# Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 1.** Estimates for the parameters included in the top model set (ΔAICc < 5) for each response variable during morning hunts. Interactions are denoted by ":", and bolded terms indicate significant variables (i.e., 95% CI do not overlap zero). Relative importance of each parameter is shown along with the number of models in the top model set that contain each variable (n). | | | | | |
| **Response** | **Parameter** | **Estimate** | **Lower**  **95% CI** | **Upper**  **95% CI** | **Variable**  **Importance (n)** |
| Occurrence | Intercept | 0.80 | 0.77 | 0.83 | — (1) |
| **Moonlight before** | **-0.0097** | **-0.011** | **-0.0079** | **1.00 (1)** |
| Duration  (minutes) | Intercept | 220.057 | 198.78 | 241.33 | — (4) |
| Denning (Yes) | -57.48 | -137.38 | 22.41 | 1.00 (4) |
| Moonlight before | 0.054 | -0.24 | 0.35 | 0.68 (2) |
| **Temperature (°C)** | **-1.33** | **-2.0066** | **-0.66** | **0.88 (3)** |
| Rainfall (mm) | -2.97 | -6.31 | 0.36 | 0.60 (1) |
| Rainfall:Temperature | 0.13 | 0.0040 | 0.25 | 0.60 (1) |
| **Denning:Temperature** | **5.015** | **2.83** | **7.19** | **0.58 (1)** |
| Intensity | Intercept | 51.43 | 46.78 | 56.076 | **— (3)** |
| **Denning (Yes)** | **1.56** | **0.14** | **0.16** | **0.89 (2)** |
| **Temperature (°C)** | **-0.26** | **-0.38** | **-0.14** | **0.57 (2)** |
| Start | Intercept | 06:31:41 | 06:24:07 | 06:39:14 | * (1) |
| **Denning (Yes)** | **-00:07:46** | **-00:06:14** | **-00:09:18** | **1(1)** |
| **Temperature (°C)** | **-00:01:15** | **-00:01:01** | **-00:01:29** | **0.99(1)** |
| Stop | Intercept | 09:54:52 | 09:20:48 | 10:28:56 | * (3) |
| **Denning (Yes)** | **00:13:25** | **00:09:37** | **00:17:14** | **0.57(2)** |
| **Temperature (°C)** | **-00:02:28** | **-00:01:53** | **-00:03:03** | **0.72(2)** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 2.** Estimates for the parameters included in the top model set (ΔAICc < 5) for each response variable during evening hunts. Interactions are denoted by ":", and bolded terms indicate significant variables (i.e., 95% CI do not overlap zero). Relative importance of each parameter is shown along with the number of models in the top model set that contain each variable (n). | | | | | |
| **Response** | **Parameter** | **Estimate** | **Lower**  **95% CI** | **Upper**  **95% CI** | **Variable**  **Importance (n)** |
| Occurrence | Intercept | 1.21 | 1.08 | 1.35 | — (2) |
| Denning | 0.042 | 0.016 | 0.069 | 0.08 (1) |
| **Moonlight** | **-0.0098** | **-0.012** | **-0.0079** | **1.00 (2)** |
|  | **Temperature (°C)** | **-0.017** | **-0.021** | **-0.013** | **0.97 (2)** |
| Duration  (minutes) | Intercept | 226.49 | 213.95 | 239.035 | — (2) |
| Denning (Yes) | 7.43 | -18.14 | 33.0026 | 1.00 (2) |
| **Moonlight** | **-1.84** | **-2.063** | **-1.62** | **1.00 (2)** |
| Moonrise | -0.0063 | -0.12 | 0.11 | 1.00 (2) |
| **Temperature (°C)** | **-3.011** | **-3.45** | **-2.57** | **1.00 (2)** |
| Rainfall (mm) | -0.14 | -2.30 | 2.16 | 0.20 (1) |
| Rainfall:Temperature | 0.013 | -0.071 | 0.098 | 0.20 (1) |
| Denning:Temperature | 2.04 | 0.50 | 3.58 | 0.15 (1) |
| Intensity | Intercept | 62.98 | 46.78 | 56.076 | — (4) |
| Denning (Yes) | 7.50 | 2.55 | 12.45 | 1.00 (4) |
| **Moonlight** | **-0.21** | **-0.27** | **-0.15** | **0.45 (3)** |
| Moonrise | -0.0057 | -0.038 | 0.027 | 0.45 (3) |
| **Temperature (°C)** | **-0.83** | **-0.96** | **-0.70** | **1.00 (4)** |
| Rainfall (mm) | -1.14 | -2.04 | -0.78 | 0.14 (1) |
| Rainfall:Temperature | 0.058 | 0.034 | 0.082 | 0.14 (1) |
| Denning:Temperature | -0.58 | -1.01 | -0.13 | 0.07 (1) |
| Start | Intercept | 15:43:55 | 15:34:49 | 15:53:01 | * (2) |
| **Denning (Yes)** | **-00:10:49** | **-00:08:52** | **-00:09:18** | **1 (2)** |
| **Moonlight** | **00:01:01** | **00:00:52** | **00:01:10** | **0.9 (1)** |
| Moonrise | **-00:00:01** | **-00:00:05** | **00:00:05** | **0.9 (1)** |
| **Temperature (°C)** | **00:03:30** | **00:03:11** | **00:03:49** | **1 (2)** |
| Stop | Intercept | 19:42:14 | 19:38:50 | 19:45:39 | * (2) |
| **Denning (Yes)** | **00:13:25** | **00:09:37** | **00:17:14** | **0.55(1)** |
| **Moonlight** | **00:00:52** | **00:00:43** | **00:01:02** | **0.44(1)** |
| Moonrise | 00:00:01 | -00:00:04 | 00:00:06 | 0.44(1) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 3.** Estimates for the parameters included in the top model set (ΔAICc < 5) for each response variable during night-time hunts. Interactions are denoted by ":", and bolded terms indicate significant variables (i.e., 95% CI do not overlap zero). Relative importance of each parameter is shown along with the number of models in the top model set that contain each variable (n). | | | | | |
| **Response** | **Parameter** | **Estimate** | **Lower**  **95% CI** | **Upper**  **95% CI** | **Variable**  **Importance (n)** |
| Occurrence | Intercept | -0.41 | -0.52 | -0.30 | — (2) |
| Denning | -0.069 | -0.094 | -0.044 | 0.52 (1) |
| **Moonlight** | **0.031** | **0.028** | **0.033** | **1.00 (2)** |
| **Temperature** | **0.019** | **0.016** | **0.023** | **1.00 (2)** |
| Duration  (minutes) | Intercept | 80.69 | 47.72 | 113.66 | — (4) |
| Denning (Yes) | 102.12 | -52.87 | 257.11 | 0.94 (4) |
| **Moonlight** | **5.59** | **5.00** | **6.18** | **1.00 (4)** |
| **Moonrise** | **0.83** | **0.42** | **1.25** | **1.00 (4)** |
| Temperature (°C) | 0.71 | -0.55 | 1.97 | 0.79 (3) |
| Rainfall (mm) | -0.54 | -7.66 | 6.57 | 0.53 (2) |
| Rainfall:Temperature | 0.004 | -0.27 | 0.27 | 0.51 (1) |
| Denning:Temperature | -7.42 | -13.76 | -1.10 | 0.47 (2) |
| Intensity | Intercept | 28.51 | 20.67 | 36.36 | — (4) |
| Denning (Yes) | 1.82 | -3.17 | 6.84 | 0.75 (2) |
| **Moonlight** | **0.86** | **0.75** | **0.98** | **1.00 (4)** |
| Moonrise | -0.011 | -0.10 | -0.072 | 1.00 (4) |
| **Temperature (°C)** | **0.42** | **0.18** | **0.66** | **0.52 (2)** |
| Start | Intercept | 15:52:55 | 09:34:32 | 22:11:08 | * (2) |
| Moonlight | -00:05:15 | -00:10:38 | 00:00:08 | 1.00 (2) |
| **Moonrise** | **00:24:22** | **00:20:30** | **00:24:22** | **1.00 (2)** |
| **Temperature (°C)** | **-00:29:38** | **-00:18:57** | **-00:40:20** | **0.22 (1)** |
| Stop | Intercept | 09:14:33 | 06:28:31 | 12:00:35 | * (3) |
| **Denning (Yes)** | **02:22:25** | **01:11:11** | **03:33:39** | **0.25 (1)** |
| **Moonlight** | **-00:24:17** | **-00:20:20** | **-00:28:14** | **1.00 (3)** |
| Moonrise | 00:03:22 | 00:00:31 | 00:06:12 | 1.00 (3) |
|  | **Temperature** | **00:19:04** | **00:11:10** | **00:26:57** | **0.08 (1)** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table 4.** Estimates for the parameters included in the top model set (ΔAICc < 5) for each response variable for dikdik. Interactions are denoted by ":", and bolded terms indicate significant variables (i.e., 95% CI do not overlap zero). Relative importance of each parameter is shown along with the number of models in the top model set that contain each variable (n). | | | | | |
| **Response** | **Parameter** | **Estimate** | **Lower**  **95% CI** | **Upper**  **95% CI** | **Variable**  **Importance (n)** |
| Distance to glades | Intercept | 0.0011 | 0.0005 | 0.0002 | — (1) |
| **Rainfall** | **-0.000027** | **-0.00003** | **-0.00002** | **1.00 (1)** |
| Duration  (minutes) | Intercept | 220.057 | 198.78 | 241.33 | — (4) |
| Denning (Yes) | -57.48 | -137.38 | 22.41 | 1.00 (4) |
| Moonlight before | 0.054 | -0.24 | 0.35 | 0.68 (2) |
| **Temperature (°C)** | **-1.33** | **-2.0066** | **-0.66** | **0.88 (3)** |
| Rainfall (mm) | -2.97 | -6.31 | 0.36 | 0.60 (1) |
| Rainfall:Temperature | 0.13 | 0.0040 | 0.25 | 0.60 (1) |
| **Denning:Temperature** | **5.015** | **2.83** | **7.19** | **0.58 (1)** |
| Intensity | Intercept | 51.43 | 46.78 | 56.076 | **— (3)** |
| **Denning (Yes)** | **1.56** | **0.14** | **0.16** | **0.89 (2)** |
| **Temperature (°C)** | **-0.26** | **-0.38** | **-0.14** | **0.57 (2)** |
| Start | Intercept | 06:31:41 | 06:24:07 | 06:39:14 | * (1) |
| **Denning (Yes)** | **-00:07:46** | **-00:06:14** | **-00:09:18** | **1(1)** |
| **Temperature (°C)** | **-00:01:15** | **-00:01:01** | **-00:01:29** | **0.99(1)** |
| Stop | Intercept | 09:54:52 | 09:20:48 | 10:28:56 | * (3) |
| **Denning (Yes)** | **00:13:25** | **00:09:37** | **00:17:14** | **0.57(2)** |
| **Temperature (°C)** | **-00:02:28** | **-00:01:53** | **-00:03:03** | **0.72(2)** |