Traceplots for SEIR model fit via BDA with negative binomial emissions log – posterior -2500-3000-35000.020 0.015 B 0.010 0.005 5 - 4 - 3 - 2 - 1 -0.7 -0.6 0.5 0.4 -1.0 **-** 0.9 **-** 0.8 **-**Chain 0.7 **-** 0.6 **-**0.5 -80 -60 -0 40 -20 -0.99 - $\Pr(X_j(t_1) = S)$ 0.98 0.97 0.96 -0.020 - $\Pr(X_j(t_1) = E)$ 0.015 0.010 0.005 0.012  $\Pr\bigl(X_j\bigl(t_1\bigr)=I\bigr)$ 0.009 0.006 0.003 0.000 - $\Pr(X_j(t_1) = R)$ 0.02 0.01 75000 25000 50000 0 Iteration