$$y_t \sim \text{Poisson}(\lambda_t)$$
$$\ln(\lambda_{t+1}) = \ln(\lambda_t) + \delta_t + \epsilon_t, \quad \epsilon_t \sim \text{N}(0, \sigma_\epsilon^2)$$
$$\delta_{t+1} = \delta_t + \eta_t, \quad \eta_t \sim \text{N}(0, \sigma_\eta^2)$$