



ENVIRONMENT & BUILDING SYSTEMS

Workshop Part B

Utah Field Services

Utah Division of Arts and Museums

August 4, 2022:

Park City Museum, Education & Collections Center

10 am - 5 pm



NATIONAL
ENDOWMENT
FOR THE
HUMANITIES



UTAHHUMANITIES
Ideas in Action



Utah Division of
Arts & Museums

PROGRAM OVERVIEW: Year at a Glance

~~1. ACCESS AND ARTIFACT HANDLING~~

- JANUARY
 - FEBRUARY
 - MARCH
- Workshop (pt A & B)
 - 1. Webinar
 - 2. Webinar
 - 3. Webinar

~~2. PRESERVATION IN STORAGE AND DISPLAY~~

- APRIL
 - MAY
 - JUNE
- Workshop (pt A & B)
 - 1. Webinar
 - 2. Webinar
 - 3. Webinar



3. ENVIRONMENT AND BUILDING SYSTEMS

- JULY
 - AUGUST
 - SEPTEMBER
- Workshop (pt A & B)
 - 1. Webinar
 - 2. Webinar
 - 3. Webinar

4. RISK MANAGEMENT, EMERGENCY PREPAREDNESS & DISASTER RESPONSE

- OCTOBER
 - NOVEMBER
 - DECEMBER
- Workshop (pt A & B)
 - 1. Webinar
 - 2. Webinar
 - 3. Webinar

GOALS

Gain a better understanding of Key Themes...



Key Themes

- Increase understanding of environmental monitoring and temperature and relative humidity
- Understand building HVAC systems that manage your environment
- Increase understanding of how to analyze environmental monitoring data
- Increase understanding of decision-making in response to environmental data

AGENDA

Handout



Environment and Building Systems

Workshop Part B Agenda

Park City Museum, Education & Collections Center

August 4, 2022

Learning Goals for Workshop pt B

1. Increase understanding of environmental monitoring of temperature and relative humidity
2. Understand building HVAC systems that manage your environment
3. Increase understanding of how to analyze environmental monitoring data
4. Increase understanding of decision-making in response to environmental data

Agenda

10:00-10:10	Housekeeping/Introductions
10:10-10:40	Go over homework
10:40-11:00	Basics of Environmental Monitoring
11:00-11:20	Activity: Environmental Monitoring Tools How-to: Light meters, data loggers, Elsec
11:20-11:30	BREAK
<hr/>	
11:30-12:15	Introduction to Environmental Data analysis
	1. Brief review of using light data
	2. Basics of using environmental monitoring free software
12:15-1:15	LUNCH
<hr/>	
1:15-1:30	Introduction to HVAC Systems
1:30-2:30	Group walk through HVAC systems at Museum, tour of Museum spaces, Q&A with building contractor
2:30-2:40	BREAK (10 min)
<hr/>	
2:40-3:00	Discussion: Observations from HVAC systems we viewed
3:00-3:40	Activity: Environmental Monitoring Systems at Home Institutions
3:40-4:00	Circle back to software: Drive-through demo with free software tool
4:00-4:30	Reflection on Activity, wrap-up, evaluation

INTRODUCTIONS

THANK YOU TO OUR HOST: Park City Museum: Morgan Pierce and Courtney Titus

Please share the following:

1. Name
2. Where you work, your role and how long you have worked there
3. What does environmental monitoring for collections mean to you?



HOMEWORK REVIEW

Homework:

1. Begin to draft and outline Collections Care and Conservation Plan (focusing on both storage and display). Please send draft to Marie before next workshop.
2. Dust Monitoring and Environmental Monitoring at your home institution: Place a dust monitoring slide in an area of interest. Bring it with you to the next workshop (and/or images of your findings)



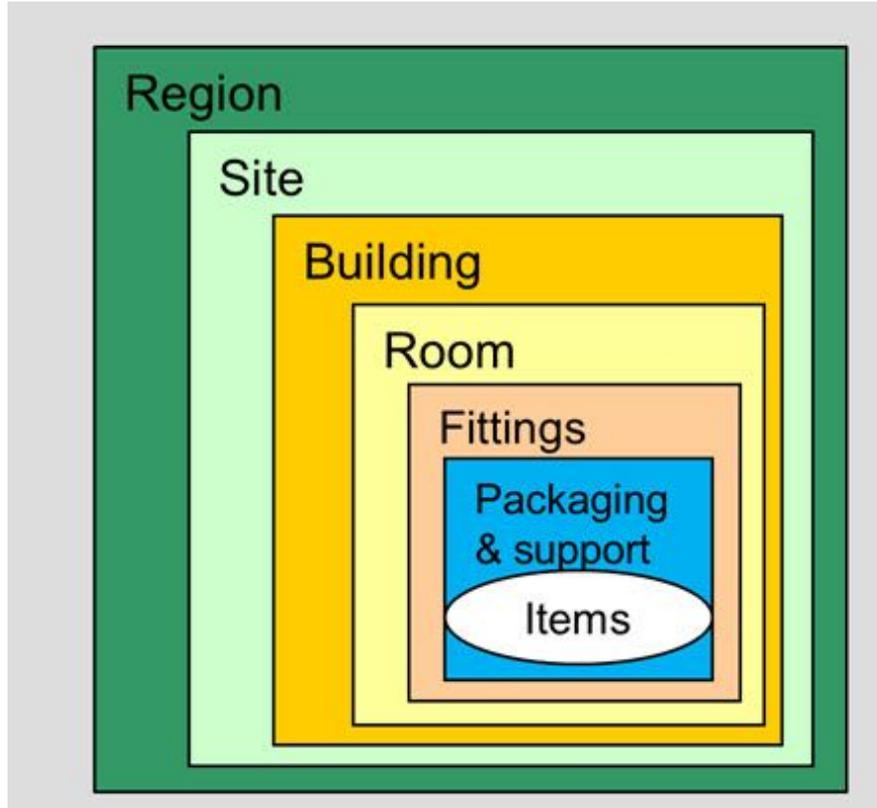
BASICS OF
ENVIRONMENTAL MONITORING
(and a partial review from part a)

COLLECTIONS ENVIRONMENT: A review



1. Regional Climate
2. Local Climate
3. Building Envelope
4. Object Enclosures

COLLECTIONS ENVIRONMENT: A review



Canadian Conservation Institute

1. Regional Climate
2. Local Climate
3. **Building Envelope**
4. Object Enclosures

“...includes the walls, windows, roof, and foundation, forms the primary thermal barrier between the interior and exterior environments. With envelope technologies accounting for approximately 30% of the primary energy consumed in residential and commercial buildings, it plays a key role in determining levels of comfort, natural lighting, ventilation, and how much energy is required to heat and cool a building.”

[-United States Department of Energy](#)

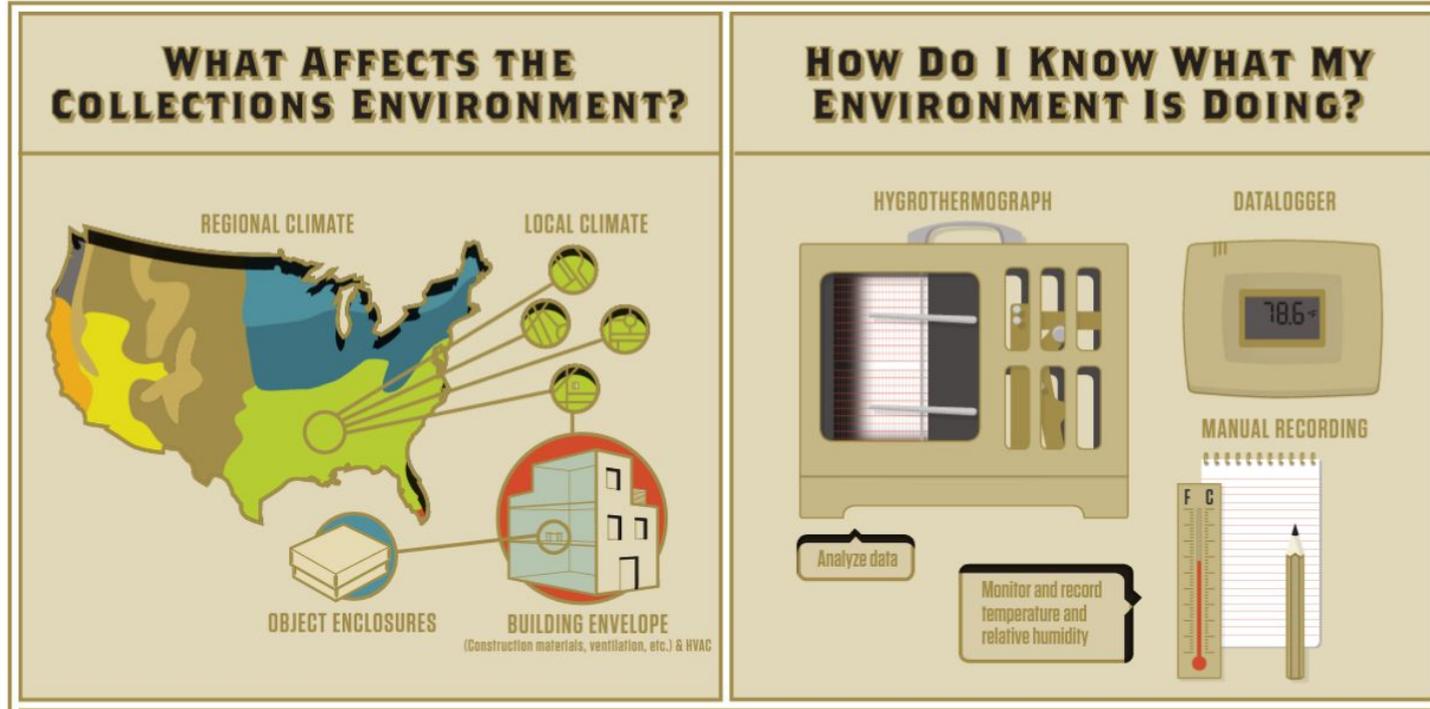
COLLECTIONS ENVIRONMENT: A review



1. Regional Climate
2. Local Climate
3. Building Envelope
4. Object Enclosures

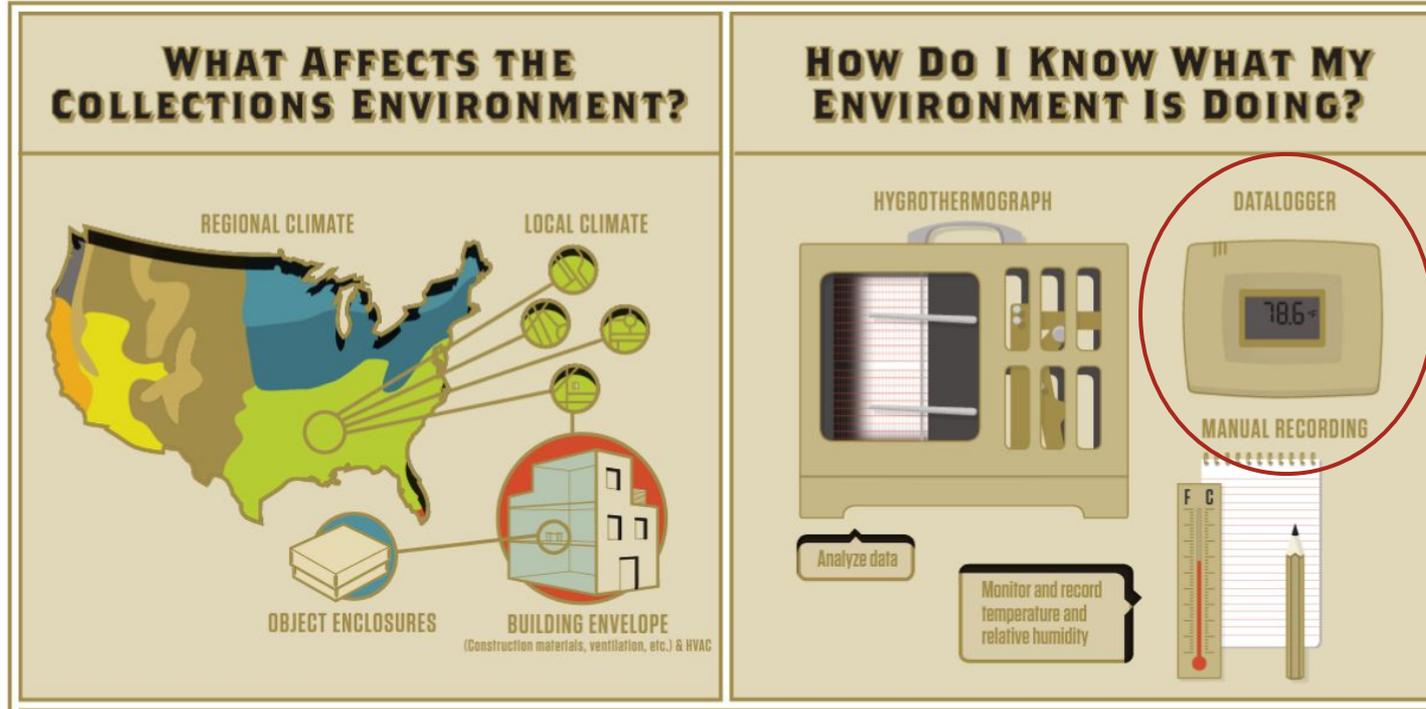
PV Heating and Air

COLLECTIONS ENVIRONMENT: A review



Infographic courtesy of Conservation Center for Art and Historic Artifacts

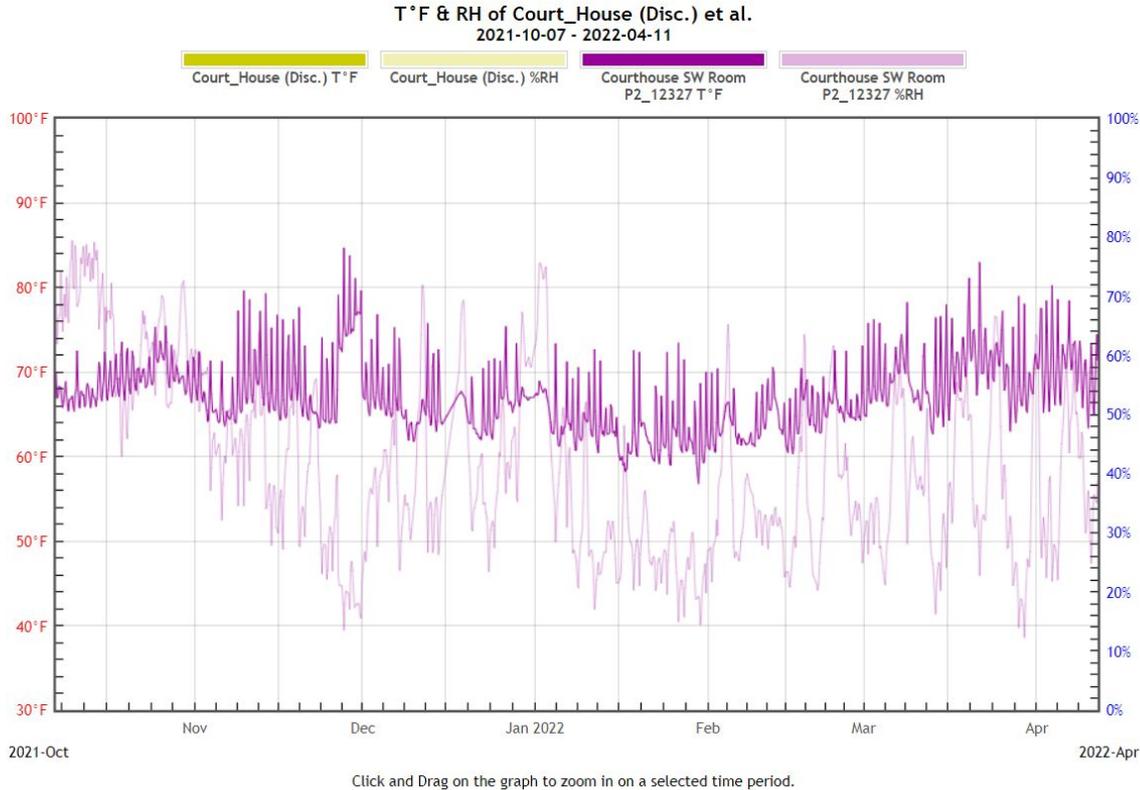
COLLECTIONS ENVIRONMENT: A review



The best tool we currently have

Infographic courtesy of Conservation Center for Art and Historic Artifacts

MONITORING COLLECTIONS ENVIRONMENT



Onset “hobo” data logger is one example of what’s out there, and it is commonly used by Museum collections staff



On the left is an example of what several months of environmental data could look like, plotted with eClimate Notebook Software

BASIC PARAMETERS

For several decades, museums have used the environmental parameters of 70°F and 50% relative humidity to guide preservation. **We now acknowledge, though, that no single temperature and relative humidity point works for all collections.**

2 GUIDELINES FOR TEMPERATURE AND RH

Over the past decade, climate change, soaring energy costs, and a conscious movement towards more sustainable, green approaches to energy consumption have dramatically changed the way that libraries, museums, and archives manage their environment. During the latter half of the twentieth century, air conditioning technology improved dramatically and targets for an "ideal" temperature and relative humidity evolved as a way of assuring an appropriate environment for collections in storage, exhibition, or on loan. The "50/70" rule --shorthand for conditions of 50% \pm 5% relative humidity and 70°F \pm 2° -- served for many years as the "ideal" setting for many materials in cultural heritage collections and was written into many building specifications, HVAC programs, and loan agreements.

From the Northeast Document Conservation Center, the **"50/70" rule**

BASIC PARAMETERS

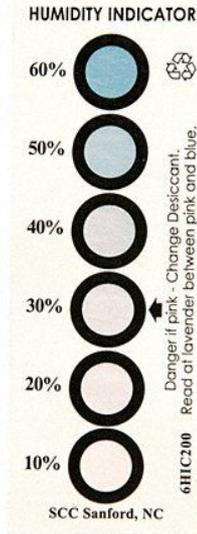
“An optimal preservation environment is one that achieves the best possible preservation of collections with the least possible consumption of energy, and is sustainable over time.” -Image Permanence Institute

“The current understanding about environment standards is that there is no such thing as a ‘one size fits all’ standard that is possible and that each institution must figure out what is best for each storage location based on a holistic approach that includes the most significant vulnerabilities of the stored materials, the capabilities of the HVAC system, the external environment, and the limitations imposed by the building construction.” - Image Permanence Institute

WAYS TO MEASURE RELATIVE HUMIDITY & TEMPERATURE



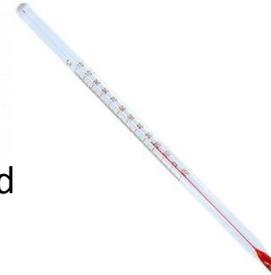
Hygrothermograph (old school)



Humidity Indicator Card



Analog hygrometer



Glass Thermometer



Digital hygrometer/data logger



What we recommend



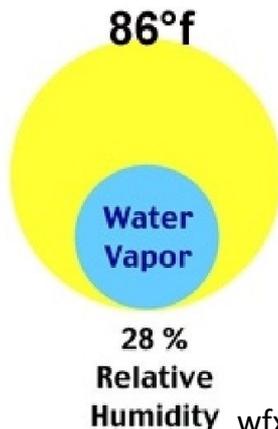
Review of Terms:

Incorrect Relative Humidity



BASIC PARAMETERS: Incorrect Relative Humidity

Relative Humidity- the amount of water vapor present in air expressed as a percentage of the amount needed for saturation at the same temperature.



wfxl.com

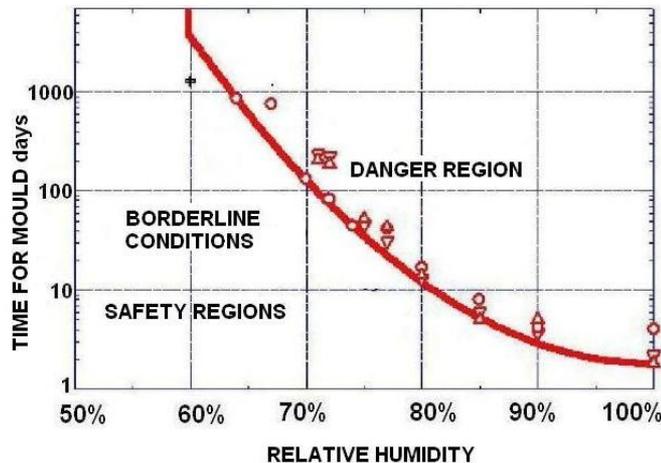
Deterioration by Incorrect Relative Humidity, and the Collections Most Vulnerable

Damp (over 75% RH)

Damp has been understood since ancient times. It remains a constant battle, especially in the historic buildings that so often house museums. Damp causes several types of deterioration – mould, rapid corrosion, and extreme forms of mechanical damage.

Although the practical boundary for damp is given as 75% RH, the deterioration rates all climb rapidly with increasing RH, so any reduction below 100% RH is beneficial.

Damp causes mould, which disintegrates or discolours skin, leather (Figure 1), textiles, paper, basketry, and occasionally wood, paint, and glass. Table 1 summarizes the different sensitivities to mould.



Review of Terms:

Incorrect Relative Humidity
Critical Value



BASIC PARAMETERS:

Incorrect Relative Humidity

From the [Canadian Conservation Institute](#):

From a practical risk assessment perspective, the many forms of incorrect RH can be subdivided into **four types**:

- **Damp**, over 75% RH.
- RH above or below a **critical value** for that object.*
- RH above 0%.
- RH **fluctuations**.

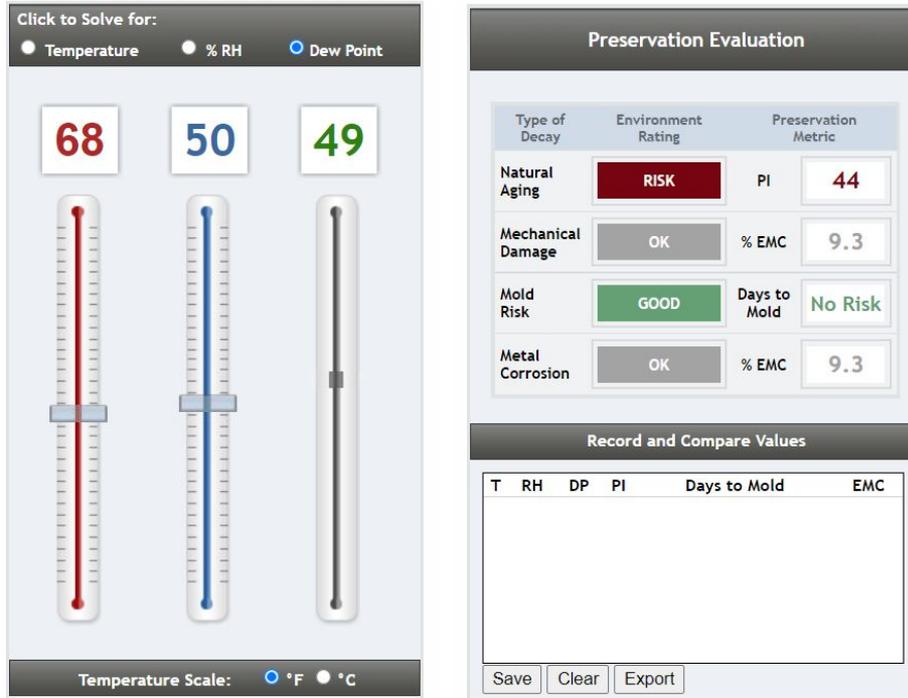
***Critical Value**- RH point when a material undergoes dramatic physical changes through moisture, examples: “sweating” glass and “weeping” iron

Review of Terms:

Incorrect Relative Humidity
Critical Value
Dew Point



TEMPERATURE AND RH ARE LINKED



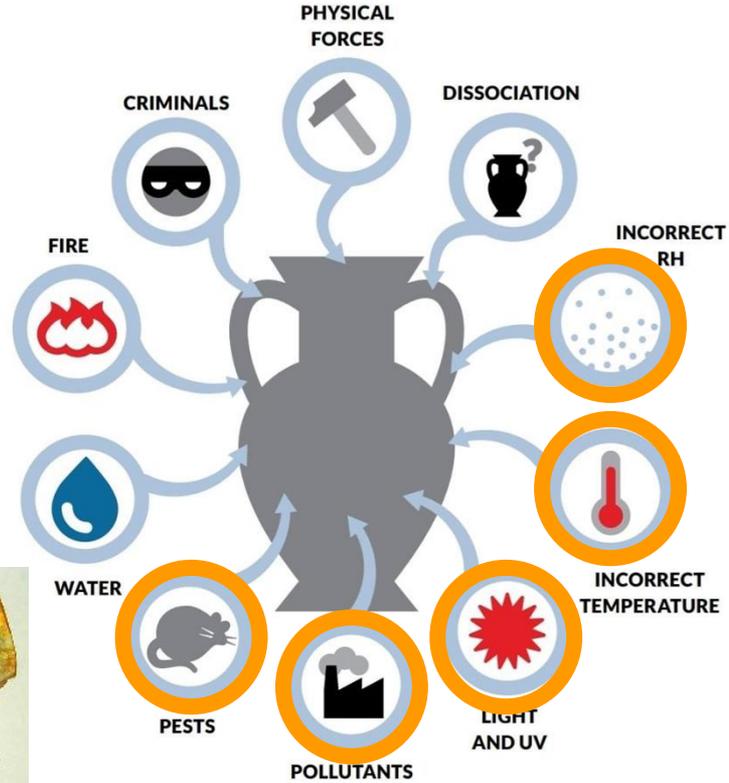
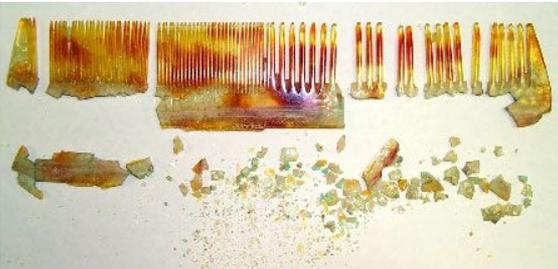
The dew point temperature determines what combinations of temperature and RH will be possible in the storage environment. At a constant dew point, when the temperature goes up, the RH goes down and when the temperature goes down, the RH goes up. Controlling the dew point is key to managing the risk of material decay. What's your dew point? If you know the T & RH in your space you can use the DP Calculator to get the DP. If your building does not have humidification or dehumidification, the indoor dew point is the same as the outdoor dew point.

Dew Point is an absolute measure of how much water vapor is in the air, the point at which the air is fully saturated with water.

It is the result of specific combinations of RH and temperature working together in an environment

[Dew Point Calculator by Image Permanence Institute](#)

IMPACTS ON COLLECTIONS: Deterioration



Centroid PM

Review of Terms:

Integrated Pest Management Blunder Traps



How do we measure pest activity?



How do we measure light?



HOW DO WE MEASURE Light?

The exposure of an artifact to light is a product of illumination level and time:

$$\text{Light level (lux)} \times \text{Time (hours)} = \text{Exposure (lux hours)}$$

Visible light is measured in **lux** or footcandles. One footcandle (fc) is equivalent to approximately 11 lux.

Ultraviolet is measured in **microwatts per lumen** ($\mu\text{W}/\text{lm}$), which describes the fraction of ultraviolet radiation in visible light. Because it is a ratio, the total UV will increase as the light levels increase, even as the ratio remains constant.



HOW DO WE MEASURE Light?

Another way to measure light over time

The Blue Wool Standard is used in a variety of disciplines to measure light exposure over time. This simple card can be placed next to a collection object, and it will indicate how much light exposure an object has received in a certain environment.

Blue wool zone	Photo unexposed left, exposed right	DE* 4	ASTM Lightfastness equivalent
8		.93	1 (DE* 0-4) Excellent (low to middle of range change)
7		3.40	1 (DE* 0-4) Excellent (far end of range approaching a LF 2 rating) (DE* 4-8)
6		8.72	3 (DE* 8-16) Fair
5		18.82	4 (DE* 16-24) Poor
4		18.64	4 (DE* 16-24) Poor
3		50.32	5 (DE* 24 and up) Very Poor
2		51.12	5 (DE* 24 and up) Very Poor
1		70.63	5 (DE* 24 and up) Very Poor

Why do we need to do environmental monitoring in our collections spaces?



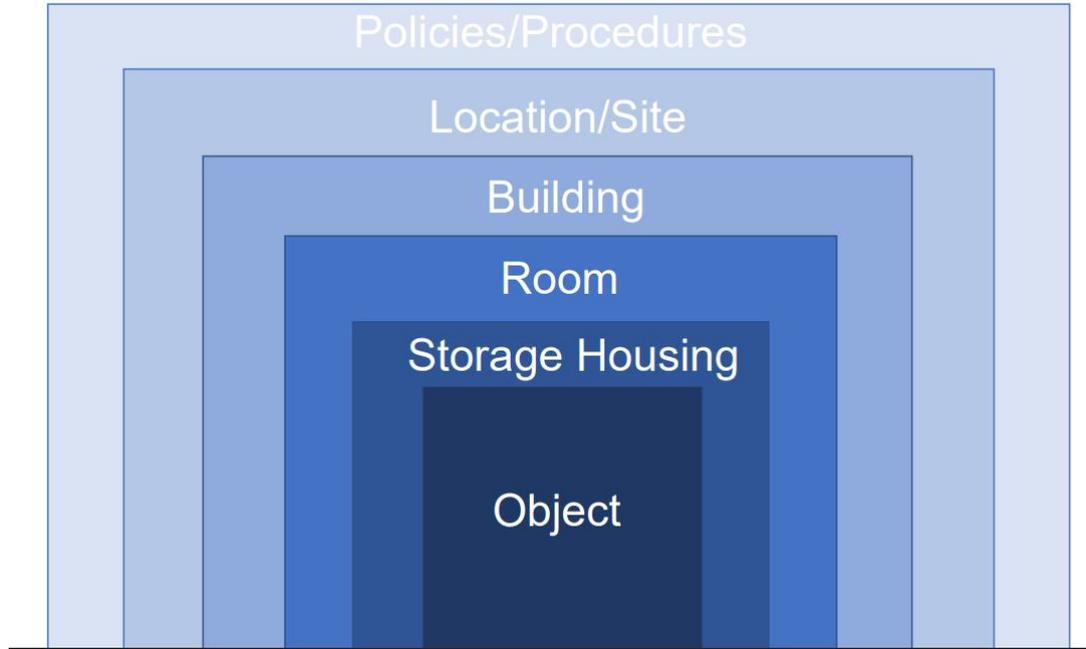
ENVIRONMENTAL MONITORING IS THE FIRST STEP



Identifying the problem, or determining there is no problem at all!

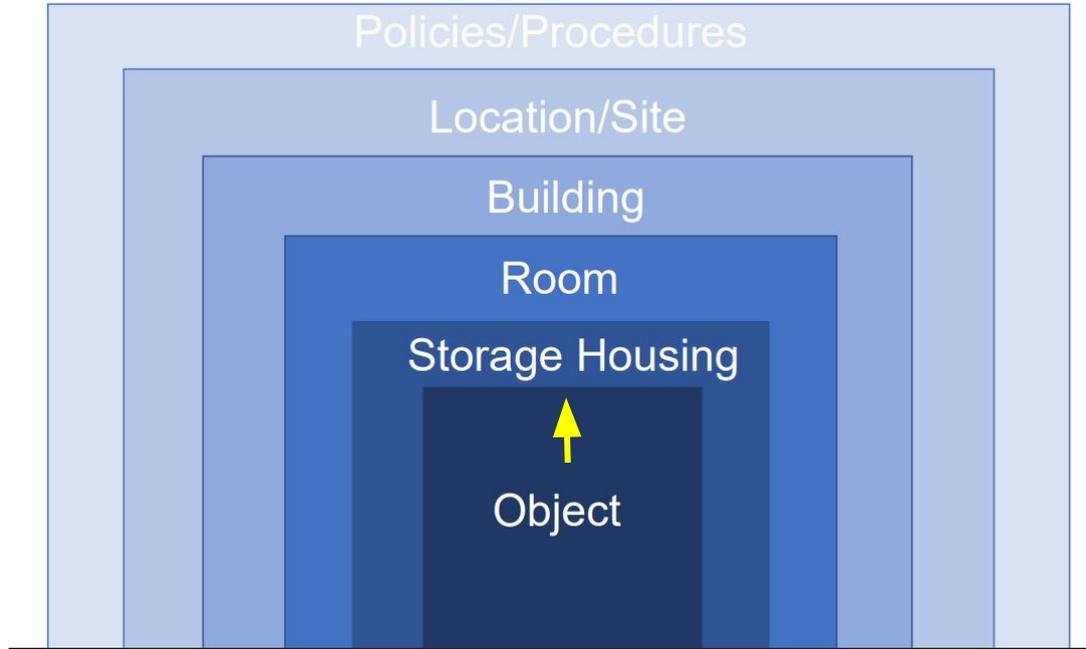
(Medium)

ENVIRONMENTAL MONITORING IS THE FIRST STEP



Levels of Control (from Image Permanence Institute)

ENVIRONMENTAL MONITORING IS THE FIRST STEP



Levels of Control (from Image Permanence Institute)

TOOLS FOR QUICK DATA COLLECTION

TOOLS FOR COLLECTING ENVIRONMENTAL DATA



We use loggers to collect and store data over time so we can analyze trends and understand our space

TOOLS FOR COLLECTING ENVIRONMENTAL DATA



Analog Hygrometer



Testo 540 Light Meter, 0-100,000 LUX



Elsec 765
Environmental Monitor

We use loggers to collect and store data over time so we can analyze trends and understand our space

BREAK (10 Minutes)

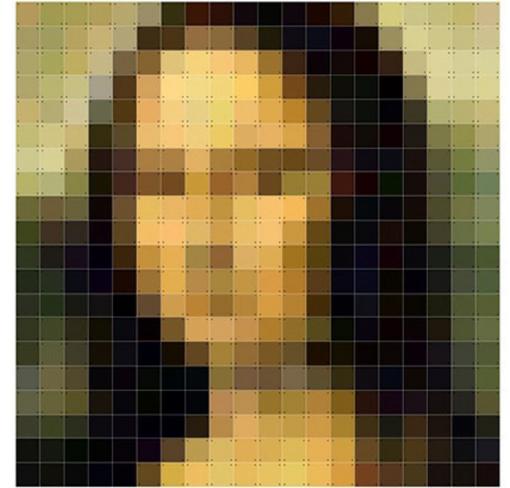


INTRODUCTION

ENVIRONMENTAL DATA ANALYSIS

YOU'VE COLLECTED THE DATA: NOW WHAT

- We're going to cover the basics of how to organize and get a handle on the environmental data you've collected
- Over the course of a year of datalogging, you can easily collect thousands of data points
- Alone, each data point may not tell you much, but together they show a picture of the environment your collection is experiencing



Think about data points as pixels, and overall picture as the resolution

LET'S START WITH LIGHT DATA

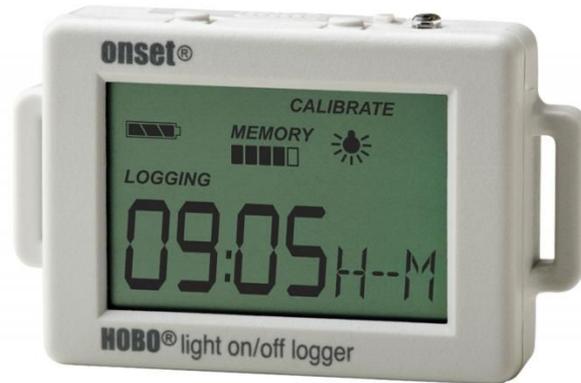
Unlike environmental data, we usually collect light data in single measurements, not logging many points over many days and weeks.

The exposure of an artifact to light is a product of illumination level and time:
Light level (lux) x Time (hours) = Exposure (lux hours)



LET'S START WITH LIGHT DATA

There are options for continuous light data collection, but usually one round of routine testing, and later on testing can provide sufficient information for decision making.



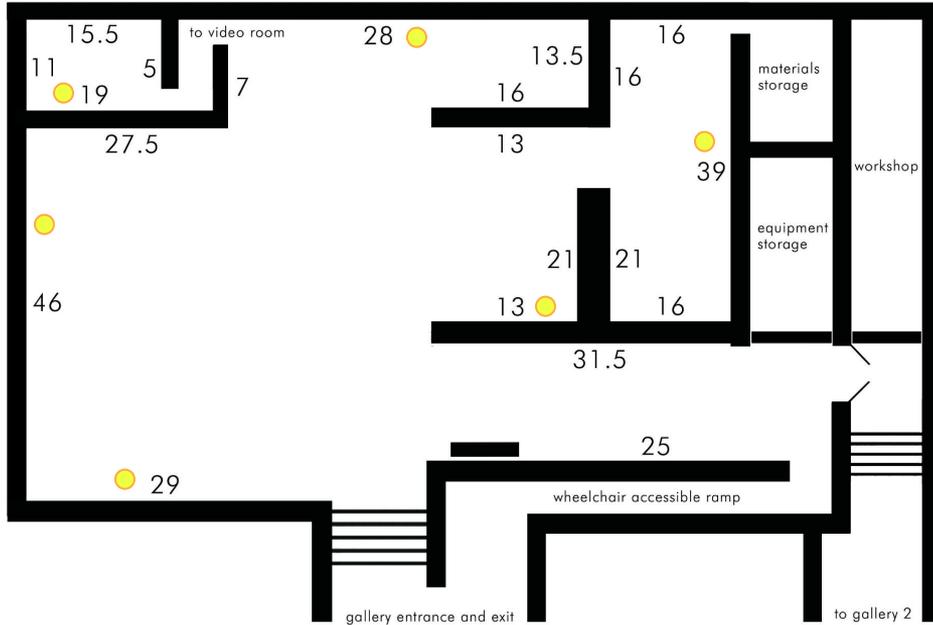
Onset UX90-001 HOBO State Data Logger

Blue wool zone	Photo unexposed left, exposed right	DE* 4	ASTM Lightfastness equivalent
8		.93	1 (DE [®] 0-4) Excellent (low to middle of range change)
7		3.40	1 (DE [®] 0-4) Excellent (far end of range approaching a L.F. 2 rating) (DE [®] 4-8)
6		8.72	3 (DE [®] 8-16) Fair
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3		50.32	5 (DE [®] 24 and up) Very Poor
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1		70.63	5 (DE [®] 24 and up) Very Poor

GENERIC FLOOR PLAN: EXAMPLE FOR LIGHT MONITORING

GALLERY 1

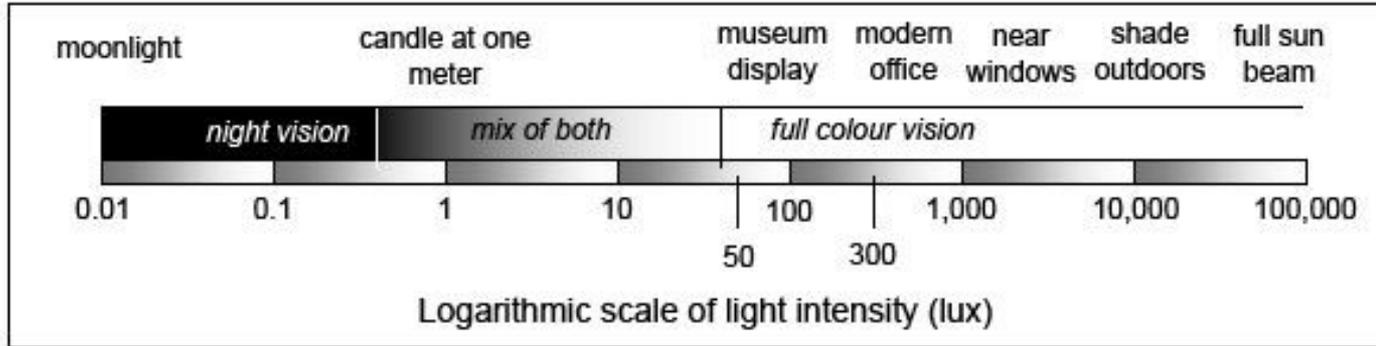
all linear wall dimensions are rounded to the nearest half foot and reflect usable wall space
wall height: 144 inches / ceiling height: 164 inches



Conducting a Light Study

- Mark a floor plan of a space, marking locations where readings will be repeated
- Measure light levels at different times of day, during different seasons
- Document each reading and conditions of readings in an excel spreadsheet

GENERIC FLOOR PLAN: EXAMPLE FOR LIGHT MONITORING



Canadian Conservation Institute- a great reference for decision-making in terms of light levels

Conservation Plan “Lighting” section should include:

- A range of light levels to be maintained, with specifications for particularly light sensitive objects
- Equipment in place to ensure light levels: window shades, UV films and filters, LED lights at the correct levels, light schedule (on/off times) and calculated impact
- Schedule for regular checking of light levels, measurements

WHAT ABOUT ALL THAT RH AND TEMP DATA?

Things to consider:

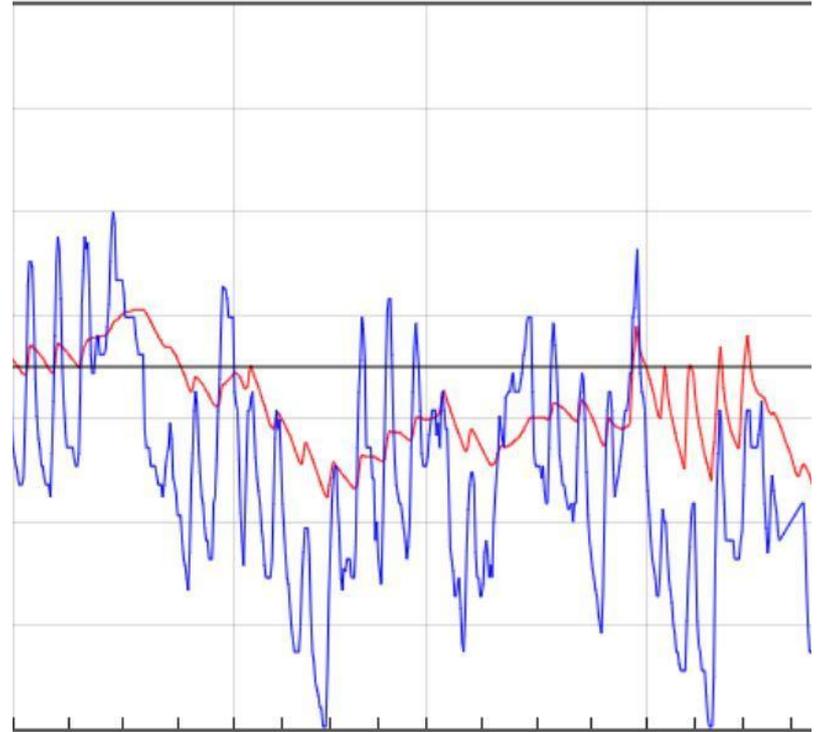
- What is your question?
- What did you measure?
- What is your data telling you?



Why is this the result?



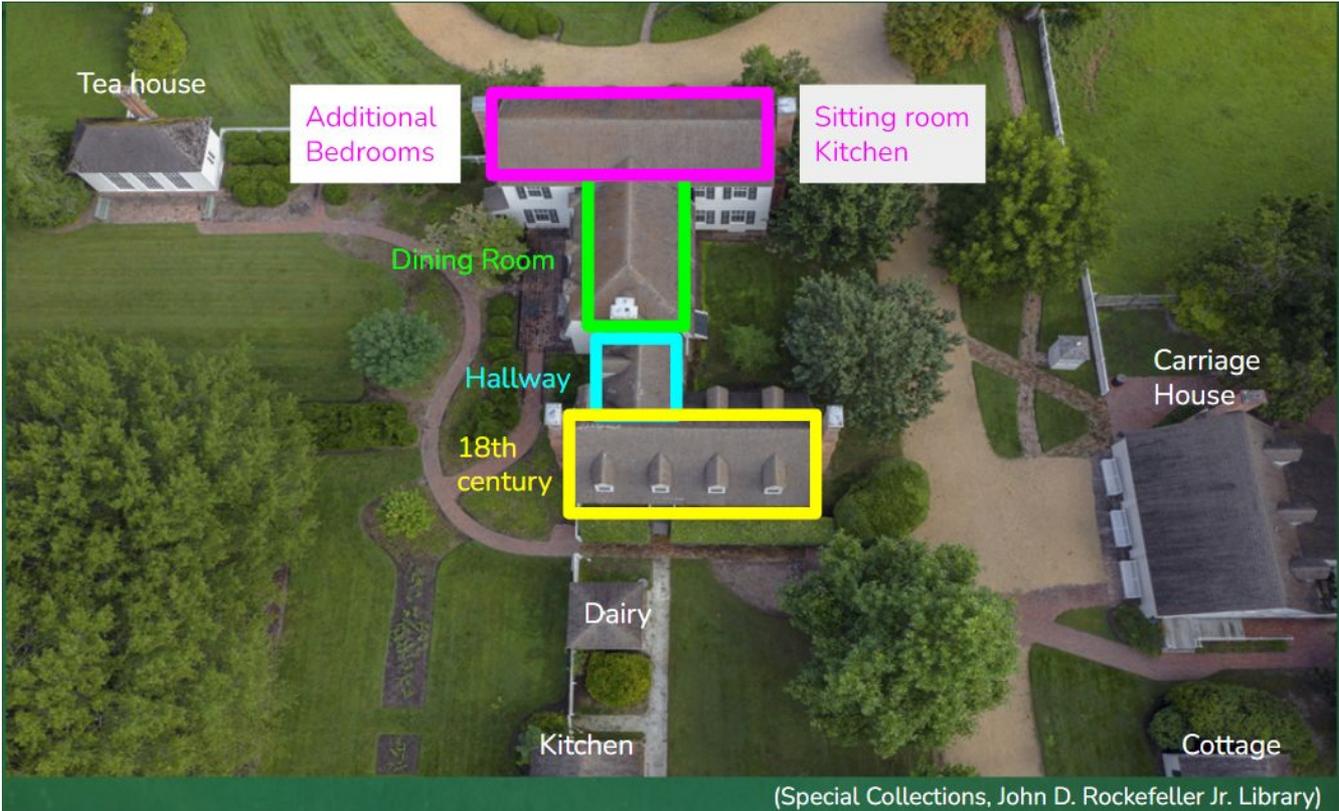
Solutions



EXAMPLE OF AN ENVIRONMENTAL STUDY



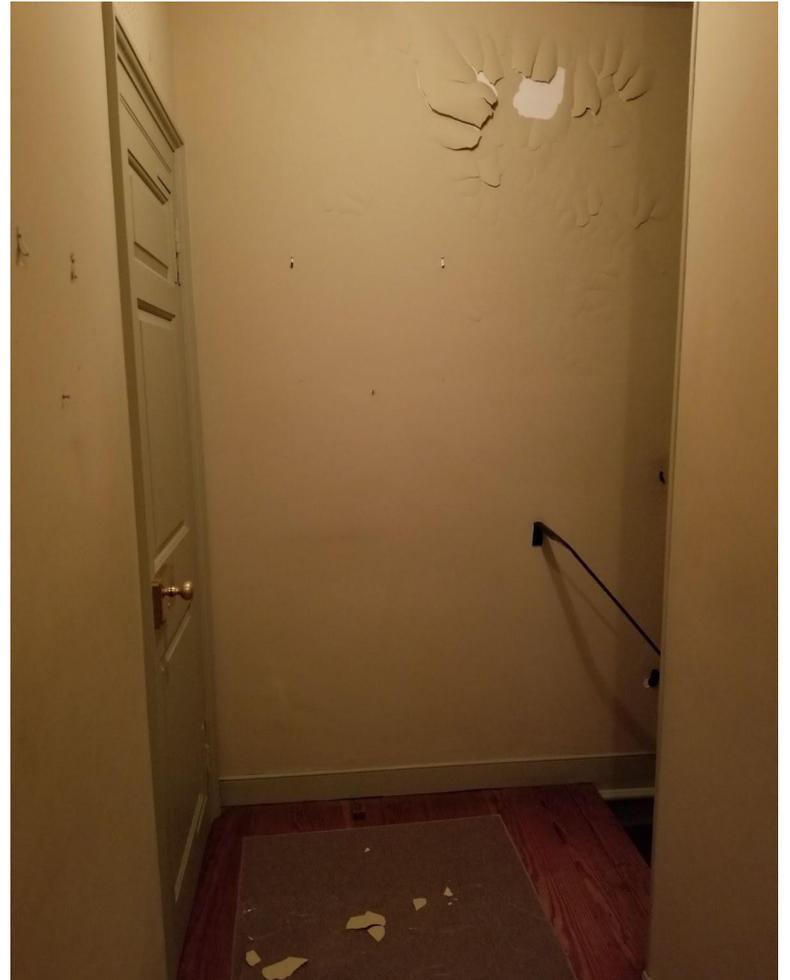
EXAMPLE OF AN ENVIRONMENTAL STUDY



SYMPTOMS OF A PROBLEM



Bubbling (above) and delaminating (right) paint point toward moisture issues and microclimates within the house's environment



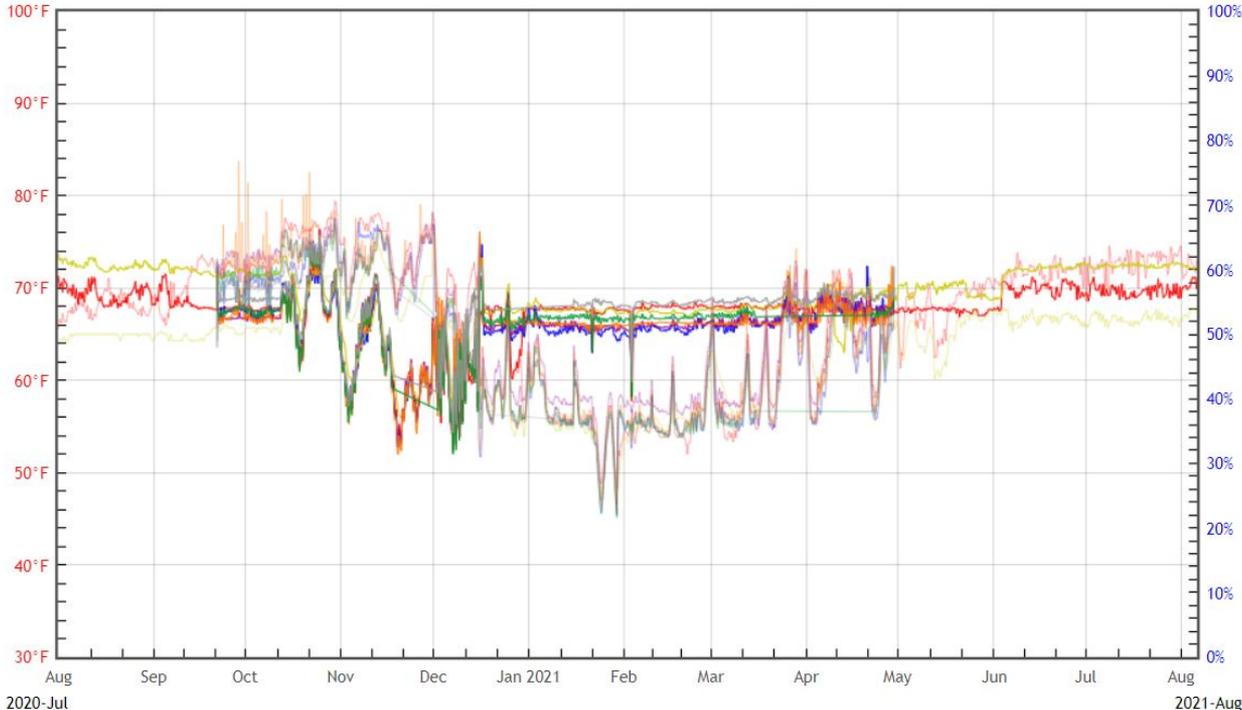
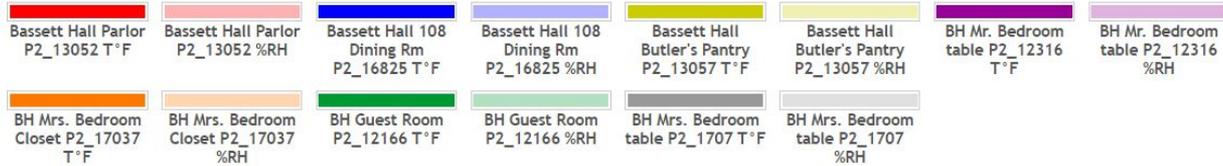
SYMPTOMS OF A PROBLEM



Repeated single readings of some areas expanded the data collection beyond the set loggers; fans circulated air during system shut downs; rehousing and desiccants helped prevent mold in close microclimates

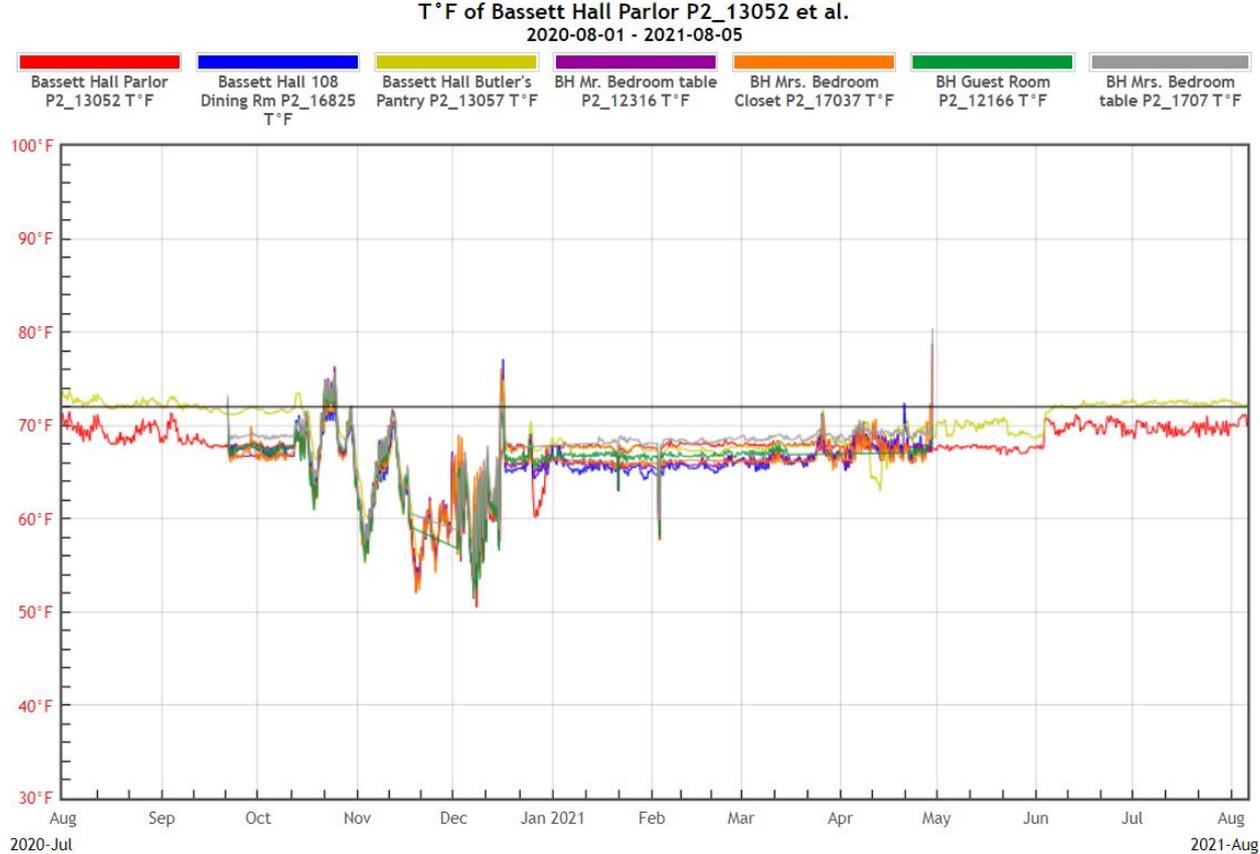
PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE

T°F & RH of Bassett Hall Parlor P2_13052 et al.
2020-08-01 - 2021-08-05



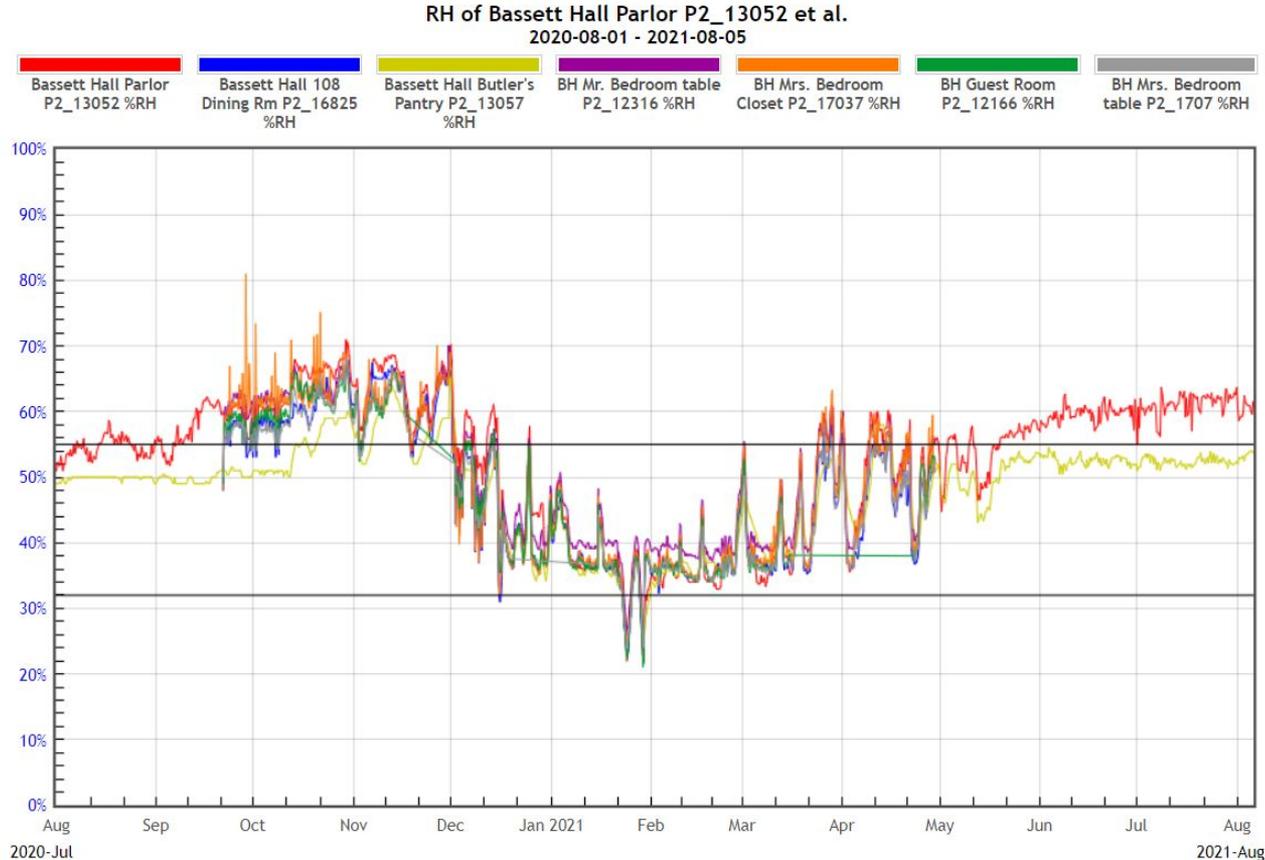
Data for different rooms of one house over a 1 year period

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



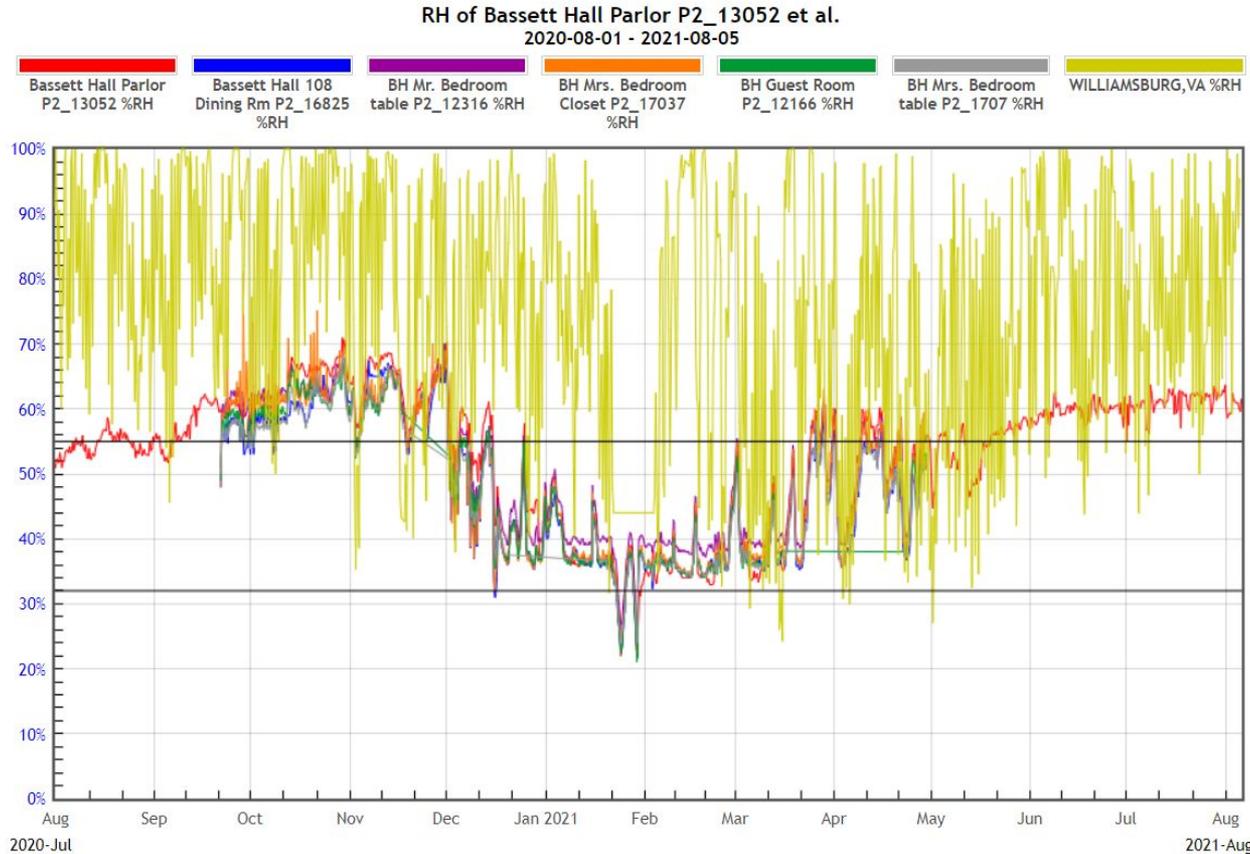
Temperature data for different rooms of one house over a 1 year period

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



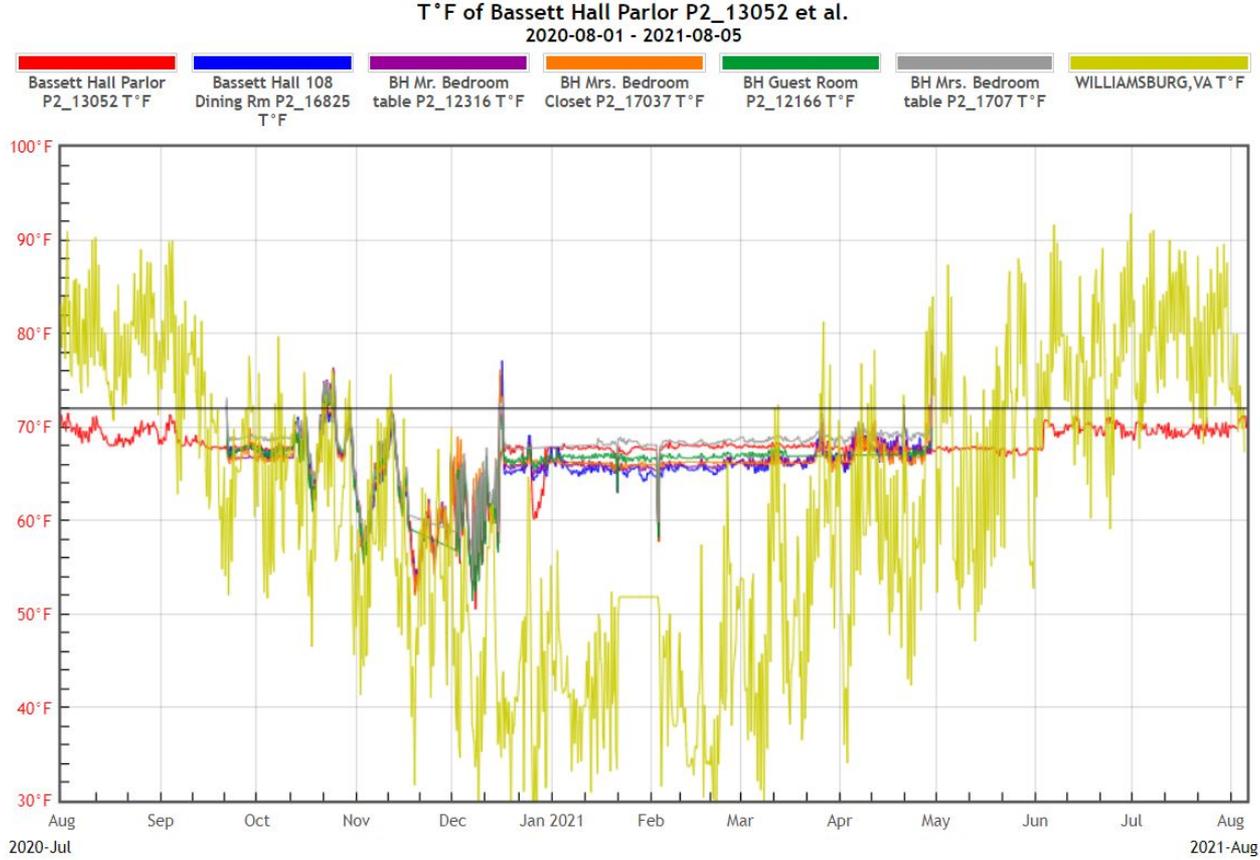
RH data for different rooms of one house over a 1 year period

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



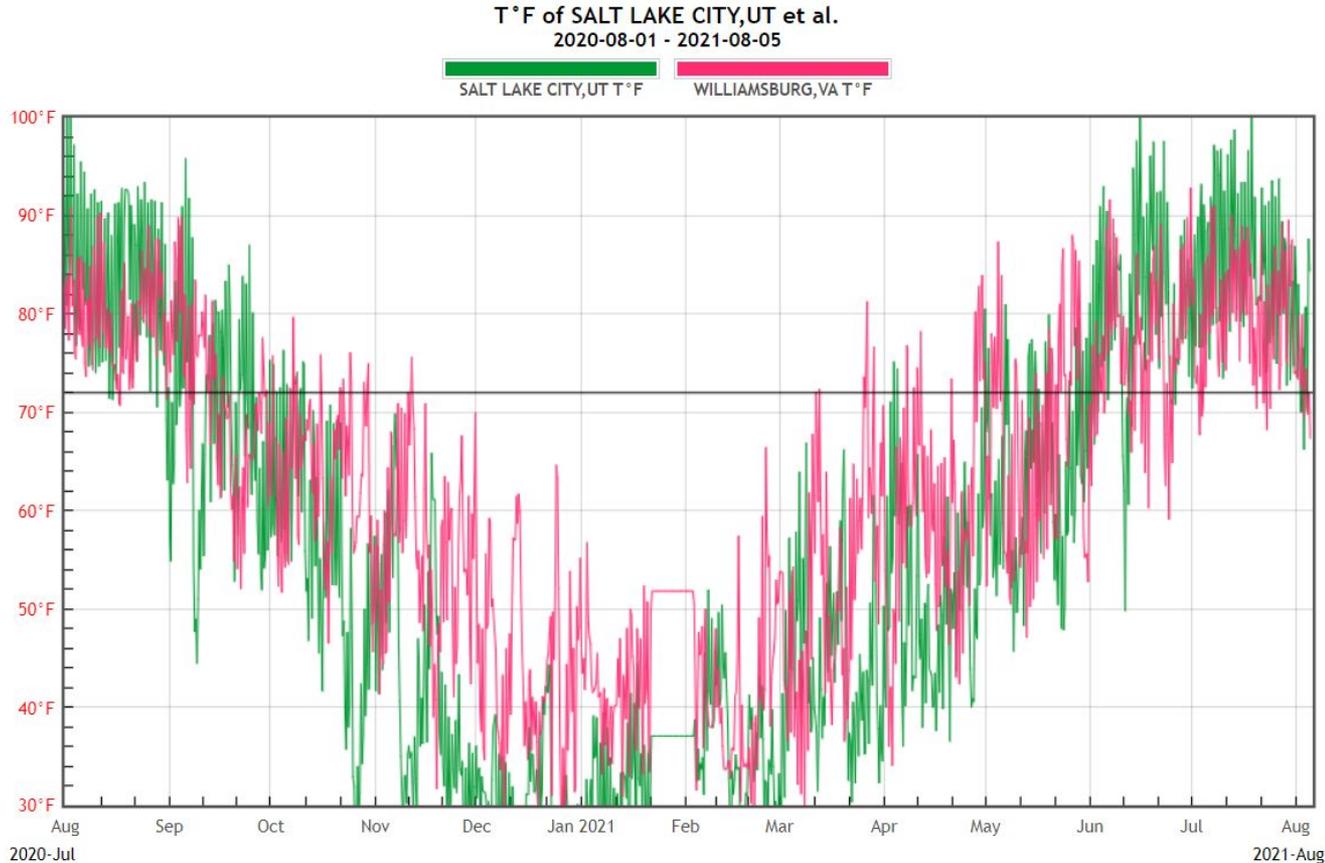
RH data for different rooms of one house over a 1 year period vs. outdoor RH

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



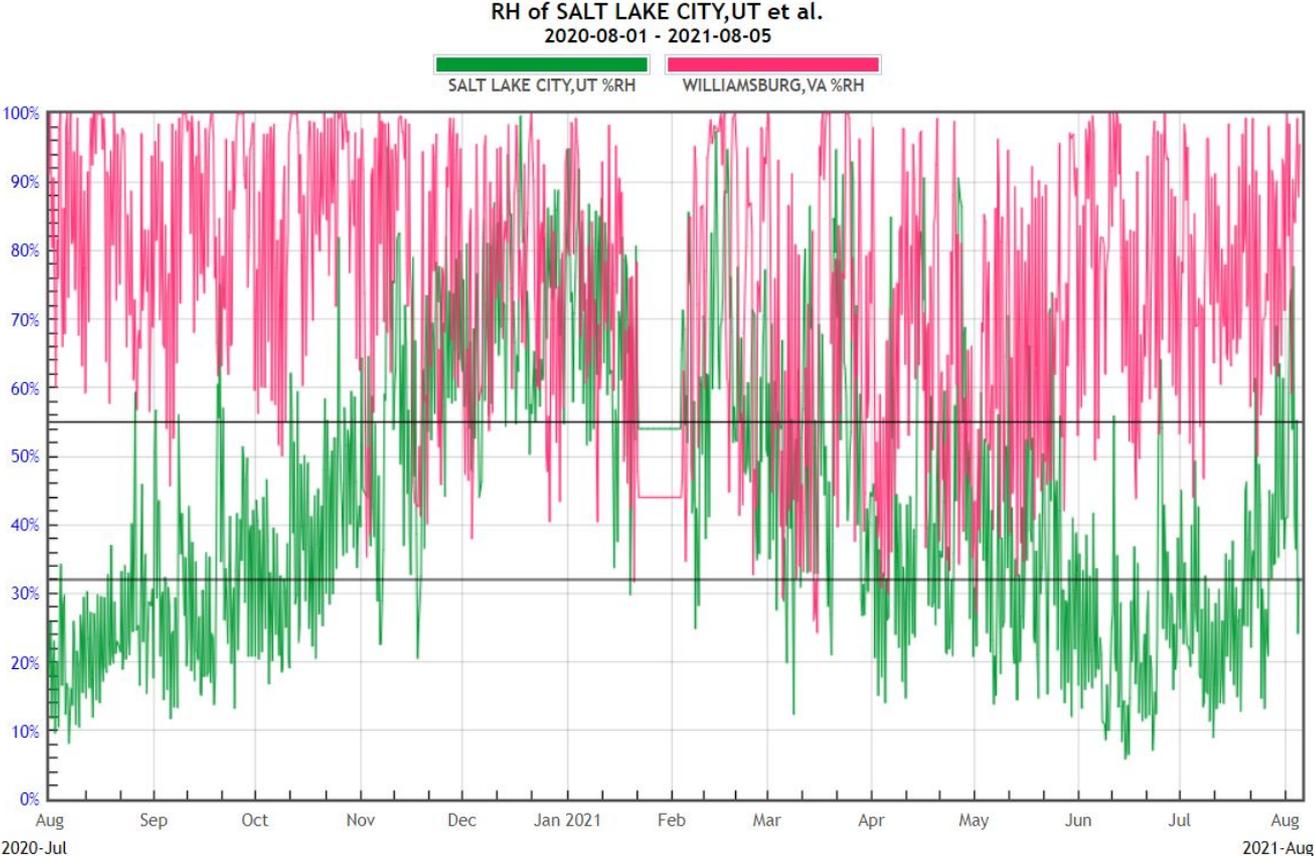
T data for different rooms of one house over a 1 year period vs. outdoor T

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



Outdoor T data
of Williamsburg,
VA vs. Salt Lake
City
Note- shoulder
seasons

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



Outdoor RH
data of
Williamsburg,
VA vs. Salt
Lake City

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE

P2_16858
Park City Museum

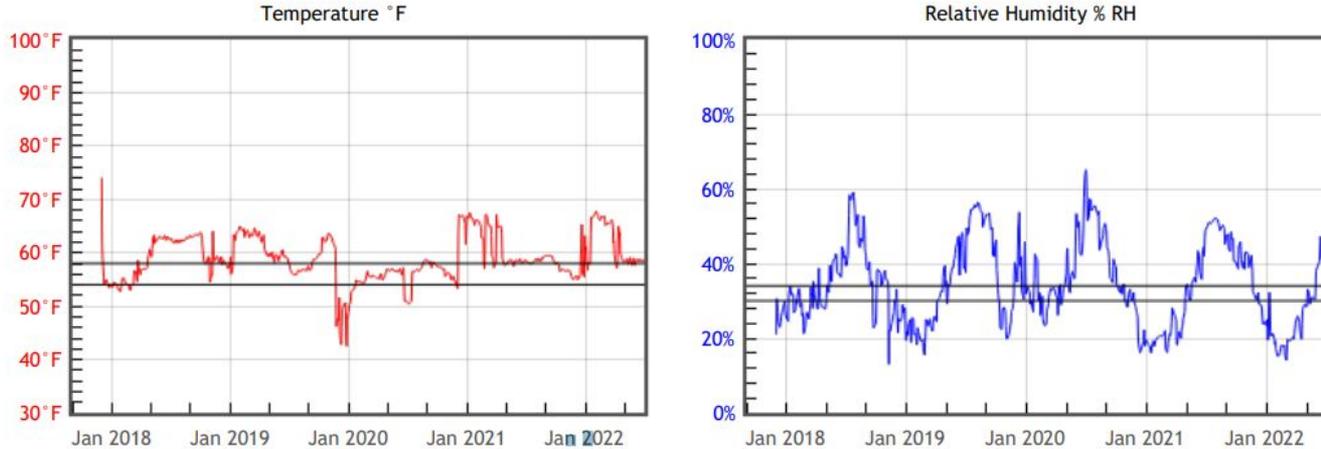
2017-11-30 to 2022-07-01
4 years, 7 months, 2 days

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	GOOD TWPI = 121	Slow rate of chemical decay in organic materials such as paper, leather, textiles, plastics and dyes
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.92 % EMC min = 3.8 % EMC max = 10.6	Heightened risk of physical damage to any hygroscopic material, such as paintings, rare books, furniture, paper, leather, film, or color photos, due to extremely low or high levels of humidity, and / or excessive humidity fluctuation.
Mold Risk Mold growth in area or on collection objects	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	RISK % EMC max = 10.6	Heightened risk of metal corrosion due to extended periods of high levels of humidity.

Our limits for the Museum storage site are 66-70 degrees and 25-35% RH (but again, no way to control humidity). Our limits for the ECC are currently 54-58 degrees and 30-34% RH.

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



Statistics

Temperature		Relative Humidity		Dew Point		T Limits		%RH Limits	
T °F Mean	58.9	%RH Mean	34	DP °F Mean	29.5	T °F < 54	7.7%	%RH < 30	38.2%
T °F Median	58.2	%RH Median	33	DP °F Median	28.2	T °F [54,58]	37.7%	%RH [30,34]	17%
T °F Stdev	4.3	%RH Stdev	11	DP °F Stdev	7.4	T °F > 58	54.7%	%RH > 34	44.8%
T °F Min	40.8	%RH Min	13	DP °F Min	10.4				
T °F Max	74.1	%RH Max	67	DP °F Max	50				

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE

P2_16858

Park City Museum

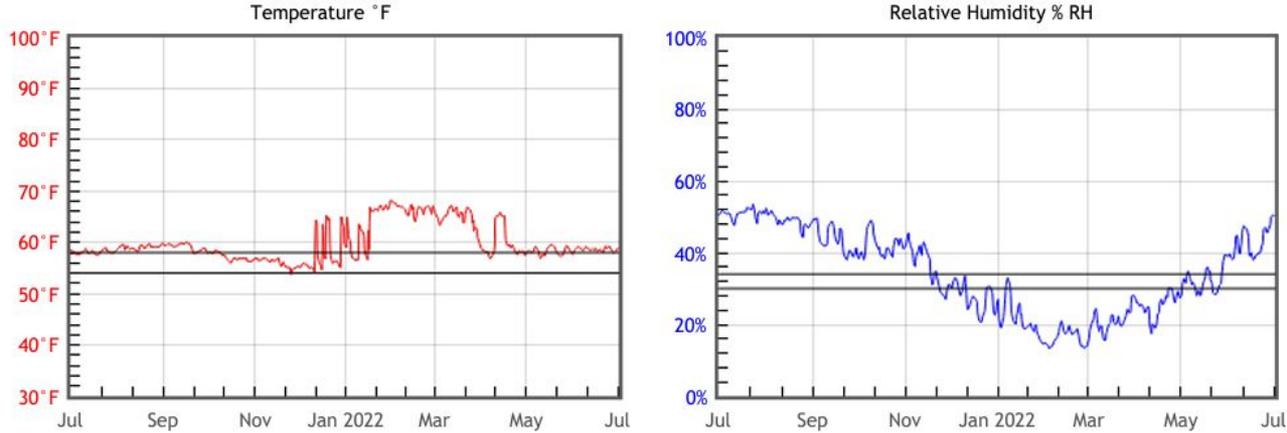
2021-07-01 to 2022-07-01

1 year, 1 day

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	GOOD TWPI = 115	Slow rate of chemical decay in organic materials such as paper, leather, textiles, plastics and dyes
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.62 % EMC min = 3.8 % EMC max = 9.5	Heightened risk of physical damage to any hygroscopic material, such as paintings, rare books, furniture, paper, leather, film, or color photos, due to extremely low or high levels of humidity, and / or excessive humidity fluctuation.
Mold Risk Mold growth in area or on collection objects	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	OK % EMC max = 9.5	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



Statistics

Temperature		Relative Humidity		Dew Point		T Limits		%RH Limits	
T °F Mean	59.8	%RH Mean	34	DP °F Mean	30	T °F < 54	0%	%RH < 30	39.8%
T °F Median	58.6	%RH Median	33	DP °F Median	29.4	T °F [54,58]	33.2%	%RH [30,34]	11.2%
T °F Stdev	3.6	%RH Stdev	12	DP °F Stdev	7.4	T °F > 58	66.8%	%RH > 34	48.9%
T °F Min	53.7	%RH Min	13	DP °F Min	12.7				
T °F Max	69.8	%RH Max	54	DP °F Max	42.4				

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE

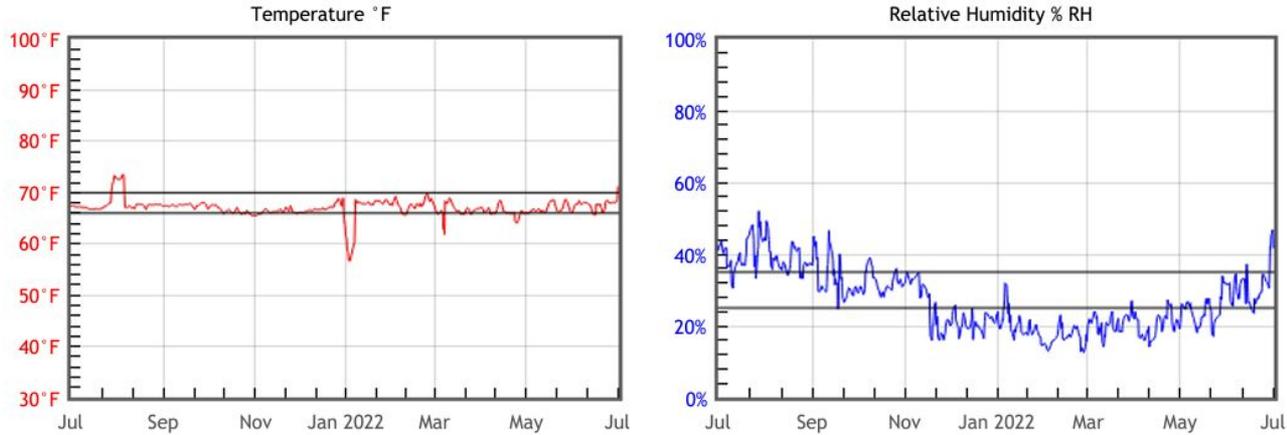
P2_16851
Park City Museum

2021-07-01 to 2022-07-01
1 year, 1 day

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	GOOD TWPI = 84	Slow rate of chemical decay in organic materials such as paper, leather, textiles, plastics and dyes
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.1 % EMC min = 3.9 % EMC max = 7.9	Heightened risk of physical damage to any hygroscopic material, such as paintings, rare books, furniture, paper, leather, film, or color photos, due to extremely low or high levels of humidity, and / or excessive humidity fluctuation.
Mold Risk Mold growth in area or on collection objects	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	OK % EMC max = 7.9	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

PLOTTED DATA IN THE E-CLIMATE NOTEBOOK SOFTWARE



Statistics

Temperature		Relative Humidity		Dew Point		T Limits		%RH Limits	
T °F Mean	66.9	%RH Mean	27	DP °F Mean	30.9	T °F < 66	23.4%	%RH < 25	46.9%
T °F Median	66.9	%RH Median	26	DP °F Median	30.1	T °F [66,70]	73.8%	%RH [25,35]	33.3%
T °F Stdev	1.8	%RH Stdev	9	DP °F Stdev	8.3	T °F > 70	2.8%	%RH > 35	19.9%
T °F Min	53.6	%RH Min	11	DP °F Min	10.9				
T °F Max	74.1	%RH Max	52	DP °F Max	54.2				

Lunch (1 Hour)



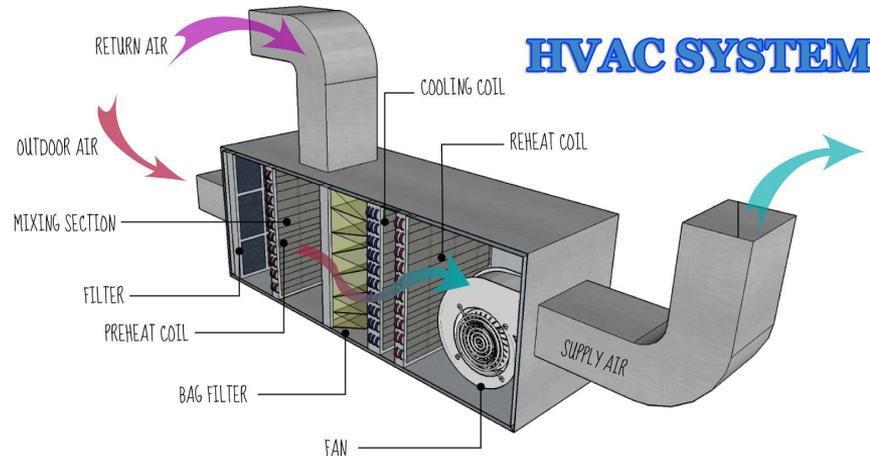
INTRODUCTION

HVAC SYSTEMS

ENVIRONMENT & BUILDING SYSTEMS

We are going to shift our focus to some nuts and bolts, one of the most important building systems that controls our collection environments.

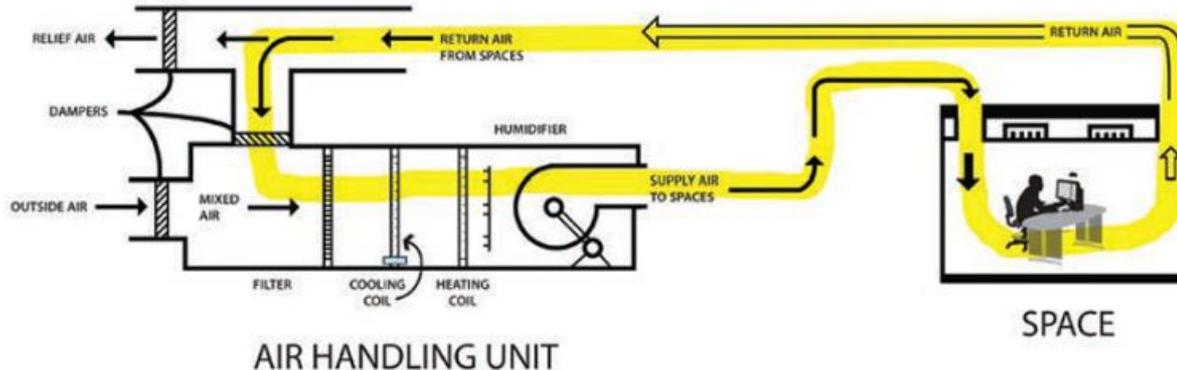
Heating, Ventilation, Air Conditioning (HVAC) is a system of air flow in multiple directions, and the many system parts that alter the condition of that air for a space.



ENVIRONMENT & BUILDING SYSTEMS

The Loop—Components of a Typical Air Handling Unit (AHU)

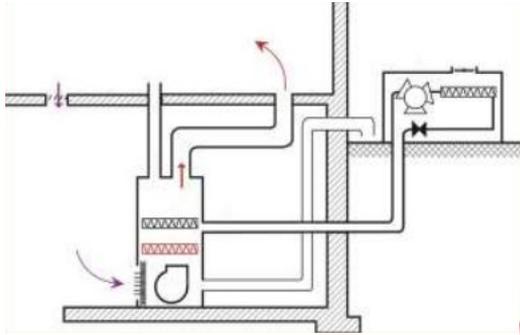
Climate control systems can best be understood if they are conceived of as a moving loop of air that enters the space, passes through it, leaves the space, returns to the place where the conditions of that air are appropriately altered (air handling unit) and returned again to the space (see diagram below). It is along this loop of moving air that temperature can be raised or lowered, humidity can be raised or lowered, filtration can occur, and outside air can be added or removed.



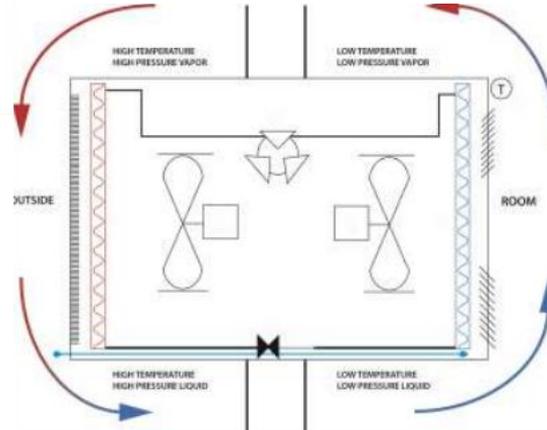
ENVIRONMENT & BUILDING SYSTEMS

HVAC may also be referred to as a “Mechanical System”

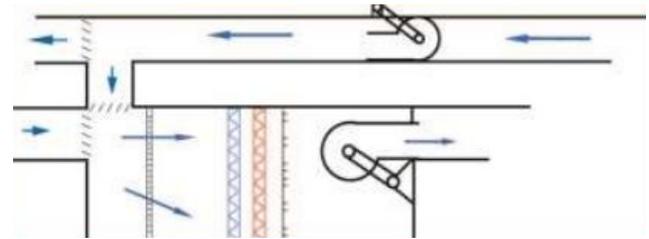
These are some of the key parts you will likely encounter



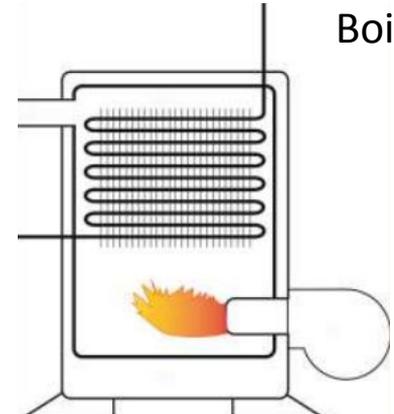
Forced Air System



Air Conditioner

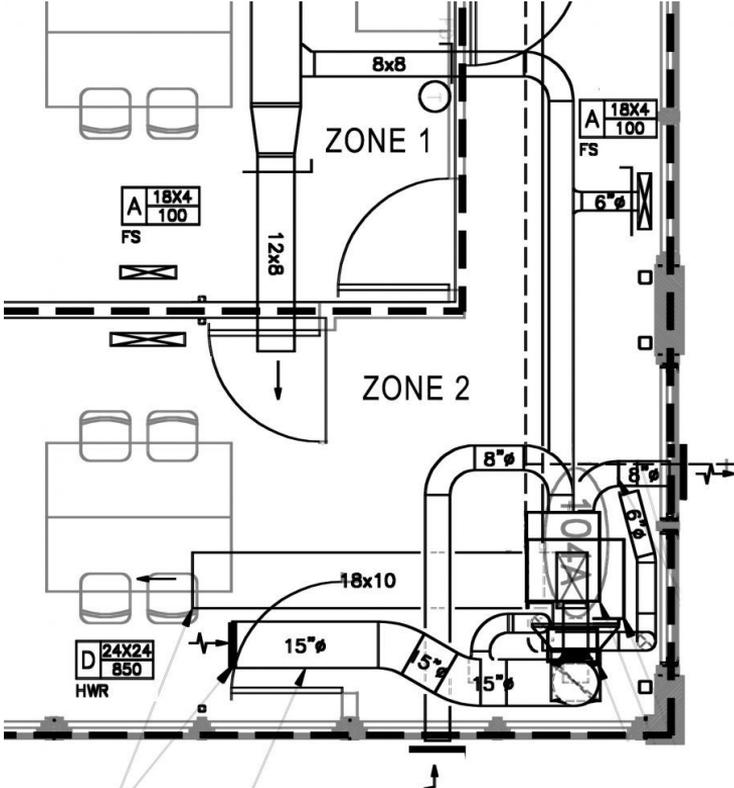


Air Handling Unit



Boiler

ENVIRONMENT & BUILDING SYSTEMS



Excerpt from architectural drawing plan

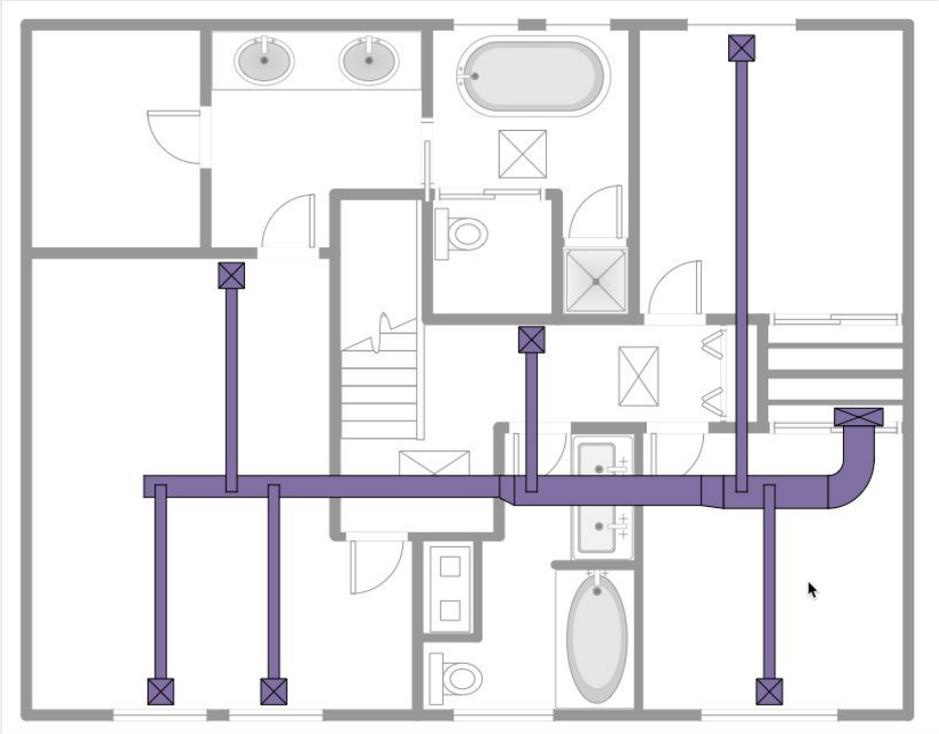
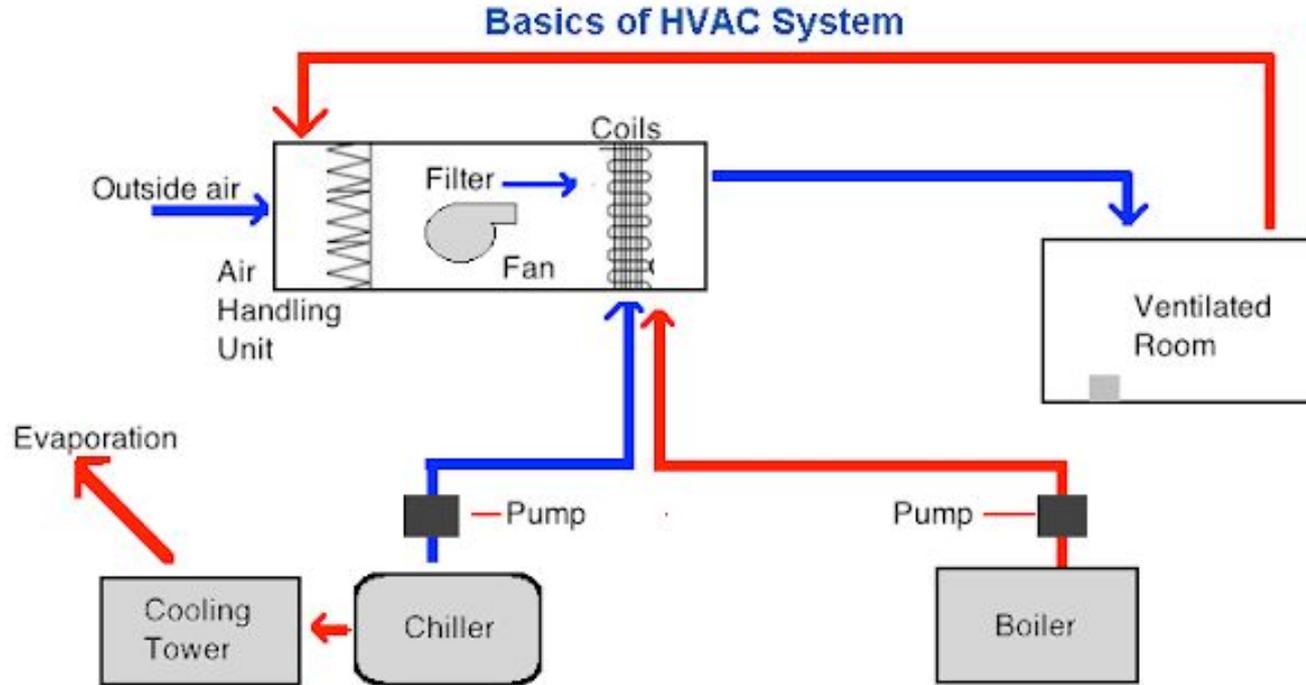


Diagram of hvac ductwork in a space

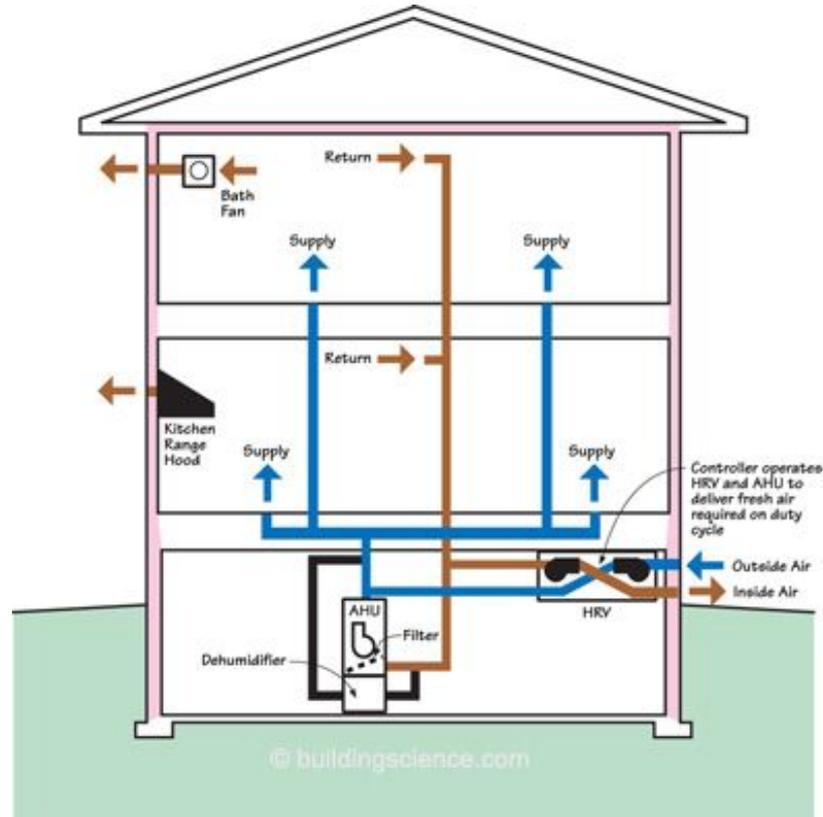
HVAC SYSTEM BASICS



These components illustrate a basic configuration of a basic AHU system with heating and cooling.

COLLECTIONS CARE AND CONSERVATION PLAN

Here is how a similar system might exist in a multi-story residential home. Note the “flows” inward and outward of air across the building envelope



ACTIVITY: BUILDING WALK THROUGH

This tour will highlight building systems and design decisions for the collections storage environment.



Break (10 minutes)



DISCUSSION:

- What did we see in terms of types of building systems (HVAC and beyond)?
- Which system components stood out to you? What did you recognize?
- Did you see your components of your own building's systems in this structure?
- What did you notice about building envelope?



ACTIVITY: Environmental Monitoring Planning and Mapping at your home institution (40 min)

DISCUSSION (30)



Environment and Building Systems
Workshop Part B Activity
Park City Museum, Education & Collections Center
August 4, 2022

Environmental Monitoring Planning at your home institution

Using what you know about your building's internal systems, and what you don't know, this is an opportunity to brainstorm and roadmap what you need to find out or investigate further to manage your collections' environments. Use your building's floor plan to work through this, or create a floor plan if you don't already have one.

1. What components of your HVAC system can you identify?

2. What questions do you have about your HVAC system? What do you want to learn more about?

3. Who is your in-house HVAC resource (if anyone)? Can you think of someone in your community who could answer any questions?

Wrap-Up

- Reflections from the day
- Evaluation

Thank you!

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<https://artsandmuseums.utah.gov/utah-collections-preservation/>

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Ideas in Action



Utah Division of
Arts & Museums