# Supplementary material B

Table B1: Summary statistics of the posterior distributions of the probabilities of detection and travel estimated in the state space model.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameter | Receiver name | mean | s.d. | 2.5th | 25th | Median | 75th | 97.5th |
|  | RP1 | 0.510 | 0.072 | 0.369 | 0.461 | 0.510 | 0.559 | 0.651 |
|  | MM1-2 | 0.830 | 0.054 | 0.713 | 0.796 | 0.835 | 0.869 | 0.920 |
|  | Rx1 | 0.553 | 0.071 | 0.413 | 0.506 | 0.554 | 0.601 | 0.689 |
|  | R1a | 0.072 | 0.048 | 0.009 | 0.035 | 0.062 | 0.097 | 0.193 |
|  | R1b | 0.810 | 0.095 | 0.593 | 0.752 | 0.824 | 0.881 | 0.955 |
|  | R2a | 0.285 | 0.220 | 0.042 | 0.125 | 0.211 | 0.378 | 0.872 |
|  | Rx2b | 0.921 | 0.068 | 0.746 | 0.886 | 0.939 | 0.973 | 0.997 |
|  | Rx2a | 0.685 | 0.210 | 0.256 | 0.527 | 0.712 | 0.862 | 0.986 |
|  | R2b | 0.553 | 0.133 | 0.309 | 0.461 | 0.549 | 0.640 | 0.819 |
|  | R3a | 0.780 | 0.095 | 0.591 | 0.715 | 0.783 | 0.846 | 0.958 |
|  | R3b | 0.526 | 0.124 | 0.293 | 0.437 | 0.524 | 0.611 | 0.773 |
|  | HoT | 0.957 | 0.029 | 0.887 | 0.942 | 0.964 | 0.979 | 0.995 |
|  | - | 0.574 | 0.077 | 0.416 | 0.522 | 0.577 | 0.626 | 0.717 |
|  | - | 0.471 | 0.243 | 0.067 | 0.255 | 0.485 | 0.677 | 0.877 |
|  | - | 0.781 | 0.102 | 0.551 | 0.717 | 0.793 | 0.857 | 0.944 |
|  | - | 0.362 | 0.217 | 0.018 | 0.177 | 0.354 | 0.537 | 0.764 |
|  | - | 0.888 | 0.107 | 0.599 | 0.841 | 0.921 | 0.968 | 0.997 |
|  | - | 0.081 | 0.080 | 0.002 | 0.023 | 0.057 | 0.113 | 0.292 |
|  | - | 0.245 | 0.190 | 0.008 | 0.086 | 0.204 | 0.371 | 0.685 |

A group of graph of a tower

Description automatically generated with medium confidence

Figure B1: Posterior (histogram) and prior (red line) distribution of the probabilities of detection.

A group of black and white graphs

Description automatically generated

Figure B2: Posterior (histogram) and prior (red line) distribution of the probabilities of travel.