

1 Supporting Information for:  
2 Funnel web spiders are a menace  
3

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## 6 SUPPLEMENTARY FIGURES

**Table S1** Summary of observation data along each transect. Data show the number of spider holes observed ( $n$ ) and that predicted by the open n-mixture model ( $\hat{n}$ ). Dashes indicate that certain transects were not sampled during certain time periods.

| Transect | Date       | $n$ | $\hat{n}$ | Start time          | End time            | Search time |
|----------|------------|-----|-----------|---------------------|---------------------|-------------|
| 1        | 11/07/2016 | 9   | 22.58     | 2021-03-16 12:41:14 | 2021-03-16 13:33:10 | 51.93       |
| 1        | 12/07/2016 | 2   | 22.58     | 2021-03-16 13:21:49 | 2021-03-16 13:56:23 | 34.57       |
| 1        | 13/07/2016 | 3   | 22.58     | 2021-03-16 13:18:21 | 2021-03-16 13:54:56 | 36.58       |
| 1        | 14/07/2016 | 5   | 22.58     | 2021-03-16 12:59:00 | 2021-03-16 13:19:32 | 20.53       |
| 1        | 16/07/2016 | 1   | 22.58     | 2021-03-16 12:49:50 | 2021-03-16 12:50:09 | 0.32        |
| 1        | 17/07/2016 | 1   | 22.58     | 2021-03-16 15:06:28 | 2021-03-16 15:17:49 | 11.35       |
| 1        | 18/07/2016 | 4   | 22.58     | 2021-03-16 16:07:53 | 2021-03-16 16:27:37 | 19.73       |
| 1        | 19/07/2016 | 2   | 22.58     | 2021-03-16 16:15:31 | 2021-03-16 16:26:57 | 11.43       |
| 2        | 11/07/2016 | 0   | 9.88      | —                   | —                   | —           |
| 2        | 12/07/2016 | 0   | 9.88      | —                   | —                   | —           |
| 2        | 13/07/2016 | 1   | 9.88      | 2021-03-16 15:34:22 | 2021-03-16 15:51:44 | 17.37       |
| 2        | 14/07/2016 | 0   | 9.88      | —                   | —                   | —           |
| 2        | 16/07/2016 | 0   | 9.88      | —                   | —                   | —           |
| 2        | 17/07/2016 | 0   | 9.88      | —                   | —                   | —           |
| 2        | 18/07/2016 | 3   | 9.88      | 2021-03-16 16:11:03 | 2021-03-16 16:29:19 | 18.27       |
| 2        | 19/07/2016 | 1   | 9.88      | 2021-03-16 16:02:17 | 2021-03-16 16:15:20 | 13.05       |
| 3        | 11/07/2016 | 3   | 16.60     | 2021-03-16 13:40:26 | 2021-03-16 13:55:47 | 15.35       |
| 3        | 12/07/2016 | 4   | 16.60     | 2021-03-16 14:01:49 | 2021-03-16 14:27:07 | 25.3        |
| 3        | 13/07/2016 | 0   | 16.60     | —                   | —                   | —           |
| 3        | 14/07/2016 | 2   | 16.60     | 2021-03-16 13:24:18 | 2021-03-16 13:37:52 | 13.57       |
| 3        | 16/07/2016 | 0   | 16.60     | —                   | —                   | —           |
| 3        | 17/07/2016 | 2   | 16.60     | 2021-03-16 14:50:59 | 2021-03-16 15:00:35 | 9.6         |
| 3        | 18/07/2016 | 0   | 16.60     | —                   | —                   | —           |
| 3        | 19/07/2016 | 5   | 16.60     | 2021-03-16 15:48:23 | 2021-03-16 16:04:53 | 16.5        |
| 4        | 11/07/2016 | 0   | 20.20     | —                   | —                   | —           |
| 4        | 12/07/2016 | 1   | 20.20     | 2021-03-16 13:42:56 | 2021-03-16 14:07:42 | 24.77       |
| 4        | 13/07/2016 | 10  | 20.20     | 2021-03-16 15:03:05 | 2021-03-16 15:27:27 | 24.37       |
| 4        | 14/07/2016 | 0   | 20.20     | —                   | —                   | —           |
| 4        | 16/07/2016 | 0   | 20.20     | —                   | —                   | —           |
| 4        | 17/07/2016 | 0   | 20.20     | —                   | —                   | —           |
| 4        | 18/07/2016 | 9   | 20.20     | 2021-03-16 15:41:38 | 2021-03-16 16:05:55 | 24.28       |
| 4        | 19/07/2016 | 0   | 20.20     | —                   | —                   | —           |
| 5        | 11/07/2016 | 0   | 33.18     | —                   | —                   | —           |
| 5        | 12/07/2016 | 1   | 33.18     | 2021-03-16 14:31:51 | 2021-03-16 14:51:48 | 19.95       |
| 5        | 13/07/2016 | 13  | 33.18     | 2021-03-16 14:29:10 | 2021-03-16 15:04:47 | 35.62       |
| 5        | 14/07/2016 | 4   | 33.18     | 2021-03-16 13:42:17 | 2021-03-16 14:08:01 | 25.73       |
| 5        | 16/07/2016 | 1   | 33.18     | 2021-03-16 15:06:26 | 2021-03-16 15:22:18 | 15.87       |
| 5        | 17/07/2016 | 9   | 33.18     | 2021-03-16 14:05:30 | 2021-03-16 14:45:28 | 39.97       |
| 5        | 18/07/2016 | 12  | 33.18     | 2021-03-16 15:01:55 | 2021-03-16 15:35:24 | 33.48       |
| 5        | 19/07/2016 | 10  | 33.18     | 2021-03-16 15:19:08 | 2021-03-16 15:43:15 | 24.12       |
| 6        | 11/07/2016 | 0   | 24.44     | —                   | —                   | —           |
| 6        | 12/07/2016 | 1   | 24.44     | 2021-03-16 14:13:50 | 2021-03-16 14:40:41 | 26.85       |
| 6        | 13/07/2016 | 3   | 24.44     | 2021-03-16 14:33:04 | 2021-03-16 14:55:57 | 22.88       |
| 6        | 14/07/2016 | 0   | 24.44     | —                   | —                   | —           |
| 6        | 16/07/2016 | 0   | 24.44     | —                   | —                   | —           |
| 6        | 17/07/2016 | 1   | 24.44     | 2021-03-16 14:28:32 | 2021-03-16 14:53:21 | 24.82       |
| 6        | 18/07/2016 | 12  | 24.44     | 2021-03-16 15:01:39 | 2021-03-16 15:36:19 | 34.67       |

| Transect | Date       | $n$ | $\hat{n}$ | Start time          | End time            | Search time |
|----------|------------|-----|-----------|---------------------|---------------------|-------------|
| 6        | 19/07/2016 | 10  | 24.44     | 2021-03-16 14:44:44 | 2021-03-16 15:37:01 | 52.28       |
| 7        | 11/07/2016 | 7   | 35.32     | 2021-03-16 14:39:15 | 2021-03-16 14:57:43 | 18.47       |
| 7        | 12/07/2016 | 7   | 35.32     | 2021-03-16 14:57:30 | 2021-03-16 15:19:42 | 22.2        |
| 7        | 13/07/2016 | 3   | 35.32     | 2021-03-16 15:11:38 | 2021-03-16 15:29:38 | 18          |
| 7        | 14/07/2016 | 9   | 35.32     | 2021-03-16 14:13:36 | 2021-03-16 14:41:43 | 28.12       |
| 7        | 16/07/2016 | 9   | 35.32     | 2021-03-16 14:29:50 | 2021-03-16 15:00:41 | 30.85       |
| 7        | 17/07/2016 | 10  | 35.32     | 2021-03-16 13:25:34 | 2021-03-16 13:54:31 | 28.95       |
| 7        | 18/07/2016 | 7   | 35.32     | 2021-03-16 14:03:26 | 2021-03-16 15:01:44 | 58.3        |
| 7        | 19/07/2016 | 4   | 35.32     | 2021-03-16 14:41:23 | 2021-03-16 14:44:00 | 2.62        |
| 8        | 11/07/2016 | 7   | 57.64     | 2021-03-16 14:53:49 | 2021-03-16 15:12:58 | 19.15       |
| 8        | 12/07/2016 | 1   | 57.64     | 2021-03-16 14:45:38 | 2021-03-16 15:01:25 | 15.78       |
| 8        | 13/07/2016 | 6   | 57.64     | 2021-03-16 13:54:57 | 2021-03-16 14:26:20 | 31.38       |
| 8        | 14/07/2016 | 7   | 57.64     | 2021-03-16 13:48:27 | 2021-03-16 14:16:58 | 28.52       |
| 8        | 16/07/2016 | 9   | 57.64     | 2021-03-16 14:34:08 | 2021-03-16 15:17:15 | 43.12       |
| 8        | 17/07/2016 | 6   | 57.64     | 2021-03-16 13:41:05 | 2021-03-16 14:23:33 | 42.47       |
| 8        | 18/07/2016 | 44  | 57.64     | 2021-03-16 13:58:36 | 2021-03-16 14:57:48 | 59.2        |
| 8        | 19/07/2016 | 11  | 57.64     | 2021-03-16 14:41:54 | 2021-03-16 15:15:00 | 33.1        |
| 9        | 11/07/2016 | 0   | 134.54    | —                   | —                   | —           |
| 9        | 12/07/2016 | 0   | 134.54    | —                   | —                   | —           |
| 9        | 13/07/2016 | 0   | 134.54    | —                   | —                   | —           |
| 9        | 14/07/2016 | 2   | 134.54    | 2021-03-16 15:51:20 | 2021-03-16 16:03:36 | 12.27       |
| 9        | 16/07/2016 | 82  | 134.54    | 2021-03-16 14:45:29 | 2021-03-16 15:59:50 | 74.35       |
| 9        | 17/07/2016 | 0   | 134.54    | —                   | —                   | —           |
| 9        | 18/07/2016 | 8   | 134.54    | 2021-03-16 15:45:25 | 2021-03-16 15:51:17 | 5.87        |
| 9        | 19/07/2016 | 118 | 134.54    | 2021-03-16 13:58:54 | 2021-03-16 16:09:30 | 130.6       |
| 10       | 11/07/2016 | 0   | 106.58    | —                   | —                   | —           |
| 10       | 12/07/2016 | 0   | 106.58    | —                   | —                   | —           |
| 10       | 13/07/2016 | 16  | 106.58    | 2021-03-16 15:12:28 | 2021-03-16 15:46:46 | 34.3        |
| 10       | 14/07/2016 | 0   | 106.58    | —                   | —                   | —           |
| 10       | 16/07/2016 | 16  | 106.58    | 2021-03-16 15:01:38 | 2021-03-16 15:24:52 | 23.23       |
| 10       | 17/07/2016 | 56  | 106.58    | 2021-03-16 14:53:20 | 2021-03-16 15:38:15 | 44.92       |
| 10       | 18/07/2016 | 70  | 106.58    | 2021-03-16 15:37:30 | 2021-03-16 15:58:17 | 20.78       |
| 10       | 19/07/2016 | 58  | 106.58    | 2021-03-16 15:13:53 | 2021-03-16 15:35:59 | 22.1        |
| 11       | 11/07/2016 | 8   | 236.86    | 2021-03-16 14:42:46 | 2021-03-16 14:53:51 | 11.08       |
| 11       | 12/07/2016 | 210 | 236.86    | 2021-03-16 15:39:31 | 2021-03-16 16:12:12 | 32.68       |
| 11       | 13/07/2016 | 86  | 236.86    | 2021-03-16 15:19:19 | 2021-03-16 15:48:56 | 29.62       |
| 11       | 14/07/2016 | 94  | 236.86    | 2021-03-16 15:13:50 | 2021-03-16 15:44:43 | 30.88       |
| 11       | 16/07/2016 | 2   | 236.86    | 2021-03-16 14:36:08 | 2021-03-16 14:36:45 | 0.62        |
| 11       | 17/07/2016 | 16  | 236.86    | 2021-03-16 14:54:42 | 2021-03-16 15:06:25 | 11.72       |
| 11       | 18/07/2016 | 10  | 236.86    | 2021-03-16 15:32:52 | 2021-03-16 15:38:41 | 5.82        |
| 11       | 19/07/2016 | 80  | 236.86    | 2021-03-16 15:12:32 | 2021-03-16 15:50:20 | 37.8        |
| 12       | 11/07/2016 | 0   | 204.64    | —                   | —                   | —           |
| 12       | 12/07/2016 | 24  | 204.64    | 2021-03-16 15:27:24 | 2021-03-16 15:39:16 | 11.87       |
| 12       | 13/07/2016 | 16  | 204.64    | 2021-03-16 14:50:46 | 2021-03-16 15:12:21 | 21.58       |
| 12       | 14/07/2016 | 188 | 204.64    | 2021-03-16 15:08:02 | 2021-03-16 15:55:52 | 47.83       |
| 12       | 16/07/2016 | 14  | 204.64    | 2021-03-16 14:34:33 | 2021-03-16 14:54:20 | 19.78       |
| 12       | 17/07/2016 | 24  | 204.64    | 2021-03-16 14:28:54 | 2021-03-16 14:46:58 | 18.07       |
| 12       | 18/07/2016 | 58  | 204.64    | 2021-03-16 15:06:16 | 2021-03-16 15:31:37 | 25.35       |
| 12       | 19/07/2016 | 56  | 204.64    | 2021-03-16 14:45:24 | 2021-03-16 15:08:56 | 23.53       |
| 13       | 11/07/2016 | 26  | 123.36    | 2021-03-16 14:20:10 | 2021-03-16 14:35:38 | 15.47       |
| 13       | 12/07/2016 | 70  | 123.36    | 2021-03-16 15:00:45 | 2021-03-16 15:39:26 | 38.68       |
| 13       | 13/07/2016 | 0   | 123.36    | —                   | —                   | —           |
| 13       | 14/07/2016 | 90  | 123.36    | 2021-03-16 14:33:43 | 2021-03-16 15:09:11 | 35.47       |
| 13       | 16/07/2016 | 14  | 123.36    | 2021-03-16 14:10:00 | 2021-03-16 14:29:36 | 19.6        |
| 13       | 17/07/2016 | 6   | 123.36    | 2021-03-16 14:14:42 | 2021-03-16 14:46:33 | 31.85       |

| Transect | Date       | $n$ | $\hat{n}$ | Start time          | End time            | Search time |
|----------|------------|-----|-----------|---------------------|---------------------|-------------|
| 13       | 18/07/2016 | 32  | 123.36    | 2021-03-16 14:40:48 | 2021-03-16 15:00:42 | 19.9        |
| 13       | 19/07/2016 | 24  | 123.36    | 2021-03-16 14:43:45 | 2021-03-16 15:12:19 | 28.57       |
| 14       | 11/07/2016 | 38  | 118.62    | 2021-03-16 14:24:06 | 2021-03-16 15:20:13 | 56.12       |
| 14       | 12/07/2016 | 48  | 118.62    | 2021-03-16 14:54:38 | 2021-03-16 15:18:29 | 23.85       |
| 14       | 13/07/2016 | 22  | 118.62    | 2021-03-16 14:25:27 | 2021-03-16 14:41:53 | 16.43       |
| 14       | 14/07/2016 | 0   | 118.62    | —                   | —                   | —           |
| 14       | 16/07/2016 | 18  | 118.62    | 2021-03-16 14:22:20 | 2021-03-16 14:28:53 | 6.55        |
| 14       | 17/07/2016 | 22  | 118.62    | 2021-03-16 14:00:50 | 2021-03-16 14:22:26 | 21.6        |
| 14       | 18/07/2016 | 68  | 118.62    | 2021-03-16 14:37:23 | 2021-03-16 15:01:09 | 23.77       |
| 14       | 19/07/2016 | 60  | 118.62    | 2021-03-16 14:07:05 | 2021-03-16 14:40:19 | 33.23       |
| 15       | 11/07/2016 | 20  | 99.20     | 2021-03-16 13:49:59 | 2021-03-16 14:15:57 | 25.97       |
| 15       | 12/07/2016 | 30  | 99.20     | 2021-03-16 13:39:33 | 2021-03-16 14:55:25 | 75.87       |
| 15       | 13/07/2016 | 58  | 99.20     | 2021-03-16 13:54:05 | 2021-03-16 14:46:04 | 51.98       |
| 15       | 14/07/2016 | 52  | 99.20     | 2021-03-16 13:49:20 | 2021-03-16 14:27:59 | 38.65       |
| 15       | 16/07/2016 | 6   | 99.20     | 2021-03-16 13:46:52 | 2021-03-16 14:02:55 | 16.05       |
| 15       | 17/07/2016 | 6   | 99.20     | 2021-03-16 13:36:43 | 2021-03-16 14:09:14 | 32.52       |
| 15       | 18/07/2016 | 14  | 99.20     | 2021-03-16 14:14:33 | 2021-03-16 14:32:28 | 17.92       |
| 15       | 19/07/2016 | 32  | 99.20     | 2021-03-16 13:51:16 | 2021-03-16 14:43:33 | 52.28       |
| 16       | 11/07/2016 | 0   | 97.94     | —                   | —                   | —           |
| 16       | 12/07/2016 | 22  | 97.94     | 2021-03-16 13:39:39 | 2021-03-16 14:26:27 | 46.8        |
| 16       | 13/07/2016 | 10  | 97.94     | 2021-03-16 13:57:53 | 2021-03-16 14:21:07 | 23.23       |
| 16       | 14/07/2016 | 76  | 97.94     | 2021-03-16 13:36:44 | 2021-03-16 14:31:50 | 55.1        |
| 16       | 16/07/2016 | 4   | 97.94     | 2021-03-16 13:57:45 | 2021-03-16 14:10:33 | 12.8        |
| 16       | 17/07/2016 | 24  | 97.94     | 2021-03-16 13:27:44 | 2021-03-16 13:54:01 | 26.28       |
| 16       | 18/07/2016 | 14  | 97.94     | 2021-03-16 13:52:31 | 2021-03-16 14:32:24 | 39.88       |
| 16       | 19/07/2016 | 42  | 97.94     | 2021-03-16 13:43:04 | 2021-03-16 14:06:49 | 23.75       |