$\nabla_{\mathbf{w_{i,j}}} e = \frac{\partial e}{s_{i,j}} \nabla_{\mathbf{w_{i,j}}} s_{i,j}$

 $= \frac{\partial e}{h_{i,j}} \frac{\partial h_{i,j}}{s_{i,j}} \nabla_{\mathbf{w_{i,j}}} s_{i,j}$

 $= \frac{\partial e}{h_{i,j}} \sigma(s_{i,j}) (1 - \sigma(s_{i,j})) \mathbf{h}_{i-1}$