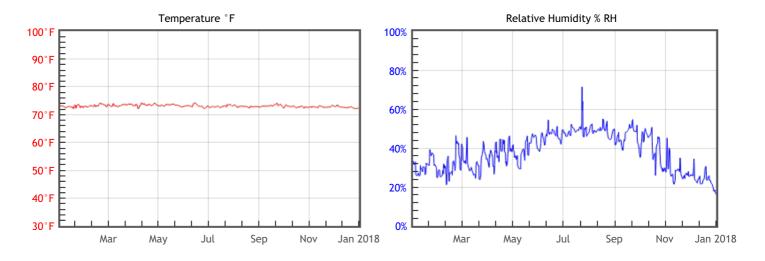
DMC North Stacks

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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	OK % DC = 1.17 % EMC min = 5 % EMC max = 9.2	Generally OK, but sensitive or fast responding hygroscopic materials such as paintings, rare books, vellum manuscripts or musical instruments will be at elevated risk of physical damage due to fluctuations of humidity.
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 = 9.2	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 P	Dew Point	
T°F Mean	73.1	%RH Mean	38	DP°F Mean	45.1	
T°F Median	73	%RH Median	38	DP°F Median	46.2	
T°F Stdev	0.6	%RH Stdev	10	DP°F Stdev	7.4	
T°F Min	64.4	%RH Min	15	DP°F Min	21.7	
T°F Max	79.8	%RH Max	71	DP°F Max	66	

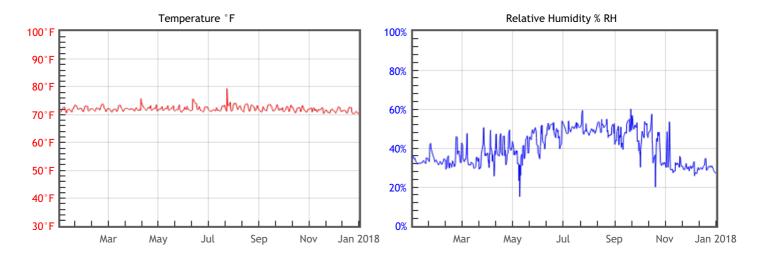
DMC South Stacks

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Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	RISK TWPI = 42	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	OK % DC = 0.94 % EMC min = 6 % EMC max = 9.4	Generally OK, but sensitive or fast responding hygroscopic materials such as paintings, rare books, vellum manuscripts or musical instruments will be at elevated risk of physical damage due to fluctuations of humidity.
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 = 9.4	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



Statistics

Temperature		Relative Humidity		Dew P	Dew Point	
T°F Mean	72.1	%RH Mean	40	DP°F Mean	46	
T°F Median	71.9	%RH Median	39	DP°F Median	45.6	
T°F Stdev	1.1	%RH Stdev	9	DP°F Stdev	6.1	
T°F Min	70.1	%RH Min	15	DP°F Min	22.9	
T°F Max	79.4	%RH Max	76	DP°F Max	66.9	