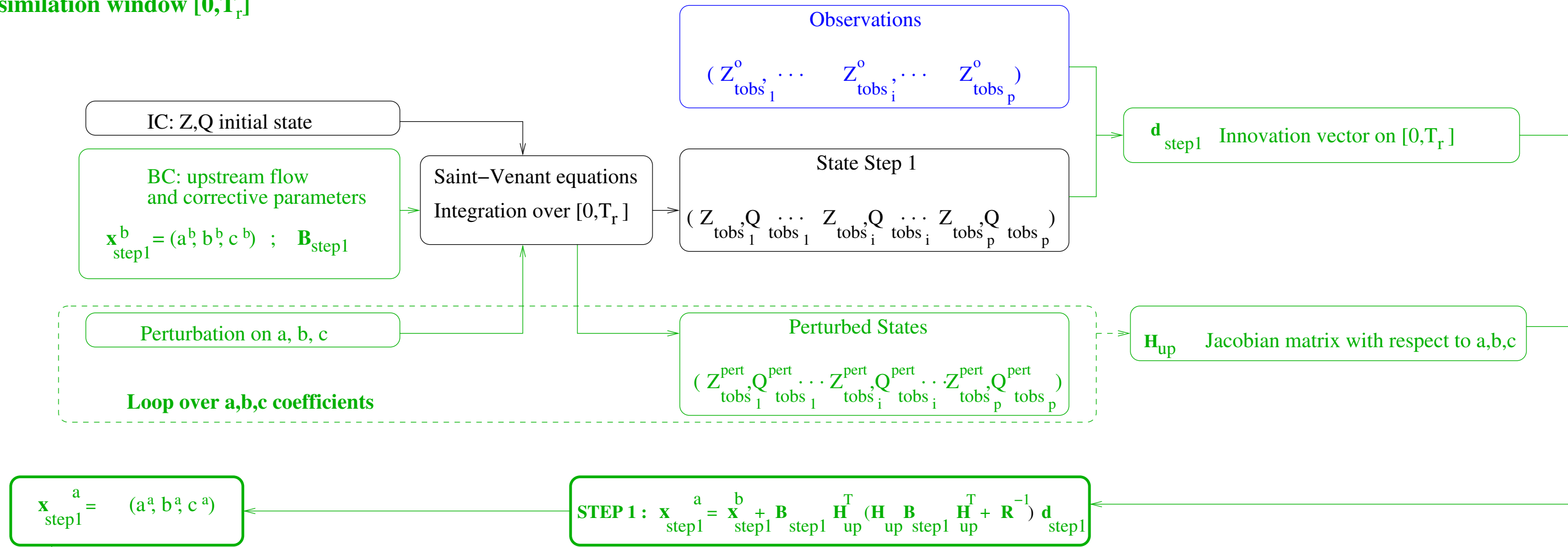
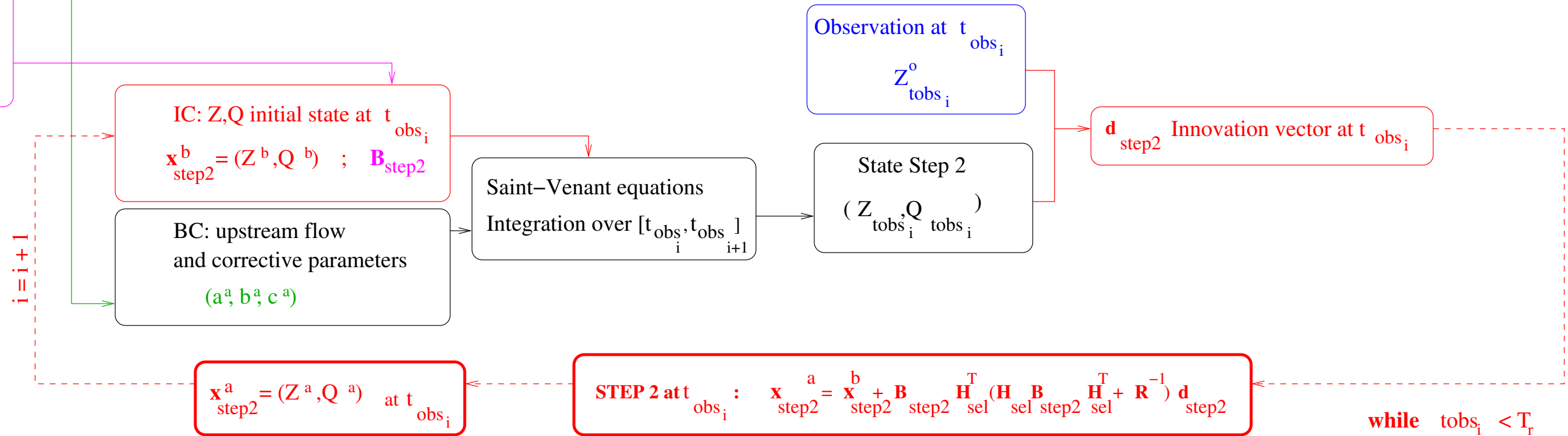


STEP 1: Analysis over assimilation window $[0, T_r]$



Kalman Filter analysis on diffusive flood wave model gives approx. of \mathbf{B}_{step2}



STEP 2: Loop of analysis over observation times