Supplementary Material

Table S1

Values (*J*) of Jaccard's Index for comparing debris type between sites and between nest (N) and beach (B) debris at Brown Booby breeding locations. *J* values are considered significant when *J* > 0.6. <u>UNDERLINED</u> values represent a high degree of overlap between nest and beach debris types per site, thus indicating *no active selection* by the birds. Values in **BOLD** represent significant similarities between nest debris types across sites. Values in <u>WAVY UNDERLINE</u> represent similarities in debris types at beaches. Irrelevant *J* values have been removed for improved readability (comparisons between nest debris types and beach debris types at different sites). Sites 5. B, 6. B, 11. N, 12. N^{16}, 12. N^{17a} and 15. N are not included in this table as they were clean. The superscript on sites 3, 10 and 12 refer to the sampling year.

SITE	1. N	1. B	2. N	2. B	3. N^{16}	3. B^{16}	3. N^{17}	3. B^{17}	4. N	4. B	5. N	6. N	7. N	7. B	8. N	8. B	9. N	10. N^{17}	10. B^{17}	10. N^{18}	10. B^{18}	11. B	12. B^{16}	12. B^{17a}	12. N^{17b}	12. N^{18}	13. N	14. N	14. B	16. N	16. B	17. N
1. B	<u>0.71</u>																															
2. N	0.30																															
2. B		0.56	0.36																													
3. N^{16}	**0.60**		0.25																													
3. B^{16}		0.37		0.33	0.50																											
3. N^{17}	0.56		0.43		0.58	0.39																										
3. B^{17}		0.29		0.30	0.43	<u>0.65</u>	0.30																									
4. N	**0.74**		0.31		**0.66**		**0.75**																									
4. B		0.48		0.43		0.53		0.36	0.31																							
5. N	0.46		0.53		0.36		0.43		0.44																							
6. N	0.37		0.50		0.53		0.55		0.47		**0.71**																					
7. N	0.59		0.56		0.44		0.59		**0.61**		**0.72**	0.57																				
7. B		0.50		0.40		0.34		0.18		<u>0.60</u>			<u>0.60</u>																			
8. N	0.47		**0.62**		0.46		0.54		0.47		**0.71**	**0.67**	**0.77**																			
8. B		<u>0.62</u>		0.50		0.46		0.36		<u>0.76</u>				0.54	<u>0.67</u>																	
9. N	0.52		0.46		0.47		0.52		0.54		**0.66**	**0.66**	**0.70**		**0.63**																	
10. N^{17}	0.09		0.00		0.03		0.00		0.07		0.08	0.03	0.08		0.03		0.11															
10. B^{17}		<u>0.61</u>		0.36		0.31		0.15		0.56				<u>0.77</u>		0.50		0.00														
10. N^{18}	0.49		0.14		0.40		0.29		0.41		0.25	0.18	0.37		0.26		0.33	0.33	0.26													
10. B^{18}		0.55		0.43		0.28		0.20		0.43				0.43		0.58		0.25	0.43	0.48												
11. B		0.42		0.36		0.28		0.15		0.56				<u>0.86</u>		0.50			<u>0.71</u>		0.43											
12. B^{16}		<u>0.62</u>		0.50		0.43		0.37		0.53				0.49		<u>0.70</u>			0.44		<u>0.60</u>	0.44										
12. B^{17a}		0.54		0.40		<u>0.72</u>		0.53		0.52				0.35		0.56			0.39		0.35	0.28	0.51									
12. N^{17b}	0.22		0.08		0.24		0.10		0.19		0.23	0.20	0.20		0.19		0.31	0.50		0.52			0.23	0.23								
12. N^{18}	0.22		0.00		0.15		0.15		0.14		0.00	0.00	0.08		0.05		0.03	0.00		0.14			0.06	0.06	0.02							
13. N	**0.69**		0.23		**0.63**		0.40		0.53		0.45	0.37	0.47		0.43		0.40	0.07		0.45					0.24	0.23						
14. N	0.45		0.33		0.30		0.33		0.44		0.49	0.38	0.47		0.40		0.54	0.33		**0.60**					0.48	0.00	0.33					
14. B		<u>0.68</u>		0.52		0.39		0.28		<u>0.66</u>				<u>0.71</u>		<u>0.71</u>			<u>0.69</u>		0.52	<u>0.61</u>	0.50	0.50				0.41				
16. N	**0.63**		0.51		0.48		**0.68**		**0.65**		**0.63**	0.58	**0.85**		**0.71**		**0.66**	0.06		0.36					0.18	0.12	0.48	0.43				
16. B		<u>0.60</u>		0.53		0.35		0.27		0.57				<u>0.70</u>		0.57			<u>0.69</u>		0.47	0.63	0.40	0.40					<u>0.78</u>	<u>0.68</u>		
17. N	0.55		0.11		0.50		0.37		0.48		0.21	0.24	0.31		0.24		0.32	0.07		0.41					0.24	0.36	0.56	0.20		0.36		
18. N	0.56		0.49		0.43		**0.71**		0.56		0.53	0.54	**0.71**		**0.64**		0.56	0.01		0.29					0.13	0.18	0.40	0.36		**0.82**		0.34

Table S2

Values (*J*) of Jaccard's Index for comparing debris colour between sites and between nest (N) and beach (B) debris at Brown Booby breeding locations. *J* values are considered significant when $J > 0.6$. UNDERLINED values represent a high degree of overlap between nest and beach debris colours per site, thus indicating *no active selection* by the birds. Values in **BOLD** represent significant similarities between nest debris colours across sites. Values in WAVY UNDERLINE represent similarities in debris colours at beaches. Irrelevant *J* values have been removed for improved readability (comparisons between nest debris colours and beach debris colour at different sites). Sites 5. B, 6. B, 11. N, 12. N[16], 12. N[17a] and 15. N are not included in this table as they were clean. The superscript on sites 3, 10 and 12 refer to the sampling year.

SITE	1.N	1.B	2.N	2.B	3.N[16]	3.B[16]	3.N[17]	3.B[17]	4.N	4.B	5.N	6.N	7.N	7.B	8.N	8.B	9.N	10.N[17]	10.B[17]	10.N[18]	10.B[18]	11.B	12.B[16]	12.B[17a]	12.N[17b]	12.N[18]	13.N	14.N	14.B	16.N	16.B	17.N
1. B	0.45																															
2. N	0.23																															
2. B		0.37	0.15																													
3. N[16]	0.45		0.36																													
3. B[16]		0.61		0.28	0.66																											
3. N[17]	0.38		0.25		0.36	0.30																										
3. B[17]		0.61		0.25	0.67	0.75	0.20																									
4. N	0.48		0.14		0.38		0.40																									
4. B		0.38		0.15		0.30		0.38	0.29																							
5. N	0.35		0.49		0.46		0.12		0.31																							
6. N	0.55		0.20		0.46		0.34		0.47		0.39																					
7. N	0.42		0.27		0.38		0.27		0.41		0.43	0.54																				
7. B		0.57		0.51		0.41		0.42		0.32			0.59																			
8. N	0.30		0.43		0.32		0.32		0.23		0.22	0.36	0.37																			
8. B		0.40		0.36		0.46		0.36		0.25				0.36	0.55																	
9. N	0.41		0.34		**0.74**		0.24		0.32		0.41	0.47	0.32		0.33																	
10. N[17]	0.02		0.00		0.07		0.00		0.00		0.04	0.09	0.04		0.05		0.14															
10. B[17]		0.39		0.28		0.47		0.36		0.29				0.38		0.50		0.00														
10. N[18]	0.30		0.00		0.11		0.30		0.33		0.13	0.24	0.33		0.05		0.08	0.00	0.20													
10. B[18]		0.49		0.30		0.54		0.43		0.17				0.41		0.58		0.00	0.71	0.11												
11. B		0.33		0.15		0.48		0.43		0.17				0.24		0.50			0.50		0.67											
12. B[16]		0.51		0.60		0.35		0.34		0.30				0.68		0.32			0.38		0.34	0.18										
12. B[17a]		0.65		0.26		0.73		0.76		0.32				0.52		0.35			0.40		0.47	0.43	0.37									
12. N[17b]	0.32		0.20		0.40		0.15		0.19		0.26	0.33	0.28		0.26		0.51	0.38		0.06			0.24	0.24								
12. N[18]	0.23		0.00		0.07		0.15		0.20		0.13	0.24	0.33		0.04		0.05	0.00		**0.60**			0.09	0.09	0.04							
13. N	0.49		0.23		0.48		**0.62**		0.55		0.25	0.47	0.40		0.28		0.35	0.00		0.33					0.24	0.14						
14. N	0.23		**1.00***		0.36		0.25		0.14		0.49	0.20	0.27		0.43		0.34	0.00		0.00					0.20	0.00	0.23					
14. B		0.43		0.16		0.43		0.46		0.31				0.24		0.21			0.35		0.32	0.35	0.45	0.45				0.35				
16. N	**0.61**		0.30		**0.64**		0.21		0.47		0.53	0.49	0.40		0.30		**0.62**	0.07		0.17					0.38	0.12	0.36	0.30				
16. B		0.69		0.32		0.60		0.59		0.41				0.39		0.40			0.48		0.44	0.37	0.63	0.63							0.58	0.56	
17. N	0.51		0.35		**0.75**		0.26		0.44		0.55	0.52	0.39		0.30		**0.71**	0.06		0.12					0.34	0.09	0.42	0.35		**0.75**		
18. N	0.51		0.29		**0.63**		0.28		0.49		0.41	0.40	0.30		0.29		**0.62**	0.06		0.14					0.36	0.06	0.39	0.29		**0.76**		**0.67**

*Number of debris items recovered from nests on Adele Island and Rose Atoll was low, at only two per site.