

Computational steps of FluSM

Inputs

Soil moisture
(hourly resolution)

Precipitation
[mm/10 min]

Infiltration capacity
[mm/h]

Potential evaporation
[mm/h] and [mm/d]

1) Determination of the **Surface Storage Capacity**
(C_{surf})

2) Calculation of the **Surface Water Balance**

2a) State of the
surface storage

2b) Infiltration

2c) Surface Runoff

3) Calculation of the **Soil Water Balance**

3a) Fitting of the
Drainage Model

3b) Prediction of
Drainage Loss

3c) Closure of the
Soil Water Balance

4) Linking the soil and the surface water balance

