**Supplementary Material**

Population trends of the Black-faced Spoonbill Platalea minor: analysis of data from international synchronised censuses

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Table S1. Raw data of the synchronised surveys of wintering Black-faced Spoonbills conducted at 42 sites between 1997 and 2014. The numbers correspond to the sites in Table 1. Blank spaces indicate surveys were not conducted.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site no.** | **1997** | **1998** | **1999** | **2000** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **2014** |
| 1 | 15 | 25 | 24 | 26 | 31 | 35 | 27 | 34 | 44 | 45 | 66 | 46 | 33 | 42 | 63 | 59 | 62 | 55 |
| 2 |  |  |  |  |  |  | 0 | 1 | 0 |  | 1 | 5 | 5 | 9 | 5 | 11 | 6 | 18 |
| 3 | 5 | 14 | 15 | 25 | 30 | 18 | 34 | 64 | 44 | 42 | 68 | 85 | 84 | 106 | 78 | 72 | 79 | 106 |
| 4 |  |  |  |  | 3 | 2 | 5 | 6 | 4 | 10 | 7 | 8 | 10 | 10 | 20 | 19 | 25 | 25 |
| 5 |  |  |  |  |  |  | 11 |  | 4 | 0 | 0 |  |  | 0 | 0 | 0 |  | 0 |
| 6 | 8 | 20 | 12 | 22 | 19 | 22 | 27 | 25 | 27 | 31 | 35 | 30 | 28 | 34 | 36 | 47 | 29 | 37 |
| 7 |  | 10 | 4 | 14 | 2 | 21 | 16 | 18 | 17 | 20 | 15 | 19 | 15 | 11 | 20 | 14 | 23 | 35 |
| 8 | 1 | 0 | 3 |  | 5 | 4 | 4 | 4 | 11 | 5 | 7 | 3 | 12 | 16 | 12 | 14 | 26 | 28 |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 | 1 | 3 | 0 |
| 10 |  |  |  |  |  |  |  |  | 1 |  |  |  | 2 | 0 | 0 | 0 |  | 0 |
| 11 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 0 | 0 | 0 |  | 0 |
| 12 |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  | 2 | 0 | 0 |  | 1 |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 1 | 0 | 0 | 0 |
| 14 | 3 | 4 |  |  |  |  |  |  |  |  |  |  |  | 2 | 0 | 0 |  | 0 |
| 15 |  |  |  |  |  |  |  |  | 4 |  |  |  |  | 0 | 0 | 0 | 2 | 3 |
| 16 |  |  |  |  |  |  |  | 1 |  |  |  | 3 | 3 | 0 | 0 | 0 |  | 0 |
| 17 | 4 | 2 |  | 0 |  |  |  |  |  |  | 20 | 6 | 2 | 69 | 36 | 227 | 266 | 215 |
| 18 | 298 | 321 | 363 | 380 | 425 | 583 | 562 | 628 | 741 | 815 | 754 | 1011 | 1081 | 1185 | 767 | 1307 | 1312 | 1246 |
| 19 |  |  |  |  |  |  |  |  |  |  | 5 | 2 |  | 0 | 12 | 7 | 15 | 157 |
| 20 |  |  | 1 | 10 |  |  |  |  |  |  |  |  | 1 | 0 | 1 | 0 | 0 | 3 |
| 21 |  |  |  |  |  |  |  |  |  | 2 | 4 | 4 | 3 | 6 | 5 | 5 | 0 | 5 |
| 22 | 16 | 25 | 14 | 20 | 21 | 29 | 22 | 23 | 21 | 21 | 20 | 28 | 25 | 27 | 26 | 30 | 16 | 16 |
| 23 | 38 | 2 |  | 2 | 72 | 23 | 16 | 20 | 21 | 5 | 5 | 1 |  |  | 0 | 0 |  | 1 |
| 24 |  |  |  |  |  |  |  | 2 | 8 | 4 | 9 |  | 2 | 0 | 2 | 2 | 2 | 4 |
| 25 |  |  |  |  |  |  |  |  |  |  |  | 2 | 0 | 0 | 1 | 6 | 5 | 0 |
| 26 |  |  |  |  |  |  |  | 1 | 11 | 15 | 23 | 3 | 12 | 8 | 11 | 1 | 0 | 12 |
| 27 |  |  |  |  |  |  |  |  |  |  | 2 |  | 18 | 0 | 1 | 21 | 4 | 18 |
| 28 |  |  |  |  |  |  |  |  | 52 | 50 | 59 | 112 | 69 | 95 | 41 | 113 | 43 | 3 |
| 29 |  |  |  |  |  |  |  | 0 | 0 | 4 | 2 |  |  |  | 0 | 0 |  | 0 |
| 30 |  |  |  |  |  |  |  |  | 0 | 0 | 0 | 10 |  | 2 | 0 | 3 | 1 | 15 |
| 31 |  |  |  |  |  |  |  |  | 39 | 56 | 72 | 98 | 71 | 72 | 74 | 81 | 72 | 128 |
| 32 | 101 | 113 | 96 | 90 | 177 | 139 | 203 | 243 | 311 | 346 | 356 | 369 | 335 | 462 | 411 | 393 | 351 | 252 |
| 33 |  |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |  | 2 | 2 | 2 | 8 | 13 | 11 |
| 34 | 13 | 9 | 12 | 6 | 36 | 37 | 46 | 50 | 39 | 51 | 48 | 50 | 52 | 39 | 49 | 51 | 48 | 60 |
| 35 | 4 | 3 |  |  |  | 0 |  | 1 | 0 | 1 | 0 |  |  | 0 | 0 | 0 | 0 | 0 |
| 36 |  |  |  |  |  |  |  | 10 | 9 | 5 | 8 | 11 | 8 | 7 |  |  |  |  |
| 37 |  |  |  |  |  |  |  | 51 | 68 | 0 | 36 | 82 | 67 | 46 | 57 | 31 | 32 | 36 |
| 38 |  |  |  |  |  | 3 |  |  | 0 | 0 | 0 |  |  | 0 |  |  |  |  |
| 39 |  | 0 | 1 | 4 | 0 |  | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |
| 40 | 0 |  | 31 | 42 | 47 | 51 | 65 | 15 | 56 | 74 | 45 | 49 | 63 | 46 | 49 | 35 | 39 | 40 |
| 41 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 0 | 0 | 0 |  | 0 |
| 42 | 　 | 　 | 　 | 　 | 　 | 　 | 3 | 2 | 　 | 　 | 　 | 2 | 3 | 1 | 1 | 2 | 1 | 0 |

Table S2. The classification of site covariates in the 19 sites that the data were analysed in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Site no. | Location | Protection status | Habitat loss and degradation | Human disturbance |
| 1 | Fukuoka Prefecture, Japan | Protected | Low | Low |
| 2 | Saga Prefecture, Japan | Protected | Low | Low |
| 3 | Kumamoto Prefecture, Japan | Protected | Low | Low |
| 4 | Miyazaki Prefecture, Japan | Protected | Low | Low |
| 6 | Kagoshima Prefecture, Japan | Protected | Low | High |
| 7 | Okinawa Prefecture, Japan | Protected | Low | Low |
| 8 | Ilan, Taiwan | Protected | Low | Low |
| 17 | Chiayi, Taiwan | Protected | Low | Low |
| 18 | Tainan, Taiwan | Protected | Low | Low |
| 22 | Jeju, South Korea | Unprotected | Low | High |
| 23 | Yancheng Nature Reserve, Jiangsu, China | Protected | High | High |
| 26 | Xiapu, Fujian, China | Protected | Low | High |
| 28 | Putian, Fujian, China | Unprotected | High | High |
| 31 | Haifeng, Guangdong, China | Protected | High | High |
| 32 | Deep Bay, Shenzhen and Hong Kong, China | Protected | Low | Low |
| 33 | Nansha wetland, Guangdong, China | Protected | High | High |
| 34 | Taipa-Coloane, Macau, China | Protected | High | High |
| 37 | Sigeng, Hainan, China | Protected | Low | High |
| 40 | Xuan Thuy National Park, Red River Delta, Vietnam | Protected | Low | High |

Figure S1. Number of sites covered and number of volunteer surveyors participated in the synchronised surveys of wintering Black-faced Spoonbills between 1997 and 2014.