**Supplementary Material**

GPS tracking reveals highly consistent use of restricted foraging areas by European Storm-petrels *Hydrobates pelagicus* breeding at the largest UK colony: implications for conservation management.

MARK BOLTON

**Contents**

Table S1. Deployment and retrieval of GPS tags on European Storm petrels by breeding stage at deployment and year.

Figure S1. Representativeness of colony-level core foraging area (50% UD) with increasing number of sampled trips of Storm-petrels during incubation, brooding and post-brooding stages.

Table S1. Deployment and retrieval of GPS tags on European Storm petrels by breeding stage at deployment and year. A “track” is defined as location data derived from a single deployment, which may comprise multiple foraging trips from the colony, which may span several breeding stages (e.g. tags deployed during the brooding period may record trips made during both the brooding and post-brooding periods). NB the number of tracks obtained for each stage differ from values shown on Fig 1: figures given here relate the breeding stage at deployment; those given in Fig 1 which relate to the breeding stage at which the data were collected.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Breeding stage at deployment** | **Year** | **Temporal resolution**  | **Number deployed** | **Number retrieved (%)** | **Number of tracks obtained** |
| Incubation | 2014 | 6 hr | 8 | 6 (75%) | 5 |
| 2015 | 1 hr | 10 | 8 (80%) | 8 |
| 2016 | 1 hr | 2 | 1 (50%) | 1 |
| 2017 | 30 min | 2 | 1 (50%) | 1 |
| **Total** |  | **22** | **16 (73%)** | **15** |
| Brooding | 2014 | 2 hr | 5 | 5 (100%) | 5 |
| 2015 | 20 min; 30 min | 3 | 3 (100%) | 3 |
| 2016 | 30 min | 2 | 2 (100%) | 2 |
| 2017 | 30 min | 3 | 3 (100%) | 3 |
| **Total** |  | **13** | **13 (100%)** | **13** |
| Post brooding | 2014 | 2 hr | 6 | 5 (83%) | 3 |
| 2015 | 20 min; 30 min | 6 | 5 (83%) | 5 |
| 2016 | 30 min | 6 | 4 (67%) | 4 |
| 2017 | 30 min | 5 | 2 (40%) | 2 |
| **Total** |  | **23** | **16 (70%)** | **14** |
|  | **Grand total** |  | **58** | **45 (78%)** | **42** |

Fig. S1. Representativeness of colony-level core foraging area (50% UD) with increasing number of sampled trips of Storm-petrels during incubation, brooding and post-brooding stages. Representativeness is based on the estimated asymptote relative to an inclusion value of 0.5 (see Lascelles *et al*. 2016 and Beal *et al.* 2020 for details).

|  |
| --- |
|  |
|  |
|  |