Traceplots for SIRS model fit via PMMH w/approximate paths log-posterior -150 -155 -160 **-**0.0014 0.0012 0.0010 0.0008 0.0006 0.0004 -0.09 0.07 0.05 0.04 0.03 Έ Chain 0.02 0.01 0.9 0.8 0.7 О 0.6 0.5 1.0 $Pr\big(X_j\big(t_1\big)=S\big)$ 0.9 0.8 0.06 $Pr(X_j(t_1) = E)$ 0.04 0.02 0.00 $Pr(X_j(t_1) = I)$ 0.2 0.1 0.0 20000 0 10000 30000 40000 50000

Iteration