**Table S4: Model parameters with their values and references.** Parameters in the upper part of the table have been taken from the literature or estimated. Calibration parameters (with 95% confidence intervals) are shown in the lower part of the table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Units** | **Value** | **Reference** |
| $$β$$ | $$day^{-1}$$ | $$1.0$$ | [[5](#_ENREF_5),[6](#_ENREF_6),[44-46](#_ENREF_44)] |
| $$α$$ | $$day^{-1}$$ | $$4.0×10^{-3}$$ | [[5](#_ENREF_5)] PAHO, 2011 |
| $$μ$$ | $$day^{-1}$$ | $$1/(61×365)$$ | [[5](#_ENREF_5)] CIA, 2009 |
| $$γ$$ | $$day^{-1}$$ | $$0.2$$ | [[5](#_ENREF_5),[6](#_ENREF_6),[19](#_ENREF_19),[29](#_ENREF_29),[44](#_ENREF_44),[45](#_ENREF_45)] |
| $$μ\_{B}$$ | $$day^{-1}$$ | $$0.2$$ | [[5](#_ENREF_5),[6](#_ENREF_6),[19](#_ENREF_19),[44](#_ENREF_44),[45](#_ENREF_45)] |
| $$ρ$$ | - | $$1/(3×365)$$ | [[5](#_ENREF_5),[47](#_ENREF_47)] |
| $$ε$$ | - | 5 | [[9](#_ENREF_9)] |
| $$p\_{A}/p\_{S}$$ | - | $$10^{-3}$$ | [[9](#_ENREF_9),[29](#_ENREF_29),[47](#_ENREF_47)] |
| $$q\_{A}/q\_{S}$$ | - | $$200 (10^{-1}to10^{4})$$ | (see Supporting Text S1 and SupportingFig. S6) |
| $$θ$$ | $$day^{-1}$$ | 0.55 [0.49 0.63] | - |
| $$l$$ | $$day^{-1}$$ | 0.20 [0.14 0.24] | - |
| $$m$$ | - | 0.037 [0.026 0.050] | - |
| $$D$$ | $$km$$ | 343 [221 398] | - |
| $$ϕ$$ | $$day mm^{-1}$$ | 0.081 [0.073 0.094] | - |
| $$σ$$ | - | 0.10 [0.10 0.11] | - |