

Demo of tutorial description using Markdown

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This is an example text. This is a formula: $\sum_{n=1}^{\infty} \frac{1}{n!}$		

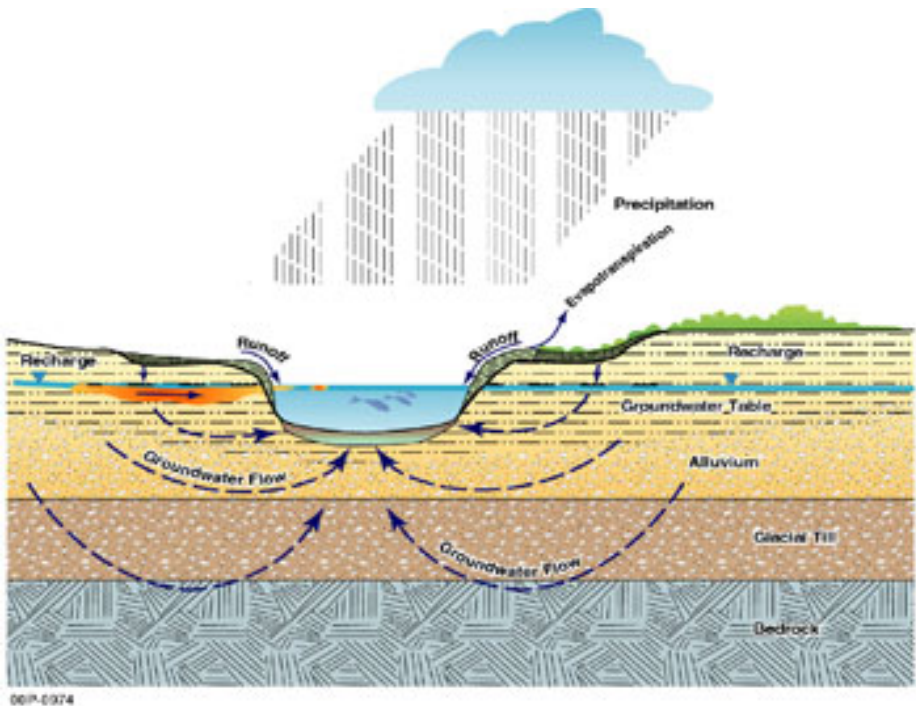


Figure 1: Groundwater flow example

1 Section

1.1 Subsection

```
flow123d_version: 1.8.9
problem: !SequentialCoupling
  description: Test1 - Steady flow with multidimensional connections 1D-2D-3D
  mesh:
    mesh_file: ../00_mesh/test1_new.msh
    regions:
      - !Union
        name: fractures
        regions:
          - 2d_fracture_1
          - 2d_fracture_2
      - !Union
        name: dirichlet_boundary
        regions:
          - .1d_channel
          - .2d_fracture_1
          - .2d_fracture_2
          - .3d_cube
  primary_equation: !SteadyDarcy_MH
  n_schurs: 2
  input_fields:
    - region: 1d_channel
      anisotropy: 10
      sigma: 0.05
    # using region set
    - region: fractures
      anisotropy: 1
      sigma: 0.5
    #       { region:"2d_fracture_1",
    #         anisotropy:1,
    #         sigma:0.5
    #       },
    #       { region:"2d_fracture_2",
    #         anisotropy:1,
    #         sigma:0.5
    #       },
    - region: 3d_cube
      anisotropy: 0.1
    # using region set
    - region: dirichlet_boundary
      bc_type: dirichlet
```

```
        bc_pressure: !FieldFormula
          value: x-z
balance: true
output:
  output_stream:
    file: ./test1.msh
    format: !gmsh
    variant: ascii
    name: flow_output_stream
  output_fields:
    - piezo_head_p0
    - pressure_p0
    - pressure_p1
    - velocity_p0
  raw_flow_output: ./raw_output.txt
solver: !Petsc
  r_tol: 1.0e-10
  a_tol: 1.0e-10
```