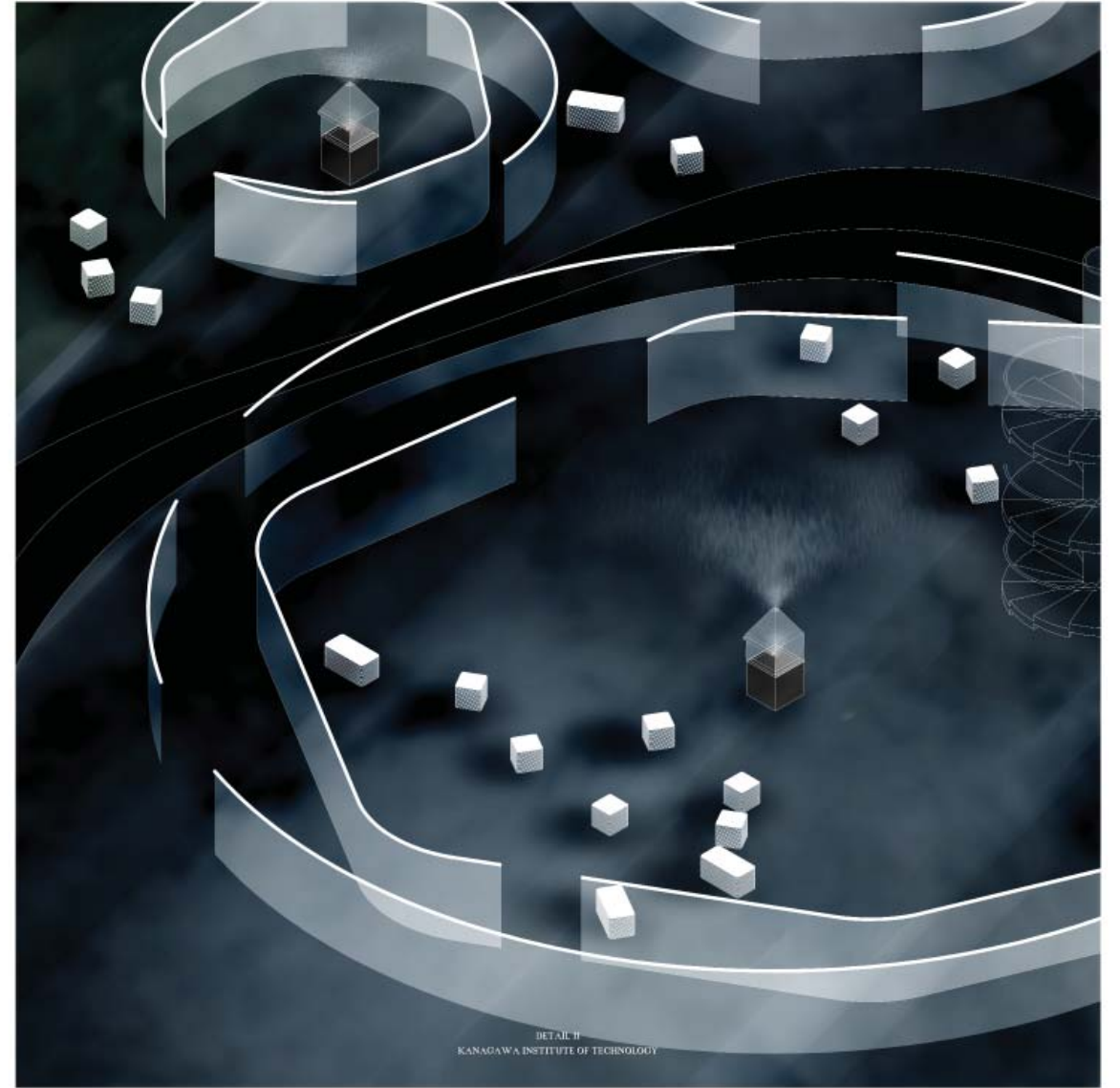
My thesis scrutinizes our discipline's representational techniques, seeking the appropriate conventions for the depiction of architecture at the scale of atmosphere.

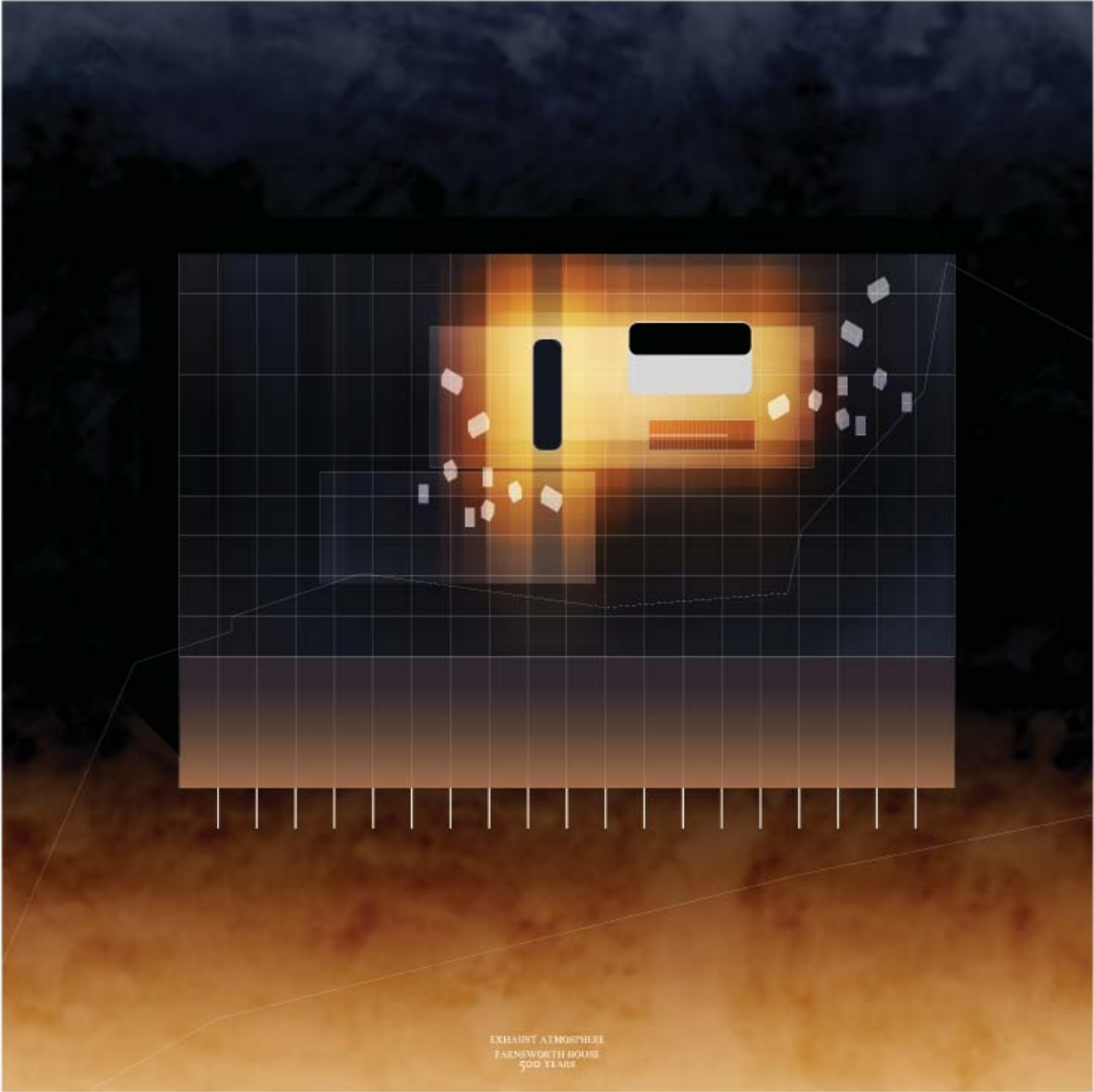
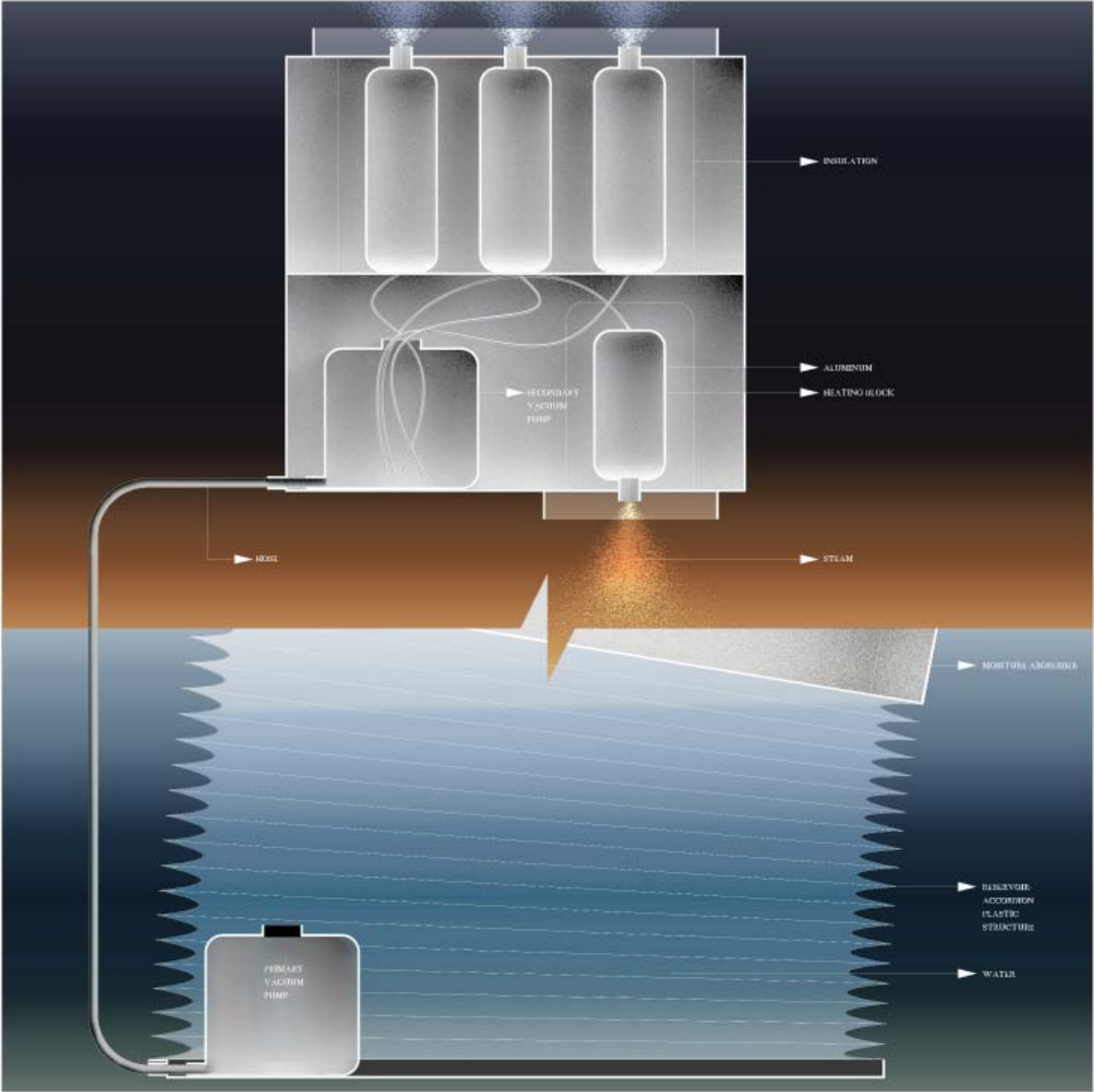


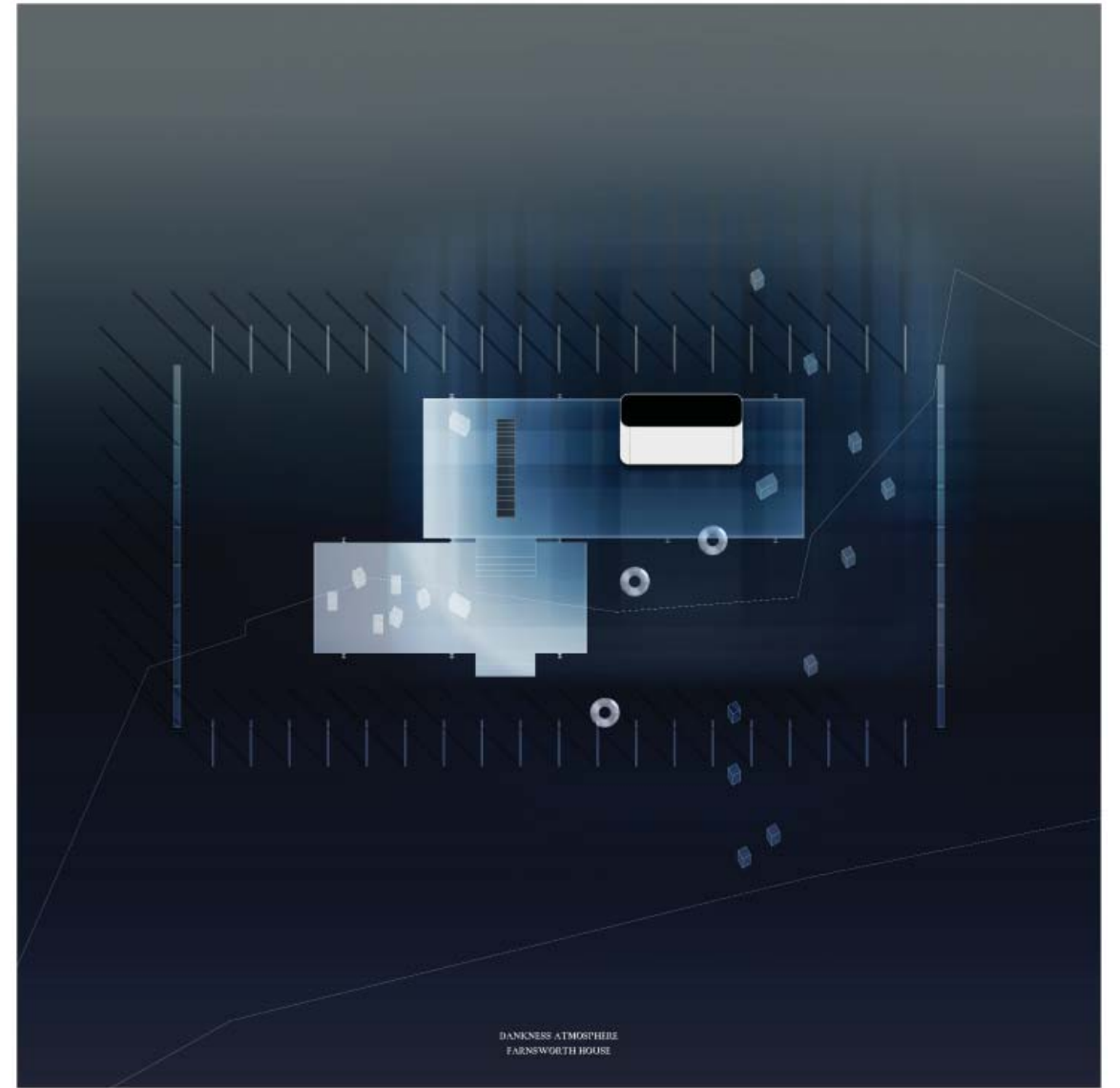


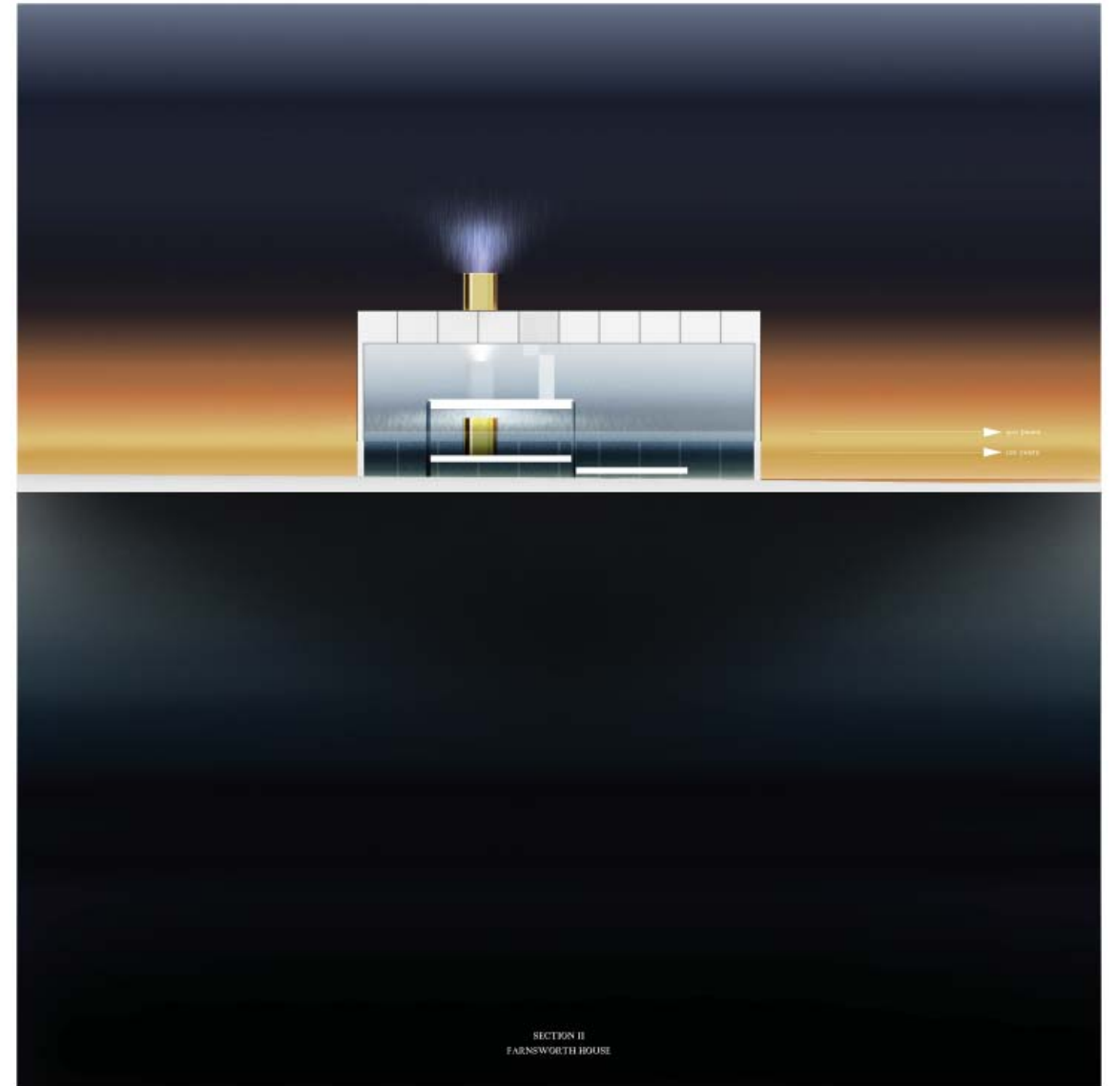
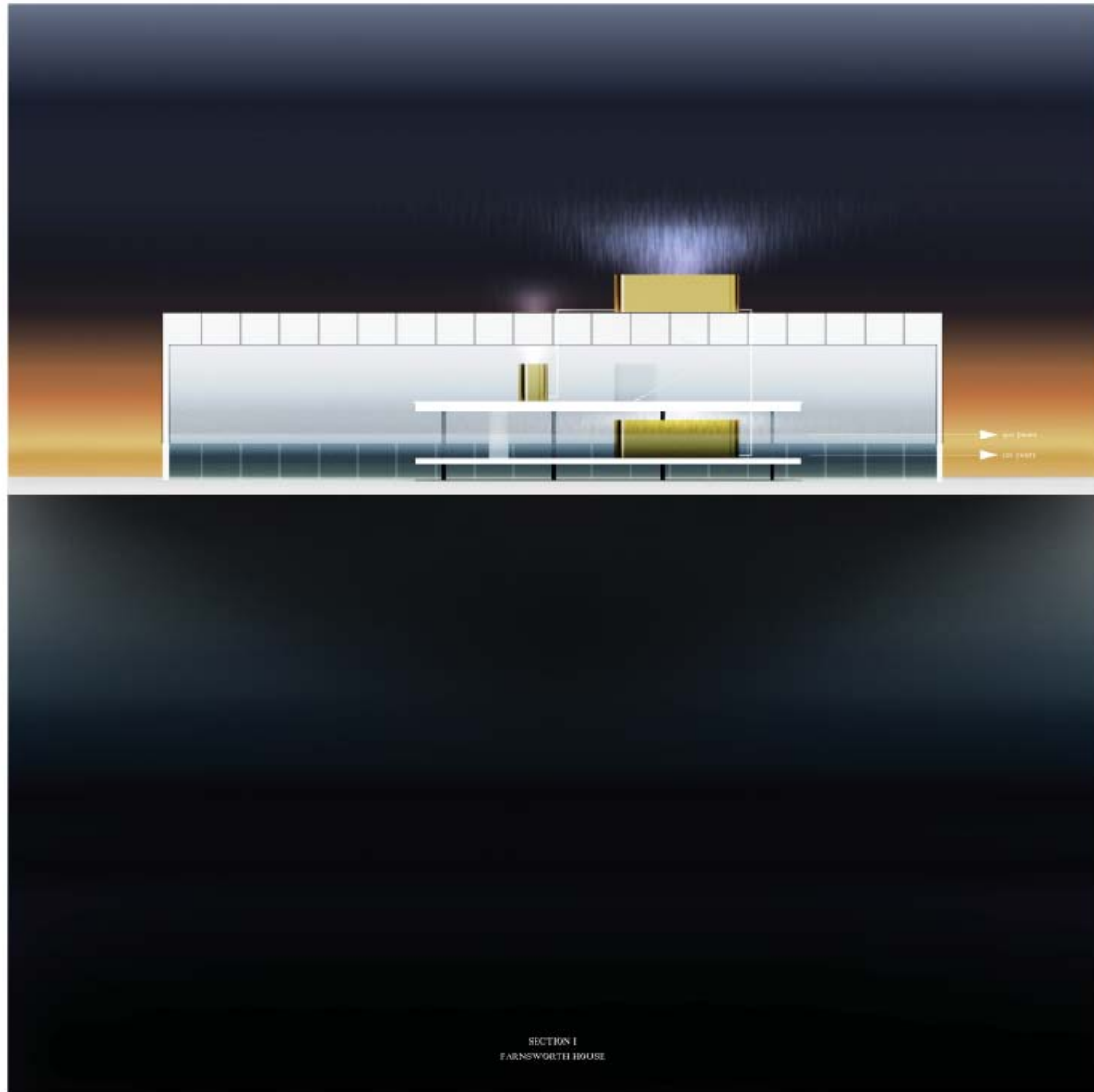




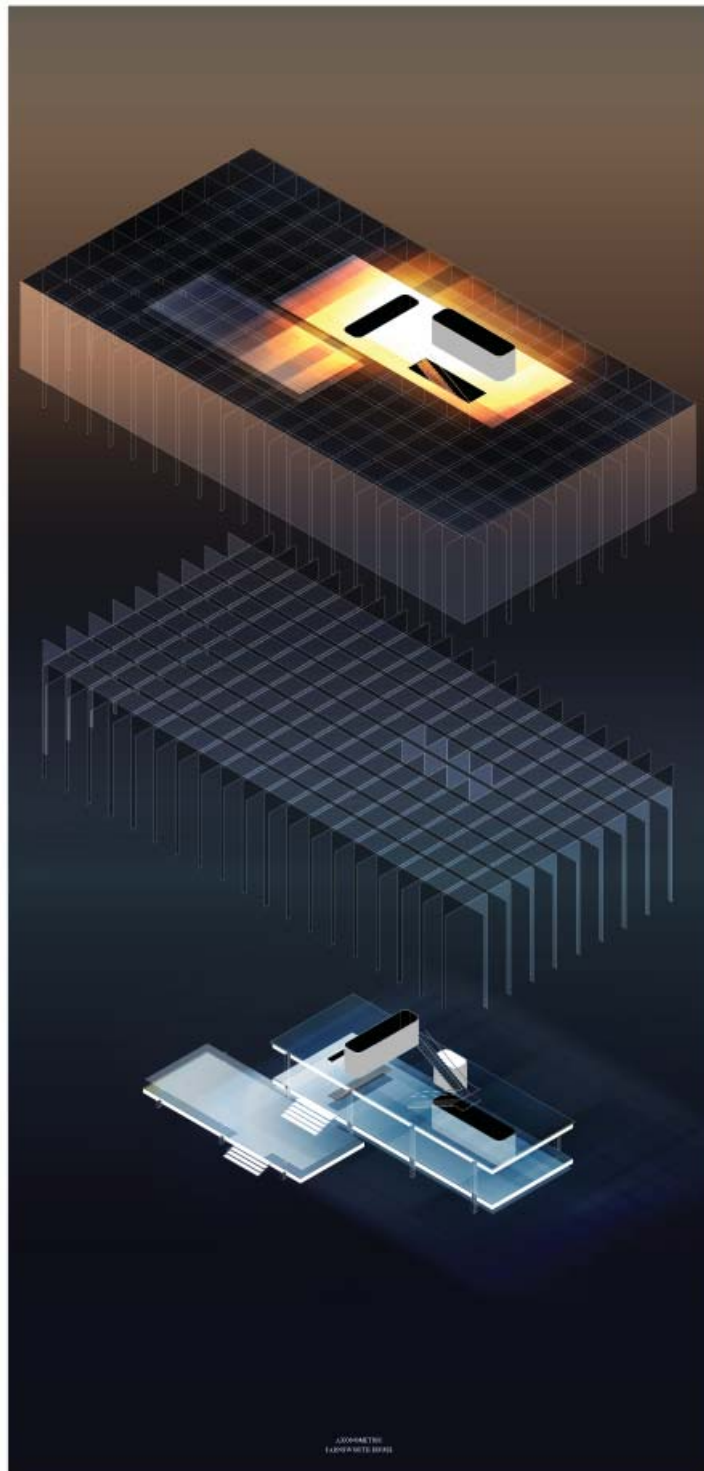












## REFERENCE



Atmospheric Event 1



Atmospheric Event 2



September 20, 2017.  
Hurricane Maria.



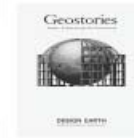
Atmospheric Event 4.



Connor, Steven. 2010.  
The Matter of Air,  
Science and Art of the  
Ethereal. London:  
Reaktion Books Ltd.



Hamblyn, Richard. 2001.  
The Invention of Clouds;  
How an Amateur  
Meteorologist Forged the  
language of the skies.  
New York: Farrar, Straus  
and Giroux.



Ghosh, Ranis and  
Jazairy, El Hadi. 2018.  
Geostories: Another  
Architecture for the  
Environment. New York,  
Barcelona: Actar  
Publisher.



Smilde, Berndnaut.  
2015. Making Clouds.



Tschumi, Bernard. 1990.  
Architecture and  
Disjunction. Cambridge,  
Massachusetts: The MIT  
Press.



Eliasson, Olafur. 2003.  
Olafur Eliasson, The  
Weather Project.  
London: Tate Publishing.



Gissen, David. 2009.  
Subnature; Architecture's  
other environments. New  
York: Princeton  
Architectural Press.



Waldvogel, Christian.  
2010. Earth Extremes.  
Zurich: Scheidegger &  
Spiss.



Klein, Yves. 1961.  
Void room.



Tschumi, Bernard. 2012.  
Bernard Tschumi;  
Architecture Concepts,  
Red is not a color. New  
York: Rizzoli  
International  
Publications, INC.



Mostafavi, Mohsen and  
Leatherbarrow, David.  
1993. On Weathering;  
The life of Building in  
Time. Cambridge,  
Massachusetts: The MIT  
Press.



Durham Peters, John.  
2015. The Marvelous  
Clouds; Towards a  
Philosophy of Elemental  
Media. Chicago: The  
University of Chicago  
Press.



Klein, Yves. 1960.  
Leap into the Void.



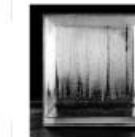
Tschumi, Bernard. 1981.  
Bernard Tschumi; The  
Manhattan Transcripts.  
Great Britain: Academy  
Editions.



Gissen, David. 2014.  
Manhattan Atmospheres;  
Architecture, the interior  
environments and urban  
crisis. Minneapolis,  
Minnesota: University of  
Minnesota Press.



Lally, Sean. 2014. The  
Air from other Planets; A  
Brief History of  
Architecture to Come.  
Switzerland: Lars Muller  
Publishers.



Haacke, Hans. 2008.  
Condensation Cube.



Bakke, Monika. 2007.  
Going Aerial; Air, Art,  
Architecture.  
Netherlands: Jan Van  
Eyck Academie.



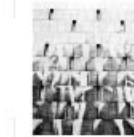
Tschumi, Bernard. 2014.  
Bernard Tschumi;  
Notations, Diagrams and  
Sequence. London:  
Artifice books on  
Architecture.



Bakke, Monika. 2007.  
Going Aerial; Air, Art,  
Architecture.  
Netherlands: Jan Van  
Eyck Academie.



Zumthor, Peter. 2006.  
Atmospheres.  
Switzerland: Birkhäuser  
Verlag GmbH.



Marcel Breuer, A. Elzas.  
1955-1957.  
De Bijenforf Department  
Store



IMAGE CREDIT

Fig. 1 Observing tornado with violent winds and subsequent floods in El Reno, Oklahoma. Image from <a href="https://www.smithsonianmag.com/science-nature/how-storm-chaser-changed-face-tornado-science-180968688/">https://www.smithsonianmag.com/science-nature/how-storm-chaser-changed-face-tornado-science-180968688/</a>	Fig. 5 Rationalizing the dark, wet, underground of Paris, interior of a sewer, Nadar, circa 1886. Image from Gissen, David, Subnature Architecture's other environments. 2009. Pag. 33.
Fig. 2 Primitive Hut, Vitruvius, Marc Antoine Lagier. Image taken from <a href="https://aap.cornell.edu/news-events/philippe-rahm-preston-h-thomas-masterclass">https://aap.cornell.edu/news-events/philippe-rahm-preston-h-thomas-masterclass</a>	Fig. 6 Kanagawa Institute of Technology (Japan) by Junyia Ishigami. Image from <a href="https://images.app.goo.gl/">https://images.app.goo.gl/</a>
Fig. 3 Primitive Hut, Eugene Viollet-Le-Duc. Image taken from <a href="https://aap.cornell.edu/news-events/philippe-rahm-preston-h-thomas-masterclass">https://aap.cornell.edu/news-events/philippe-rahm-preston-h-thomas-masterclass</a>	Fig. 7 Farnsworth House (Illinois) by Mies Van der Rohe Image from <a href="https://www.smithsonianmag.com/science-nature/how-storm-chaser-changed-face-tornado-science-180968688/">https://www.smithsonianmag.com/science-nature/how-storm-chaser-changed-face-tornado-science-180968688/</a>
Fig. 4 Observing the smog-filled air of New York. Image from <a href="https://www.6sqft.com/remembering-new-york-citys-days-of-deadly-smog/gLVYTVFbx8aBKzsM8">https://www.6sqft.com/remembering-new-york-citys-days-of-deadly-smog/gLVYTVFbx8aBKzsM8</a>	TWHzf9ycM1VQBAo8  The rest of the images utilized in this thesis book were produced by the Author: Jesús M. Meléndez Vázquez

INDEX

<i>Act</i>	Expel	Matter
<i>Amateur</i>	Experience	Media
<i>Analysis</i>	Extreme	Merged
<i>Architecture</i>	-	Meteorological
<i>Arrange</i>	Factor	Meteorologist
<i>Atmos</i>	Follows	Meteorology
<i>Atmosphere</i>	Forecasting	Morphological
-	Forged	Mostafavi, Mohsen
Bakke, Monika	Format	Movement
Bodies	Form	-
-	-	Origin
Catalogue	Geostories	-
Clouds	Gissen, David	Phenomena
Climate	Ghosn, Rania	Philosophy
Climatic conditions	Global	Planets
Composition	-	Position
Condensation	Haacke, Hans	Precedents
Conditions	Hamblyn, Richard	Pressure
Conduction	Heat	Principles
Connor, Steven	Humidity	Process
Consciousness	-	Prototype
Constructed	Invention	-
Convection	Integrated	Radiation
Critical	Interior	Rain
Cube	Informed	Rahm, Philippe
-	Instruments	Reconstruction
Design	-	Recontextualize
Disciplinary	Jazairy, El Hadi	
Disjunction	-	
Disturbance	Klein, Yves	
Documentation	-	
Drawings	Lally, Sean	
Durham, Peter	Language	
-	Leatherbarrow, David	
Earth	Leap	
Elemental	Life	
Elements	Light	
Eliasson, Olafur	Living	
Environment	-	
Evaporation	Manhattan	
Events	Making	
Exosphere	Marvelous	