

**Supplementary Table S1.** Summer aerial surveys, percentage of summer tracks, length of beach, density of tracks km<sup>-1</sup>; S1–S10 rankings were determined by number of tracks.

Summer Survey Placenames	Tracks	Percent Summer Tracks	Beach Length (m)	Density tracks km <sup>-1</sup>	Rank
80 Mile	4387	40.86%	212418	21	S1
Lacepedes	3910	36.42%	12650	309	S2
Maret Island	562	5.23%	1625	346	S3
Cassini	293	2.73%	3327	88	S4
Parry Island	124	1.15%	663	187	S5
Oliver Island	110	1.02%	571	193	S6
Bouganville Peninsula	88	0.82%	377	233	S7
West Montalivet Island	82	0.76%	1197	68	S8
Sir Graham Moore Island	74	0.69%	3966	19	S9
Condillac Island	73	0.68%	987	74	S10
East Montalivet Island	65	0.61%	754	86	
Walker Island (Montalivet Islands)	63	0.59%	342	184	
S Cape Missiessy	53	0.49%	1000	53	
S Cape Voltaire	51	0.47%	396	129	
S Freshwater Cove	48	0.45%	856	56	
Berthier Island	38	0.35%	652	58	
N Cape Villaret	37	0.34%	13207	3	
Froggart Island (NE of Fenelon Island)	36	0.34%	86	417	
Wiiluntju Island (N of Katers Island)	30	0.28%	1190	25	
SE of Hale Island	27	0.25%	406	67	
Smokey Bay	25	0.23%	280	89	
North Eclipse Island	25	0.23%	2703	9	
Vansittart Bay	22	0.20%	2214	10	
LaPlace Island	21	0.20%	169	124	
Colbert Island	21	0.20%	1008	21	
Anjo Peninsula	21	0.20%	6147	3	
Prudhoe Island	20	0.19%	262	76	
Low Island (Vansittart Bay)	20	0.19%	770	26	
No Name	19	0.18%	200	95	
Unnamed	17	0.16%	200	85	
Whitley Island	15	0.14%	241	62	
Scorpion Island	15	0.14%	249	60	
Middle Osborn Island	15	0.14%	503	30	
Eclipse Island	15	0.14%	611	25	
E High Bluff	15	0.14%	804	19	
Albert Islands (Bonaparte Archipelago)	14	0.13%	306	46	
Carronade Island	14	0.13%	1264	11	
Keraudren Island	13	0.12%	555	23	
Turbin Island	13	0.12%	602	22	
Mictyis Island	12	0.11%	121	99	
Cape Bernier	12	0.11%	154	78	
S Coulomb Point	12	0.11%	7617	2	
Deception Bay	11	0.10%	58	191	
W Bigge Island	11	0.10%	244	45	
Descartes Island	11	0.10%	459	24	
Entrance Island (NE of Augustus Island)	10	0.09%	177	56	

S Cape Jaubert	10	0.09%	10125	1
S Hardy Point	9	0.08%	464	19
Hat Point	9	0.08%	1497	6
Baudin Island (W of Fenelon Island)	8	0.07%	245	33
N Winyalkan Island	8	0.07%	311	26
Cape Torrens	8	0.07%	898	9
W De Grey River	8	0.07%	1044	8
island S Cape Londonderry	7	0.07%	200	35
Unnamed island south-east of Red Island	6	0.06%	100	60
Yankawingarri Island	6	0.06%	162	37
Eclipse Hill Island	5	0.05%	656	8
Cape Borda	5	0.05%	3613	1
Laseron Island	4	0.04%	130	31
S Chile Head	4	0.04%	200	20
S Prior Point	4	0.04%	70	57
E Sunday Island	4	0.04%	193	21
Corvisart Island	4	0.04%	485	8
West Governor Island	4	0.04%	564	7
S James Price Point	4	0.04%	594	7
N Cape Leveque	4	0.04%	5245	1
Cape St Lambert (NW of Reveley Island)	4	0.04%	5800	1
S Cape Londonderry	3	0.03%	150	20
Gaimard Island	3	0.03%	209	14
Quoy Island	3	0.03%	233	13
Hale Island	3	0.03%	699	4
North Head	2	0.02%	100	20
Mary Island	2	0.02%	740	3
Solem Islands	2	0.02%	45	44
Carlia Island	2	0.02%	124	16
Poolngin Island	2	0.02%	129	16
Coronation Island	2	0.02%	330	6
Combe Hill Island	2	0.02%	340	6
Fenelon Island	2	0.02%	343	6
Bernoulli Island (SW of Waring Island)	2	0.02%	612	3
Cape Domett	2	0.02%	1897	1
Steep Head Island	1	0.01%	70	14
Fletcher Islands	1	0.01%	71	14
Purrungki Island	1	0.01%	87	12
Vulcan Island	1	0.01%	112	9
S Raft Point	1	0.01%	132	8
Galley Point	1	0.01%	163	6
N Bigge Island	1	0.01%	216	5
Katers Island	1	0.01%	220	5
N of Kannamatju Island	1	0.01%	257	4
Long Island	1	0.01%	957	1
Total	10737			

**Supplementary Table S2.** Winter aerial surveys, percentage of winter tracks, length of beach, density of tracks km<sup>-1</sup>; W1-W10 rankings were determined by number of tracks.

Winter Survey Placenames	Tracks	Percent Winter Tracks	Beach Length (m)	Density tracks km <sup>-1</sup>	Rank
E Cape Domett	1598	23.09%	1886	847	W1
Maret Island	333	4.81%	2782	120	W2
Cassini	257	3.71%	1736	148	W3
Parry Island	246	3.55%	877	280	W4
E Shakespeare Hill	164	2.37%	13075	13	W5
Southwest Osborn Island	161	2.33%	1232	131	W6
Coronation Island	155	2.24%	1231	126	W7
Keraudren Island	152	2.20%	550	276	W8
Kuntjuma Kutangari Island	146	2.11%	628	233	W9
<b>East Montalivet</b>	131	1.89%	844	155	<b>W10</b>
Vulcan Island	112	1.62%	110	1017	
N Maret Island	99	1.43%	1138	87	
Oliver Island	96	1.39%	934	103	
Middle Island, Lacepedes	96	1.39%	2601	37	
SE of Hale Island	89	1.29%	202	440	
SE Cape Londonderry	89	1.29%	207	431	
Jackson Island	86	1.24%	200	430	
Hardy Point	83	1.20%	560	148	
Racine Island	78	1.13%	482	162	
N Valentine Island	74	1.07%	2300	32	
S Eagle Point	73	1.05%	762	96	
Descartes Island	69	1.00%	1024	67	
Helpman Islands	64	0.92%	190	338	
Quoy Island	60	0.87%	232	258	
NW of Heywood	56	0.81%	270	207	
SE Gibson Point	56	0.81%	1000	56	
Middle Osborn Island	56	0.81%	492	114	
Turbin Island	55	0.79%	605	91	
SW Gibson Point	53	0.77%	1000	53	
NW Low Island (Vansittart Bay)	52	0.75%	776	67	
S Hardy Point	51	0.74%	464	110	
S Augustus	50	0.72%	191	261	
West Island, Lacepedes	50	0.72%	3185	16	
WNW of Heywood	48	0.69%	90	533	
E of Caswell Island	48	0.69%	80	598	
Wiirra Island	48	0.69%	204	235	
Fletcher Islands	48	0.69%	310	155	
S East Governor Islands	47	0.68%	290	162	
East Island, Lacepedes	46	0.66%	281	164	
Lafontaine Island	45	0.65%	2050	22	
Froggart Island	41	0.59%	101	407	
Entrance Island	40	0.58%	758	53	
Deception Bay	39	0.56%	58	675	
Hedley Island	38	0.55%	269	141	
E Bigge Island	38	0.55%	347	109	
Hat Point	37	0.53%	234	158	
Eclipse Hill Island	37	0.53%	439	84	

NW Bigge Island	37	0.53%	752	49
Unnamed island	35	0.51%	150	233
Kartja Island	35	0.51%	258	136
Gale Island	35	0.51%	304	115
S Sir Graham Moore	34	0.49%	487	70
Boomerang Bay	31	0.45%	795	39
Heywood Island	29	0.42%	453	64
Cape Torrens	29	0.42%	804	36
Lagrange Island	29	0.42%	2425	12
Cape Bougainville	28	0.40%	663	42
Albert Islands	27	0.39%	508	53
Cape Voltaire	27	0.39%	528	51
S of Valentine Island	26	0.38%	3828	7
Traverse Island	25	0.36%	129	194
Mably Island	25	0.36%	228	110
Smokey Bay	24	0.35%	280	86
Laplace Island	23	0.33%	166	139
SW Sir Graham Moore	22	0.32%	2165	10
East Helipad Island	20	0.29%	153	131
Colbert Island	20	0.29%	298	67
Katers Island	20	0.29%	396	50
Fenelon Island	20	0.29%	1439	14
W Bigge Island	19	0.27%	287	66
Malcolm Island	19	0.27%	320	59
S Freshwater Cove	19	0.27%	1369	14
E Combe Hill Island	17	0.25%	150	113
N Madarr	17	0.25%	150	113
SW Heywood	17	0.25%	200	85
Hecla Island	17	0.25%	258	66
N Freshwater Bay (Western side of Vansittart Bay)	17	0.25%	822	21
Prudhoe Island	16	0.23%	262	61
Laseron	16	0.23%	271	59
Slate Islands (Wailgwin Island)	16	0.23%	310	52
Sandy Islet, Lacepedes	16	0.23%	662	24
W Cape Brewster	16	0.23%	804	20
NW of Darcy Island	15	0.22%	200	75
Woninjabo Islands	15	0.22%	135	112
Gibson Point	15	0.22%	2125	7
SE Laseron	14	0.20%	130	108
Lulim Island (Slate Islands)	14	0.20%	156	90
Point Torment (N of Mary Island N and Mary Island S)	14	0.20%	436	32
Corvisart Island	14	0.20%	485	29
S Lesueur Island	14	0.20%	967	14
Condillac Island	14	0.20%	987	14
W Cape Domett	13	0.19%	49	263
E of Bigge Island	13	0.19%	78	166
Bush Camp Faraway Bay	13	0.19%	668	19
S WG landing	12	0.17%	200	60
Treachery Head	12	0.17%	200	60
Woodward Island	12	0.17%	186	65
NE Bigge Island	12	0.17%	285	42
No Name	11	0.16%	200	55

S WG launch	10	0.14%	150	67
Yampi Sound	10	0.14%	269	37
W Governor Island	10	0.14%	1436	7
Wiiluntju Island (N of Katers Island)	9	0.13%	851	11
NE Darcy Island	8	0.12%	100	80
Darcy Island	8	0.12%	116	69
Jar Island	8	0.12%	240	33
Deep Water Point	8	0.12%	275	29
Cape Rulhieres	8	0.12%	299	27
Borda Island	8	0.12%	311	26
E Sir Graham Moore	8	0.12%	593	13
W Crystal Head	8	0.12%	810	10
NE Scorpion Island	8	0.12%	1213	7
Cape Talbot	8	0.12%	3018	3
Byam Martin	6	0.09%	133	45
West Montalivet Island	6	0.09%	211	28
Combe Hill Island	6	0.09%	333	18
E Governor Island	6	0.09%	868	7
Glycosmis Bay	6	0.09%	893	7
N Freshwater Cove	6	0.09%	2688	2
Truscott	6	0.09%	2937	2
Anjo Peninsula	6	0.09%	5634	1
Tjungkurakutangari Island	5	0.07%	59	85
S Cape Bougainville	5	0.07%	378	13
Corneille Island	5	0.07%	464	11
E Wollaston Island	4	0.06%	100	40
Melomys Island	4	0.06%	100	40
Unnamed	4	0.06%	100	40
Edeline Islands	4	0.06%	188	21
Queen Island	4	0.06%	247	16
Parry Harbour	4	0.06%	486	8
Berthier Island	4	0.06%	500	8
SE Low Island (Vansittart Bay)	4	0.06%	598	7
Lamarck Island	4	0.06%	618	6
SW High Bluff	4	0.06%	1473	3
W Drysdale R mouth	4	0.06%	3262	1
SW Kingfisher	3	0.04%	244	12
E Dempsey Island (near Cheriton Island)	2	0.03%	100	20
Lucas Island	2	0.03%	100	20
N Darcy Island	2	0.03%	100	20
NE Long Island	2	0.03%	100	20
W King Island Sound	2	0.03%	250	8
Helpman East	2	0.03%	20	100
High Island	2	0.03%	47	42
SE Point Usborne	2	0.03%	61	33
Eclipse Islands	2	0.03%	89	22
S Lizard Island	2	0.03%	101	20
Seaflower Bay	2	0.03%	112	18
Moliere Island	2	0.03%	151	13
E Katers Island	2	0.03%	165	12
S Hat Point	2	0.03%	187	11
Swan Island	2	0.03%	209	10

Solem Island	2	0.03%	376	5
Sandy Island	2	0.03%	747	3
Goodenough Bay	2	0.03%	1400	1
Jones Island	2	0.03%	1675	1
N Eclipse Island	2	0.03%	2151	1
Cape Dussejour	2	0.03%	2871	1
inlet N Current Point	1	0.01%	200	5
W Buckland Point	1	0.01%	200	5
S Cape Rulhieres	1	0.01%	139	7
E Cape Pond	1	0.01%	176	6
E Hall Point	1	0.01%	178	6
Rocky Cove	1	0.01%	360	3
S Wilson Point	1	0.01%	496	2
S of Steep Head	1	0.01%	652	2
W Stewart Islands	1	0.01%	827	1
Maddarr	1	0.01%	965	1
Total	6921			