

**Data summary: individuals' characteristics, distances moved and use of roost sites over several time periods, for 14 satellite-tracked *Pteropus poliocephalus*. All distances are between day roost sites, except for the longest day-night step, which can be between day roost and night feeding sites.**

| <b>Flying-fox number</b>                          | <b>78188</b> | <b>78189</b> | <b>78190</b> | <b>78191</b> | <b>78186B</b> | <b>81072</b> | <b>81073</b> | <b>81074</b> | <b>80187</b> | <b>80188</b> | <b>80189</b> | <b>80190</b> | <b>80191</b> | <b>80192</b> | <b>Mean</b> | <b>SD</b> |
|---|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------|
| Capture site                                      | Stafford     | Stafford     | Canungra     | Canungra     | Dunwich       | Fraser       | Dunwich      | Dunwich      | Dunwich      | Fraser       | Fraser       | Fraser       | Dunwich      | Fraser       | -           | -         |
| Weight (g)  | 660          | 660          | 739          | 696          | 845           | 827          | 815          | 825          | 822          | 740          | 789          | 798          | 615          | 764          | -           | -         |
| Forearm length (mm)                               | 159          | 159          | 172          | 164          | 164           | 171          | 170          | 165          | 168          | 162          | 160          | 162          | 156          | 166          | -           | -         |
| Date of deployment                                | 18/10/07     | 17/10/07     | 16/10/07     | 16/10/07     | 20/6/08       | 30/6/08      | 22/6/08      | 22/6/08      | 22/6/08      | 30/6/08      | 30/6/08      | 1/7/08       | 21/6/08      | 30/6/08      | -           | -         |
| End date  | 31/10/07     | 28/1/08      | 18/4/08      | 11/6/08      | 9/12/08       | 14/3/09      | 26/12/08     | 18/11/08     | 27/11/08     | 9/2/09       | 1/4/09       | 7/12/08      | 28/3/09      | 24/9/08      | -           | -         |
| Transmission days <sup>1</sup>                    | 13           | 101          | 182          | 235          | 169           | 254          | 184          | 146          | 155          | 219          | 271          | 156          | 277          | 84           | 175         | 75        |
| No. of days with location data <sup>2</sup>       | 8            | 41           | 54           | 106          | 55            | 94           | 99           | 76           | 82           | 87           | 125          | 82           | 154          | 35           | 78          | 38        |
| Useable roost fixes <sup>3</sup>                  | 9            | 75           | 45           | 324          | 50            | 122          | 219          | 120          | 202          | 128          | 255          | 161          | 322          | 59           | 149         | 102       |
| Net overall displacement km <sup>4</sup>          | 183          | 183          | 158          | 0            | 284           | 378          | 739          | 278          | 63           | 119          | 312          | 78           | 33           | 94           | 207         | 190       |
| Max displacement km/days <sup>5</sup>             | 183/5        | 195/39       | 377/137      | 454/53       | 576/5         | 855/119      | 739/94       | 327/95       | 63/19        | 329/209      | 547/181      | 234/64       | 93/173       | 94/2         |             |           |
| Cumulative overall displacement km <sup>6</sup>   | 195          | 241          | 702          | 1025         | 1121          | 1562         | 1102         | 840          | 172          | 763          | 1652         | 980          | 489          | 194          | 788         | 491       |
| Max. step size km in all data/days <sup>7</sup>   | 125/2        | 110/5        | 190/5        | 193/5        | 576/5         | 349/17       | 335/5        | 165/5        | 42/2         | 199/3        | 166/2        | 126/3        | 49/2         | 94/2         |             |           |
| Median step size km in 2 days/N <sup>8</sup>      | 125/1        | 30/1         | -            | 51/4         | -             | 85/2         | 23/3         | 13/10        | 15/3         | 31/7         | 40/9         | 45/9         | 10/14        | 94/1         | 47          | 36        |
| Min. step size km in 2 days/N <sup>9</sup>        | 125/1        | 30/1         | -            | 22/4         | -             | 36/2         | 13/3         | 12*/10       | 15/3         | 18*/7        | 29/9         | 3*/9         | 4/14         | 94/1         | 33          | 38        |
| Max. step size km in 2 days/N <sup>10</sup>       | 125/1        | 30/1         | -            | 155/4        | -             | 134/2        | 146/3        | 96/10        | 42/2         | 166/7        | 166/9        | 103/9        | 49/14        | 94/1         | 109         | 48        |
| Longest day-night step km in 2 days <sup>11</sup> | 125          | 44           | 230          | 205          | 500           | 259          | 336          | 175          | 42           | 166          | 166          | 123          | 49           | 79           | 179         | 126       |
| N for 1-week periods                              | 2            | 14           | 25           | 34           | 19            | 29           | 26           | 21           | 22           | 29           | 39           | 22           | 40           | 11           |             |           |
| Net displacement km/week <sup>12</sup>            | 98           | 21           | 26           | 32           | 60            | 53           | 37           | 31           | 5            | 24           | 39           | 27           | 12           | 17           | 34          | 23        |

|  |     |     |     |      |      |      |      |      |     |      |        |      |      |     |      |     |
|--|-----|-----|-----|------|------|------|------|------|-----|------|--------|------|------|-----|------|-----|
| No. roost sites used in 1 week <sup>13</sup>   | 2.0 | 1.0 | 1.3 | 1.4  | 1.0  | 1.4  | 1.4  | 1.8  | 1.4 | 1.4  | 1.5    | 1.8  | 2.0  | 1.4 | 1.5  | 0.3 |
| Cumulative km in 1 week <sup>14</sup>          | 98  | 21  | 26  | 32   | 64   | 52   | 42   | 39   | 8   | 26   | 42     | 47   | 12   | 18  | 38   | 23  |
| N for 5-week periods                           | -   | 2   | 5   | 6    | 4    | 6    | 5    | 4    | 4   | 6    | 8      | 4    | 8    | 2   |      |     |
| Net displacement km in 5 weeks <sup>12</sup>   | -   | 74  | 51  | 59   | 259  | 149  | 150  | 117  | 16  | 89   | 105    | 96   | 21   | 38  | 94   | 66  |
| No. roost sites used in 5 weeks <sup>13</sup>  | -   | 2.5 | 2.2 | 2.7  | 2.5  | 2.7  | 3.0  | 4.0  | 2.3 | 2.8  | 3.3    | 3.5  | 2.9  | 3.0 | 2.9  | 0.5 |
| Cumulative km in 5 weeks <sup>14</sup>         | -   | 110 | 137 | 153  | 280  | 210  | 220  | 194  | 43  | 117  | 206.5  | 251  | 61   | 83  | 159  | 74  |
| N for 10-week periods                          | -   | 1   | 2   | 3    | 2    | 3    | 2    | 2    | 2   | 3    | 4      | 2    | 4    | 1   |      |     |
| Net displacement km in 10 weeks <sup>12</sup>  | -   | 195 | 18  | 114  | 466  | 301  | 372  | 127  | 32  | 169  | 186    | 147  | 40   | 72  | 172  | 136 |
| No. roost sites used in 10 weeks <sup>13</sup> | -   | 4.0 | 2.5 | 4.3  | 3.5  | 4.0  | 5.0  | 6.5  | 3.0 | 4.7  | 5.0    | 6.0  | 4.3  | 5.0 | 4.4  | 1.1 |
| Max displacement km in 10 weeks <sup>15</sup>  | -   | 195 | 35  | 454  | 576  | 679  | 627  | 208  | 63  | 199  | 300    | 232  | 54   | 94  | 286  | 226 |
| Max. step size km in 10 weeks <sup>16</sup>    | -   | 110 | 35  | 193  | 576  | 349  | 335  | 165  | 42  | 199  | 166    | 126  | 46   | 94  | 187  | 154 |
| Cumulative km in 10 weeks <sup>14</sup>        | -   | 216 | 125 | 306  | 561  | 419  | 537  | 388  | 86  | 234  | 413    | 503  | 122  | 165 | 313  | 167 |
| N for 20-week periods                          | -   | -   | 1   | 1    | 1    | 1    | 1    | 1    | 1   | 1    | 2      | 1    | 2    | -   |      |     |
| Net displacement km in 20 weeks <sup>12</sup>  | -   | -   | 27  | 120  | 333  | 82   | 742  | 240  | 64  | 90   | 165    | 56   | 41   | -   | 178  | 209 |
| No. roost sites used in 20 weeks <sup>13</sup> | -   | -   | 3.0 | 2.0  | 6.0  | 6.0  | 9.0  | 12.0 | 5.0 | 10.0 | 8.5    | 9.0  | 6.0  | -   | 7.0  | 3.0 |
| Cumulative km in 20 weeks <sup>14</sup>        | -   | -   | 135 | 120  | 1121 | 436  | 1074 | 776  | 172 | 618  | 826    | 1005 | 245  | -   | 593  | 390 |
| N for 30-week periods                          | -   | -   | -   | 1    | -    | 1    | -    | -    | -   | 1    | 1      | -    | 1    | -   |      |     |
| Net displacement km in 30 weeks <sup>12</sup>  | -   | -   | -   | 107  | -    | 576  | -    | -    | -   | 158  | 357.00 | -    | 36   | -   | 247  | 219 |
| No. roost sites used in 30 weeks <sup>13</sup> | -   | -   | -   | 10.0 | -    | 10.0 | -    | -    | -   | 12.0 | 10.0   | -    | 10.0 | -   | 10.4 | 0.9 |
| Cumulative km in 30 weeks <sup>14</sup>        | -   | -   | -   | 919  | -    | 821  | -    | -    | -   | 703  | 1059   | -    | 489  | -   | 798  | 217 |

- <sup>1</sup> The total number of days from the date of deployment until the unit ceased functioning or until bat activity ceased (end date).
- <sup>2</sup> The number of days throughout the transmission period that bats were detected during daylight hours (between sunrise and sunset).
- <sup>3</sup> The total number of fixes used for analysis; this included only securitised records with accuracy <2 km and located at a feasible roost site.
- <sup>4</sup> The distance in km between the roost at which the individual was captured and its last recorded roost, during the lifespan of the transmitter.
- <sup>5</sup> The furthest distance between any two recorded roosts during the lifespan of the transmitter and the no. of days between those fixes.
- <sup>6</sup> The sum of all sequential distances between consecutive recorded roost sites throughout the study.
- <sup>7</sup> The maximum inter-roost distance across all consecutive pairs of different recorded roosts during the lifespan of the transmitter, and the no. of days between those fixes; (total N = 167 steps across all individuals).
- <sup>8</sup> The median inter-roost distance across all consecutive pairs of different recorded roosts that were separated by 2 days, and the no. of such steps for each individual.
- <sup>9</sup> The minimum inter-roost distance across all consecutive pairs of different recorded roosts that were separated by 2 days, and the no. of such steps for each individual; asterisked records show movements involving temporary roosts.
- <sup>10</sup> The maximum inter-roost distance across all consecutive pairs of recorded roosts that were separated by 2 days, and the no. of such steps for each individual.
- <sup>11</sup> The maximum distance between consecutive useable fixes, recorded as either night feeding locations or day roost sites, which were separated by 2 days.
- <sup>12</sup> The distance in km between the first and last roost sites during five time-periods; one week, five weeks, 10 weeks, 20 weeks and 30 weeks; for each time-period this measurement is the average across N (as shown) timed movements for each individual.
- <sup>13</sup> The average number of different recorded roost sites during five time-periods; one week, five weeks, 10 weeks, 20 weeks and 30 weeks; for each time-period this measurement is the average across N (as shown) timed movements for each individual.
- <sup>14</sup> The sum of all sequential distances between consecutive recorded roost sites during five time-periods; one week, five weeks, 10 weeks, 20 weeks and 30 weeks; for each time-period this measurement is the average across N (as shown) timed movements for each individual.
- <sup>15</sup> The furthest distance between any two recorded roosts during time-periods of 10 weeks; this measurement is the maximum across N (as shown) 10-week movements for each individual.
- <sup>16</sup> The maximum inter-roost distance across all consecutive pairs of different recorded roosts during time-periods of 10 weeks; this measurement is the maximum across N (as shown) 10-week movements for each individual.