Supplementary materials

**Safeguarding Asian tapir habitat in Sumatra, Indonesia**

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**Table S1**. Details of camera trap campaigns and total survey effort in each of nine landscapes surveyed in Sumatra.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Landscape** | **Government partner** | **Survey periods** | **Target species** | **Grid size (km)** | **Total stations** | **Camera trap/ station** | **Camera station description** | **Total trapdays** | **Trap spacing (km)** | **Description of human activities in the area** |
| Bukit Barisan Selatan | Wildlife Conservation Society | May- Nov 2015 | Tiger and prey | 3x3 | 63 | Pair | High probability to capture tiger | 8799 | 2,14 (1.51 – 46.47) | Illegal hunting, encroachment |
| Berbak Sembilang |  | Mar 2015 - May 2016 | Tiger and prey | 3x3 | 105 | Pair | High probability to capture tiger | 14178 | 2.15 (0.5 - 67.78) | Illegal hunting (low), encroachment (medium), fire forest (medium) |
| Dangku |  | Jan-Apr 2015 | Tiger and prey | 2x2 | 10 | Pair | Forest cover | 801 | 3.54 (1.82 - 18.42) | Illegal hunting (low), encroachment (medium), fire forest (medium) |
| Bukit Rimbang Bukit Baling |  | Aug-Dec 2015 | Tiger and prey | 2x2 | 72 | Pair | NA | 6913 | 2.24 (1.34 - 82.81) | Illegal hunting, encroachment |
| Tesso Nilo |  | Jul 2013-Oct 2015 | Tiger and prey, elephant | 2x2 | 25 | Pair | NA | 2364 | 2.52 (1.87 - 20.57) | Illegal hunting (low), encroachment (medium), fire forest (medium) |
| Kerinci Seblat | Fauna & Flora International, Andalas University | Mar 2016 -Feb 2017 | Tiger and prey | 3.5x3.5 | 75 | Pair, single | High probability to capture tiger | 9993 | 2.20 (0.9 - 123) | Illegal hunting, encroachment |
| Batang Toru | Sumatran Orangutan Conservation Program | Feb-Jun 2015 | Not specified | Not specified | 58 | Single | Primary and secondary forest | 1966 | 1.19 (1.03 - 11.78) | Not specified |
| Way Kambas | Sumatran Tiger Trust | Jun-Dec 2015 | Tiger and prey | 2x2 | 69 | Single | High probability to capture tiger | 7833 | 1.89 (1.04 - 30.21) | Illegal hunting, encroachment |
| Bukit Tigapuluh | Sumatran Tiger Trust, Frankfurt Zoological Society | Jun-Dec 2015 | Tiger and prey | 2x2 | 107 | Single | High probability to capture tiger | 7471 | 1.71 (1.01 - 63.41) | Illegal hunting, encroachment |

**Table S2.** The amount of critical and suitable tapir habitat predicted in protected and non-protected areas.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Status/Name** | **Area size (km2)** | **Landscape-specific prediction (km2)** | | **Sumatra-wide prediction  (km2)** | |
| **Critical**  **(20th percentile)** | **Suitable (60-20th percentile)** | **Critical**  **(20th percentile)** | **Suitable (60-20th percentile)** |
| Prediction |  |  |  |  |  |
| Suitable area |  |  |  | 15,363 | 28,525 |
| Protected areas |  | 5,997 | 12,466 | 5,431 | 11,998 |
| Arau Hilir & Air Terusan1 | 914 |  | - | 612 | 204 |
| Air Putih4 | 64 |  | - | 27 | 37 |
| Barisan1 | 41 |  | - | 23 | 23 |
| Barumun1 | 403 |  | - | 80 | 210 |
| Batang Gadis3 | 731 |  | - | 8 | 307 |
| Batang Pangean I, II2 | 483 |  | - | 129 | 266 |
| Berbak Sembilang3 | 4,118 | 2 | 208 | 37 | 434 |
| Bukit Barisan Selatan3 | 3,177 | 1,009 | 1,512 | 715 | 1,182 |
| Bukit Batu1 | 217 |  | - | 71 | 182 |
| Bukit Bungkuk2 | 140 |  | - | 102 | 124 |
| Bukit Duabelas3 | 551 |  | - | - | 1 |
| Bukit Kaba4 | 147 |  | - | 37 | 3 |
| Bukit Rabang5 | 5 |  | - | 1 | 1 |
| Bukit Rimbang Bukit Baling1 | 1,426 | 272 | 911 | 241 | 809 |
| Bukit Tigapuluh3 | 1,451 | - | 9 | - | 6 |
| Buluh Cina4 | 11 |  | - | 4 | 3 |
| Dangku1 | 483 | - | 31 | - | 36 |
| Dolok Sibual-buali2,\* | 50 | 390 | 1,351 | 45 | 9 |
| Dolok Sipirok2,\* | 72 |  | - | 53 | 56 |
| Dolok Surungan1 | 216 |  | - | 148 | 130 |
| Giam Siak Kecil1 | 787 |  | - | 21 | 147 |
| Gumai Pasemah1 | 482 |  | - | 87 | 198 |
| Gunung Marapi4 | 80 |  | - | 48 | 30 |
| Gunung Raya1 | 453 |  | - | 76 | 53 |
| Gunung Sago Malintang4 | 53 |  | - | - | 53 |
| Isau-isau Pasemah1 | 168 |  | - | 30 | 27 |
| Kerinci Seblat3 | 13,653 | 4,226 | 8,015 | 2,209 | 6,592 |
| Kerumutan1 | 953 |  | - | - | 7 |
| Lembah Anai2 | 3 |  | - | 1 | 2 |
| Lembah Harau2 | 41 |  | - | 22 | 14 |
| Lubuk Raya2,\* | 30 |  | - | 18 | 4 |
| Malampah Alahan Panjang1 | 394 |  | - | 220 | 131 |
| Maninjau2 | 220 |  | - | 118 | 34 |
| Mega Mendung4 | 1 |  | - | - | 1 |
| Orang Kayo Hitam5 | 183 |  | - | 38 | 79 |
| Rimbo Panti2,4 | 31 |  | - | 8 | 15 |
| Seblat4 | 78 |  | - | 1 | 9 |
| Singgalang Tandikek4 | 98 |  | - | 70 | 18 |
| Tasik Belat1 | 25 |  | - | - | 14 |
| Tasik Besar1 | 50 |  | - | - | 11 |
| Tasik Serkap-Tasik Sarang Burung 1 | 67 |  | - | - | 15 |
| Tesso Nilo3 | 822 | - | 41 | 6 | 159 |
| Wan Abdul Rahman5 | 218 |  | - | 26 | 8 |
| Way Kambas3 | 1,292 | 98 | 388 | 74 | 205 |
| Zamrud3 | 316 |  | - | 25 | 150 |
| Non-protected areas |  |  | - | 9,932 | 16,527 |
| Non-forest (*area penggunaan lain*) | 176,264 |  | - | 1,217 | 1,630 |
| Wastersheds-protected forests (*hutan lindung*) | 54,256 |  | - | 5,501 | 7,168 |
| Production forest (*hutan produksi*) | 63,146 |  | - | 1,179 | 3,322 |
| Convertible production forests (*hutan produksi konversi*) | 52,626 |  | - | 158 | 374 |
| Limited production forests (*hutan produksi terbatas*) | 38,361 |  | - | 1,877 | 4,033 |

Remark

|  |
| --- |
| 1 Wildlife reserve |
| 2 Nature reserve |
| 3 National park |
| 4 Nature recreational park |
| \*Batang Toru landscape |

A graph of different types of data

Description automatically generated**Figure S1.** The distributions of tapir presences and absences at camera trap localities in relation to each covariate used to model habitat suitability.