**Supplementary Material**

Nest site selection of South Georgia Diving-petrels *Pelecanoides georgicus* on Codfish Island, New Zealand: implications for conservation management

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Appendix S2. Spearman correlation coefficients (*r*) between explanatory variables potentially affecting nest site selection in South Georgia Diving-petrels in the foredune.

Appendix S1. Spearman correlation coefficients (*r*) between explanatory variables potentially affecting nest site selection in South Georgia Diving-petrels in the whole dunes. Variables with *r* ≥ 0.6 (bold) are considered highly correlated. \* indicates *P* < 0.05, \*\* indicates *P* < 0.01 and \*\*\* indicates *P* < 0.001.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Distance to sea | Distance to nearest conspecific | Distance to nearest *Pelecanoides urinatrix* | Distance to nearest *Puffinus griseus* | Plant cover | Invasive ratio | Sand penetrability | Slope | Aspect | Sand flux |
| Distance to sea |  |  |  |  |  |  |  |  |  |  |
| Distance to nearest conspecific | **0.782\*\*\*** |  |  |  |  |  |  |  |  |  |
| Distance to nearest *Pelecanoides urinatrix* | 0.089 | 0.092 |  |  |  |  |  |  |  |  |
| Distance to nearest *Puffinus griseus* | 0.002 | 0.198\*\* | 0.022 |  |  |  |  |  |  |  |
| Plant cover | **0.645\*\*\*** | **0.602\*\*\*** | 0.189\*\* | 0.313\*\*\* |  |  |  |  |  |  |
| Invasive ratio | -0.240\*\*\* | -0.265\*\*\* | 0.009 | 0.172 | 0.021 |  |  |  |  |  |
| Sand penetrability | 0.458\*\*\* | 0.454\*\*\* | 0.173\* | 0.185\*\* | 0.384\*\*\* | -0.002 |  |  |  |  |
| Slope | -0.439\*\*\* | -0.382\*\*\* | -0.195\*\* | -0.131 | -0.470\*\*\* | -0.176\* | -0.433\*\*\* |  |  |  |
| Aspect | -0.385\*\*\* | -0.341\*\*\* | 0.0268 | -0.035 | -0.133 | 0.025 | -0.305\*\*\* | 0.221\*\* |  |  |
| Sand flux | -0.433\*\*\* | -0.326\*\*\* | 0.0869 | 0.007 | -0.361\*\*\* | 0.237\*\*\* | -0.111 | 0.104 | 0.152\* |  |
| Plant height | **0.612\*\*\*** | **0.607\*\*\*** | 0.133 | 0.281\*\*\* | **0.687\*\*\*** | -0.359\*\*\* | 0.243\*\*\* | -0.269\*\*\* | -0.078 | -0.308\*\*\* |

Appendix S2. Spearman correlation coefficients (*r*) between explanatory variables potentially affecting nest site selection in South Georgia Diving-petrels in the foredune. Variables with *r* ≥ 0.6 (bold) are considered highly correlated. \* indicates *P* < 0.05, \*\* indicates *P* < 0.01 and \*\*\* indicates *P* < 0.001.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Distance to sea | Distance to nearest conspecific | Distance to nearest *Pelecanoides urinatrix* | Distance to nearest *Puffinus griseus* | Plant cover | Invasive ratio | Sand penetrability | Slope | Aspect | Sand flux |
| Distance to sea |  |  |  |  |  |  |  |  |  |  |
| Distance to nearest conspecific | 0.262\*\* |  |  |  |  |  |  |  |  |  |
| Distance to nearest *Pelecanoides urinatrix* | 0.008 | 0.021 |  |  |  |  |  |  |  |  |
| Distance to nearest *Puffinus griseus* | -0.418\*\*\* | -0.068 | 0.112 |  |  |  |  |  |  |  |
| Plant cover | 0.170 | 0.048 | 0.155 | 0.283\*\* |  |  |  |  |  |  |
| Invasive ratio | 0.161 | -0.005 | 0.184\* | 0.320\*\*\* | 0.506\*\*\* |  |  |  |  |  |
| Sand penetrability | 0.221\* | 0.190\* | 0.164 | 0.061 | 0.164 | 0.234\* |  |  |  |  |
| Slope | -0.273\*\* | -0.280\*\* | -0.216\*\* | -0.042 | -0.274\*\* | -0.405\*\*\* | -0.524\*\*\* |  |  |  |
| Aspect | -0.491\*\*\* | -0.281\*\* | 0.113 | 0.243\*\* | 0.075 | 0.107 | -0.279\*\* | 0.180 |  |  |
| Sand flux | -0.252\*\* | 0.009 | 0.176 | 0.210\* | -0.130 | 0.151 | 0.090 | -0.110 | 0.077 |  |
| Plant height | 0.053 | 0.032 | 0.036 | 0.158 | 0.499\*\*\* | 0.060 | -0.067 | 0.013 | 0.145 | -0.064 |