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| --- | --- | --- | --- | --- |
| **Model Name** | **Movement Parameters** | **Habitat Parameters** | **Recreation Parameters** | **Interactions** |
| **Base** | Log Step Length + Log Step Length² + Cosine Turn Angle |  |  |  |
| **Habitat** | Log Step Length + Log Step Length² + Cosine Turn Angle | Developed + Forest + Herbaceous + Wetland + Cosine Aspect + Terrain Ruggedness |  |  |
| **Human** | Log Step Length + Log Step Length² + Cosine Turn Angle |  | Distance to Trail | Distance to Trail: Human Activity |
| **Global 1** | Log Step Length + Log Step Length² + Cosine Turn Angle | Developed + Forest + Herbaceous + Wetland + Cosine Aspect + Terrain Ruggedness | Distance to Trail | Log step length : Human Activity  Log step length2: Human Activity |
| **Global 2** | Log Step Length + Log Step Length² + Cosine Turn Angle | Developed + Forest + Herbaceous + Wetland + Cosine Aspect + Terrain Ruggedness | Distance to Trail | Forest: Human Activity |

Table 1: Candidate models fit to data. Explanatory variables fell into three categories: movement parameters, habitat parameters, and recreation parameters. Interactions between movement or habitat parameters and recreation parameters were included in some models. Bold type face indicates significant terms in the model.