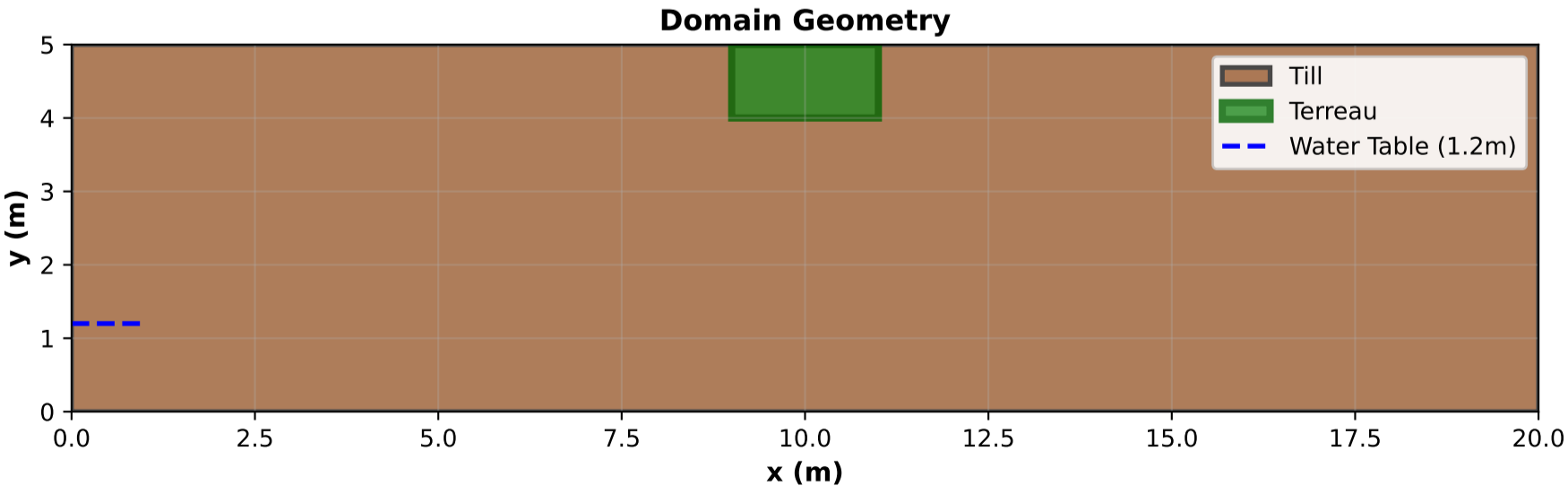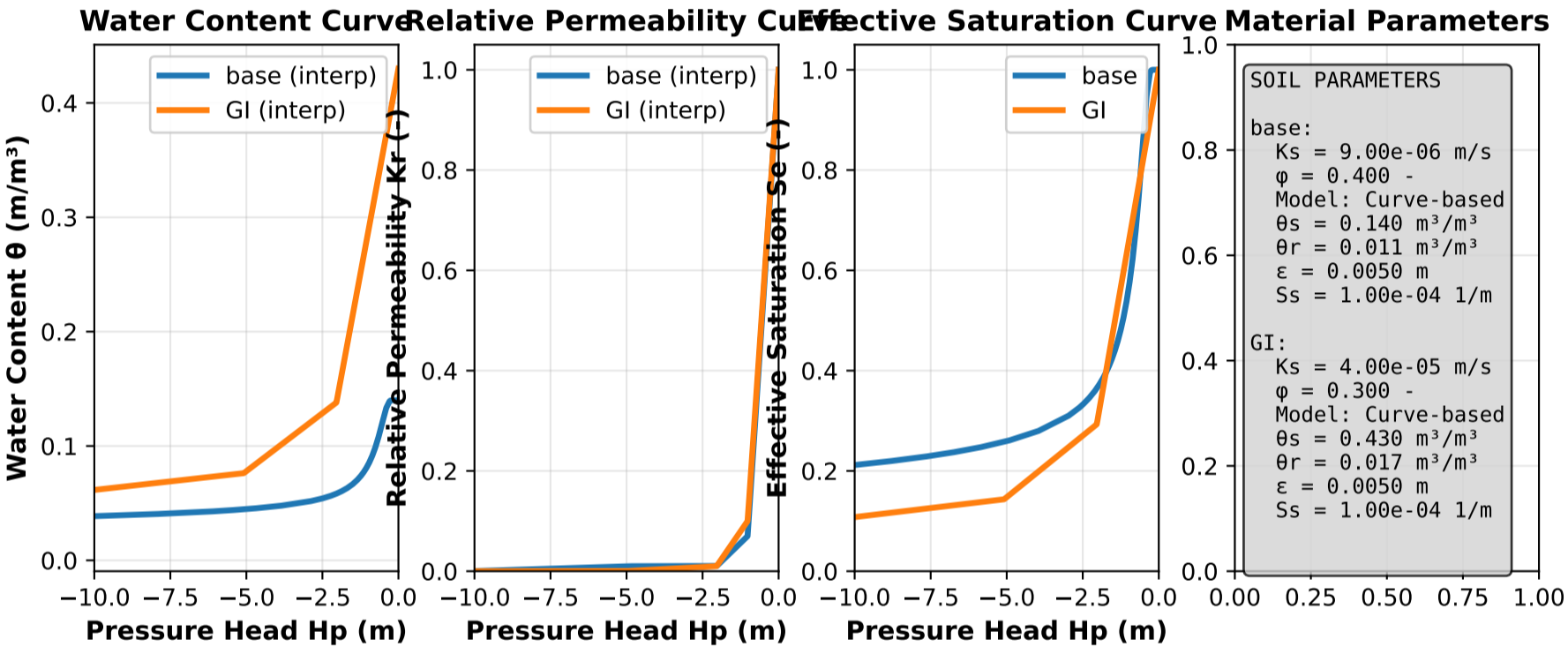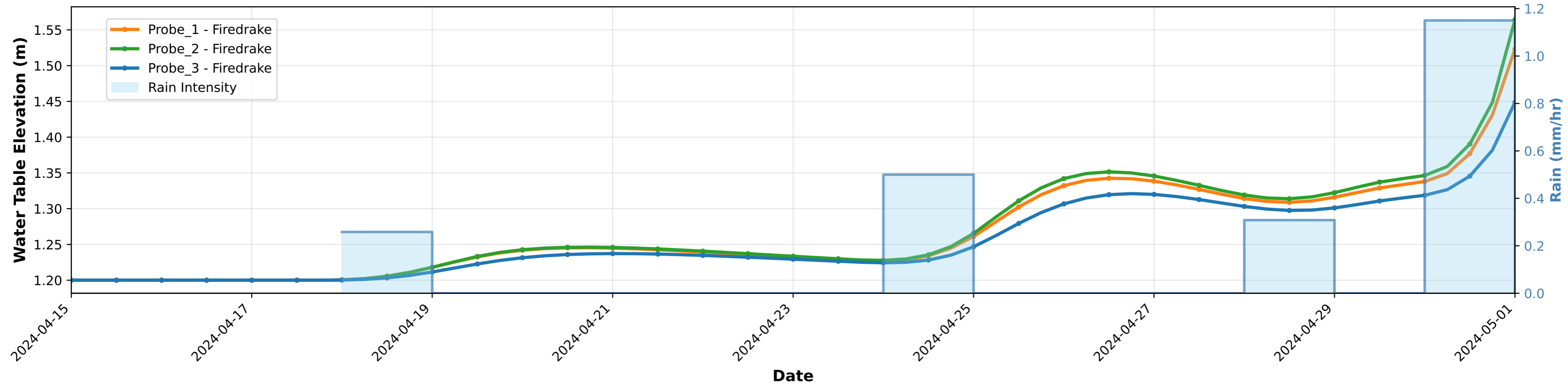# RICHARDS EQUATION SIMULATION - MODEL SETUP

SIMULATION CONFIGURATION

Simulation Name: Datetime_Duration
Start: 2024-04-15 00:00
End: 2024-05-01 00:00
Duration: 384.0 hours (16.0 days)
Time Step: 21600.0 seconds

Domain: 20.0 m × 5.0 m | Mesh: 80 × 40

Water Content Curve

base (interp)
GI (interp)

Water Content θ (m/m³)
Pressure Head Hp (m)

Relative Permeability Curve

base (interp)
GI (interp)

Relative Permeability Kr (-)
Pressure Head Hp (m)

Effective Saturation Curve

base
GI

Effective Saturation Se (-)
Pressure Head Hp (m)

Material Parameters

SOIL PARAMETERS

base:
  Ks = 9.00e-06 m/s
  φ = 0.400 -
  Model: Curve-based
  θs = 0.140 m³/m³
  θr = 0.011 m³/m³
  ε = 0.0050 m
  Ss = 1.00e-04 1/m

GI:
  Ks = 4.00e-05 m/s
  φ = 0.300 -
  Model: Curve-based
  θs = 0.430 m³/m³
  θr = 0.017 m³/m³
  ε = 0.0050 m
  Ss = 1.00e-04 1/m

Domain Geometry

Till
Terreau
Water Table (1.2m)

y (m)
x (m)

GI

WATER TABLE ELEVATION - TIME SERIES

SOIL SATURATION - SPATIAL DISTRIBUTION