atoll equations

$$\begin{split} L1: \\ P_{sna} &= \beta_{0a} + \beta_{1a}(Species_s) + \beta_{2a}(Nesting_n) + \epsilon_{sna} \\ L2: \\ \beta_{0a} &= \gamma_{00} + \gamma_{01}(PC1) + \dots + \gamma_{06}(PC6) + U_{0a} \\ \beta_{1a} &= \gamma_{10} + \gamma_{11}(PC1) + \dots + \gamma_{16}(PC6) + U_{1a} \\ \beta_{2a} &= \gamma_{20} + \gamma_{21}(PC1) + \dots + \gamma_{26}(PC6) + U_{2a} \end{split}$$