## Title of data set DOI:10.5061/dryad.34tmpg4nc

DTG logger data of 2006 European shags.

## Description of the data and file structure

The study was conducted on the Isle of May National Nature Reserve, south-east Scotland (56° 11’N, 02° 33’W) in the 2006 breeding season. Twenty-eight known-aged males, brooding 1 – 3 medium-sized chicks were captured between 26 June and 2 July. Our sampling period was 2--4 days for each bird and ranged between 26 June and 5 July.

For information of individual bird, see Shag2006Bird file. See Appendix 1 of the paper also. Nest IDs were those as used in Isle of May project lead by Dr Francis Daunt. Bird was the color combination of plastic leg rings. Ask Dr Francis Daunt for more information on color and metal rings. Brood size was the number of chicks when we deployed loggers. Logger ID 413 to 344, and 336 to 341 was manufacture number for the depth-temperature-2 axis acceleration data logger used in this study. Setting shows sampling interval for depth, temperature, heave and surge acceleration in second. For all bird, depth and temperature was sampled at 1 s interval and acceleration at 1/16 s interval. Time and date of release after deployment and time of return to the nest shortly after deployment are shown. File name are those as the file name of separate Igor files that included data for each bird. Four loggers (413JUL2, 281JUL1,283JUL2,281JUL5) malfunctioned or exhibited data conversion problems so our final sample size was 24 males (see Appendix 1of the paper). Time and date of recapture is also shown with the duration of deployment. Body mass and size that was measured using conventional measurement techniques are shown. Oil means sample of wax of uropygial grand that is used for other work (Yamashita et al. Arch 2018 Environ Contam Toxicol 75:545-556).

Main data used in this paper is in Igor files for each bird. XG and YG are heave (dorso-ventral) and surge (taile-head) acceleration in g. Depth is in m and Temp (temperature) in centi degrees.

## Sharing/Access information

 No other sources of this data is available.

## Code/Software

Use Igor software to read Igor file that contains data. Each Igor file is for individual male shags. Information of individual birds is in Excel file of Shag2006Bird file.