



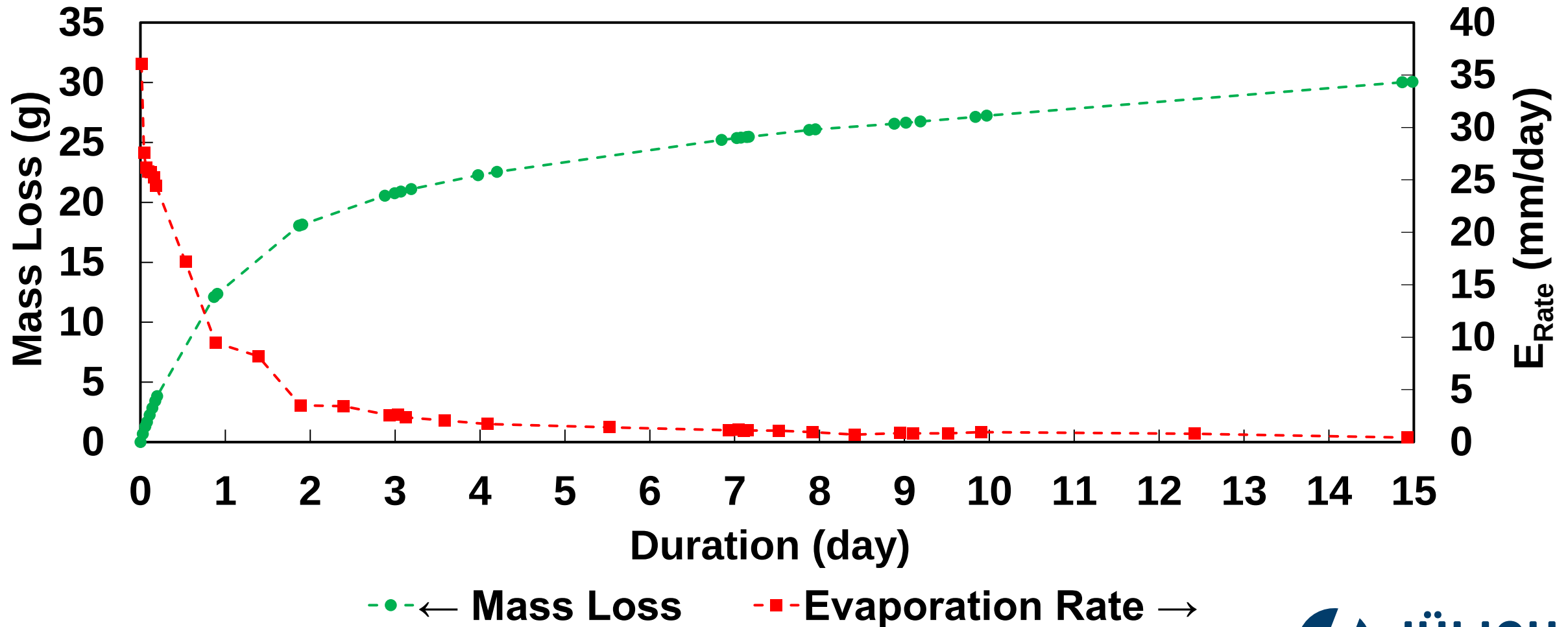
UNRAVELING SALT PRECIPITATION DYNAMICS IN HETEROGENEOUS POROUS MEDIA VIA TIME-LAPSE MICRO-COMPUTED TOMOGRAPHY



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RESULTS

Gravimetric Analysis



RESULTS

Water Flow

Pixel Size: 47 μm



Day0

Day1

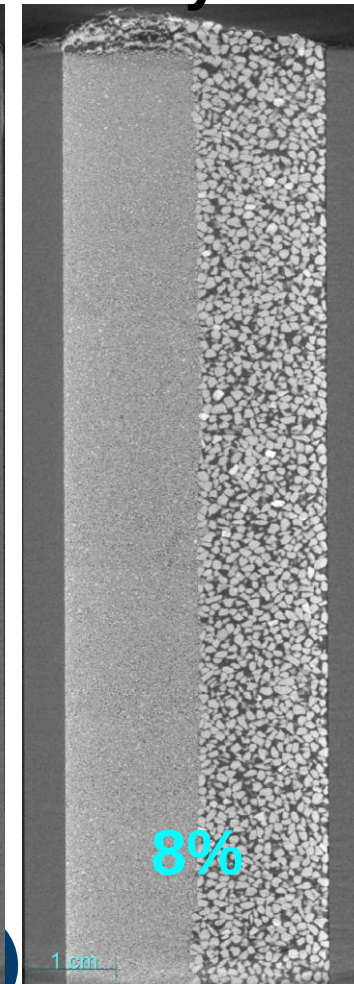
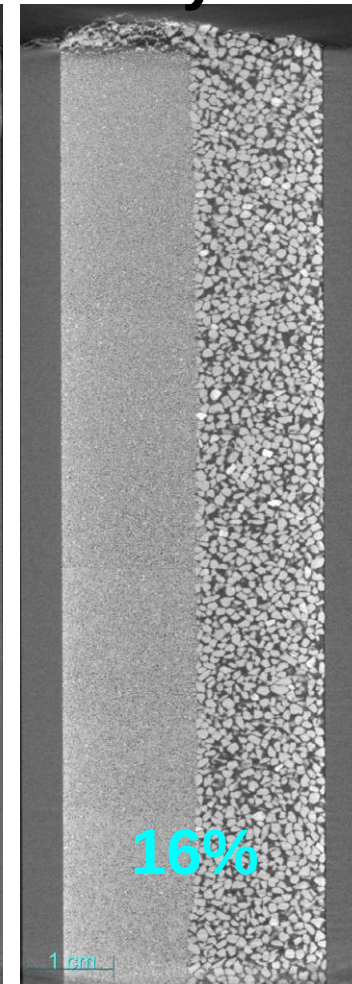
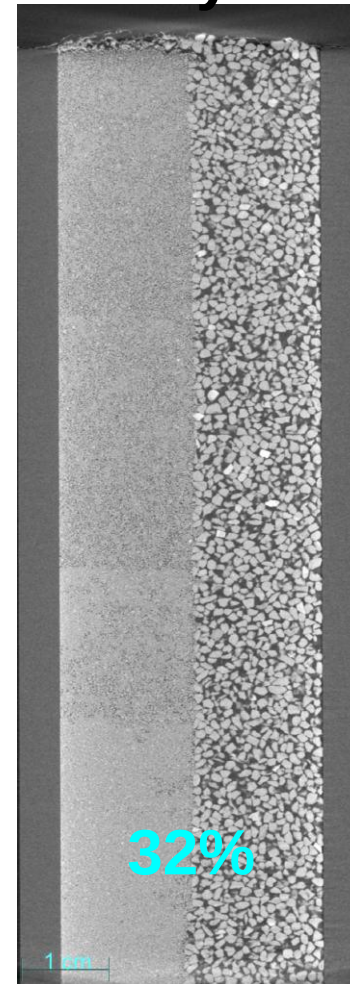
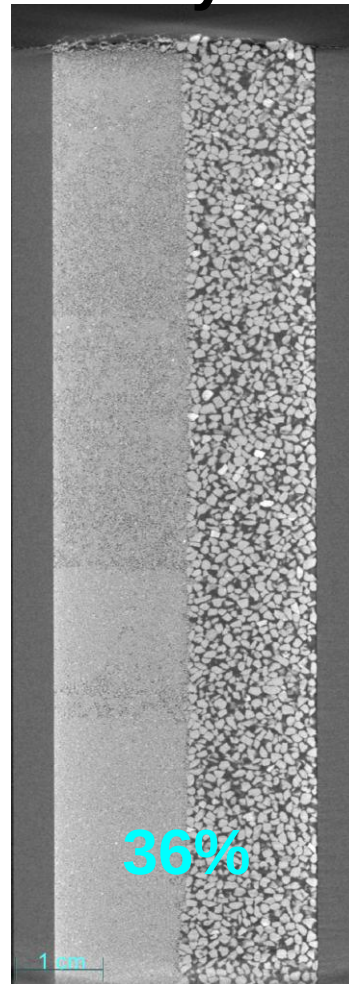
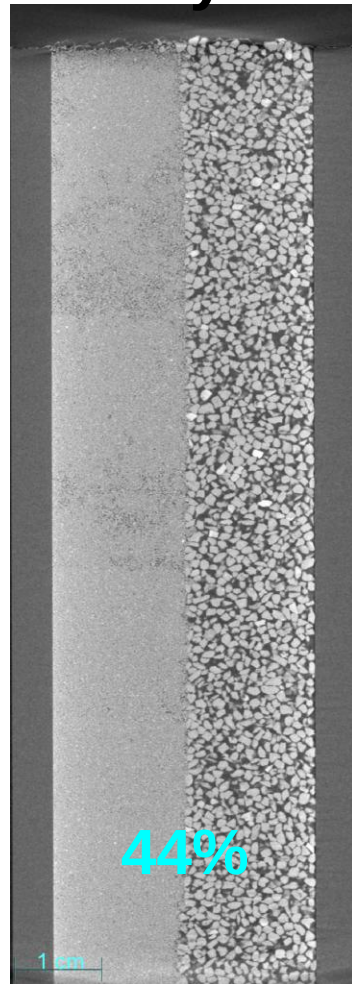
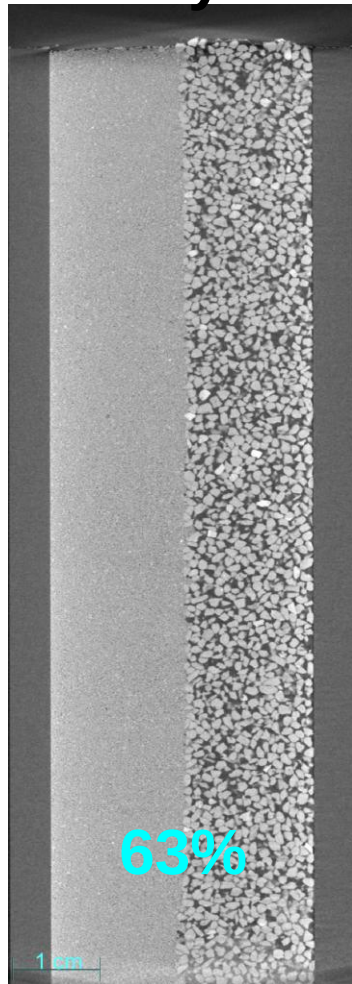
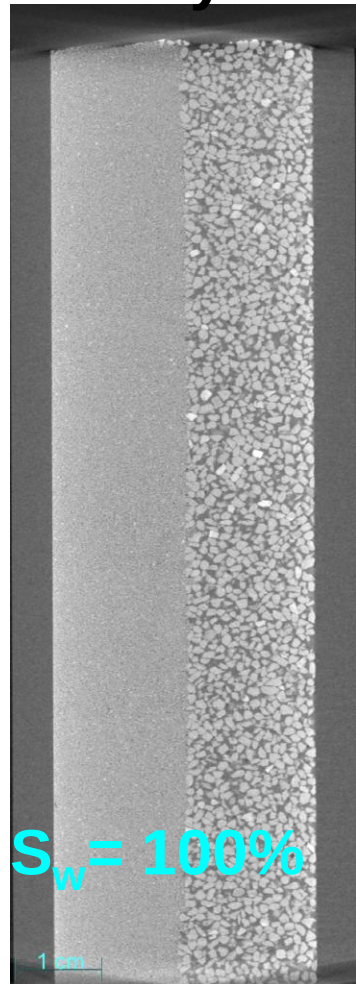
Day2

Day3

Day4

Day10

Day15



RESULTS



Day0



Day1



Day2



Day3



Day4



Day10



Day15

FUTURE WORK

Looking Forward



- ▶ **Effect of experimental conditions:** e.g., natural drying to allow realistic surface evaporation rates, subflorescent salt formation to assess impact on precipitation patterns, etc.
- ▶ **Salt crust's role:** how different crust type on coarse side—or its absence—affect vapor diffusion & precipitation at interface.
- ▶ **REV-scale modeling:** to confirm if high surface evaporation disrupted water/salt gradients, explaining lack of interface precipitation.