

COUPLED FLOW-TRANSPORT SIMULATION - MODEL SETUP

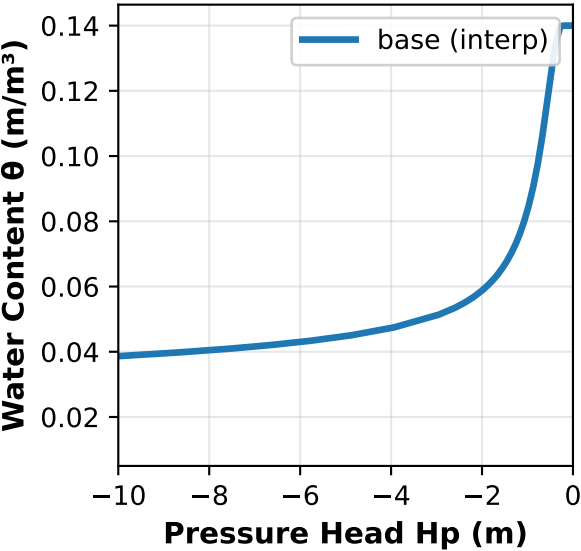
SIMULATION CONFIGURATION

Simulation Name: Transport\_Chloride  
Start: 2024-05-01 00:00  
End: 2024-05-10 00:00  
Duration: 216.0 hours (9.0 days)  
Time Step: 10800.0 seconds  
  
Domain: 20.0 m × 5.0 m | Mesh: 80 × 40  
  
Simulation duration (real time): 0:00:51.024548

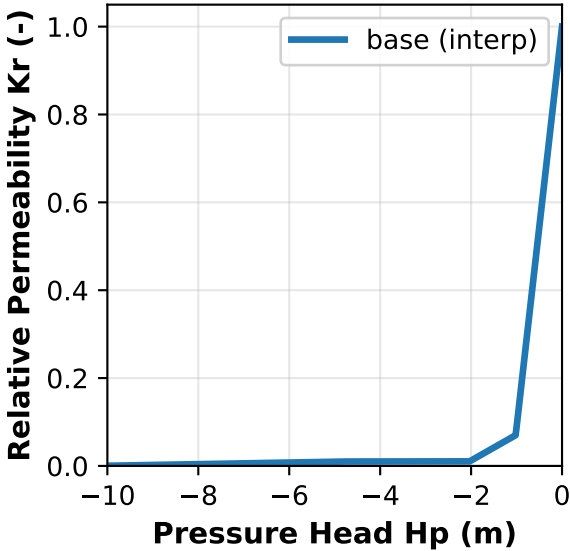
CONTAMINANT PROPERTIES

Contaminant: Chloride (Cl<sup>-</sup>)  
Application Rate: 0.1 kg/m<sup>2</sup>/hr  
Application Zone: Deicing zone (9-11m, surface)  
Application Duration: 54.0 hours  
Dispersivity (α<sub>L</sub>): 0.05 m  
Bulk Density: 1600 kg/m<sup>3</sup>

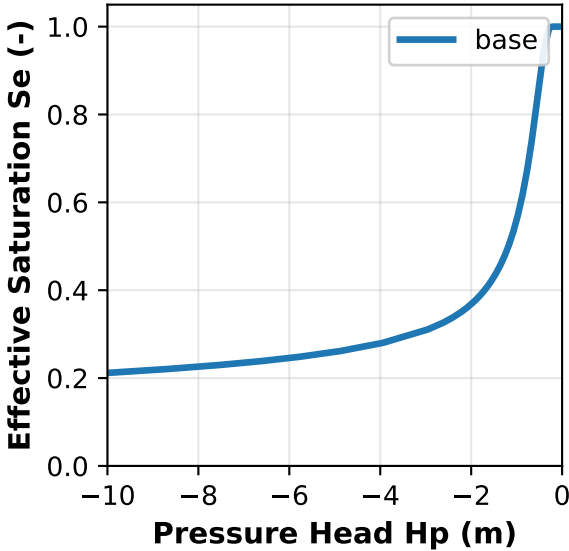
Water Content Curve



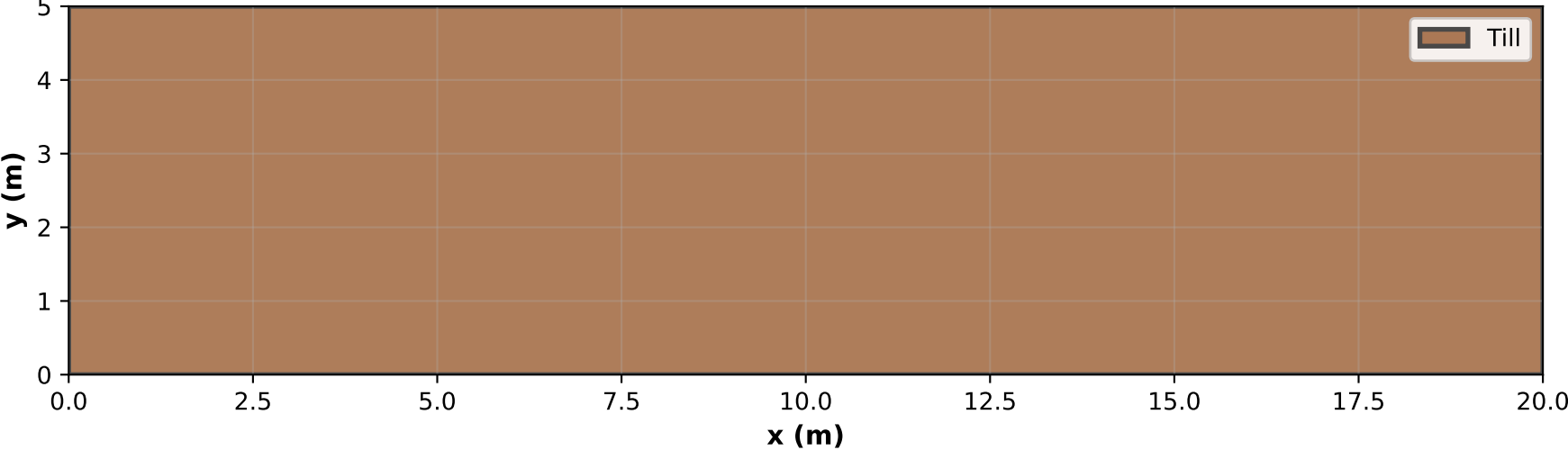
Relative Permeability Curve



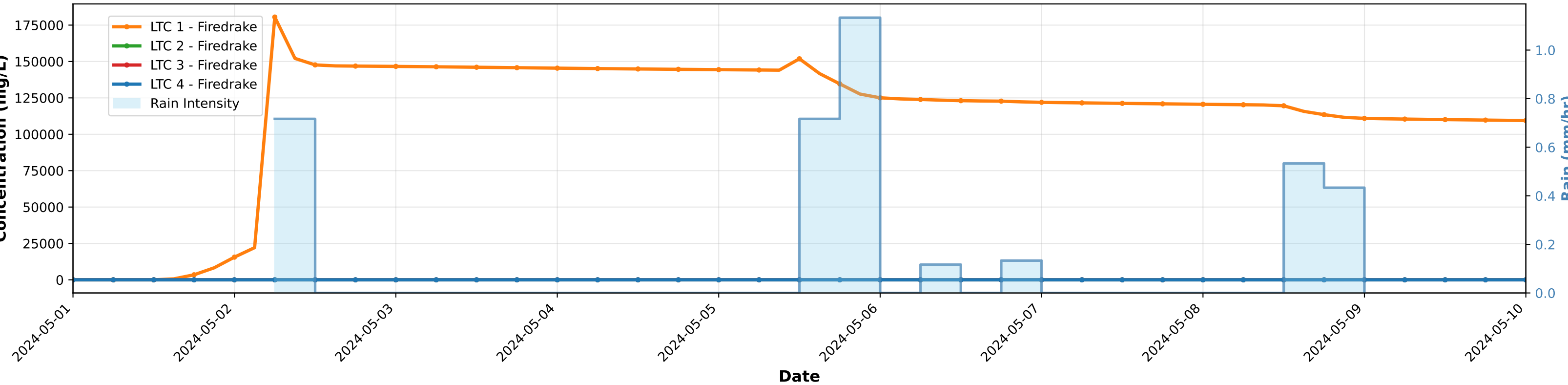
Effective Saturation Curve



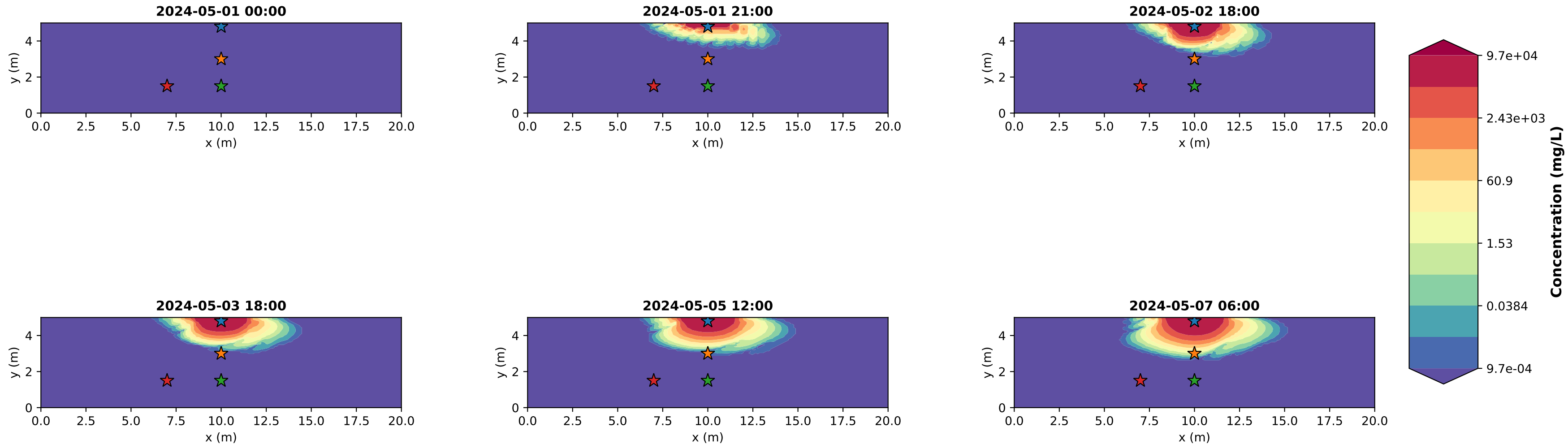
Domain Geometry



# CONTAMINANT CONCENTRATION - TIME SERIES

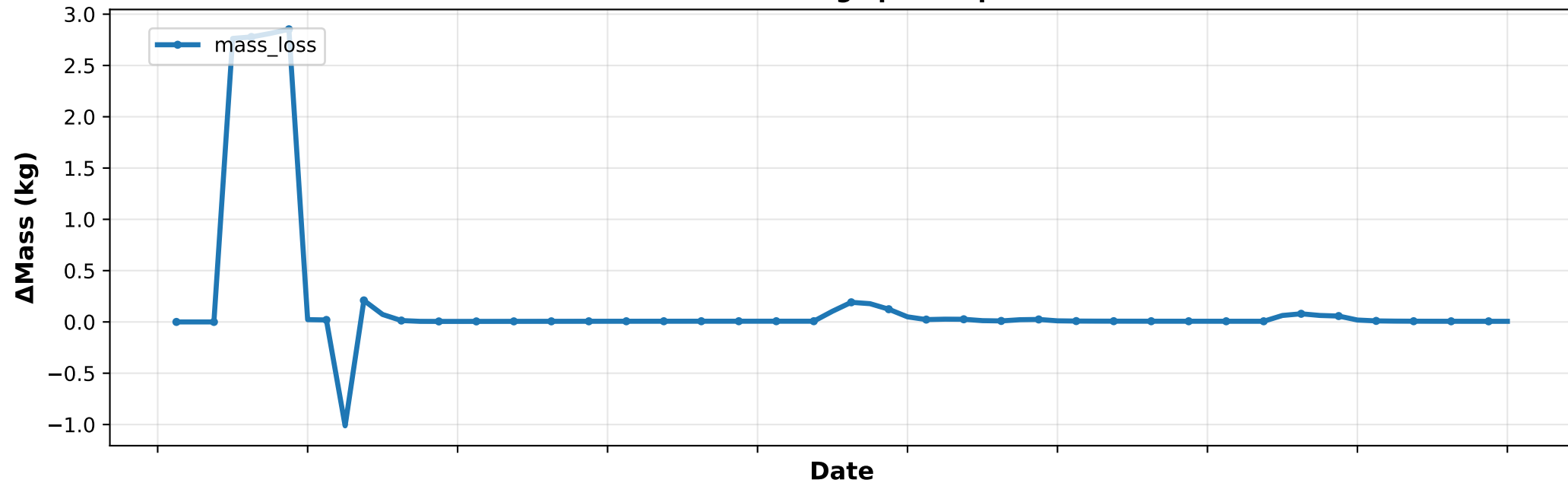


# CONTAMINANT CONCENTRATION - SPATIAL DISTRIBUTION



# MASS BALANCE - TIME SERIES

## Mass Change per Step



## Cumulative Mass Change

