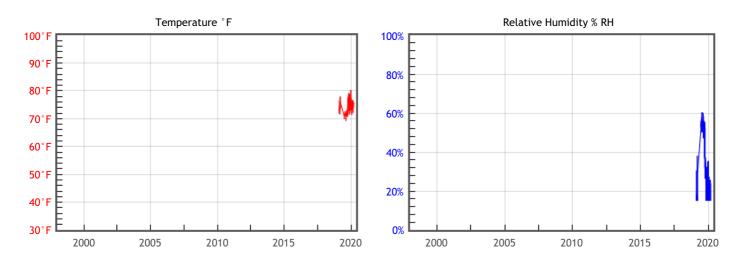
Maps Locked Room

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Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	RISK TWPI = 43	Accelerated rate of chemical decay in all organic materials due to the cumulative effects of temperature and humidity, with especially high risk for fast decaying organic materials such as acidic paper, color photographs and cellulosic plastics.
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.72 % EMC min = 3.9 % EMC max = 10	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 = 10	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



Statistics

Temperature		Relative Humidity		Dew Point	
T°F Mean	73.7	%RH Mean	32	DP°F Mean	39.1
T°F Median	73.5	%RH Median	27	DP°F Median	39.7
T°F Stdev	2.2	%RH Stdev	16	DP°F Stdev	12.7
T°F Min	68.9	%RH Min	15	DP°F Min	20.8
T°F Max	80.5	%RH Max	62	DP°F Max	58.9

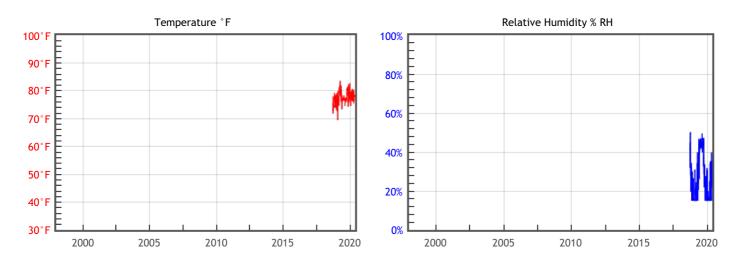
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Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	RISK TWPI = 41	Accelerated rate of chemical decay in all organic materials due to the cumulative effects of temperature and humidity, with especially high risk for fast decaying organic materials such as acidic paper, color photographs and cellulosic plastics.
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.37 % EMC min = 3.5 % EMC max = 8.4	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 = 8.4	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



Statistics

Temperature		Relative H	Relative Humidity		Dew Point	
T°F Mean	77.5	%RH Mean	26	DP°F Mean	37.2	
T°F Median	77.4	%RH Median	21	DP°F Median	34.8	
T°F Stdev	2	%RH Stdev	12	DP°F Stdev	11.4	
T°F Min	68.6	%RH Min	15	DP°F Min	19.1	
T°F Max	83.8	%RH Max	54	DP°F Max	58.8	

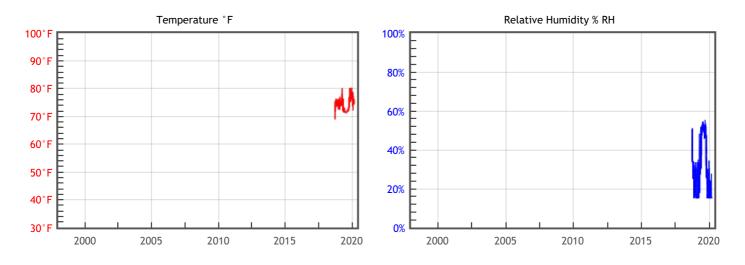
Maps Reading Room

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Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 45	Generally OK, but fast decaying organic materials such as acidic paper, color photographs and cellulosic plastics will be at elevated risk due to the cumulative effects of temperature and humidity
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.63 % EMC min = 3.7 % 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.

Graphs



Statistics

Temperature		Relative H	Relative Humidity		Dew Point	
T°F Mean	74.6	%RH Mean	30	DP°F Mean	38.7	
T°F Median	74.6	%RH Median	27	DP°F Median	39.6	
T°F Stdev	2.4	%RH Stdev	14	DP°F Stdev	11	
T°F Min	69	%RH Min	15	DP°F Min	20	
T°F Max	81.1	%RH Max	61	DP°F Max	58.2	