Preservation Environment Evaluation

<table>
<thead>
<tr>
<th>Type of Decay</th>
<th>Risks &amp; Metrics</th>
<th>Evaluation &amp; General Comments</th>
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<tbody>
<tr>
<td>Natural Aging</td>
<td>OK</td>
<td>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.</td>
</tr>
<tr>
<td>Natural Aging</td>
<td>TWPI = 52</td>
<td></td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>GOOD</td>
<td>Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.</td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>% DC = 0.4</td>
<td></td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>% EMC min = 6.2</td>
<td></td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>% EMC max = 7.7</td>
<td></td>
</tr>
<tr>
<td>Mold Risk</td>
<td>GOOD</td>
<td>Minimal risk of mold growth.</td>
</tr>
<tr>
<td>Mold Risk</td>
<td>MRF = 0</td>
<td></td>
</tr>
<tr>
<td>Metal Corrosion</td>
<td>OK</td>
<td>Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.</td>
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<tr>
<td>Metal Corrosion</td>
<td>% EMC max = 7.7</td>
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Graphs

Temperature °F

Relative Humidity % RH

Statistics

<table>
<thead>
<tr>
<th></th>
<th>Temperature</th>
<th>Relative Humidity</th>
<th>Dew Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>T°F Mean</td>
<td>68.3</td>
<td>%RH Mean</td>
<td>36</td>
</tr>
<tr>
<td>T°F Median</td>
<td>66.6</td>
<td>%RH Median</td>
<td>36</td>
</tr>
<tr>
<td>T°F Stdev</td>
<td>8.3</td>
<td>%RH Stdev</td>
<td>4</td>
</tr>
<tr>
<td>T°F Min</td>
<td>54.9</td>
<td>%RH Min</td>
<td>26</td>
</tr>
<tr>
<td>T°F Max</td>
<td>82.7</td>
<td>%RH Max</td>
<td>43</td>
</tr>
<tr>
<td>DP°F Mean</td>
<td></td>
<td>DP°F Mean</td>
<td>40</td>
</tr>
<tr>
<td>DP°F Median</td>
<td></td>
<td>DP°F Median</td>
<td>39.3</td>
</tr>
<tr>
<td>DP°F Stdev</td>
<td></td>
<td>DP°F Stdev</td>
<td>9.6</td>
</tr>
<tr>
<td>DP°F Min</td>
<td></td>
<td>DP°F Min</td>
<td>23.9</td>
</tr>
<tr>
<td>DP°F Max</td>
<td></td>
<td>DP°F Max</td>
<td>55.1</td>
</tr>
</tbody>
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<td>GOOD</td>
<td>Minimal risk of mold growth.</td>
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Graphs

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<tr>
<th>Temperature</th>
<th>Relative Humidity</th>
<th>Dew Point</th>
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<tbody>
<tr>
<td><strong>T °F Mean</strong></td>
<td>64.4</td>
<td>37</td>
</tr>
<tr>
<td><strong>T °F Median</strong></td>
<td>63.2</td>
<td>37</td>
</tr>
<tr>
<td><strong>T °F Stdev</strong></td>
<td>9.2</td>
<td>4</td>
</tr>
<tr>
<td><strong>T °F Min</strong></td>
<td>50.5</td>
<td>26</td>
</tr>
<tr>
<td><strong>T °F Max</strong></td>
<td>78.7</td>
<td>45</td>
</tr>
<tr>
<td><strong>%RH Mean</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>%RH Median</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>%RH Stdev</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>%RH Min</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>%RH Max</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DP °F Mean</strong></td>
<td></td>
<td>37.6</td>
</tr>
<tr>
<td><strong>DP °F Median</strong></td>
<td></td>
<td>37.9</td>
</tr>
<tr>
<td><strong>DP °F Stdev</strong></td>
<td></td>
<td>10.2</td>
</tr>
<tr>
<td><strong>DP °F Min</strong></td>
<td></td>
<td>20.6</td>
</tr>
<tr>
<td><strong>DP °F Max</strong></td>
<td></td>
<td>51.4</td>
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<tr>
<td>Natural Aging</td>
<td>TWPI = 52</td>
<td></td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>GOOD</td>
<td>Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.</td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>% DC = 0.29</td>
<td></td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>% EMC min = 6.8</td>
<td></td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>% EMC max = 7.8</td>
<td></td>
</tr>
<tr>
<td>Mold Risk</td>
<td>GOOD</td>
<td>Minimal risk of mold growth.</td>
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<tr>
<td>Mold Risk</td>
<td>MRF = 0</td>
<td></td>
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<tr>
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<td>DP°F Stdev</td>
</tr>
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<td>52.3</td>
<td>DP°F Min</td>
</tr>
<tr>
<td>T°F Max</td>
<td>82</td>
<td>DP°F Max</td>
</tr>
<tr>
<td>%RH Mean</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>%RH Median</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>%RH Stdev</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>%RH Min</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>%RH Max</td>
<td>43</td>
<td></td>
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2018-01-01 to 2018-09-05
8 months, 5 days
**Preservation Environment Evaluation**

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<td>37</td>
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<td>T°F Median</td>
<td>66.5</td>
<td>37</td>
</tr>
<tr>
<td>T°F Stdev</td>
<td>9.6</td>
<td>3</td>
</tr>
<tr>
<td>T°F Min</td>
<td>50.9</td>
<td>28</td>
</tr>
<tr>
<td>T°F Max</td>
<td>80.6</td>
<td>41</td>
</tr>
<tr>
<td>%RH Mean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%RH Median</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%RH Stdev</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%RH Min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%RH Max</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP°F Mean</td>
<td></td>
<td>39.1</td>
</tr>
<tr>
<td>DP°F Median</td>
<td></td>
<td>39.8</td>
</tr>
<tr>
<td>DP°F Stdev</td>
<td></td>
<td>10.2</td>
</tr>
<tr>
<td>DP°F Min</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>DP°F Max</td>
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</tr>
<tr>
<td>Chemical decay of organic materials</td>
<td>TWPI = 69</td>
<td></td>
</tr>
<tr>
<td>Mechanical Damage</td>
<td>OK</td>
<td>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.</td>
</tr>
<tr>
<td>Physical damage to hygroscopic materials</td>
<td>% DC = 0.66</td>
<td></td>
</tr>
<tr>
<td>% EMC min = 5.6</td>
<td>% EMC max = 8</td>
<td></td>
</tr>
<tr>
<td>Mold Risk</td>
<td>GOOD</td>
<td>Minimal risk of mold growth.</td>
</tr>
<tr>
<td>Mold growth in area or on collection objects</td>
<td>MRF = 0</td>
<td></td>
</tr>
<tr>
<td>Metal Corrosion</td>
<td>OK</td>
<td>Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.</td>
</tr>
<tr>
<td>Corrosion of metal components or objects</td>
<td>% EMC max = 8</td>
<td></td>
</tr>
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Graphs

Temperature °F

Relative Humidity % RH

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<td>63.7</td>
<td>DP°F Median</td>
</tr>
<tr>
<td>T°F Stdev</td>
<td>6.6</td>
<td>DP°F Stdev</td>
</tr>
<tr>
<td>T°F Min</td>
<td>56.2</td>
<td>DP°F Min</td>
</tr>
<tr>
<td>T°F Max</td>
<td>80.5</td>
<td>DP°F Max</td>
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