**Appendix A. Supplementary data**

Cat-free areas: predator exclosures on the mainland

**Table A1**. List of fenced enclosures on the Australian mainland that are constructed to maintain wild, self-sustaining populations of threatened mammals. The enclosures are divided into those that are currently cat and fox free, and those that are currently compromised by the presence of feral cats and/or foxes.

|  |  |  |  |
| --- | --- | --- | --- |
| **Mainland feral predator-free areas** | **Managed by** | **State** | **Area (km2)** |
| Scotia Sanctuary | Australian Wildlife Conservancy | NSW | 78.4 |
| Mt Gibson Sanctuary | Australian Wildlife Conservancy | WA | 78.3 |
| Arid Recovery | Arid Recovery | SA | 60.0 |
| Lorna Glen | WA Department of Parks and Wildlife | WA | 11.0 |
| Yookamurra Sanctuary | Australian Wildlife Conservancy | SA | 10.9 |
| Wadderin Sanctuary | Community group, Shire of Narembeen | WA | 4.3 |
| Mount Rothwell | Private NGO | VIC | 4.2 |
| Perup Sanctuary | WA Department of Parks and Wildlife | WA | 4.2 |
| Whiteman Park | WA Government (Dept. of Planning) | WA | 4.2 |
| Mulligan's Flat Sanctuary | ACT Government | ACT | 4.0 |
| Woodlands Historic Park | Parks Victoria | VIC | 4.0 |
| Waychinicup National Park | WA Department of Parks and Wildlife | WA | 3.8 |
| Karakamia Sanctuary | Australian Wildlife Conservancy | WA | 2.5 |
| Julia Creek Aerodome | McKinlay Shire Council and Qld Department of Environment and Heritage Protection | QLD | 2.5 |
| Hamilton Community Parkland | Southern Grampians Shire Council | VIC | 1.0 |
| Nangeen Hill Nature Reserve | WA Department of Parks and Wildlife | WA | 0.5 |
| **Sub-total (km2)** |  |  | **273.8** |
| **Compromised fenced areas** |  |  |  |
| Currawinya National Park | Qld Dept, of National Parks, Sport and Racing | QLD | 25.0 |
| Venus Bay Conservation Park | SA Dept. Environment, Water & Natural Resources | SA | 14.0 |
| Heirisson Prong | Useless Loop Community Biosphere Project Group | WA | 12.0 |
| **Sub-total (km2)** |  |  | **51.0** |

Cat-free areas: the presence and absence of feral cats on Australian islands

Cats are known, or presumed, to be absent from many Australian islands. We estimated the number and total area of such cat-free islands. Complementarily, we also attempted to estimate the number and total area of islands on which feral cats occur. The most comprehensive database of Australian islands (excluding those associated with the Australian Antarctic Territory) is maintained by Geoscience Australia: this comprises 4 078 islands larger than 1 ha, with a total area of 32 921 km2 (also summarised in Burbidge et al., 2017). In some specified considerations here we add the main island of Tasmania (64 519 km2: i.e. for a total Australian island area of 97 440 km2) to this tally. We exclude islands smaller than 1 ha from consideration, given that such small islands are unlikely to maintain viable feral cat populations.

Most Australian islands have not been the subject of biological survey, so the presence or absence of feral cats is unknown for many islands. However, lack of sampling is mainly a characteristic of smaller islands. Records of feral cats on islands were derived principally from (i) a database of all (native and introduced) mammal records on islands ([Abbott and Burbidge, 1995](#_ENREF_2)), (ii) results from more recent fauna surveys of some island groups (e.g. [Gibson and McKenzie, 2012](#_ENREF_35); [Woinarski et al., 1999](#_ENREF_76); [Woinarski et al., 2011](#_ENREF_77)); (iii) some specific surveys for cat presence or absence from some islands ([Algar et al., 2003](#_ENREF_5); [Hilmer et al., 2009](#_ENREF_40)); and (iv) a database of the presence of introduced species on Australian islands compiled in 2010 by the then Australian Commonwealth environment agency (‘DEWHA’) from collations by state/territory environment agencies ([Department of the Environment, 2016](#_ENREF_27)).

All of the four sources used have some sampling biases. Records of feral cat presence in these databases are generally reliable. The main exception is for islands from which feral cats have been reported but subsequently eradicated. Here, we use information on published accounts of eradication of feral cats on islands ([Algar et al., 2010](#_ENREF_3); [Algar et al., 2002](#_ENREF_6); [Campbell et al., 2011](#_ENREF_17); [Department of the Environment, 2015](#_ENREF_26)) and unpublished sources to denote that feral cats are now absent from these islands. The status of islands with no reported cat records in these databases is more ambiguous: these islands may simply not have been sampled, or not sampled adequately enough to detect feral cats. Most of the islands in this category are very small, and feral cats were considered likely to be absent from these islands. If cats are present on some of these islands, their cumulative total would make negligible difference to the overall population estimate for feral cats.

Including Tasmania, feral cats are known to be present on 97 Australian islands (2.4% of the total number of Australian islands), with a total area of 90 056 km2 (92.4% of the total area of Australian islands) (Table A1). If Tasmania is excluded from this island set, the area of islands on which cats are present is 25 547 km2 (77.6% of the area of all Australian islands, excluding Tasmania). The number of islands from which cats are known to be absent is 598 (14.7% of the island tally) with a total area of 5 045 km2 (5.2% of the total island area, including Tasmania, or 15.3% of the total area of islands excluding Tasmania) (Table A3). If the total number and area of islands on which feral cats occur is subtracted from the total number and area of all Australian islands, the number of islands > 1 ha on which cats are known to be absent or likely to be absent increases to 3 982 (97.6% of islands), with a total area of 7 384 km2 (7.6% of the total island area, or 22.4% if Tasmania is excluded.) Because of uncertainty due to lack of sampling, the actual total area of islands without feral cats is likely to be between these two estimates of 5 045 km2 and 7 384 km2 which represents 0.07 to 0.1% of the total Australian land area (7.693 km2, including all islands).

Feral cats are much more likely to be present on larger islands (Table A1), but there is some sampling bias with this assessment; larger islands more likely to have been sampled and included in the source databases. Only 10 Australian islands larger than 100 km2 (and none larger than 1 000 km2) are likely or assumed to be without feral cats. Australia’s largest cat-free island is the sub-Antarctic Heard Island (at 375 km2).

**Table A2**. The size distribution of Australian islands, and occurrence of feral cats across island size ranges. Islands smaller than 1 ha are not included.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Island size range | No. of islands | No. of islands known to have feral cats | No. of islands with evidence indicating cats are absent | % islands with feral cats |
| >10 000 km2 | 1 | 1 | 0 | 100 |
| 1000 to 10 000 km2 | 8 | 8 | 0 | 100 |
| 100 to 1 000 km2 | 31 | 21 | 8 | 67.7 |
| 10 to 100 km2 | 135 | 24 | 78 | 17.7 |
| 1 to 10 km2 | 545 | 29 | 186 | 5.3 |
| 0.1 to 1 km2 | 1 560 | 14 | 201 | 0.9 |
| 0.01 to 0.1 km2 | 3 168 | 1 | 119 | <0.001 |
| Total | 5448 | 98 | 592 | 1.80 |
| Total land area (km2) | 97488 | 90042 | 4911 |  |
| Land area excluding Tasmania (km2) | 32969 | 25523 | 4911 |  |

**Table A3.** Australian islands with feral cats present. Islands are arranged in order of decreasing size. ‘DEWHA island #’ is as given in ([Department of the Environment, 2016](#_ENREF_27)). ‘Abbott & Burbidge’ refers to ([Abbott and Burbidge, 1995](#_ENREF_2)), with 1 indicating cats reported as present in that database and 0 indicating no record in that database of cats being present. ‘DEWHA database’ is ([Department of the Environment, 2016](#_ENREF_27)), with records of feral cats in that database signified here by ‘1’ and no records of cats signified by ‘0’.

| **Island name** | **State** | **DEWHA island #** | **Area (ha)** | **Abbott & Burbidge** | **DEWHA database** | **Other source; comments** |
| --- | --- | --- | --- | --- | --- | --- |
| TASMANIA | TAS |  | 6451900 | 1 |  |  |
| MELVILLE | NT | 3221 | 578577 | 0 | 1 |  |
| KANGAROO | SA | 4106 | 441617 | 1 | 1 |  |
| GROOTE EYLANDT | NT | 6640 | 228518 | 0 | 1 |  |
| BATHURST | NT | 2184 | 169318 | 0 | 1 |  |
| FRASER | QLD | 3904 | 166170 | 1 | 1 |  |
| FLINDERS | TAS | 8534 | 135929 | 1 | 1 |  |
| KING | TAS | 4134 | 109143 | 1 | 1 |  |
| MORNINGTON | QLD | 5866 | 100139 | 0 | 1 |  |
| DIRK HARTOG | WA | 2823 | 62775 | 1 | 1 | current eradication attempt |
| CURTIS | QLD | 6101 | 57646 | 1 | 1 |  |
| CAPE BARREN | TAS | 3049 | 46193 | 1 | 1 |  |
| HINCHINBROOK | QLD | 4920 | 39613 | 0 | 1 |  |
| BRUNY | TAS | 6449 | 35552 | 1 | 1 |  |
| CROKER | NT | 2161 | 32410 | 1 | 1 |  |
| ELCHO | NT | 5468 | 28243 | 1 | 1 |  |
| NORTH STRADBROKE | QLD | 7231 | 26949 | 1 | 1 |  |
| VANDERLIN | NT | 2492 | 26432 | 1 | 1 |  |
| PRINCE OF WALES | QLD | 7561 | 19541 | 0 | 1 |  |
| FRENCH | VIC | 887 | 17382 | 1 | 1 |  |
| MORETON (GNOORGANBIN) | QLD | 8333 | 17149 | 1 | 1 |  |
| MOA | QLD | 15 | 17029 | 0 | 1 |  |
| BRIBIE | QLD | 3938 | 14757 | 1 | 1 |  |
| BENTINCK | QLD | 1578 | 13875 | 0 | 1 |  |
| CHRISTMAS | CWLTH | 8738 | 13664 | 1 | 1 |  |
| WEST (Pellew grp) | NT | 5755 | 12983 | 0 | 1 | current eradication attempt |
| SAIBAI | QLD | 7576 | 10381 | 0 | 1 |  |
| MARIA | TAS | 8601 | 10207 | 0 | 1 |  |
| PHILLIP | VIC | 841 | 10129 | 1 | 1 | causeway to mainland |
| BADU | QLD | 4285 | 10124 | 0 | 1 |  |
| SOUTH WEST (Pellew grp) | NT | 6863 | 9198 | 0 | 1 | cat presence not well resolved (Woinarski et al. 2011) |
| CLARKE | TAS | 5267 | 8176 | 1 | 1 |  |
| BOIGU | QLD | 4308 | 7180 | 0 | 1 |  |
| THREE HUMMOCK | TAS | 7424 | 6981 | 1 | 1 |  |
| GREAT PALM | QLD | 586 | 5552 | 0 | 1 |  |
| HORN | QLD | 4303 | 5319 | 0 | 1 |  |
| MAGNETIC | QLD | 8107 | 5067 | 1 | 1 |  |
| MILINGIMBI | NT | 4393 | 4949 | 1 | 1 |  |
| FLINDERS | SA | 7262 | 3937 | 1 | 1 |  |
| MARIA | NT | 282 | 3914 | 1 |  |  |
| NORFOLK | CWLTH | 8774 | 3560 | 0 | 1 |  |
| HUMMOCK HILL | QLD | 6110 | 3074 |  | 1 |  |
| FACING | QLD | 2811 | 2995 | 0 | 1 |  |
| INDIAN | NT | 4421 | 2702 | 0 | 1 |  |
| RABAMA (YABOOMA) | NT | 5496 | 2498 | 1 | 1 |  |
| SOUTH STRADBROKE | QLD | 2860 | 2023 |  | 1 |  |
| WARDANG | SA | 5210 | 1810 | 1 | 1 |  |
| TURKEY | QLD | 6125 | 1727 |  | 1 |  |
| RUSSELL | QLD | 3949 | 1702 | 0 | 1 |  |
| HAMMOND | QLD | 3171 | 1570 |  | 1 |  |
| DEAL | TAS | 7362 | 1567 | 1 | 1 |  |
| ENTRANCE | NT | 6807 | 1532 |  | 1 |  |
| PRIME SEAL | TAS | 8541 | 1214 | 1 | 1 |  |
| SYDNEY | QLD | 5909 | 1028 | 0 | 1 |  |
| MACLEAY | QLD | 6159 | 740 |  | 1 |  |
| MABUAIG (MABULAG) | QLD | 1074 | 636 | 0 | 1 |  |
| WEST (PULU PANJANG) | CWLTH | 8723 | 618 | 1 |  |  |
| DARNLEY (ERUB) | QLD | 1067 | 580 | 0 | 1 |  |
| QUAIL | VIC | 6338 | 533 | 0 | 1 |  |
| OUTER SISTER (EAST SISTER) | TAS | 1989 | 532 | 1 | 1 |  |
| SOUTH MOLLE | QLD | 8137 | 440 | 1 | 1 | eradication attempted, not successful (Andrew Burbidge *pers. comm*.) |
| BABEL | TAS | 6370 | 437 | 1 | 1 |  |
| GABBA | QLD | 3190 | 417 |  | 1 |  |
| MAER (MER, MURRAY) | QLD | 1072 | 411 |  | 1 |  |
| DREAM | VIC | 6301 | 368 |  | 1 |  |
| (PULU ATAS) | CWLTH | 8713 | 363 | 1 |  |  |
| GREAT DOG | TAS | 1999 | 358 | 1 | 1 |  |
| DAUAN | QLD | 4315 | 355 |  | 1 |  |
| ROTAMAH | VIC |  | 340 | 1 |  | causeway to mainland |
| MOUNT CHAPPELL | TAS | 4154 | 321 | 1 | 1 |  |
| WATERHOUSE | TAS | 6409 | 314 | 0 | 1 |  |
| DOWNES | WA | 1612 | 307 |  | 1 | causeway to mainland |
| SWAN | VIC | 5256 | 289 | 0 | 1 |  |
| SWAN | TAS | 8578 | 241 | 1 | 1 |  |
| EAST INTERCOURSE | WA |  | 233 | 1 | 1 | causeway to mainland |
| HUNTER | VIC | 9008 | 197 |  | 1 |  |
| YAM | QLD | 6532 | 176 | 0 | 1 |  |
| COOCHIEMUDLO | QLD | 8337 | 170 |  | 1 |  |
| MASSIG ISLET | QLD | 42 | 157 |  | 1 |  |
| BROUGHTON | NSW | 1821 | 153 | 1 | 0 |  |
| LAMB (NGUDOOROO) | QLD | 6160 | 150 |  | 1 |  |
| SLOPING | TAS | 2048 | 116 |  |  | Natural and Cultural Heritage Division (2016) |
| KARRGARRA | QLD | 1792 | 106 |  | 1 |  |
| HOME (PULU SELMA) | CWLTH | 8731 | 91 |  |  | (Algar et al. 2003) |
| TEMPLE | QLD | 8229 | 83 |  | 1 |  |
| SNAPPER | QLD | 3568 | 64 |  | 1 |  |
| GRIFFITH | VIC | 9007 | 62 |  | 1 |  |
| WEDGE | TAS | 8620 | 44 |  | 1 |  |
| DELIVERANCE | QLD | 4316 | 39 |  |  |  |
| GRANITE | SA | 1946 | 28 |  | 1 |  |
| BROULEE | NSW | 4111 | 27 |  | 1 | causeway to mainland |
| COURTS | TAS | 2074 | 17 |  | 1 |  |
| FLAT TOP | QLD | 4964 | 16 |  | 1 |  |
| FULHAM | TAS | 2047 | 10 |  | 1 |  |
| PELICAN | TAS | 4157 | 10 |  | 1 |  |
| PHILIPS | TAS | 8598 | 9 |  |  | Pemberton and Hawkins 2011 |
| GOOSE | SA | 5208 | 8 |  | 1 |  |

**Table A4.** Australian islands for which there are records of mammals or feral animals, but for which there are no records of feral cats currently present. Conventions as for Table A2. Note that this listing does not include the many ‘unsampled’ islands (i.e. those with no records of mammals or feral animals in the databases sampled).

| **Island name** | **State** | **DEWHA island #** | **Area (ha)** | **Abbott & Burbidge** | **DEWHA database** | **Other source; comments** |
| --- | --- | --- | --- | --- | --- | --- |
| HEARD | CWLTH | 8783 | 36505 | 0 |  |  |
| HOWARD | NT | 5503 | 27324 |  | N |  |
| BARROW | WA | 6083 | 23503 | 0 | N |  |
| MARCHINBAR | NT | 3206 | 20860 | 0 | N |  |
| AUGUSTUS | WA | 4641 | 19179 | 0 | N |  |
| BIGGE | WA | 2277 | 17499 | 0 | N |  |
| MACQUARIE | TAS | 8954 | 13101 | 1 | Y | cats eradicated |
| WHITSUNDAY | QLD | 4874 | 10778 | 0 | N |  |
| ROBBINS | TAS | 8530 | 9847 | 0 | N |  |
| RARAGALA | NT | 80 | 9364 | 0 |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| NT ISLAND 177 (Joseph Bonaparte Gulf) | NT | 6741 | 8524 |  | N |  |
| CENTRE | NT | 6858 | 8498 | 0 | N |  |
| INGLIS | NT | 6590 | 8164 | 0 | N |  |
| TOWNSHEND | QLD | 6074 | 7762 |  | N |  |
| HUNTER | TAS | 6384 | 7046 | 0 | N |  |
| LONG | QLD | 1705 | 6387 |  | N |  |
| SOUTH GOULBURN | NT | 4364 | 6206 |  | N |  |
| QUOIN | NT | 7840 | 5678 |  | N |  |
| NORTH (Pellew grp) | NT | 6848 | 5578 | 0 | N |  |
| DRYSDALE | NT | 5479 | 4997 | 0 |  |  |
| HOOK | QLD | 1599 | 5417 | 0 | N |  |
| FAURE | WA | 7207 | 5194 | 1 | Y | cats eradicated |
| DORRE | WA | 5050 | 4959 | 0 | N |  |
| JUNGULU | WA | 7907 | 4877 | 0 |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| SNAKE | VIC | 1932 | 4461 | 0 | N |  |
| BOONGAREE | WA | 3428 | 4663 | 0 |  |  |
| BERNIER | WA | 3905 | 4152 | 0 | Y | cats eradicated |
| ADOLPHUS | WA | 3560 | 4134 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| GULUWURU | NT | 78 | 40974 | 0 |  |  |
| THISTLE | SA | 802 | 4104 | 0 | N |  |
| NORTH GOULBURN | NT | 7616 | 3976 | 0 | N |  |
| SAINT PETER | SA | 7247 | 3807 | 0 | N |  |
| CORONATION (NORTH CORONATION) | WA | 291 | 3976 | 0 |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| UWINS | WA | 334 | 3319 | 0 | N |  |
| DOLPHIN | WA | 5977 | 3306 | 1 | Y | cats eradicated |
| ENDERBY | WA | 534 | 3263 | 0 |  |  |
| DENHAM | QLD | 2624 | 3044 | 0 |  |  |
| SIR GRAHAM MOORE | WA | 2347 | 2844 | 0 | N |  |
| SCHOUTEN | TAS | 976 | 2775 | 0 | Y | cats eradicated |
| GLOUCESTER | QLD | 1596 | 2664 | 0 | N |  |
| QUAIL | QLD | 3858 | 2660 |  | N |  |
| KOOLAN | WA | 401 | 2572 | 0 | N |  |
| MIDDLE OSBORN (MIDDLE OSBORNE) | WA | 1254 | 2373 | 0 | N |  |
| NT ISLAND 183 (Joseph Bonaparte Gulf) | NT | 283 | 2317 |  | N |  |
| WEST INTERCOURSE | WA | 653 | 2407 | 0 |  |  |
| WIGRAM | NT | 4340 | 2278 | 0 | N |  |
| COTTON | NT | 7629 | 2114 | 0 |  |  |
| WEST LEWIS | WA | 2653 | 1973 | 0 | N |  |
| MIDDLE PERCY | QLD | 6049 | 1974 | 0 | N |  |
| NORTH PERON | NT | 4441 | 1916 | 0 | N |  |
| TENT | WA | 3850 | 1912 |  | N |  |
| SAINT MARGARET | VIC | 6299 | 1889 | 0 | N |  |
| ROTTNEST | WA | 2875 | 1884 | 1 | Y | cats eradicated |
| STORR | WA | 2450 | 2119 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| HIDDEN | WA | 3617 | 2011 | 0 |  |  |
| NT ISLAND C033 | NT | 9089 | 1868 |  | N |  |
| KATERS | WA | 3396 | 1683 | 0 |  |  |
| BREMER | NT | 108 | 1679 | 0 | N |  |
| SHAW | QLD | 3778 | 1604 |  | N |  |
| LORD HOWE | NSW | 8664 | 1591 | 1 | Y | cats eradicated |
| FLINDERS | QLD | 2299 | 1518 | 0 |  |  |
| SAINT ANDREW | WA | 6833 | 1547 | 0 |  |  |
| CHAMPAGNY | WA | 3519 | 1395 | 0 |  |  |
| SUNDAY | WA | 4778 | 1450 | 0 | N |  |
| NORTHWEST VERNON | NT | 6595 | 1381 |  | N |  |
| ORPHEUS (GOOLBODDI) | QLD | 6007 | 1342 | 0 | N |  |
| PURRUNGKU | WA | 2374 | 1341 |  | N |  |
| LONG | WA | 2614 | 1340 | 0 | N |  |
| SOUTH WEST OSBORN | WA | 7758 | 1271 | 0 |  |  |
| GREAT KEPPEL | QLD | 6095 | 1339 |  | N |  |
| WATSON | NT | 7940 | 1422 | 0 |  |  |
| LEGENDRE | WA | 4886 | 1320 | 1 | Y | cats eradicated |
| SOUTH PERCY | QLD | 3839 | 1282 | 0 | N |  |
| ASTELL | NT | 4380 | 1265 | 0 | N |  |
| TURTLE HEAD | QLD | 2157 | 1253 |  | N |  |
| GARDEN | WA | 8358 | 1209 | 1 | Y | cats eradicated |
| SUNDAY | VIC | 2983 | 1192 | 1 | Y | cats eradicated |
| LACHLAN | WA | 3695 | 1241 | 0 |  |  |
| DEPUCH | WA | 1591 | 1137 | 0 | N |  |
| SWEERS | QLD | 1528 | 1132 | 0 | N |  |
| ROSEMARY | WA | 1635 | 1132 | 1 | Y | cats eradicated |
| HERMITE | WA | 554 | 1110 | 1 | Y | cats eradicated |
| LINGNOONGANEE (WALLABY) | QLD | 1184 | 680 | 0 |  |  |
| PERKINS | TAS | 2018 | 1084 |  | N |  |
| EYRE | SA | 5116 | 1071 | 0 | N |  |
| SAINT BEES | QLD | 8209 | 1044 | 0 | N |  |
| MIDDLE (RECHERCHE) | WA | 2947 | 986 | 0 |  |  |
| EAST LEWIS | WA | 2657 | 1002 | 0 | N |  |
| LONG | QLD | 8140 | 993 | 0 | N |  |
| BOSTON | SA | 4021 | 949 | 0 | N |  |
| WEDGE | SA | 1937 | 943 | 0 | N |  |
| IRVINE | WA | 3593 | 938 | 0 | N |  |
| ANGEL | WA | 2695 | 916 | 1 | Y | cats eradicated |
| UN-NAMED | WA |  | 897 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| WOLLASTON | WA | 6802 | 869 | 0 | N |  |
| STANLEY | QLD | 7734 | 850 | 0 | N |  |
| TOOMBULI (ALGER) | NT | 1126 | 845 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| GIDLEY | WA | 5978 | 848 | 1 | Y | cats eradicated |
| LIZARD | QLD | 4568 | 847 | 0 | N |  |
| MARY | WA | 2288 | 922 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| BALD | WA | 2927 | 820 |  | N |  |
| BYAM MARTIN ( BRAM MARTIN) | WA | 4670 | 801 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| MONDRAIN | WA | 8435 | 802 | 0 |  |  |
| VANSITTART | TAS | 4153 | 802 | 0 | N |  |
| GOOLD | QLD | 4919 | 795 |  | N |  |
| GRAHAM | NT | 2120 | 923 | 0 |  |  |
| HASLEWOOD | QLD | 3753 | 772 | 0 | N |  |
| RAYMOND | VIC |  | 769 | 0 |  |  |
| SOUTH HEYWOOD | WA |  | 768 | 0 |  |  |
| TORRENS | SA | 8413 | 748 |  | N |  |
| JIRRGARRI | NT | 3210 | 745 | 0 |  |  |
| WEST SISTER (INNER SISTER) | TAS | 8532 | 734 | 0 | N |  |
| BORDA | WA | 1248 | 684 | 0 |  |  |
| FANTOME | QLD | 6008 | 726 | 0 | N |  |
| DUNK (COONANGLEBAH) | QLD | 8174 | 721 | 0 | N |  |
| HOPE | WA | 9012 | 690 |  | N |  |
| HAMILTON | QLD | 7046 | 680 | 0 | N |  |
| MELOMYS | WA | 405 | 727 | 0 |  |  |
| MOUNT ADOLPHUS | QLD | 8811 | 660 | 0 |  |  |
| SAINT FRANCIS | SA | 6182 | 671 | 0 | Y | cats eradicated |
| LINDEMAN | QLD | 5981 | 668 | 0 | N |  |
| WALKER | TAS | 908 | 659 | 0 | N |  |
| KANGAROO (BOONNAHBAH) | QLD | 8346 | 644 |  | N |  |
| SKULL | NT | 1427 | 677 | 0 |  | ([Woinarski et al., 2011](#_ENREF_77)) |
| WOODY | QLD | 7193 | 626 | 0 | N |  |
| WARGUL WARGUL | WA |  | 626 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| WOOGOOMPAH | QLD | 9020 | 620 |  | N |  |
| THEVENARD | WA | 8218 | 619 | 1 | Y | cats eradicated |
| BATHURST | WA | 7983 | 586 | 0 |  |  |
| NORTHWEST MOLEMA | WA |  | 592 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| WEST WALLABI | WA | 2864 | 613 | 0 |  |  |
| ALBANY | QLD | 5447 | 584 | 0 | N |  |
| ZUNA | QLD | 50 | 567 |  | N |  |
| MARBLE | QLD | 6062 | 564 |  | N |  |
| CARLISLE | QLD | 3816 | 559 | 0 | N |  |
| SOUTH PERON | NT | 3298 | 538 | 0 | N |  |
| LITTLE SNAKE | VIC | 7364 | 532 | 0 | N |  |
| DE WITT | TAS | 7513 | 524 | 0 | N |  |
| PEEL (TURKROOAR) | QLD | 5100 | 520 |  | N |  |
| POSSESSION | QLD | 5446 | 501 | 0 |  |  |
| COCKATOO | WA | 6902 | 519 | 0 | N |  |
| DIXON | WA | 3738 | 511 | 0 | N |  |
| TRIMOUILLE | WA | 3762 | 511 | 1 | Y | cats eradicated |
| FISHERMAN | QLD | 1790 | 507 |  | N |  |
| NORTH KEPPEL | QLD | 5028 | 496 | 0 | N |  |
| FRIDAY | QLD | 1057 | 492 | 0 | N |  |
| RABBIT | QLD | 611 | 479 | 0 | N |  |
| ILYAUGWAMAJA | NT |  | 471 |  | N |  |
| CURACOA (NOOGOO) | QLD | 4921 | 471 |  | N |  |
| BLACK CRAGGY (BLACK ISLET) | NT | 2494 | 465 | 0 | N | ([Woinarski et al., 2011](#_ENREF_77)) |
| CARLIA | WA | 4518 | 442 | 0 |  |  |
| BRAMPTON | QLD | 2726 | 447 | 0 | N | cats eradicated |
| HOWICK | QLD | 7883 | 512 | 0 |  |  |
| DOG | VIC | 4080 | 443 | 0 | N |  |
| SAINT PATRICK | WA | 5738 | 437 |  | N |  |
| SPILSBY | SA | 7300 | 428 | 0 | N |  |
| NORTH EAST | NT | 6571 | 424 | 0 | N |  |
| WULALAM | WA | 8101 | 981 |  |  | ([Gibson and McKenzie, 2012](#_ENREF_35)) |
| REEVESBY | SA | 8457 | 409 | 1 | Y | cats eradicated |
| DENT | QLD | 4884 | 396 | 0 | N |  |
| POBASSOO | NT | 101 | 391 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| MAER (MURRAY, MER) | QLD | 1072 | 411 | 0 |  |  |
| SIR FREDERICK | WA | 6905 | 398 | 0 |  |  |
| WILD DUCK | QLD | 2761 | 386 |  | N |  |
| PELARUS (PELORUS) | QLD | 6006 | 384 | 0 | N |  |
| PORT LIHU | QLD | 7585 | 384 |  | N |  |
| BAMAGA (BUMAGA) | NT | 6557 | 375 | 0 |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| SALISBURY | WA | 1907 | 349 | 0 |  |  |
| HAYMAN | QLD | 4868 | 351 | 0 | N |  |
| MIDDLE (Barrow grp) | WA | 4953 | 351 | 0 | N |  |
| THURSDAY | QLD | 5427 | 341 |  | N |  |
| EAST (WALDEGROVE) | SA | 764 | 335 | 0 | N |  |
| CONILURUS | WA |  | 329 | 0 |  |  |
| FITZROY | QLD | 7008 | 327 | 0 | N |  |
| GOAT | SA | 8361 | 326 | 0 | N |  |
| ERITH | TAS | 4088 | 320 | 0 | N |  |
| DJEEGARRY | NT | 2190 | 318 | 0 |  |  |
| MALUS | WA | 4910 | 221 | 0 |  |  |
| LONG | TAS | 937 | 316 | 0 | N |  |
| HUMMOCK | VIC |  | 313 | 0 |  |  |
| BEDFORD SOUTH | WA |  | 310 | 0 |  |  |
| EAST WALLABI | WA | 8349 | 329 | 0 |  |  |
| TRUANT | NT | 62 | 305 | 0 | N | ([Woinarski et al., 1999](#_ENREF_76)) |
| KINGFISHER | WA | 6901 | 1069 | 0 |  |  |
| SERRURIER | WA | 6047 | 300 | 1 | Y | cats eradicated |
| EAST SCRUBBY | VIC | 1922 | 293 |  | N |  |
| DOVER | TAS | 853 | 291 |  | N |  |
| GIBBINGS | WA | 409 | 348 | 0 | N |  |
| BIG BROMBY | NT | 6576 | 281 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| NORTH TWIN PEAK | WA | 2932 | 276 | 0 | N |  |
| ADELE | WA | 365 | 268 | 0 | N |  |
| DOOLE | WA | 3875 | 261 |  | N |  |
| TAYLOR | SA | 800 | 259 | 0 | N |  |
| NORTH GIDLEY | WA | 3767 | 67 | 0 |  |  |
| NORTH MOLLE | QLD | 8133 | 257 | 0 | N |  |
| HOGAN | TAS | 6308 | 255 | 0 | N |  |
| BAYLEY | QLD | 5921 | 254 |  | N |  |
| PASSAGE | TAS | 8526 | 253 |  | N |  |
| CRUSOE | QLD | 727 | 249 |  | N |  |
| FIGURE OF EIGHT | WA | 6256 | 246 | 0 | N |  |
| RIMBIJA | NT | 3202 | 244 | 0 | N | ([Woinarski et al., 1999](#_ENREF_76)) |
| YARRNGANJUR (WARNAWI) | NT | 66 | 241 | 0 |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| FRANKLIN (WEST FRANKLIN) | SA | 8365 | 241 | 0 | N |  |
| FRANKLIN (EAST) | SA | 764 or 746 | 233 |  | N |  |
| MIDDLE GIDLEY | WA | 8153 | 231 |  | N |  |
| CAFFARELLI | WA | 4724 | 273 | 0 |  |  |
| NORTH EAST PERCY | QLD | 4977 | 246 | 0 |  |  |
| DAW | WA | 5139 | 213 | 0 |  |  |
| KING HALL | WA | 1474 | 206 | 0 |  |  |
| PENRITH | QLD | 615 | 208 |  | N |  |
| PRESERVATION | TAS | 4166 | 204 | 0 | N |  |
| MASILLON | SA | 748 | 148 | 0 |  |  |
| BOODIE | WA | 4959 | 202 | 0 | N |  |
| WOODY | WA | 8395 | 199 | 0 | N |  |
| LOUTH | SA | 8462 | 198 |  | N |  |
| GERMEIN | SA | 3986 | 197 | 0 | N |  |
| PHILLIP | CWLTH | 8765 | 195 | 0 | N |  |
| NORTH (ABROLHOS) | WA | 1800 | 189 | 0 | N |  |
| SAINT HELENA | QLD | 1791 | 186 |  | N |  |
| MAATSUYKER | TAS | 1023 | 181 | 0 | N |  |
| PEARSON NORTH | SA | 4011 | 179 | 0 | N |  |
| TIN KETTLE | TAS | 934 | 176 |  | N |  |
| BETSEY | TAS | 2056 | 175 |  | N |  |
| MACKENZIE | QLD | 8274 | 171 |  | N |  |
| TYNEMOUTH | QLD | 6064 | 170 |  | N |  |
| GREENLY | SA | 1917 | 170 | 0 | N |  |
| NORTH NEPTUNE | SA | 8493 | 183 | 0 |  |  |
| SALUTATION | WA | 1786 | 169 | 0 | N |  |
| FORSYTH | TAS | 8527 | 167 |  | N |  |
| BOXER | WA | 2936 | 166 | 0 | N |  |
| WILLIAMS | SA | 1969 | 165 | 0 | N |  |
| KANGAROO | TAS | 4185 | 165 |  | N |  |
| ANDERSON | TAS | 2001 | 162 | 1 | N |  |
| PELSAERT | WA | 784 | 162 | 0 | N |  |
| CORRIE | NSW | 6188 | 159 |  | N |  |
| AKENS | QLD | 7098 | 157 |  | N |  |
| GABO | VIC | 6337 | 157 | 1 | Y | cats eradicated |
| BOSANQUET | NT | 6586 | 155 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| EAST KANGAROO | TAS | 5294 | 155 | 0 | N |  |
| HAVANNAH | QLD | 529 | 151 |  | N |  |
| GREAT GLENNIE | VIC | 862 | 148 | 0 | N |  |
| KNIGHT | QLD | 8217 | 144 |  | N |  |
| LADY JULIA PERCY | VIC | 6345 | 142 | 0 | N |  |
| CLONMEL | VIC | 6305 | 140 | 0 | N |  |
| BIG DOG | VIC | 846 | 136 |  | N |  |
| GARDEN | SA | 6239 | 135 |  | N |  |
| PULU KEELING (NORTH KEELING) | CWLTH | 8737 | 122 | 0 |  |  |
| LIGUANEA | SA | 4118 | 129 | 0 | N |  |
| HOTSPUR | QLD | 1685 | 126 |  | N |  |
| GRASSY | QLD | 1601 | 125 | 0 | N |  |
| BIG GREEN | TAS | 6376 | 123 | 0 | N |  |
| LACY | SA | 5119 | 122 | 0 | N |  |
| BOX BANK | VIC | 6303 | 122 |  | N |  |
| TREFOIL | TAS | 912 | 120 | 0 | N |  |
| TASMAN | TAS | 6456 | 119 | 1 | Y | cats eradicated |
| NORTHWEST | WA | 2670 | 119 | 0 | N |  |
| CHANNEL | NT | 4420 | 117 |  | N |  |
| SLOPING | TAS | 2048 | 116 | 0 | N |  |
| RODONDO | TAS | 6310 | 114 |  | N |  |
| MIDDLE MANGROVE | WA | 2744 | 116 | 0 |  |  |
| HOPKINS | SA | 1885 | 127 | 0 |  |  |
| BREAKSEA | WA | 5264 | 110 | 0 | N |  |
| NORTHWEST | QLD | 2795 | 109 | 1 | N | cats eradicated |
| DRUM | VIC | 6321 | 108 |  | N |  |
| ALPHA | WA | 8150 | 108 |  | N |  |
| PARTRIDGE | TAS | 946 | 107 |  | N |  |
| ECLIPSE | WA | 6328 | 107 | 0 | N |  |
| MCDONALD | CWLTH | 8791 | 106 |  |  |  |
| GOOSE | TAS | 6381 | 106 |  | N |  |
| BULLLOCK | VIC | 9009 | 104 |  | N |  |
| HAUY | WA | 2684 | 103 | 0 | N |  |
| ANGARUMURADA | NT | 7626 | 102 |  | N |  |
| HORSBURGH (PULU LUAR | CWLTH | 8736 | 100 | 0 | N | ([Algar et al., 2003](#_ENREF_5)) |
| EBA) | SA | 1823 | 100 |  | N |  |
| ROXBY | SA | 835 | 99 |  | N |  |
| NEW YEAR | TAS | 4138 | 98 |  | N |  |
| MICHAELMAS | WA | 1971 | 98 |  | N |  |
| DIGBY | QLD | 8221 | 96 |  | N |  |
| WEST (LACEPEDE) | WA | 8088 | 91 |  | N |  |
| OBSERVATORY | WA | 772 | 89 |  | N |  |
| GRINDAL | SA | 6240 | 88 |  | N |  |
| LITTLE GREEN | TAS | 7420 | 87 |  | Y | cats eradicated |
| BEDARRA | QLD | 576 | 86 |  | N |  |
| CHARLEY | WA | 7268 | 85 | 0 | N |  |
| HUMMOCKY | QLD | 1743 | 84 |  | N |  |
| VARANUS | WA | 1717 | 83 |  | N |  |
| LITTLE DOG | TAS | 8549 | 81 |  | N | cats eradicated |
| MONTAGUE | NSW | 7384 | 80 |  | N |  |
| NEW YEAR | NT | 2156 | 77 |  | N |  |
| BURNSIDE | WA | 6071 | 77 |  | N |  |
| CHRISTMAS | TAS | 1990 | 74 |  | N |  |
| ILE DU GOLFE | TAS | 5390 | 72 |  | N |  |
| CAREY | WA | 4957 | 72 |  | N |  |
| JENSEN | NT | 68 | 71 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| QUAIL (DOOENDA) | NT | 1156 | 70 |  | N |  |
| HIGH | QLD | 3644 | 70 |  | N |  |
| WARRABER ISLET | QLD | 20 | 70 |  | N |  |
| NORTH (Gambier group) | SA | 1918 | 70 |  | N |  |
| PERFORATED | SA | 8412 | 68 |  | N |  |
| EAST REPULSE | QLD | 7021 | 67 |  | N |  |
| NT ISLAND 063 (Crocodile Islands group) | NT | 4386 | 65 |  | N |  |
| RAT | WA | 5152 | 65 |  | Y | cats eradicated ([Dunlop et al., 2015](#_ENREF_31)) |
| ALTHORPE | SA | 1942 | 64 |  | Y |  |
| STICKNEY | SA | 796 | 64 |  | N |  |
| WEST BIRD | SA | 6221 | 64 |  | N |  |
| DOUBTFUL | WA | 2956 | 63 |  | N |  |
| BLUEBELL | WA | 7050 | 62 |  | Y | cats eradicated |
| MIDDLE | WA | 1572 | 61 |  | N |  |
| F | NT | 6563 | 60 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| NEWRY | QLD | 2729 | 60 |  | N |  |
| SOUTH NEPTUNES | SA | 872 | 60 |  | N |  |
| FRANKLIN | VIC | 7361 | 60 |  | N |  |
| SMOOTH | TAS | 986 | 59 |  | N |  |
| CHURCHILL | VIC | 5218 | 59 |  | Y | cats eradicated |
| MUNYANA | NT | 5439 | 58 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| DOROTHEE | SA | 8421 | 58 |  | N |  |
| SADDLEBACK | QLD | 539 | 56 |  | N |  |
| GOOSE | WA | 819 | 56 |  | N |  |
| DHARAWUL | NT | 5494 | 55 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| MONTAGU | TAS | 7444 | 55 |  | N |  |
| BOWEN | CWLTH | 4072 | 54 |  | N |  |
| OUTER NEWRY | QLD | 3818 | 54 |  | N |  |
| CULL | WA | 2908 | 54 |  | N |  |
| HUMPY | QLD | 2793 | 53 |  | N |  |
| PEARSON ISLES | SA | 7273 | 53 |  | N |  |
| BROMBY 2 (SOUTH WEST BROMBY) | NT | 4382 | 62 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| SIMS | NT | 6552 | 51 |  | N |  |
| GRANTHAM | SA | 7302 | 51 |  | N |  |
| SAINT HELENS | TAS | 2029 | 47 |  |  | cats eradicated |
| ROBERTS | VIC | 5226 | 51 |  | N |  |
| RENEWAL | WA | 4906 | 51 |  | N |  |
| THOMAS | WA | 7277 | 51 |  | N |  |
| HAREBY | SA | 4067 | 50 |  | N |  |
| YANGIE BAY | SA | 7347 | 48 |  | N |  |
| MUTTONBIRD | TAS | 3063 | 48 |  | N |  |
| CHINAMAN | VIC | 5255 | 48 |  | N |  |
| PARTNEY | SA | 8458 | 47 |  | N |  |
| HUON | TAS | 5368 | 47 |  | N |  |
| MONUMENT ROCK | TAS | 2029 | 47 |  | N |  |
| CROCODILE | NT | 2242 | 46 |  | N |  |
| KIDNEY | NT | 2203 | 46 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| CARLO | QLD | 8309 | 46 |  | N |  |
| CAMPBELL | WA | 8154 | 45 |  | N |  |
| NORTH FOUR HUMMOCKS | SA | 7301 | 44 |  | N |  |
| SOUTH (Wessel grp) | NT | 3207 | 42 |  | N | ([Woinarski et al., 1999](#_ENREF_76)) |
| LADY ELLIOT | QLD | 8905 | 42 |  | N |  |
| KEAST | WA | 7048 | 41 |  | N |  |
| MILSON | NSW | 3990 | 40 |  | N |  |
| LABU | NT | 1378 | 43 |  |  | ([Woinarski et al., 2011](#_ENREF_77)) |
| CHALKY | TAS | 4149 | 40 |  | N |  |
| PRIMROSE | WA | 5968 | 40 |  | N |  |
| HENNING | QLD | 546 | 39 |  | N |  |
| CAT | TAS | 924 | 38 |  | N |  |
| CROCUS | WA | 3771 | 37 |  | N |  |
| DELTA | WA | 5984 | 37 |  | N |  |
| BRUSH | NSW | 8500 | 36 |  | N |  |
| SIBSEY | SA | 6234 | 36 |  | N |  |
| BLACK PYRAMID | TAS | 5305 | 36 |  | N |  |
| SHELLBACK | VIC | 5233 | 36 |  | N |  |
| KNOLL | NT | 7664 | 35 |  | N |  |
| KIRKBY | SA | 8459 | 35 |  | N |  |
| DIRECTION (PULU TIKUS) | CWLTH | 8735 | 29 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| ROYDON | TAS | 918 | 34 |  | N |  |
| SATELLITE | TAS | 8629 | 34 |  | N |  |
| DUDLY | NT | 2247 | 33 |  | N |  |
| WEST (WALDGRAVE) | SA | 6197 | 33 |  | N |  |
| DANGAR | NSW | 6195 | 32 |  | N |  |
| NT ISLAND 233 | NT | 5710 | 32 |  | N |  |
| MASTHEAD | QLD | 3889 | 32 |  | N |  |
| WALTER | QLD | 625 | 32 |  | N |  |
| PRICE | SA | 6236 | 32 |  | N |  |
| WEST MOORE | WA | 1716 | 32 |  | Y |  |
| MIDDLE | SA | 2998 | 31 |  | N |  |
| LONG ISLET | TAS | 1926 | 31 |  | N |  |
| CABBAGE TREE | NSW | 7252 | 30 |  | N |  |
| TUMBY | SA | 4063 | 30 |  | N |  |
| HOPE | TAS | 5372 | 29 |  | N |  |
| BOULLANGER | WA | 1874 | 29 |  | N |  |
| L | NT | 7617 | 28 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| WINCEBY | SA | 6287 | 28 |  | N |  |
| ALBATROSS | TAS | 8553 | 28 |  | N |  |
| LITTLE BROUGHTON | NSW | 8371 | 27 |  | N |  |
| FOUR HUMMOCKS (CENTRAL) | SA | 5166 | 27 |  | N |  |
| NORTH PASCO | TAS | 3043 | 26 |  | N |  |
| BOATSWAIN | VIC | 884 | 26 |  | Y | cats eradicated |
| RABBIT | VIC | 4094 | 26 |  | N |  |
| LANGTON | SA | 4068 | 25 |  | N |  |
| NINTH | TAS | 5332 | 25 |  | N |  |
| PULU PANDAN | CWLTH | 8718 | 19 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| DOUBLE | WA | 3799 | 24 |  | N |  |
| LEO | WA | 6173 | 24 |  | N |  |
| NORTH (Wessels grp) | NT | 4335 | 23 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| FOUR HUMMOCKS (SOUTH) | SA | 7303 | 23 |  | N |  |
| STACK | TAS | 5280 | 23 |  | N |  |
| STEEP | TAS | 4132 | 23 |  | N |  |
| PULU WAK BENGKA | CWLTH |  | 22 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| MAI | QLD | 7586 | 22 |  | N |  |
| DANNEVIG | VIC | 8491 | 22 |  | N |  |
| EASTERN | VIC | 6340 | 22 |  | N |  |
| ELIZABETH | VIC | 6346 | 22 |  | N |  |
| BEDOUT | WA | 531 | 22 |  | N |  |
| BRIDLED | WA | 7159 | 22 |  | N |  |
| DIRECTION | WA | 3831 | 22 |  | N |  |
| SOUTH WEST | TAS | 1930 | 21 |  | N |  |
| CARNAC | WA | 1811 | 21 |  | N |  |
| MIDDLE | WA | 5159 | 21 |  | N |  |
| EMU | NT | 7593 | 19 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| WHITE CRAGGY | NT | 5763 | 18 |  |  | ([Woinarski et al., 2011](#_ENREF_77)) |
| SOUTH PASCO | TAS | 925 | 20 |  | N |  |
| CITADEL | VIC | 4095 | 20 |  | N |  |
| SOUTH EAST | WA | 2682 | 20 |  | N |  |
| BIG | NSW | 4065 | 19 |  | N |  |
| RUSSELL | QLD | 5855 | 19 |  | N |  |
| KING GEORGE | TAS | 8612 | 19 |  | N |  |
| SEAL | VIC | 8487 | 19 |  | N |  |
| AH CHONG | WA | 4916 | 19 |  | N |  |
| K | NT | 3230 | 18 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| YINGALNGALA | NT | 99 | 18 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| GREEN | QLD | 1569 | 18 |  | N |  |
| LUSBY | SA | 2961 | 18 |  | N |  |
| RABBIT | SA | 1915 | 18 |  | N |  |
| TOPGALLANT | SA | 5136 | 18 |  | N |  |
| BREAKSEA | TAS | 8630 | 18 |  | N |  |
| EAST MONCOEUR | TAS | 4087 | 18 |  | N |  |
| WOODED | WA | 6222 | 18 |  | N |  |
| NECK | TAS |  | 18 |  |  | Pemberton & Hawkins 2011 |
| YORK (WAMILUG) | QLD | 6527 | 17 |  | N |  |
| ISLAND A | SA | 5131 | 17 |  | N |  |
| EAST ISLET | TAS | 6309 | 17 |  | N |  |
| FAIRFAX B | QLD | 8873 | 16 |  | N |  |
| BAIRD | SA | 6192 | 16 |  | N |  |
| ACTAEON | TAS | 7507 | 16 |  | N |  |
| PUNCHEON | TAS | 7422 | 16 |  | N |  |
| WEST MONCOUER | TAS | 849 | 16 |  | N |  |
| BROWSE | WA | 175 | 16 |  | N |  |
| SHAG ISLET (Heard grp) | CWLTH | 8777 | 15 |  |  |  |
| NGANGATJA | NT | 3247 | 15 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| HERON | QLD | 2801 | 15 |  | Y | cats eradicated |
| NORTH REPULSE | QLD | 4853 | 15 |  | N |  |
| SOLDIERS | QLD | 8599 | 15 |  | N |  |
| WEST | SA | 3001 | 15 |  | N |  |
| TAILLEFER ROCKS | TAS | 4210 | 15 |  | N |  |
| DOUBLE NORTH | WA | 591 | 15 |  | N |  |
| IVY | WA | 7070 | 15 |  | N |  |
| SOLDIERS | TAS | 8599 | 15 |  |  | Pemberton & Hawkins 2011 |
| DART | TAS | 7487 | 14 |  | N |  |
| WYBALENA | TAS | 927 | 14 |  | N |  |
| DUCK | VIC | 1963 | 14 |  | N |  |
| BROOKE | WA | 560 | 14 |  | N |  |
| LION | NSW | 5132 | 13 |  | N |  |
| ISLAND B | SA | 3985 | 13 |  | N |  |
| DOUGHBOY | TAS | 8552 | 13 |  | N |  |
| RUM | TAS | 7404 | 13 |  | N |  |
| COHEN | WA | 8147 | 13 |  | N |  |
| ESCAPE | WA | 4017 | 13 |  | N |  |
| MISTAKEN | WA | 4126 | 13 |  | N |  |
| MUTTONBIRD | NSW | 9081 | 12 |  | Y | cats eradicated |
| BROMBY 12 | NT | 1124 | 12 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| BROMBY 7 | NT | 6578 | 12 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| LADY MUSGRAVE | QLD | 5041 | 12 |  | N |  |
| JONES | SA | 6193 | 12 |  | N |  |
| PENGUIN | WA | 2885 | 12 |  | N |  |
| BROMBY 6 | NT | 3242 | 11 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| TROUBRIDGE | SA | 7350 | 11 |  | Y | cats eradicated |
| LOW ISLETS | TAS | 3046 | 11 |  | N |  |
| TWIN ISLETS | TAS | 848 | 11 |  | N |  |
| NOTCH | VIC | 7370 | 11 |  | N |  |
| LONG | WA | 3959 | 11 |  | N |  |
| MORLEY | WA | 778 | 11 |  | N |  |
| SHELTER | WA | 4124 | 11 |  | N |  |
| PULU SIPUT | CWLTH | 8717 | 10 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| ISABELLA | TAS | 5292 | 10 |  | N |  |
| MCHUGH | VIC | 4096 | 10 |  | N |  |
| REEF | VIC | 5217 | 10 |  | N |  |
| GALIWULAN | NT | 6585 | 9 |  |  |  |
| O | NT | 1091 | 9 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| SOUTHPORT | TAS | 7437 | 9 |  |  | Pemberton & Hawkins 2011 |
| GEORGE | TAS | 4198 | 9 |  | N |  |
| INNER DOUGHBOY | TAS | 3076 | 9 |  | N |  |
| MANGROVE ROOT | VIC | 8471 | 9 |  | N |  |
| CAP | SA | 7271 | 8 |  | N |  |
| MARUM | SA | 7346 | 8 |  | N |  |
| GULL | TAS | 3056 | 8 |  | N |  |
| ILES DES PHOQUES | TAS | 8600 | 8 |  | N |  |
| NORTHERN FOSTERS ISLET | TAS | 5327 | 8 |  | N |  |
| SARAH | TAS | 4211 | 8 |  | N |  |
| SANDY | WA | 2630 | 8 |  | N |  |
| GUNYAMI | NT | 6591 | 7 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| NORTH BICKERS | SA | 2925 | 7 |  | N |  |
| PIGFACE | SA | 5126 | 7 |  | N |  |
| SENTINEL | TAS | 7409 | 7 |  | N |  |
| CLIFFY | VIC | 5232 | 7 |  | Y | cats eradicated |
| PULU AMPANG | CWLTH | 8729 | 6 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| BROMBY 14 | NT | 7630 | 6 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| BROMBY 3 | NT | 6581 | 6 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| RANBA | NT | 5495 | 6 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| X | NT | 3204 | 6 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| ISLAND C | SA | 8374 | 6 |  | N |  |
| LOUND | SA | 2882 | 6 |  | N |  |
| BOXEN | TAS | 5299 | 6 |  | N |  |
| SPIKE | TAS | 7405 | 6 |  | N |  |
| BENNISON | VIC | 7369 | 6 |  | N |  |
| RABBIT | VIC | 8512 | 6 |  | N |  |
| RAG | VIC | 8489 | 6 |  | N |  |
| WEDGE | WA | 793 | 6 |  | N |  |
| WHITLOCK | WA | 791 | 6 |  | N |  |
| FLAT (Heard grp) | CWLTH | 8790 | 5 |  |  |  |
| SPLIT SOLITARY | NSW | 1872 | 5 |  | N |  |
| TOLLGATE | NSW | 875 | 5 |  | N |  |
| HOSKYN A | QLD | 3893 | 5 |  | N |  |
| ONE TREE | QLD | 1746 | 5 |  | N |  |
| DUFFIELD | SA | 4020 | 5 |  | N |  |
| SOUTH WEST ROCK | SA | 4102 | 5 |  | N |  |
| CONE | TAS | 5223 | 5 |  | N |  |
| DIAMOND | TAS | 4202 | 5 |  | N |  |
| GREEN | TAS | 7495 | 5 |  | N |  |
| REFUGE | TAS | 2034 | 5 |  | N |  |
| ROUND | TAS | 2978 | 5 |  | N |  |
| WOODY | TAS | 7470 | 5 |  | N |  |
| BOOMERANG | WA | 2714 | 5 |  | N |  |
| GREEN | WA | 6232 | 5 |  | N |  |
| PIGEON | WA | 7238 | 5 |  | N |  |
| PULU KEMPANG | CWLTH | 8725 | 3 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| PULU LABU | CWLTH | 8715 | 4 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| HERALD | NT | 1129 | 4 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| ISLAND 29 (Wessels grp) | NT | 6580 | 4 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| FAIRFAX A | QLD | 8280 | 4 |  | N |  |
| ISLAND POINT | SA | 829 | 4 |  | N |  |
| RABBIT | SA | 2962 | 4 |  | N |  |
| BIG STONY | TAS | 7406 | 4 |  | N |  |
| HOWIE | TAS | 7443 | 4 |  | N |  |
| LACHLAN | TAS | 6431 | 4 |  | N |  |
| LITTLE CHALKY | TAS | 7419 | 4 |  | N |  |
| PADDY'S | TAS | 8591 | 4 |  | N |  |
| SNAKE | TAS | 1000 | 4 |  | N |  |
| SWAINSON | TAS | 7426 | 4 |  | N |  |
| BEACON | WA | 3864 | 4 |  | N |  |
| PULU BLAN | CWLTH | 8704 | 3 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| PULU BLAN MADAR | CWLTH | 8701 | 2 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| PULU BLEKOK | CWLTH | 8726 | 3 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| ISLAND 22 (Wessels grp) | NT | 4377 | 3 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| N | NT | 2168 | 3 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| WRECK | QLD | 7176 | 3 |  | N |  |
| PULLEN | SA | 1945 | 3 |  | N |  |
| LITTLE CHRISTMAS | TAS | 6426 | 3 |  | N |  |
| MILE | TAS | 929 | 3 |  | N |  |
| STERILE | TAS | 6478 | 3 |  | N |  |
| WEST FOSTERS ISLET | TAS | 8576 | 3 |  | N |  |
| TULLABERGA | VIC | 1959 | 3 |  | N |  |
| FAVORITE | WA | 1873 | 3 |  | N |  |
| PULU WA-IDAS | CWLTH | 8727 | 1 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| BROMBY 9 | NT | 6577 | 2 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| GRANITE NORTH | NT | 5523 | 2 |  | N |  |
| NT ISLAND A208 | NT | 1176 | 2 |  | N |  |
| P | NT |  | 2 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| EAGLE | QLD | 7826 | 2 |  | N |  |
| PIGEON | QLD | 1608 | 2 |  | N |  |
| BAUDIN ROCKS | SA | 8506 | 2 |  | N |  |
| EAST BIRD | SA | 804 | 2 |  | N |  |
| LIPSON | SA | 2955 | 2 |  | N |  |
| LITTLE GOOSE | SA | 5206 | 2 |  | N |  |
| PENGUIN (OUTER) | SA | 3008 | 2 |  | N |  |
| SOUTH BICKERS | SA | 1876 | 2 |  | N |  |
| WRIGHT | SA | 1947 | 2 |  | N |  |
| FLAT TOP | TAS | 1024 | 2 |  | N |  |
| LITTLE | TAS | 4139 | 2 |  | N |  |
| LITTLE WATERHOUSE | TAS | 2023 | 2 |  | N |  |
| NED'S REEF | TAS | 8551 | 2 |  | N |  |
| THE CARBUNCLE | TAS | 6419 | 2 |  | N |  |
| RABBIT ROCK | VIC | 5231 | 2 |  | N |  |
| BLOODWOOD | WA | 1642 | 2 |  | N |  |
| GREEN (2)/GREEN (North) | WA | 8407 | 2 |  | N |  |
| PASCOE | WA | 613 | 2 |  | N |  |
| SLOPE | WA | 5078 | 2 |  | N |  |
| MAGAZINE | TAS | 2036 | 2 |  |  | Pemberton & Hawkins 2011 |
| ELIZABETH | TAS | 4207 | 2 |  |  | Pemberton & Hawkins 2011 |
| MEYER ROCK (Heard grp) | CWLTH | 8789 | 1 |  |  |  |
| PULU MARIA | CWLTH | 8703 | 2 |  |  | ([Algar et al., 2003](#_ENREF_5)) |
| ISLAND 32 (Wessels grp) | NT | 1127 | 1 |  |  | ([Woinarski et al., 1999](#_ENREF_76)) |
| NT ISLAND B278 (Groote archipelago) | NT | 1240 | 1 |  | N |  |
| BAUDIN ROCKS (2) | SA | 1953 | 1 |  | N |  |
| CHINAMAN'S HAT | SA | 8497 | 1 |  | N |  |
| GREEN | SA | 5209 | 1 |  | N |  |
| LOUTH (2) | SA | 6289 | 1 |  | N |  |
| MOUNT DUTTON NORTH | SA | 1913 | 1 |  | N |  |
| PENGUIN (INNER) | SA | 9066 | 1 |  | N |  |
| ROCKY | SA | 8455 | 1 |  | N |  |
| BEAGLE | TAS | 5298 | 1 |  | N |  |
| MAIN ISLET | TAS | 7421 | 1 |  | N |  |
| JESSIE | VIC | 4075 | 1 |  | N |  |
| MIDDLE | VIC | 3015 | 1 |  | N |  |
| SEAL ROCKS | VIC | 8467 | 1 |  | N |  |
| SOUTH CHANNEL | VIC | 4116 | 1 |  | N |  |

**Appendix B**

Feral cats in natural environments

**Table B1.** Estimated densities of feral cats in natural environments reported in Australian studies over the past 40 years (note that cats are no longer present on some sampled islands following eradication programs). The table includes information on cat density; the location of the study (the State/Territory of the site; co-ordinates); if the site was on an island smaller than Tasmania, then the size of this island; whether foxes were present at the site; whether the site was in an area managed broadly for conservation reserve or not; the method of density estimation (i.e. from spotlight surveys; camera trapping surveys, capture-based from live-trapping, radiotracking, and/or tracking surveys; and removal of individual cats from a confined area (island or fenced area)); the dates of the study; if the site was in an arid or semi-arid area, whether the estimate was derived at a time when conditions were dry or wet; the biophysical attributes of the site (mean annual rainfall, mean annual temperature, tree cover (mean % within 5-km radius), ruggedness (standard deviation of elevation (m) within 5-km radius); and the source of the density information presented.

| location | state | cat density (km-2) | lat | long | if island <  Tasmania then area (km2) | fox present (Y/N) | reserve (Y/N) | estimation method | study  dates | for arid or semi-arid, conditions wet or dry? | ann  rain (mm) | mean ann temp (°C) | tree cover (%) | rugged  (m) | source |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Althorpe Island | SA | 19.00 | -35.367 | 136.867 | 0.64 | N | Y | Removal | 1990 |  | 418 | 16.6 | 42.0 | 30.1 | ([Copley, 1991](#_ENREF_21)) |
| Arid Recovery | SA | 0.14 | -30.270 | 136.930 |  | Y | Y | Removal | 2008 | dry | 195 | 20.4 | 0.0 | 9.2 | K. Moseby/Arid Recovery, unpublished data |
| Artesian Range | WA | 0.00 | -16.364 | 125.097 |  | N | Y | Camera traps | 2011-14 |  | 1041 | 27.2 | 3.0 | 52.5 | ([Hohnen et al., 2016](#_ENREF_41)) |
| Astrebla Downs National Park | Qld | 0.06 | -24.167 | 140.600 |  | Y | Y | Spotlighting | 2008-15 | dry | 221 | 23.8 | 0.1 | 5.7 | M. Rich, B. Nolan, unpublished data |
| Astrebla Downs National Park | Qld | 8.89 | -24.167 | 140.600 |  | Y | Y | Spotlighting | 2012-13 | wet | 221 | 23.8 | 0.1 | 5.7 | M. Rich, B. Nolan, unpublished data |
| Balban, Upper Warren | WA | 0.06 | -34.100 | 116.567 |  | Y | Y | Camera traps | 2012 |  | 644 | 14.9 | 28.2 | 22.0 | A. Wayne, M. Maxwell, unpublished data |
| Barakula | Qld | 0.15 | -26.439 | 150.617 |  | Y | Y | Camera traps | 2012 |  | 670 | 19.2 | 41.6 | 11.0 | J. Rowland, T. Eyre, D. Ferguson, unpublished data |
| Ben Lomond-Upper Blessington | Tas | 0.25 | -41.484 | 147.575 |  | N | N | Camera traps | 2012 |  | 900 | 8.9 | 54.9 | 148.5 | B. Fancourt, unpublished data |
| Big Desert Wilderness Park / Wyperfeld NP | Vic | 1.01 | -35.683 | 141.433 |  | Y | Y | Camera traps | 2014 | dry | 345 | 15.8 | 20.2 | 4.4 | D. Nimmo, E. Ritchie, W. Geary, unpublished data |
| Boyicup, Upper Warren | WA | 0.03 | -34.300 | 116.600 |  | Y | Y | Camera traps | 2013 |  | 691 | 15.1 | 32.2 | 22.3 | A. Wayne, M. Maxwell, unpublished data |
| Brindabellas | ACT | 0.20 | -35.367 | 148.800 |  | Y | Y | Spotlighting | 1979-80 |  | 1209 | 10.4 | 69.5 | 189.5 | C. Dickman (unpublished data), also in ([Denny and Dickman, 2010](#_ENREF_25)) |
| Bronte Park - east and west | Tas | 0.32 | -42.081 | 146.462 |  | N | Y | Camera traps | 2013 |  | 1110 | 8.1 | 52.1 | 84.7 | B. Fancourt, unpublished data |
| Brooklyn | Qld | 0.31 | -16.600 | 145.200 |  | N | Y | Camera traps | 2014-15 |  | 973 | 23.5 | 28.8 | 111.7 | H.McGregor (AWC), unpublished data |
| Bruny Island - south | Tas | 0.50 | -43.308 | 147.316 | 355.52 | N | Part Y/N | Camera traps | 2012 |  | 840 | 12.0 | 63.0 | 87.8 | B. Fancourt, unpublished data |
| Bruny Island - north | Tas | 0.17 | -43.164 | 147.355 | 355.52 | N | N | Camera traps | 2012 |  | 728 | 12.1 | 47.7 | 42.9 | B. Fancourt, unpublished data |
| Buckland | Tas | 1.56 | -42.525 | 147.646 |  | N | N | Camera traps | 2012 |  | 775 | 10.2 | 56.6 | 76.5 | B. Fancourt, unpublished data |
| Burrendong | NSW | 1.65 | -32.545 | 149.167 |  | Y | Y | Spotlighting | 1994-97 |  | 732 | 15.1 | 13.3 | 71.8 | ([Molsher, 1999](#_ENREF_56)); C. Dickman, pers. comm. |
| Castle Forbes Bay | Tas | 0.50 | -43.123 | 146.942 |  | N | N | Camera traps | 2012 |  | 1056 | 9.5 | 60.4 | 202.6 | B. Fancourt, unpublished data |
| Charnley River | WA | 0.14 | -16.730 | 125.440 |  | N | Y | Camera traps | 2014-15 |  | 913 | 26.1 | 8.7 | 25.4 | H.McGregor (AWC), unpublished data |
| Coliban Park | Vic | 0.86 | -37.012 | 144.444 |  | Y | N | Removal | 1980-85 |  | 668 | 13.6 | 8.9 | 37.1 | ([Coman, 1991](#_ENREF_18); [Coman et al., 1992](#_ENREF_19); [Coman et al., 1991](#_ENREF_20)) |
| Connells Lagoon | NT | 2.50 | -18.883 | 136.567 |  | N | Y | Spotlighting | 1994 | wet | 414 | 25.7 | 3.1 | 2.1 | R. Paltridge in ([Dickman, 1996](#_ENREF_29)); R. Paltridge, pers. comm. |
| Cradle Mountain-Lake St Clair | Tas | 0.13 | -41.644 | 145.959 |  | N | Y | Camera traps | 2013 |  | 2817 | 5.2 | 72.0 | 127.9 | B. Fancourt, unpublished data |
| Cradoc | Tas | 2.50 | -43.104 | 147.046 |  | N | N | Camera traps | 2012 |  | 943 | 10.9 | 56.5 | 135.6 | B. Fancourt, unpublished data |
| De Rose Hill | SA | 0.11 | -26.487 | 133.205 |  | Y | N | Spotlighting | 1995-98 | dry | 192 | 20.6 | 0.5 | 7.4 | G. Edwards, unpublished data |
| Diamantina NP | Qld | 0.02 | -23.817 | 141.250 |  | Y | Y | Spotlighting | 2007-13 | dry | 239 | 24.1 | 0.0 | 3.8 | M. Rich, J. Augusteyn, unpublished data |
| Diamantina NP | Qld | 0.26 | -23.817 | 141.250 |  | Y | Y | Spotlighting | 2010-12 | wet | 239 | 24.1 | 0.0 | 3.8 | M. Rich, J. Augusteyn, unpublished data |
| Deddington | Tas | 0.38 | -41.562 | 147.444 |  | N | N | Camera traps | 2012 |  | 784 | 10.6 | 45.8 | 118.5 | B. Fancourt, unpublished data |
| East Gippsland | Vic | 0.35 | -37.511 | 149.343 |  | Y | Y | Camera traps | 2007-09 |  | 1060 | 13.4 | 76.3 | 64.0 | ([Buckmaster, 2011](#_ENREF_13)) |
| Erldunda | NT | 0.08 | -25.507 | 133.159 |  | Y | N | Spotlighting | 1995-98 | dry | 216 | 20.8 | 0.8 | 7.7 | G. Edwards, unpublished data |
| Ethabuka | Qld | 0.08 | -23.396 | 138.467 |  | Y | Y | Spotlighting | 1990-99 | dry | 205 | 23.8 | 0.0 | 5.1 | ([Dickman et al., 2014](#_ENREF_28)); C. Dickman, pers. comm. |
| Ethabuka | Qld | 1.83 | -23.396 | 138.467 |  | Y | Y | Spotlighting | 1990-99 | wet | 205 | 23.8 | 0.0 | 5.1 | ([Dickman et al., 2014](#_ENREF_28)); C. Dickman, pers. comm. |
| Faure Island | WA | 0.90 | -25.850 | 113.883 | 51.94 | N | Y | Removal | 2000 |  | 203 | 22.4 | 0.1 | 4.8 | ([Algar et al., 2010](#_ENREF_3); [Algar and Angus, 2008](#_ENREF_4)) |
| French Island | Vic | 0.75 | -38.350 | 145.350 | 173.82 | N | N | Capture-based | 1999 |  | 823 | 14.2 | 42.4 | 22.3 | ([McTier, 2000](#_ENREF_55)) |
| Freycinet National Park | Tas | 0.44 | -42.126 | 148.311 |  | N | Y | Camera traps | 2012 |  | 706 | 12.9 | 48.5 | 82.8 | B. Fancourt, unpublished data |
| Gabo Island | Vic | 20.00 | -37.567 | 149.917 | 1.57 | N | Y | Capture-based | 1987-91 |  | 889 | 15.2 | 50.9 | 24.6 | ([Twyford et al., 2000](#_ENREF_73)) |
| Gibson Desert | WA | 0.03 | -24.967 | 125.567 |  | Y | Y | Capture-based | 1989-90 | dry | 226 | 23.0 | 0.9 | 11.5 | ([Burrows and Christensen, 1994](#_ENREF_15)); N. Burrows, pers. comm. |
| Gibson Desert | WA | 0.13 | -24.967 | 125.567 |  | Y | Y | Capture-based | 1991-93 | wet | 226 | 23.0 | 0.9 | 11.5 | ([Burrows and Christensen, 1994](#_ENREF_15)); N. Burrows, pers. comm. |
| Gnalta | NSW | 2.00 | -31.083 | 142.317 |  | Y | N | Spotlighting | 1978 | dry | 272 | 19.2 | 0.6 | 13.6 | ([Mahood, 1980](#_ENREF_53)) |
| Great Dog Island | Tas | 57.00 | -40.250 | 148.250 | 3.58 | N | N | Removal | 1991 |  | 735 | 13.6 | 46.1 | 23.4 | ([Hayde, 1992](#_ENREF_39)) |
| Gudgenby Valley Namadgi | ACT | 0.10 | -35.626 | 148.975 |  | Y | Y | Camera traps | 2015 |  | 975 | 9.8 | 49.7 | 165.1 | D.Ramsey, D. Forsyth, L. Woodford, unpublished data |
| Hamilton Downs | NT | 0.10 | -23.517 | 132.967 |  | N | N | Spotlighting | 1994-97 | dry | 340 | 20.6 | 2.9 | 40.9 | ([Edwards et al., 2000](#_ENREF_32); [Edwards et al., 2001](#_ENREF_33)); G. Edwards, R. Paltridge pers. comm. |
| Hattah Kulkyne | Vic | 1.57 | -34.750 | 142.350 |  | Y | Y | Spotlighting | 1977-81 | dry | 317 | 16.9 | 9.1 | 4.5 | ([Jones and Coman, 1982](#_ENREF_44)) |
| Heirisson Prong | WA | 1.20 | -26.067 | 113.367 |  | N | N | Removal | 1993-95 | dry | 231 | 21.7 | 0.7 | 7.7 | ([Short and Turner, 2005](#_ENREF_70)) |
| Judbury | Tas | 0.67 | -43.024 | 146.916 |  | N | N | Camera traps | 2013 |  | 1121 | 10.0 | 57.2 | 149.8 | B. Fancourt, unpublished data |
| Kangaroo Island | SA | 0.75 | -35.800 | 137.967 | 4416.17 | N | N | Camera traps | 2010-11 |  | 599 | 14.8 | 20.0 | 31.2 | ([Bengsen et al., 2012a](#_ENREF_8); [Bengsen et al., 2012b](#_ENREF_9); [Paton, 1994](#_ENREF_64)) |
| Kapalga, Kakadu | NT | 0.19 | -12.640 | 132.404 |  | N | Y | Camera traps | 2015 |  | 1535 | 27.5 | 25.9 | 9.7 | D. Stokeld, G. Gillespie, unpublished data |
| Kellerberrin | WA | 2.40 | -31.523 | 117.867 |  | Y | N | Spotlighting | 1987-88 | dry | 330 | 17.8 | 1.1 | 20.7 | G. Smith; C. Dickman, unpublished data |
| Lake Echo | Tas | 0.25 | -42.161 | 146.673 |  | N | N | Camera traps | 2012 |  | 922 | 7.3 | 43.5 | 55.2 | B. Fancourt, unpublished data |
| Lake Leake | Tas | 0.25 | -41.890 | 147.782 |  | N | N | Camera traps | 2012 |  | 1115 | 10.4 | 60.5 | 116.5 | B. Fancourt, unpublished data |
| Macquarie Island | Tas | 2.10 | -54.500 | 158.950 | 131.01 | N | Y | Spotlighting | 1976-81 |  | 977 | 4.9 | 0.0 | 90.0 | ([Brothers et al., 1985](#_ENREF_11)) |
| Marion Downs | WA | 0.15 | -17.050 | 126.830 |  | N | Y | Camera traps | 2014-15 |  | 705 | 25.9 | 7.2 | 30.1 | ([McGregor et al., 2015](#_ENREF_54)); H. McGregor, pers. comm. |
| Mary River, Kakadu | NT | 0.15 | -13.583 | 132.293 |  | N | Y | Camera traps | 2015 |  | 1309 | 26.5 | 14.2 | 54.0 | D. Stokeld, G. Gillespie, unpublished data |
| Mooraberrie | Qld | 0.32 | -25.421 | 140.983 |  | Y | N | Spotlighting | 1995-2002 | dry | 204 | 23.2 | 0.0 | 5.5 | ([Letnic et al., 2011](#_ENREF_48)); C. Dickman, pers. comm. |
| Mornington (Bronco Valley) | WA | 0.21 | -17.300 | 126.500 |  | N | Y | Camera traps | 2014-15 |  | 663 | 26.5 | 2.5 | 40.9 | ([McGregor et al., 2015](#_ENREF_54)) |
| Mt Field | Tas | 0.02 | -42.663 | 146.688 |  | N | Y | Camera traps | 2009 |  | 1231 | 8.0 | 65.8 | 225.6 | ([Lazenby et al., 2015](#_ENREF_47)) |
| Mt Riddock | NT | 0.18 | -22.781 | 134.768 |  | Y | N | Spotlighting | 1995-98 | dry | 333 | 21.5 | 1.4 | 11.5 | G. Edwards, unpublished data |
| Napperby | NT | 0.04 | -22.992 | 132.545 |  | Y | N | Spotlighting | 1995-98 | dry | 277 | 22.1 | 1.1 | 3.2 | G. Edwards, unpublished data |
| Newhaven-Mt Wedge | NT | 0.04 | -22.909 | 131.536 |  | Y | N | Spotlighting | 1995-98 | dry | 300 | 22.5 | 1.5 | 2.6 | G. Edwards, unpublished data |
| Northern jarrah forest | WA | 0.01 | -33.100 | 116.300 |  | Y | Y | Capture-based | 2008-09 |  | 889 | 15.5 | 31.3 | 27.8 | K. Morris, unpublished data |
| Northern jarrah forest | WA | 0.03 | -32.500 | 116.200 |  | N | Y | Capture-based | 2008-09 |  | 1090 | 16.0 | 42.2 | 52.4 | K. Morris, unpublished data |
| Northwest Island | Qld | 100.00 | -23.300 | 151.700 | 1.09 | N | Y | Removal | 1984-85 |  | 1015 | 23.5 | 10.0 | 4.4 | ([Domm and Messersmith, 1990](#_ENREF_30)) |
| Owen Springs | NT | 0.06 | -23.882 | 133.573 |  | Y | N | Spotlighting | 1995-98 | dry | 319 | 20.2 | 1.4 | 17.9 | G. Edwards, unpublished data |
| Oxley Wild Rivers NP | Vic | 0.22 | -30.881 | 151.891 |  | Y | Y | Camera traps | 2014 |  | 949 | 12.2 | 53.4 | 188.4 | F. Zewe, G. Ballard , unpublished data |
| Phillip Island | Vic | 3.40 | -38.511 | 145.135 | 99.00 | N | Y | Camera traps | 2012 |  | 702 | 14.6 | 17.1 | 12.5 | D. Sutherland, A. Rendall, unpublished data |
| Piccaninny Plains | Qld | 0.92 | -13.300 | 142.700 |  | N | Y | Camera traps | 2014-15 |  | 1450 | 26.1 | 20.6 | 8.3 | H.McGregor (AWC), unpublished data |
| Pungalina | NT | 0.12 | -16.400 | 137.400 |  | N | Y | Camera traps | 2014-15 |  | 1071 | 25.5 | 11.0 | 35.1 | H.McGregor (AWC), unpublished data |
| Roxby Downs | SA | 0.50 | -30.733 | 137.100 |  | Y | N | Spotlighting | 1989-99 | dry | 182 | 20.0 | 0.0 | 9.5 | ([Read and Bowen, 2001](#_ENREF_65)) |
| Roxby Downs | SA | 2.80 | -30.733 | 137.100 |  | Y | N | Spotlighting | 1992-95 | wet | 182 | 20.0 | 0.0 | 9.5 | ([Read and Bowen, 2001](#_ENREF_65)) |
| Ross | Tas | 0.50 | -42.035 | 147.580 |  | N | N | Camera traps | 2012 |  | 547 | 10.8 | 27.3 | 89.1 | B. Fancourt, unpublished data |
| Royal NP | NSW | 1.00 | -34.083 | 151.083 |  | Y | Y | Removal | 1978 |  | 1264 | 17.1 | 46.9 | 43.1 | ([Mahood, 1980](#_ENREF_53)) |
| Sandford | Tas | 1.75 | -42.950 | 147.467 |  | N | N | Capture-based | 1995 |  | 555 | 12.5 | 30.1 | 38.4 | ([Schwarz, 1995](#_ENREF_68)) |
| Scotia | NSW | 2.40 | -33.350 | 141.283 |  | Y | Y | Camera traps | 2011 | wet | 254 | 18.1 | 0.8 | 12.8 | ([Silvey et al., 2015](#_ENREF_71)) |
| Simpson | NT | 0.01 | -24.968 | 135.615 |  | Y | N | Spotlighting | 1995-98 | dry | 191 | 22.4 | 0.0 | 5.3 | G. Edwards, unpublished data |
| Southern Tanami Desert | NT | 0.25 | -22.381 | 129.950 |  | Y | N | Capture-based | 1996-97 | dry | 304 | 23.7 | 0.0 | 5.9 | ([Paltridge, 2005](#_ENREF_63)); R. Paltridge; pers. comm. |
| Southern Tanami Desert | NT | 1.00 | -22.381 | 129.950 |  | Y | N | Capture-based | 1996-97 | wet | 304 | 23.7 | 0.0 | 5.9 | ([Paltridge, 2005](#_ENREF_63)); R. Paltridge; pers. comm. |
| South-west Tasmania | Tas | 0.05 | -42.808 | 146.374 |  | N | Y | Camera traps | 2009 |  | 1869 | 8.5 | 76.1 | 120.0 | ([Lazenby et al., 2015](#_ENREF_47)) |
| Tableland | WA | 0.19 | -17.280 | 126.230 |  | N | Y | Camera traps | 2014-15 |  | 677 | 26.8 | 4.5 | 10.2 | H.McGregor (AWC), unpublished data |
| Tasman Island | Tas | 40.00 | -43.233 | 148.000 | 1.19 | N | Y | Removal | 1977-82 |  | 819 | 11.9 | 38.9 | 111.5 | ([Brothers, 1982](#_ENREF_10); [Bryant and Shaw, 2006](#_ENREF_12)) |
| Tasman Peninsula | Tas | 0.09 | -43.064 | 147.910 |  | N | Y | Camera traps | 2009 |  | 883 | 12.1 | 72.4 | 140.7 | ([Lazenby et al., 2015](#_ENREF_47)) |
| Taunton | Qld | 0.43 | -23.560 | 149.245 |  | N | Y | Camera traps | 2015 |  | 632 | 22.3 | 13.6 | 11.1 | J Augusteyn, unpublished data |
| The Garden | NT | 0.24 | -23.323 | 134.544 |  | Y | N | Spotlighting | 1995-98 | dry | 327 | 20.5 | 1.6 | 30.3 | G. Edwards, unpublished data |
| Wedge Island | Tas | 68.20 | -43.130 | 147.670 | 0.44 | N | N/Y | Capture-based | 1995 |  | 713 | 12.5 | 61.8 | 56.8 | ([Beh, 1995](#_ENREF_7)); Brothers pers. comm. in Bey, 1995 |
| Welford NP | Qld | 0.12 | -24.991 | 143.296 |  | Y | Y | Spotlighting | 2013-14 | dry | 298 | 22.9 | 0.0 | 9.2 | M. Rich, S. Hume, unpublished data |
| Welford NP | Qld | 0.98 | -24.991 | 143.296 |  | Y | Y | Spotlighting | 2012 | wet | 298 | 22.9 | 0.0 | 9.2 | M. Rich, S. Hume, unpublished data |
| Wellington Ranges | Tas | 0.15 | -42.879 | 147.238 |  | N | Y | Camera traps | 2009 |  | 1204 | 8.0 | 56.4 | 285.3 | ([Lazenby et al., 2015](#_ENREF_47)) |
| West MacDonnell National Park | NT | 0.12 | -23.642 | 132.850 |  | Y | Y | Camera traps | 2015 | dry | 541 | 18.2 | 2.1 | 121.5 | P. McDonald, unpublished data |
| West MacDonnell National Park | NT | 0.17 | -23.701 | 133.727 |  | Y | Y | Camera traps | 2015 | dry | 310 | 20.2 | 2.2 | 52.4 | P. McDonald, unpublished data |
| Wilson's Promontory | Vic | 0.70 | -38.983 | 146.350 |  | Y | Y | Camera traps | 2015 |  | 1381 | 11.8 | 69.1 | 160.3 | D. Nimmo, E. Ritchie, L. Greenwood, pers. comm. |
| Woodvine Nature Reserve | Tas | 0.38 | -42.787 | 147.713 |  | N | Y | Camera traps | 2012 |  | 766 | 11.7 | 47.6 | 74.8 | B. Fancourt, unpublished data |
| Wongalara | NT | 0.07 | -14.200 | 134.400 |  | N | Y | Camera traps | 2014-15 |  | 942 | 27.0 | 12.8 | 32.3 | H.McGregor (AWC), unpublished data |
| Yathong Nature Reserve | NSW | 0.89 | -32.567 | 145.533 |  | Y | Y | Removal | 1981-82 |  | 384 | 18.0 | 16.5 | 15.8 | ([Newsome et al., 1989](#_ENREF_60)) |

**Appendix C**

Feral cats in highly modified environments

We approached the collation (and analysis) of data for feral cats in highly modified environments differently to feral cats in natural environments. The density and grouping behaviour of feral cats in heavily modified environments is hyper-variable, and related to the extent of food subsidy provided by human activity ([Liberg et al., 2000](#_ENREF_51)). Urban areas may support a reasonable density of solitary feral cats living on general refuse plus elevated rodent and bird populations. However, at localised sites with highly abundant food subsidies (such as rubbish dumps, intensive farm sites) cats can form groups, usually called ‘colonies’, rather than being solitary ([Kerby and MacDonald, 1988](#_ENREF_46); [MacDonald et al., 1987](#_ENREF_52)). Colonies usually comprise a matrilineal group with additional loosely-attached males, and they occupy a very small home range around the food source that may be non-contiguous with the areas occupied by the next-nearest colonies ([Rees, 1981](#_ENREF_66)). Thus, the number of sites with highly abundant food subsidies becomes a salient consideration as well as the overall area of heavily modified environments. Feral cats living on natural prey in natural habitats are never group-living ([Liberg and Sandell, 1988](#_ENREF_50)).

Data on feral cat abundance and density from highly modified areas in Australia were somewhat limited (15 abundance estimates from five studies). We augmented the modest Australian data on feral cats in highly modified environments with information from comparable environments in other countries (Table C1). We included only those studies reporting on the density and/or abundance of feral (i.e. unowned) cats; we excluded studies that did not discriminate between unowned cats and pet cats that were freely roaming outdoors. In other words, the collated estimates of numbers of feral cats living in highly modified landscape all exclude pet cats. Collated studies were variable in duration and scale: for example, some studies reported the mean colony size across multiple colonies ([up to 680 colonies in MacDonald et al., 1987](#_ENREF_52)), others reported the average size of a single colony across an extended period. Despite this variation, we used just a single colony size per study, by averaging over time and/or over colonies, from each study. This will tend to underweight the contribution of estimates based on more extensive datasets, but we opted not to allow any one study to provide extra leverage.

We used the Catchment Scale Land Use of Australia Data (CLUM) ([ABARES, 2015](#_ENREF_1)) to find the total area of highly modified environments. Under the ‘Intensive Uses’ primary land use classification, we selected categories for Intensive Horticulture, Manufacturing and Industrial, Residential and Farm infrastructure, Services, Utilities, Transport and Communication, and Waste Treatment and Disposal (Table C2). We used the same database to find the number of sites (and their areas) across the country that potentially offered anthropogenic food subsidies large enough to support feral cat colonies. This included a range of specific intensive animal husbandry classifications (i.e. dairies, feedlots, poultry farms, piggeries, aquaculture, horse studs, stock and sale yards, bulk grain storage, abattoirs). The site areas averaged 0.22 km2, thus the footprint of each site is small relative to the ranging behaviour of cats ([Liberg and Sandell, 1988](#_ENREF_50)), and sites were likely to support only a single colony of feral cats. We sourced data on the number of rubbish dumps across the country from a second database: the National Waste Management Database ([Geoscience Australia, 2012](#_ENREF_34)). We used this source rather than CLUM for rubbish dumps because many dumps are too small to be mapped by CLUM (Table C3).

We recognise there are many assumptions in our approach to estimating the population of feral cats in highly modified environments. We assumed that the density and dispersion of these cats in Australia would be comparable to the estimates and descriptions reported from similar sites in other parts of the world; this assumption seems reasonable because these cats depend strongly on anthropogenic food subsidies and less on the attributes of the surrounding natural environment. We assumed that every site with the potential to provide a large food subsidy to feral cats did indeed support a colony. In fact the presence of a cat colony at rubbish dumps, piggeries, granaries and so on will vary, depending on whether there is a rodent control program in place, whether there are dogs and/or dingoes present or not, whether the site is fenced or not, and so on. Conversely, our method for assessing the total number of sites with food-subsidies may be an underestimate, given that foci of food-subsidy are likely to exist in many situations that are not covered by spatial data on land-use (e.g. feeding stations for feral cats operated by cat-carers).

**Table C1**. Collated data used to inform the estimation of the population size of food-subsidised feral cats in highly modified environments. The data for Australia are presented separately from those from other countries. We included reports of cat colony size only from studies that clearly identified the presence of discrete social groups. We included cat density estimates only from studies that reported density across a large area and noted the cats were living mostly as solitary individuals.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **location** | **site type** | **cat density cats/km2** | **colony size** | **N colonies** | **source** |
| **AUSTRALIA** | | | | | |
| Narrogin, WA | Rubbish dump |  | 31 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Wagin, WA | Rubbish dump |  | 26 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Kukerin, WA | Rubbish dump |  | 25 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Wickepin, WA | Rubbish dump |  | 16 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Cuballing, WA | Rubbish dump |  | 16 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Dumbleyung, WA | Rubbish dump |  | 15 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Tincurran, WA | Rubbish dump |  | 3 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Harrismith, WA | Rubbish dump |  | 19 | 1 | ([Short et al., 2013](#_ENREF_69)) |
| Canberra (Macs reef), ACT | Rubbish dump |  | 22 | 1 | ([Wilson et al., 1994](#_ENREF_75)) |
| Canberra (Mugga Lane), ACT | Rubbish dump |  | 24 | 1 | ([Wilson et al., 1994](#_ENREF_75)) |
| Canberra (Belconnen), ACT | Rubbish dump |  | 36 | 1 | ([Wilson et al., 1994](#_ENREF_75)) |
| Oberon, NSW | Rubbish dump |  | 28 | 1 | ([Denny, 2005](#_ENREF_24)) |
| Tibooburra, NSW | Rubbish dump |  | 32 | 1 | ([Denny, 2005](#_ENREF_24)) |
| Anglesea, Victoria | Rubbish dump |  | 24 | 1 | ([Hutchings, 2003](#_ENREF_42)) |
| Camden, NSW | Intensive farm |  | 51 | 1 | ([Denny and Dickman, 2010](#_ENREF_25); [Hale, 2003](#_ENREF_36)) |
| **Mean colony size (Australia)** |  |  | **25** | **15** | **5 reports/published studies** |
| **NON AUSTRALIA** | | | | | |
| London, UK | urban |  | 20 | 1 | ([Neville, 1989](#_ENREF_59)) |
| South Africa | urban |  | 23 | 5 | ([Jones and Downs, 2011](#_ENREF_43)) |
| Nancy, France | urban | 1.2 | 20.1 | 9 | ([Say et al., 2003](#_ENREF_67)) |
| UK | urban | 1.4 | 17 | 287 | ([Rees, 1981](#_ENREF_66)) |
| Bristol, UK | urban | 1.51 | 7.73 | 44 | ([Page and Bennett, 1994](#_ENREF_61)) |
| Swindon, UK | urban | 0.8 | 5.3 | 6 | ([Page and Bennett, 1994](#_ENREF_61)) |
| The Wirral & Elsemere Port, UK | urban | 1.43 | 7.4 | 44 | ([Page and Bennett, 1994](#_ENREF_61)) |
| Oldham, UK | urban | 1.03 | 6.4 | 22 | ([Page and Bennett, 1994](#_ENREF_61)) |
| Avonmouth docks, UK | urban | 12.4 | 22 | 1 | ([Page et al., 1992](#_ENREF_62)) |
| Portsmith dockyards, UK | urban |  | 12 | 28 | ([Dards, 1983](#_ENREF_23); [Kerby and MacDonald, 1988](#_ENREF_46)) |
| Rome, Italy | urban |  | 31 | 1 | ([Natoli, 1985](#_ENREF_57)) |
| South Africa | urban | 32 | 34 | 1 | ([Tennent and Downs, 2008](#_ENREF_72)) |
| Brooklyn, New York | urban | 3.45 | 57 | 2 | ([Calhoon and Haspel, 1989](#_ENREF_16)) |
| Florida, USA | urban | 26.3 | 14 | 11 | ([Levy et al., 2003](#_ENREF_49)) |
| Rome, Italy | urban |  | 81 | 1 | ([Natoli and De Vito, 1991](#_ENREF_58)) |
| USA | urban |  | 41 | 1 | ([Zaunbrecher and Smith, 1993](#_ENREF_78)) |
| Lyon, France | urban |  | 40 | 1 | ([Courchamp et al., 1995](#_ENREF_22)) |
| Illinois, USA | Intensive farm |  | 13.5 | 20 | ([Warner, 1985](#_ENREF_74)) |
| UK | Intensive farm |  | 4 | 680 | ([MacDonald et al., 1987](#_ENREF_52)) |
| Barisey-la-Cote, France | Intensive farm |  | 60 | 1 | ([Courchamp et al., 1995](#_ENREF_22)) |
| **Mean colony size (non-Australia)** |  |  | **26** | **1 166** | **16 published studies** |
| **Mean colony size (worldwide)** |  |  | **25** | **1 181** |  |
| **Urban density – (non-Australia)** |  | **8.2** |  |  |  |

**Table C2**

Constituent land use codes from CLUM (ABARES 2015) that make up the heavily modified environments used in the analysis to estimate the numbers of solitary food-subsidised feral cats.

|  |  |
| --- | --- |
| **CLUM Code\_V7** | **AREA (km2)** |
| 5.0 Intensive uses | 1.52 |
| 5.1 Intensive horticulture | 103.68 |
| 5.3 Manufacturing and industrial |  |
| 5.3.0 Manufacturing and industrial | 655.44 |
| 5.3.1 General purpose factory | 149.40 |
| 5.3.2 Food processing factory | 16.20 |
| 5.3.3 Major industrial complex | 37.40 |
| 5.3.6 Oil refinery | 12.15 |
| 5.3.7 Sawmill | 13.34 |
| 5.3.8 Abandoned manufacturing and industrial | 0.12 |
| 5.4 Residential and farm infrastructure | 24 937.33 |
| 5.5 Services | 9 068.35 |
| 5.6 Utilities | 825.76 |
| 5.7 Transport and communication | 17 731.11 |
| 5.9 Waste treatment and disposal | 216.21 |
| **Sum** | **53 768.01** |

**Table C3**

Sites that could support cat colonies based on information in CLUM (ABARES 2015) and the National Waste Management Database (NWMD) (Geoscience Australia 2012). (a) CLUM Land Use codes were selected that represent sites which could potentially provide a rich food subsidy and therefore support a cat colony. Each site is a spatially discrete polygon of the land use type. (b) Summary of the data on rubbish dumps collated in the NWMD, which compiles data on known landfills, waste transfer stations and a large number of waste reprocessing facilities, drawing upon Australian, jurisdictional government, council and industry databases. Note that this database lacks area information, but a subset of these rubbish dumps are included in CLUM, and the mean area of this subset is 0.1 km2 per site.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. **CLUM land use codes (TERTIARY\_V7)** | **No. of sites** | Area  (sq km) | Avg area (sq km) |
| 5.2.0 Intensive animal husbandry | 1 769 | 366.97 | 0.21 |
| 5.2.1 Dairy sheds and yards | 2 420 | 798.33 | 0.33 |
| 5.2.2 Cattle feedlots | 277 | 59.51 | 0.21 |
| 5.2.3 Sheep feedlots | 11 | 2.01 | 0.18 |
| 5.2.4 Poultry farms | 1 754 | 177.73 | 0.10 |
| 5.2.5 Piggeries | 696 | 189.82 | 0.27 |
| 5.2.6 Aquaculture | 710 | 146.96 | 0.21 |
| 5.2.7 Horse studs | 674 | 230.79 | 0.34 |
| 5.2.8 Stockyards/saleyards | 37 | 6.58 | 0.18 |
| 5.2.9 Abandoned intensive animal husbandry | 18 | 1.63 | 0.09 |
| 5.3.4 Bulk grain storage | 585 | 23.60 | 0.04 |
| 5.3.5 Abattoirs | 170 | 37.39 | 0.22 |
|  |  | **2 041.32** | **0.22** |
| 1. **National Waste Management Database** |  |
| Operating Landfill | 1 207 |
| Unknown (a mix of landfill, waste transfer and processing facilities of unknown operational status) | 42 |
| **Total** | **10 370** |

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