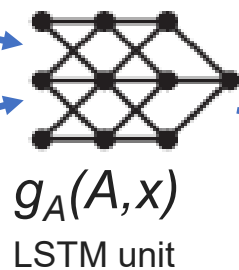


Forward run for hydrologic simulations

Parameter regionalization

Attributes
soil, land cover,
geology, others...

Forcing
 P, T, E_p



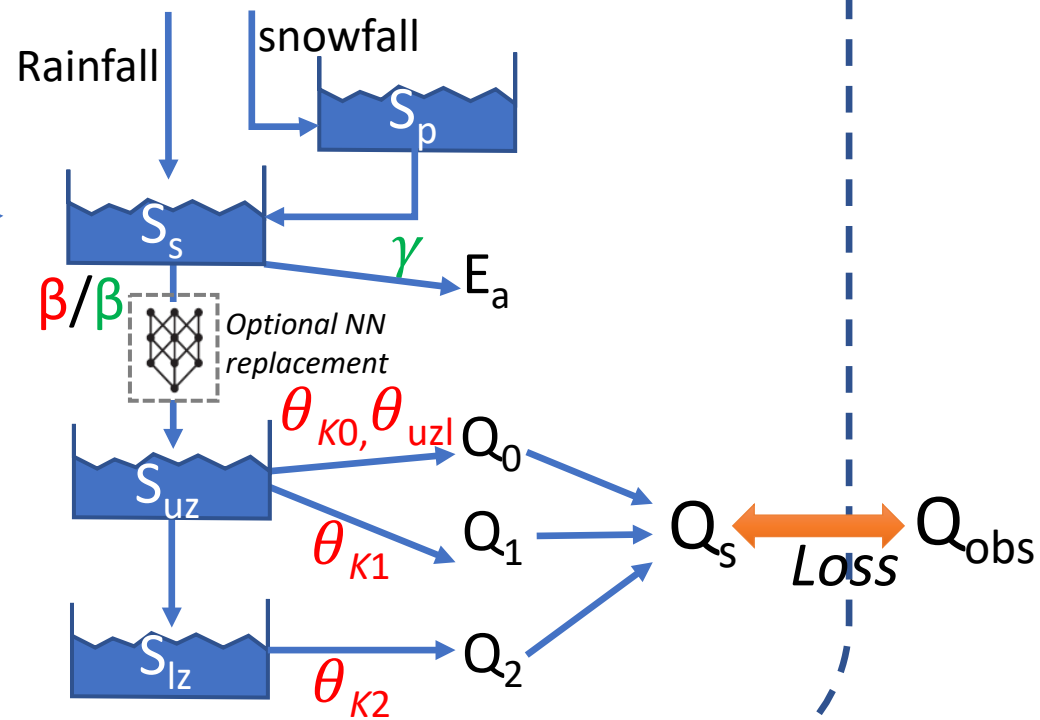
Static θ

or

Dynamic θ

Differentiable process-based model - HBV*

Precipitation/Temperature



* Not all parameters and detailed processes of HBV sketched here for the sake of simplicity.

Loss backpropagation & gradient descent to train g_A and embedded neural networks