3 East

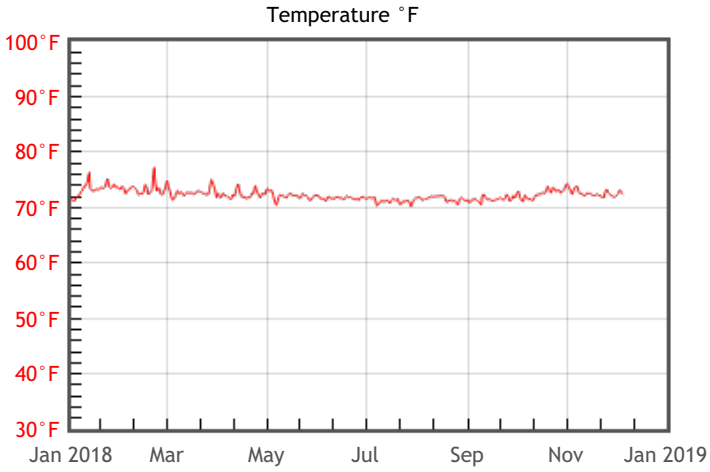
MSU Libraries • Main • General Collections • East Wing
Michigan State University Libraries

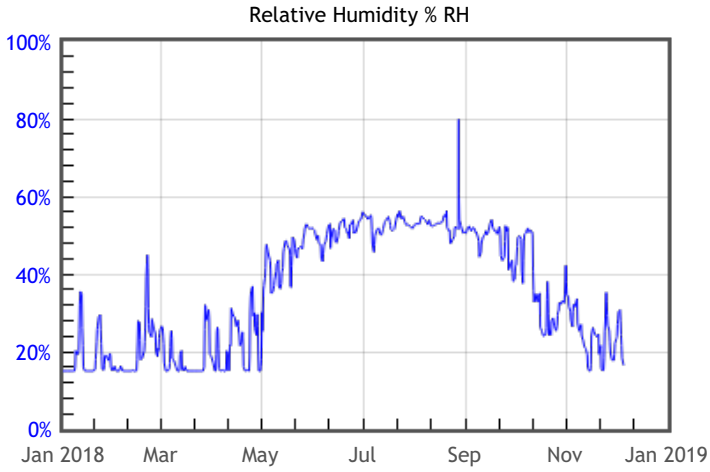
2018-01-01 to 2018-12-05
11 months, 5 days

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 46	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 = 1.66 % EMC min = 3.9 % EMC max = 9.9	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 = 9.9	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	72.2	**%RH Mean**	35	**DP°F Mean**	40.8
T°F Median	72.1	**%RH Median**	35	**DP°F Median**	44
T°F Stdev	1	**%RH Stdev**	15	**DP°F Stdev**	12.3
T°F Min	69.9	**%RH Min**	15	**DP°F Min**	20.9
T°F Max	77.5	**%RH Max**	80	**DP°F Max**	66.6

4 East (LC PA-PZ)

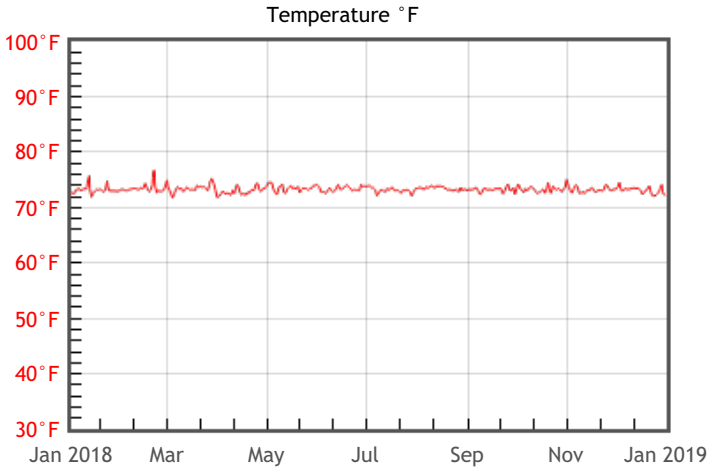
MSU Libraries • Main • General Collections • East Wing
Michigan State University Libraries

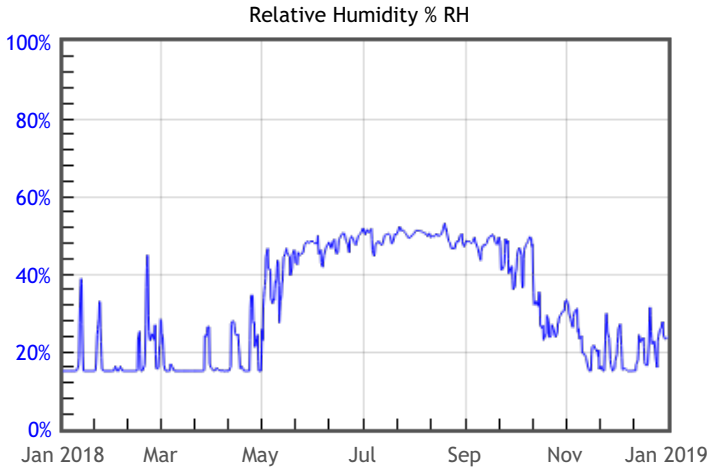
2018-01-01 to 2018-12-31
1 year

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 46	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 = 1.57 % EMC min = 3.7 % EMC max = 9.4	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 = 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 Point	
T°F Mean	73.3	**%RH Mean**	32	**DP°F Mean**	39.4
T°F Median	73.3	**%RH Median**	30	**DP°F Median**	40.4
T°F Stdev	0.6	**%RH Stdev**	14	**DP°F Stdev**	12.7
T°F Min	71.6	**%RH Min**	15	**DP°F Min**	21.5
T°F Max	77.5	**%RH Max**	66	**DP°F Max**	63.3