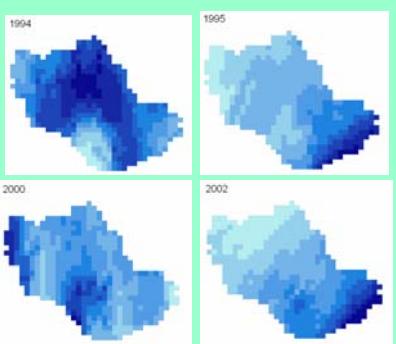
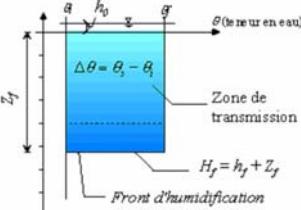
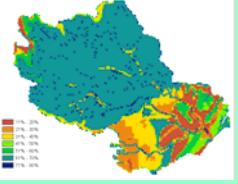
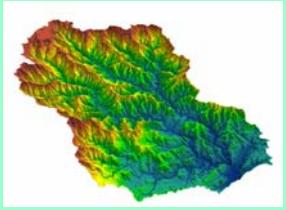
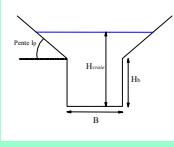
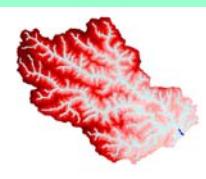
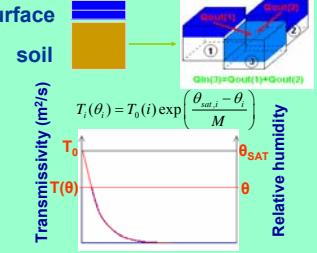
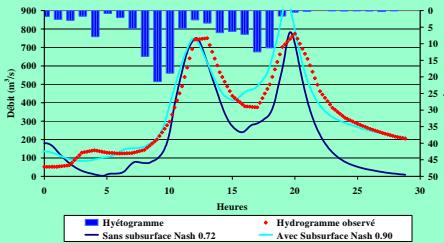
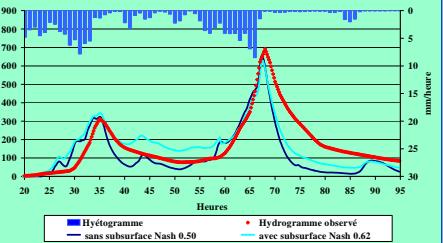
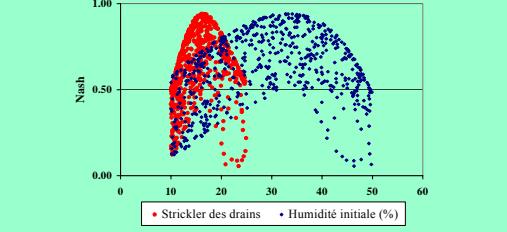


Data & Preprocessing	Modelling
<p>Météo France radar rainfalls</p> 	<p>Infiltration Green & Hampt</p> $\frac{\partial Z_f}{\partial t} = K_s \left(1 + \frac{(\theta - \theta_i) S_f}{Z_f} \right)$ 
<p>Soil Moisture</p> 	<p>Watershed runoff Kinematic wave</p> $\frac{\partial h}{\partial t} + \frac{\sqrt{S}}{n} \frac{5}{3} h^{2/3} \frac{\partial h}{\partial x} = P - I$ 
<p>Maximum infiltration heights (BRGM) and soil composition</p> 	<p>Drainage network Kinematic wave</p> $u = \frac{1}{n} \sqrt{S} R^{2/3}$  
<p>DEM</p> 	<p>Subsurface transfer Darcy's law</p> <p>surface</p> <p>soil</p> <p>$Q_{out,i} = T_i(\theta_i) \text{grad}(h_i) dx$</p>  <p>$T_i(\theta_i) = T_0(i) \exp\left(\frac{\theta_{sat,i} - \theta_i}{M}\right)$</p> <p>Transmissivity ($m^2/s$)</p> <p>$T_0$</p> <p>Relative humidity θ</p> <p>θ_{SAT}</p>
<p>Slopes</p> 	<p>Results</p> <p>Outlet hydrographs</p> <p>Événement du 21/09/1994</p>  <p>Événement du 10/11/1996</p> 
<p>Landuse</p> 	<p>Sensitivity tests Parameter fitting using GLUE method</p> 
<p>Roughness</p> 