**Supplementary table for Marshall et al. “The spread and status of the Gough Moorhen on Tristan da Cunha”**

Table S1. Estimated area of suitable moorhen habitat in 100 m elevation bands on Tristan da Cunha, and the Gough Moorhen densities and population sizes predicted by our quadratic elevation model (the most parsimonious model). Predicted densities are generated using the mid-point in each elevation band (i.e. 50 m in the 0-100 m elevation band). No habitat above 1,200 m was classed as suitable (Environment Systems 2019). Numbers in parentheses are the 95% confidence intervals for each estimate.

Elevation (m) Habitat area Moorhen density Population estimate

 (ha) (birds ha-1) (number of birds)

0-100 156 2.2 (1.1-4.1) 336 (177-640)

100-200 269 3.6 (2.0-6.4) 957 (535-1,712)

200-300 385 5.3 (3.0-9.2) 2027 (1,161-3,539)

300-400 479 7.0 (4.1-12.2) 3,371 (1,940-5,859)

400-500 605 8.5 (4.9-14.7) 5,131 (2,953-8,915)

500-600 867 9.2 (5.3-16.0) 7,996 (4,616-13,839)

600-700 1,096 9.0 (5.3-15.5) 9,904 (5,764-17,017)

700-800 914 8.0 (4.7-13.7) 7,301 (4,262-12,507)

800-900 590 6.4 (3.7-11.1) 3,754 (2,153-6,544)

900-1000 145 4.6 (2.5-8.5) 662 (358-1,222)

1,000-1,100 19 3.0 (1.4-6.1) 57 (28-119)

1,100-1,200 1 1.7 (0.7-4.3) 2 (1-4)

Total 41,499 (23,952-71,918)