**Appendix S2. Supporting information**

**Table A1:** List of islands in New Zealand with all non-native predators removed and pre- and post-eradication information regarding breeding seabirds. Types of data include (N) none, (A) anecdotal, (O) observation of relative abundance, and (C) direct counts of birds or burrows. (U) = Unknown

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Island | Area (ha) | Invasive pred. removed | Date introd. | Date erad. | Seabird species | Colony size pre-erad. | Type of data | Response post-erad. | Type of data | Sources |
| Raoul | 2938 | Goat | 1836 | 1984 | Wedge-tailed shearwater | 1 burrow in 1980s | A | 1 new colony | C | C. Gaskin pers. comm. |
|  |  | Cat | 1836 | 2004 | Kermadec little shearwater | Suspected | A | None | O | Veitch et al. 2004 |
|  |  | Norway rat | 1921 | 2004 | Black-winged petrel | Burrows found in 1910, none in 80s | A | 3 new colonies | C | Veitch et al. 2011 |
|  |  | Pacific rat | c. 1250 | 2004 | White-naped petrel | Suspected | A | None | O | Parkes 1984 |
|  |  |  |  |  | Kermadec petrel | None | A | Small numbers now breeding | O |  |
|  |  |  |  |  | Red-tailed tropicbird | None | A | Re-colonization | O |  |
|  |  |  |  |  | Masked booby | None | A | None | O |  |
|  |  |  |  |  | Sooty tern | None | A | Re-colonization | O |  |
|  |  |  |  |  | Kermadec storm-petrel | None | A | None | O |  |
| Macauley | 236 | Goat | c. 1836 | 1970 | Wedge-tailed shearwater | ~40 000 pairs | O | U | N | Tennyson et al. 1998 |
|  |  | Pacific rat | c. 1788 | 2008 | Kermadec little shearwater | numerous' | A | U | N | Tennyson et al. 2003 |
|  |  |  |  |  | Black-winged petrel | 2–3 million pairs | O | U | N | Veitch et al. 2004 |
|  |  |  |  |  | White-naped petrel | ~50 000 | O | U | N | Tennyson and Taylor 1990 |
|  |  |  |  |  | Kermadec petrel | <50 pairs | O | U | N |  |
|  |  |  |  |  | Kermadec storm-petrel | Suspected | A | U | N |  |
|  |  |  |  |  | White-bellied storm-petrel | Suspected | A | U | N |  |
|  |  |  |  |  | Red-tailed tropicbird | 50–100 pairs | O | U | N |  |
|  |  |  |  |  | Masked booby | ~100 pairs | O | U | N |  |
| Manama Tawhi | 300 | Goat | 1643 and 1869 | 1946 | Fluttering shearwater | Common | O | None | O | Ramsay and Watt 1971 |
| (Great Island) |  | Pig |  | 1946 | Common diving petrel | Rare | O | Increase in relative abundance | A | Powlesland 1990 |
|  |  |  |  |  | Grey-faced petrel | Common | O | U | N | Richie 1998 |
|  |  |  |  |  | Red-billed gull | Common | O | U | N |  |
|  |  |  |  |  | Sooty shearwater | Rare | O | U | N |  |
|  |  |  |  |  | Black-winged petrel | Unown, rare | O | Breeding, now moderately common | A |  |
|  |  |  |  |  | Southern black-backed gull | Breeding | O | U | N |  |
| Motuopao | 30 | Pacific rat | 1879 | 1989 | Little blue penguin | Generally distributed | O | U | N | A. Booth pers. comm. |
|  |  |  |  |  | Sooty shearwater | <20 burrows | O | U | N | Pierce and Parrish 1993 |
|  |  |  |  |  | Fluttering shearwater | 1 burrow | O | U | N |  |
|  |  |  |  |  | Common diving petrel | Small scattered colonies | O | Increase in % cover of island | A |  |
|  |  |  |  |  | Grey-faced petrel | Small number of burrrows | O | U | N |  |
|  |  |  |  |  | Black-winged petrel | ~800-1000 pairs | O | U | N |  |
|  |  |  |  |  | White-faced storm-petrel | ~20 | O | Increase in numbers | N |  |
| Aorangi | 110 | Pig | c. 1820 | 1936 | Buller's shearwater | Small scattered colonies | O | 200 000 breeding pairs | C | G. Taylor pers. comm. |
|  |  |  |  |  | Fluttering shearwater | Common | O | None | A | Hamilton 1925 |
|  |  |  |  |  | Grey-faced petrel | Common | O | Increase in numbers after eradication, decrease recently | A | Buddle 1941 |
|  |  |  |  |  | Pycroft’s petrel | Rare | O | None | A | Harper 1983 |
|  |  |  |  |  | Common diving petrel | Rare | O | None | A | Harper 1976 |
|  |  |  |  |  | Fairy prion | Common | O | None | A |  |
| Taranga | 718 | Pacific rat | U | 2011 | Little blue penguin | Common | O | Too soon after eradication |  | Skegg 1964 |
| (Hen Island) |  |  |  |  | Flesh-footed shearwater | Last seen in 1954 | O |  |  |  |
|  |  |  |  |  | Sooty shearwater | 1–10 pairs | O |  |  |  |
|  |  |  |  |  | Fluttering shearwater | Common | O |  |  |  |
|  |  |  |  |  | Little shearwater | ~100s | O |  |  |  |
|  |  |  |  |  | Grey-faced petrel | Common | O |  |  |  |
|  |  |  |  |  | Pycroft’s petrel | Common | O |  |  |  |
|  |  |  |  |  | Southern black-backed gull | 3–4 pairs | O |  |  |  |
|  |  |  |  |  | White-fronted tern | A few pairs | O |  |  |  |
|  |  |  |  |  | Pied shag | 3–33 pairs | O |  |  |  |
| Coppermine | 80 | Pacific rat | U | 1997 | Little blue penguin | Moderate numbers | O | U | N | McCallum et al. 1984 |
|  |  |  |  |  | Grey-faced petrel | Scattered | O | U | N | Pierce 2002 |
|  |  |  |  |  | Pycroft’s petrel | Moderate numbers | C | Increase in breeding success | C |  |
|  |  |  |  |  | Flesh-footed shearwater | Tens of thousands | O | U | N |  |
|  |  |  |  |  | Little shearwater | Rare | C | Increase in breeding success | C |  |
|  |  |  |  |  | Southern black-backed gull | One pair | O | U | N |  |
|  |  |  |  |  | White-fronted tern | Breeding | O | U | N |  |
| Lady Alice | 155 | Pacific rat | c. 1800 | 1994 | Little blue penguin | Moderate numbers | O | U | C | McCallum et al. 1984 |
|  |  |  |  |  | Grey-faced petrel | Scattered | O | U | N | Pierce 2002 |
|  |  |  |  |  | Pycroft’s petrel | Small numbers | C | Increase in breeding success | C |  |
|  |  |  |  |  | Flesh-footed shearwater | Thousands | O | U | N |  |
|  |  |  |  |  | Sooty shearwater | Hundreds | O | U | N |  |
|  |  |  |  |  | Little shearwater | Rare | C | Increase in breeding success | C |  |
|  |  |  |  |  | Southern black-backed gull | Several pairs | O | U | N |  |
|  |  |  |  |  | White-fronted tern | Breeding | O | U | N |  |
| Whatupuke | 102 | Pacific rat | U | 1997 | Little blue penguin | Moderate numbers | O | U | N | McCallum et al. 1984 |
|  |  |  |  |  | Grey-faced petrel | Scattered | O | U | N | Pierce 2002 |
|  |  |  |  |  | Pycroft’s petrel | Small numbers | O | U | N |  |
|  |  |  |  |  | Flesh-footed shearwater | U | O | U | N |  |
|  |  |  |  |  | Fluttering shearwater | One only | O | U | N |  |
|  |  |  |  |  | Southern black-backed gull | Four pairs | O | U | N |  |
| Urupukapuka | 102 | Stoat | U | 2009 | Pied shag | Common | O | U | N | Hitchmough and McCallum 1980 |
|  |  | Norway rat | U | 2009 | Little shag | Few |  | U | N |  |
|  |  | Ship rat | U | 2009 |  |  |  |  |  |  |
| Waewaetorea | 52 | Stoat | U | 2009 | Southern black-backed Gull | Few | O | U | N | Hitchmough and McCallum 1980 |
|  |  | Norway rat | U | 2009 |  |  |  |  |  |  |
|  |  | Ship rat | U | 2009 |  |  |  |  |  |  |
| Okahu | 21 | Stoat | U | 2009 | Southern black-backed Gull | Few | O | U | N | Hitchmough and McCallum 1980 |
|  |  | Norway rat | U | 2009 |  |  |  |  |  |  |
|  |  | Ship rat | U | 2009 |  |  |  |  |  |  |
| Motukiekie | 29 | Stoat | U | 2009 | Little blue penguin | Breeding | O | U | N | Hitchmough and McCallum 1980 |
|  |  | Norway rat | U | 2009 |  |  |  |  |  |  |
|  |  | Ship rat | U | 2009 |  |  |  |  |  |  |
| Moturua | 135 | Stoat | U | 2009 | Little blue penguin | Rare | O | U | N | Hitchmough and McCallum 1980 |
|  |  | Norway rat | U | 2009 | Red-billed gull | Breeding |  | U |  |  |
|  |  | Ship rat | U | 2009 |  |  |  |  |  |  |
|  |  | Pacific rat | U | 2009 |  |  |  |  |  |  |
| Motuarohia | 50 | Stoat | U | 2009 | Southern black-backed gull | Common | O | U | N | Hitchmough and McCallum 1980 |
|  |  | Norway rat | U | 2009 |  |  |  |  |  |  |
|  |  | Ship rat | U | 2009 |  |  |  |  |  |  |
| Poroporo |  | Stoat | U | 2009 | Red-billed gull | Common | O | U | N | Hitchmough and McCallum 1980 |
|  |  | Norway rat | U | 2009 | Southern black-backed gull | Common |  |  |  |  |
|  |  | Ship rat | U | 2009 |  |  |  |  |  |  |
| Tawharanui | 588 | Common brushtail possum | U | 2004 | Little blue penguin | breeding | O | U | A | C. Gaskin pers. comm. |
|  |  | Ship rat | U | 2004 | Grey-faced petrel | none | A | Re-colonization |  | Lovegrove and Ritchie 2005 |
|  |  | Stoat | U | 2004 |  |  |  |  |  |  |
|  |  | Cat | U | 2004 |  |  |  |  |  |  |
|  |  | Norway rat | U | 2004 |  |  |  |  |  |  |
|  |  | Weasel | U | 2004 |  |  |  |  |  |  |
|  |  | Ferret | U | 2004 |  |  |  |  |  |  |
| Pokohinu | 56 | Goat | U | 1973 | Little blue penguin | Breeding | O | U | N | C. Gaskin pers. comm. |
| (Burgess) |  | Pacific rat | U | 1991 | Grey-faced petrel | Significant concentrations' | O | U | N | McCallum 1980 |
|  |  |  |  |  | Common diving petrel | Breeding | O | Population increase | A |  |
|  |  |  |  |  | White-faced storm-petrel | None | A | Re-colonization | A |  |
|  |  |  |  |  | Little shearwater | None | A | Re-colonization | A |  |
|  |  |  |  |  | Fluttering shearwater | None | A | Re-colonization | A |  |
|  |  |  |  |  | Black petrel | None | A | Re-colonization | A |  |
|  |  |  |  |  | Cook’s petrel | Breeding | A | Colony expansion | A |  |
| Lizard | 1 | Pacific rat | 1970s | 1978 | Fluttering shearwater | Low numbers | O | U | N | C. Gaskin pers. comm. |
|  |  |  |  |  | Little shearwater | Low numbers | O | Population increase | A | McCallum 1980 |
|  |  |  |  |  | White-faced storm-petrel | Common | O | None | A |  |
|  |  |  |  |  | Common diving petrel | Breeding | A | Population increase | A |  |
| Mokohinau islets | 10 | Pacific rat | U | 1991 |  |  |  |  | N | McCallum 1980 |
| Atihau | 16 | Pacific rat | U | 1991 | Fluttering shearwater | Low numbers | O | U | N | C. Gaskin pers. comm. |
| (Trig) |  |  |  |  | Grey-faced petrel | Significant concentrations' | O | U | N | McCallum 1980 |
|  |  |  |  |  | Diving petrel | Breeding | A | U | N |  |
| Horomea | 11 | Pacific rat | U | 1991 | Sooty shearwater | Breeding | A | U | N | C. Gaskin pers. comm. |
| (Maori Bay) |  |  |  |  | Fluttering shearwater | Low numbers | O | U | N | McCallum 1980 |
|  |  |  |  |  | Grey-faced petrel | Significant concentrations' | O | U | N |  |
|  |  |  |  |  | Diving petrel | Breeding | A | U | N |  |
| Motukino | 79 | Pacific rat | U | 1997 | Grey-faced petrel | Significant concentrations' | O | U | N | C. Gaskin pers. comm. |
| (Fanal) |  |  |  |  | Diving petrel | Breeding | A | U | N | McCallum 1980 |
| Hauturu | 2817 | Pacific rat | U | 2004 | Little blue penguin | Common | O | U | N |  |
| (Little Barrier) |  | Cat | <1870 | 1980 | Cook's petrel | Est. 50 000 pairs | O | Increase in breeding success | O | G. Taylor pers. comm. |
|  |  |  |  |  | Black petrel | Breeding | A | Population increase | O | McKenzie 1950 |
|  |  |  |  |  | Diving petrel | None | A | Re-colonization | O | Imber et al. 2003 |
|  |  |  |  |  | Fluttering shearwater | Breeding | A | Increase in breeding success | O | Rayner et al. 2009 |
|  |  |  |  |  | Grey-faced petrel | None | A | Re-colonization | A |  |
| Te Haupa | 6 | House mouse | U | 2010 | Grey-faced petrel | ~5–15 burrows | C | None | O | Tennyson and Taylor 1999 |
|  |  | Norway rat | <1981 | 1989 | Little blue penguin | ~5–15 burrows | C | None | O |  |
|  |  |  |  |  | Southern black-backed gull | Breeding | C | U | N |  |
|  |  |  |  |  | Red-billed gull | Breeding | C | U | N |  |
|  |  |  |  |  | White-fronted tern | Breeding | C | U | N |  |
| Tiritiri Matangi | 196 | Cat | <1984 | 1970s | Little blue penguin | Breeding | A | U | N | C. Gaskin pers. comm. |
|  |  | Pacific rat | U | 1993 | Grey-faced petrel | Breeding | A | Colony expansion | A | Tiritiri Matangi Project |
|  |  |  |  |  | Common diving petrel | None | A | Re-colonization | A | Taylor and Tennyson 1999 |
|  |  |  |  |  | Fluttering shearwater | Rare | A | Increase in breeding success | A |  |
|  |  |  |  |  | Southern black-backed gull | Breeding | A | U | N |  |
|  |  |  |  |  | Red-billed gull | Breeding | A | U | N |  |
|  |  |  |  |  | White-fronted tern | Breeding | A | U | N |  |
| Motuihe | 195 | Norway rat | 1997 | 1997 | Southern black-backed gull | Breeding | A | U | N | Stubbs 1996 | | |
|  |  | House mouse | >1987 | 1997 | Little blue penguin | Breeding | A | U | N | Veitch 2002 |
|  |  | Cat | c. 1984 | 2004 | White-fronted tern | Breeding | A | U | N | Hawley 2005 |
|  |  | European rabbit | U | 2005 | Caspian tern | Breeding | A | U | N |  |
|  |  |  |  |  | Pied shag | Breeding | A | U | N |  |
|  |  |  |  |  | Little shag | Breeding | A | U | N |  |
|  |  |  |  |  | Red-billed gull | Breeding | A | U | N |  |
|  |  |  |  |  | Grey-faced petrel | None | A | None | O |  |
|  |  |  |  |  | Common diving petrel | None | A | None | O |  |
|  |  |  |  |  | Fluttering shearwater | None | A | None | O |  |
| Motukorea | 58 | European rabbit | c. 1975 | 1991 |  |  | None | U | N |  |
| (Browns) |  | Norway rat | 1980s | 1995 |  |  |  |  |  |  |
|  |  | House mouse | U | 1995 |  |  |  |  |  |  |
| Rangitoto-Motutapu | 2300–1500 | Cat | U | 2009 | Little blue penguin | U | None | U | N | P. Brown pers. Comm. |
|  |  | Stoat | U | 2009 | Southern black-backed gull | U |  | U | N | Miller et al. 1994 |
|  |  | Norway rat | U | 2009 | Red-billed gull | U |  | U | N |  |
|  |  | Ship rat | U | 2009 | White-fronted tern | U |  | U | N |  |
|  |  | House mouse | U | 2009 | Common diving petrel |  |  | None | A |  |
|  |  | Hedgehog | U | 2009 | Fluttering shearwater |  |  | None | A |  |
|  |  | European rabbit | U | 2009 |  |  |  |  |  |  |
|  |  | Common brushtail possum | 1868 | 1997 |  |  |  |  |  |  |
|  |  | Brush-tailed rock wallaby | 1868 | 2000 |  |  |  |  |  |  |
| Rakino | 148 | Norway rat | 1920–1972 | 2004 |  |  | None | U | N |  |
| Tarahiki | 5 | Norway rat | c. 1998 | 2002 | Grey-faced petrel | ~200 pairs | A | Population increase | A | G. Taylor pers. comm. |
| Pakatoa | 29 | Norway rat | U | 1997 |  |  | None | U | N | Cameron et al. 2007 |
| Kauwahaia | 0.7 | Ship rat | U | 1989 | Grey-faced petrel | Common | O | U | N | Taylor and Cameron 1990 |
|  |  |  |  |  | Sooty shearwater | Common | O | U | N |  |
|  |  |  |  |  | Flesh-footed shearwater | Less common | O | U | N |  |
|  |  |  |  |  | Common diving petrel | Less common | O | U | N |  |
| Otata | 22 | Norway rat | 1956 | 1980–2002 | Little blue penguin | Breeding | A | U | N | G. Taylor pers. comm. |
|  |  | Stoat | 1948 | 1955 | Grey-faced petrel | 150 burrows | O | New colonies | A | Cunningham and Moors 1985 |
|  |  | European rabbit | U | 1945 | Spotted shag | None | C | Re-colonization | A |  |
| Maria | 1 | Norway rat | 1959 | 1960 | Little blue penguin | Breeding | A | U | N | G. Taylor pers. comm. |
|  |  |  |  |  | Grey-faced petrel | U | A | U | N | Cunningham and Moors 1985 |
|  |  |  |  |  | White-faced storm-petrel | Breeding | A | Population increase | A |  |
|  |  |  |  |  | Southern black-backed gull | 10 nests | C | U | N |  |
| Motuhoropapa | 9 | Norway rat | <1962 | 1981–2002 | Little blue penguin | Breeding | O | U | N | Cunningham and Moors 1985 |
|  |  |  |  |  | Grey-faced petrel | 75 burrows | C | None | O | MacKay et al. 2007 |
| David Rocks | 1 | Norway rat | 1960 | 1964 | Little blue penguin | Breeding | A | U | N | Cunningham and Moors 1985 |
|  |  |  |  |  | White-faced storm-petrel | Few burrows | O | U | N |  |
|  |  |  |  |  | Spotted shag | 50 birds in nests | O | U | N |  |
|  |  |  |  |  | White-fronted tern | 12 nests | C | U | N |  |
| Cuvier | 181 | Goat | 1890 | 1960 | Little Blue penguin | few | O | U | N | G. Taylor pers. comm. |
|  |  | Cat | c. 1889 | 1964 | Grey-faced petrel | Moderate numbers | O | Population increase | A | Blackburn 1967 |
|  |  | Pacific rat | <1827 | 1993 | Sooty shearwater | None | A | Re-colonization | A | Bellingham et al. 1981 |
|  |  |  |  |  | Pied shag | 6 pairs | C | Population increase | O |  |
|  |  |  |  |  | Red-billed gull | 400 pairs on monument | O | Decrease in numbers | O |  |
|  |  |  |  |  | White-fronted tern | 5-10 pairs on monument | O | U | N |  |
|  |  |  |  |  | Fluttering shearwater | None | A | Re-colonization | A |  |
|  |  |  |  |  | Common diving petrel | None | A | Re-colonization | A |  |
|  |  |  |  |  | Pycroft’s petrel | None | A | None | N |  |
|  |  |  |  |  | Little shearwater | None | A | None | N |  |
| Moturehu | 32 | Pacific rat | c. 1900 | 1989 | Grey-faced petrel | Common | A | None | A | G. Taylor pers. Comm. |
| (Double) |  |  |  |  | Common diving petrel | Less common | A | U | N | McFadden 1992 |
|  |  |  |  |  | Fluttering shearwater | Less common | A | U | N |  |
|  |  |  |  |  | Sooty shearwater | Few | A | U | N |  |
|  |  |  |  |  | Flesh-footed shearwater | Few | A | U | N |  |
|  |  |  |  |  | Pycroft’s petrel | Rare | A | Population increase | A |  |
| Korapuki | 18 | Pacific rat | c. 1900 | 1986 | Little blue penguin | Breeding | O | U | N | Hicks et al. 1975 |
|  |  | European rabbit | c. 1900 | 1987 | Grey-faced petrel | 600–700 | C | Population increase | O | Towns 2002 |
|  |  |  |  |  | Fluttering shearwater | None | C | U | N | Towns and Atkinson 2004 |
|  |  |  |  |  | Sooty shearwater | 1 breeding female | C | U | N |  |
|  |  |  |  |  | Fluttering shearwater | Common | O | U | N |  |
|  |  |  |  |  | Little shearwater | Moderate numbers | O | U | N |  |
|  |  |  |  |  | Pycroft’s petrel | 3 birds | C | U | N |  |
|  |  |  |  |  | Common diving petrel | Localized | O | Population increase | A |  |
| Whakau | 225 | Pacific rat | U | 1992 | Little blue penguin |  | O | U | N | G. Taylor pers. Comm. |
| (Red Mercury) |  |  |  |  | Grey-faced petrel | Around perimeter | O | U | N | Fogarty and Douglas 1972 |
|  |  |  |  |  | Pycroft’s petrel | Breeding | O | Population increase | A |  |
|  |  |  |  |  | Flesh-footed shearwater | U | A | U | N |  |
|  |  |  |  |  | Fluttering shearwater | U | A | U | N |  |
|  |  |  |  |  | Little shearwater | Breeding | O | U | N |  |
|  |  |  |  |  | Common diving petrel | None | A | None | N |  |
|  |  |  |  |  | Pied shag | 8 nests | O | U | N |  |
| Kawhitu | 100 | Pacific rat | <1900 | 1991 | Little blue penguin | Common | O | U | N | G. Taylor pers. Comm. |
| (Stanley) |  | European rabbit | c1900 | 1991 | Fluttering shearwater | Rare | O | Population increase | A | Edgar 1962 |
|  |  |  |  |  | Grey-faced petrel | Common | O | U | N | Skegg 1963 |
|  |  |  |  |  | Common diving Petrel | None | A | Re-colonization | A | Thoresen 1967 |
|  |  |  |  |  | Pycroft’s petrel | breeding | O | Population increase | A |  |
|  |  |  |  |  | Pied shag | 4–28 nests | C | U | N |  |
|  |  |  |  |  | Southern black-backed gull | 12 nests | C | U | N |  |
| Ohinau | 45 | European rabbit | U | 2005 | Little blue penguin | Breeding | A | U | N | Skegg 1963 |
|  |  | Pacific rat | U | 2005 | Flesh-footed shearwater | Breeding | O | Population increase | A |  |
|  |  |  |  |  | Fluttering shearwater | Breeding | O | U | N |  |
|  |  |  |  |  | Grey-faced petrel | Small numbers | O | Population increase | A |  |
|  |  |  |  |  | Common diving petrel | Small numbers | O | U | N |  |
|  |  |  |  |  | Southern black-backed gull | Breeding | O | U | N |  |
| Middle Chain | 23 | Pacific rat | U | 1994 | Grey-faced petrel | Breeding | A | U | N | Sladden and Falla 1928 |
|  |  |  |  |  | Little blue penguin | Breeding | A | U | N | Fogarty and Douglas 1973 |
|  |  |  |  |  | Fluttering shearwater | Breeding in 1920s | A | U | N |  |
|  |  |  |  |  | Common diving petrel | Breeding in 1920s | A | U | N |  |
| Whenuakura | 3 | Norway rat | c. 1982 | 1984 |  |  | None | U | N | Moore 1976 |
| (Donut) |  | House mouse | c. 1980 | 1984 |  |  |  |  |  |  |
| Mahurangi | 23 | Goat | c. 1900 | 1915 | Grey-faced petrel | A few burrows | A | Population increase | A | G. Taylor pers. Comm. |
| (Goat) |  | Norway rat | U | <1993 | Little blue penguin | Breeding | A | U | N |  |
| Tuhua | 1311 | Pig | U | 2002 | White-throated shag | 16 nests | C | U | N |  |
| (Mayor) |  | Pacific rat | U | 2002 | Grey-faced petrel | none | A | Re-colonization | A | Edwards 1954 |
|  |  | Cat | U | 2002 |  |  |  |  |  |  |
| Rurima | 4 | Pacific rat | U | 1984 |  |  | None | U | N |  |
| Moutohora | 173 | Goat | c. 1890 | 1977 | Little blue penguin | 15 nests | C | U | N | Croxall and Millener 1971 |
| (Whale) |  | Norway rat | c. 1920 | 1987 | Grey-faced petrel | Several hundred pairs | C | Population increase | C | Butts and Porter 1993 |
|  |  | European rabbit | 1968 | 1987 | Pied shag | ~10 pairs | O | U | N | Imber et al. 2000 |
|  |  |  |  |  | Southern black-backed gull | ~10 pairs | O | U | N |  |
|  |  |  |  |  | White-fronted tern | Breeding | A | U | N |  |
|  |  |  |  |  | Fluttering shearwater | None | A | None | C |  |
|  |  |  |  |  | Common diving petrel | None | A | None | C |  |
|  |  |  |  |  | Pycroft’s petrel | None | A | None | C |  |
|  |  |  |  |  | Little shearwater | None | A | None | C |  |
| Mokoia | 135 | Norway rat | <1839 | 1989 | U |  | None | U | N |  |
|  |  | House mouse | c. 1965 | 2001 |  |  |  |  |  |  |
| Whangaokena | 13 | Goat | 1906 | 1968 | U |  | None | U | N |
| (East) |  | Pacific rat | U | 1997 |  |  |  |  |  | Moors 1980 |
| Motu-o-Kura | 14 | Norway rat | c. 1936 | 1991 | Little blue penguin | Common | O | U | N | Walls 1998 |
| (Bare) |  |  |  |  | Sooty shearwater | ~ 20 pairs | O | None | C | Walls 1988 | |
|  |  |  |  |  | Fluttering shearwater | None | A | None | C |  |
|  |  |  |  |  | Common diving Petrel | None | A | None | C |  |
| Kapiti | 1970 | Cattle | c. 1837 | 1906 | Spotted shag | None | A | Re-colonization | C | Miskelly 2000 |
|  |  | Goat | c. 1830 | 1928 |  |  |  |  |  |  |
|  |  | Cat | c. 1900 | 1934 |  |  |  |  |  |  |
|  |  | Common brushtail possum | 1893 | 1987 |  |  |  |  |  |  |
|  |  | Norway rat | <1850 | 1998 |  |  |  |  |  |  |
|  |  | Pacific rat | <1850 | 1998 |  |  |  |  |  |  |
|  |  | Sheep | 1850s | 1930 | U |  | None | U | N |  |
| Tahoramaurea | 1 | Norway rat | <1850 | 1998 | U |  | None | U | N |  |
| Motungara | 3 | Norway rat | <1850 | 1998 | U |  | None | U | N |  |
| Mana | 217 | House mouse | 1800s | 1991 | Little blue penguin | Breeding | None | U | N | Miskelly and Taylor 2004 |
|  |  |  |  |  | Sooty shearwater | Breeding | None | U | N | Townsend 1994 |
|  |  |  |  |  | White-fronted tern | Breeding | None | U | N | Miskelly 1999 |
|  |  |  |  |  | Red-billed gull | Breeding | None | U | N | Miskelly et al. 2004 |
|  |  |  |  |  | Common diving petrel | None | A | Re-colonization after active restoration | C |  |
|  |  |  |  |  | Fluttering shearwater | None | A | Re-colonization after active restoration | C |  |
|  |  |  |  |  | Pied shag | None | A | Re-colonization | C |  |
|  |  |  |  |  | Fairy prion | None | A | None | C |  |
| Matiu/Somes | 27 | Ship rat | c. 1961 | 1990 | Southern black-backed gull | Breeding | None | Population increase | A | H. Cotter pers. comm. |
|  |  |  |  |  | Spotted shag | Breeding | None | Population increase | A |  |
|  |  |  |  |  | Fluttering shearwater | None | A | None | A |  |
| Mokopuna | 0.5 | Ship rat | c. 1961 | 1990 | U |  | None | U | N |
| (Leper) |  |  |  |  |  |  |  |  |  | Parrish 1984 |
|  |  |  |  |  |  |  |  |  |  |  |
| Takapouera | 150 | Cat | 1925 | 1984 | Fairy prion | 1 million pairs | O | None | A | Harper 1985 |
| (Stephens) |  | Sheep | U | U | Sooty shearwater | U | O | U | N | Markwell 1997 |
|  |  | Cattle | U | U |  |  |  |  |  | Campbell 1967 | | | |
| Te Hoiere | 309 | Pig | c1870 | 1970 |  | U | None | U | A | P. Gaze pers. comm. |
| (Maud) |  | Goat | c1870 | 1970s |  |  |  |  | A | Bell et al. 2005 |
|  |  |  |  |  |  |  |  |  |  | Gaze and Cash 2008 |
| Titi | 32 | Norway rat | <1955 | 1975 | Fluttering shearwater | Breeding | None | U | N | Gaze 2000 |
|  |  | Pig | c1948 | 1953 | Common diving petrel | Breeding | None | U | N | Bell 1969 |
|  |  |  |  |  | Sooty shearwater | Breeding | A | None | C | Gaze 1982 | | | | |
|  |  |  |  |  | Flesh-footed shearwater | Breeding | A | None | C |  |
|  |  |  |  |  | Little blue penguin | Breeding | None | U | N |  |
| Motuara | 59 | Pig | c1840 | 1950s | Sooty shearwater | Breeding | A | U | N | P. Gaze pers. comm. |
|  |  | Pacific rat | U | 1991 | Little blue penguin | U | A | U | N |  |
| Kokomohua | 142 | Pacific rat | U | 1997 | Sooty shearwater | Breeding | A | U | N | P. Gaze pers. comm. |
| (Long) |  |  |  |  | Fluttering shearwater | Breeding | A | Population increase | A | M. Bell pers. comm. |
| Pickersgill | 103 | House mouse | U | 2007 | U |  | None | U | N |  |
|  |  | Pig | c. 1840 | 1950s |  |  |  |  |  |  |
| Blumine | 377 | House mouse | U | 2007 | None |  | A | U | N | P. Gaze pers. comm. |
|  |  | Pig | c. 1840 | 1980 |  |  |  |  |  |  |
| Allports | 16 | Common brushtail possum | <1980 | 1982 | U |  | None | U | N |  |
|  |  | House mouse | c. 1900 | 1989 |  |  |  |  |  |  |
| Nukuwaiata | 195 | Pig | c. 1900 | 1963 | Fluttering shearwater | Breeding | A | None | A | C. Miskelly pers. Comm. |
| (Inner Chetwode) |  | Goat | U | 1993 | Sooty shearwater | U | None | None | A | P. Gaze pers. comm. |
|  |  | Pacific rat | U | 1994 |  |  |  |  |  | Walls 1984 |
|  |  | Weka | c. 1920 | 1994 |  |  |  |  |  |  |
| Te Kakaho | 83 | Weka | c. 1920 | 1994 | Sooty shearwater | Breeding | A | U | N | P. Gaze pers. comm. |
| (Outer Chetwode) |  |  |  |  | Common diving petrel | U | A | U | N |  |
| Whakatere-Papanui | 74 | Norway rat | U | 1999 | Sooty shearwater | Breeding | A | None | A | Millar and Gaze 1997 |
|  |  | Pacific rat | U | 1999 | Fluttering shearwater | U | None | None | A | Markwell and Daugherty 2003 |
|  |  |  |  |  |  |  |  |  |  | P. Gaze pers. comm. |
| Tinui | 95 | Norway rat | U | 1999 | Sooty shearwater | U | A | U | N | P. Gaze pers. comm. |
| Puangiangi | 69 | Norway rat | U | 1999 | Sooty shearwater | Breeding | A | U | N | P. Gaze pers. comm. |
| Motutapu | 2 | House mouse | U | 1989 |  |  | None |  | N |  |
| Tonga | 8 | House mouse | U | 2007 | Sooty shearwater | 5 active burrows | A | None | A | Golding 2010 |
|  |  |  |  |  |  |  |  |  |  | C. Golding pers. comm. |
| Adele | 87 | House mouse | U | 2007 | Sooty shearwater | None | A | None | A | Taylor and Tilley 1984 |
|  |  | Stoat | 1977 | 2003 |  |  |  |  |  |  |
| Fisherman | 4 | House mouse | U | 2007 | U |  | A | U | N | Taylor and Tilley 1984 |
| Breaksea | 170 | Norway rat | ~1775 | 1988 | Fiordland crested penguin | Breeding | O | None | C | McLean et al. 1993 |
| Hawea | 9 | Norway rat | ~1775 | 1986 | U |  | None | U | N | G. Taylor pers. Comm. |
| Anchor | 1130 | Stoat | U | 2001 | Broad-billed prion | U | None | None | A | R. Moorhouse pers. comm. |
|  |  | Red Deer | U | 2004 |  |  |  |  |  |  |
| Chalky | 514 | Stoat | U | 2001 | Fiordland crested penguin | 3 nests | A | None | A | H. Edmonds pers. comm. |
|  |  |  |  |  | Sooty shearwater | U | None | None | A | McLean et al. 1993 |
| Rarotoka (Centre) | 88 | Pacific rat | U | 1997 | U |  | None | U | N |  |
| Pomona | 262 | Red deer | U | 2007 | U |  | None | U | N |  |
|  |  | Common brushtail possum | U | 2007 |  |  |  |  |  |  |
|  |  | Ship rat | U | 2007 |  |  |  |  |  |  |
|  |  | Stoat | U | 2007 |  |  |  |  |  |  |
|  |  | House mouse | U | 2007 |  |  |  |  |  |  |
| Rona | 60 | Stoat | U | 2007 | U |  | None | U | N |  |
|  |  | House mouse | U | 2007 |  |  |  |  |  |  |
| Whenua Hou | 1396 | Weka | U | 1985 | Cook's petrel | Near extinction | C | Population increase | C | G. Taylor pers. Comm. |
| (Codfish) |  | Common brushtail possum | <1925 | 1987 | Fiordland crested penguin | Breeding colony on north coast | A | U | N | Dell 1950 |
|  |  | Pacific rat | U | 1997 | Yellow-eyed penguin | Common | O | None | O | West 1990 |
|  |  |  |  |  | Little blue penguin | Common | O | U | N | Imber 1996 |
|  |  |  |  |  | Common diving petrel | Small colony (Sealers Bay) | O | Population increase | A | Imber et al. 2003 |
|  |  |  |  |  | South-Georgian diving petrel | U | A | Population increase | A | Darby 2003 |
|  |  |  |  |  | Sooty shearwater | Small numbers | O | None | A | Scott et al. 2009 |
|  |  |  |  |  | Mottled petrel | Breeding | A | none | A |  |
|  |  |  |  |  | Pied shag | 3 nests | C | U | N |  |
|  |  |  |  |  | Red-billed gull | Breeding | O | U | N |  |
|  |  |  |  |  | Broad-billed prion | None | A | Re-colonization | A |  |
| Ulva | 270 | Norway rat | U | 1997 | Sooty shearwater | None | A | None | A | B. Masuda pers. comm. |
| Mokinui | 86 | Pacific rat | U | 2006 | Sooty shearwater | Common | A | U | N | Flack 1976 |
| Putauhinu | 141 | Cat |  | 1960s | Sooty shearwater | Breeding | C | U | A | Flack 1976 |
|  |  | Pacific rat | U | 1997 | Common diving petrel | None | A | Re-colonization | A | Bragg et al. 2009 |
|  |  |  |  |  | Mottled petrel | U | None | None |  | Moller et al. 2009 |
| Rerewhakaupoko (Solomon) | 30 | Ship rat | c. 1960 | 2006 | Sooty shearwater | Breeding | C | U | N | McClelland et al. 2011 |
| Pukeweka | 3 | Ship rat | c. 1960 | 2006 | Sooty shearwater | Breeding | C | U | N | McClelland et al. 2011 |
| Taukihepa | 939 | Ship rat | c. 1960 | 2006 | Sooty shearwater | Breeding | C | None | A | Bell 1962 |
| (Big South Cape) |  |  |  |  |  |  |  |  |  | Scott et al. 2005 |
|  |  |  |  |  |  |  |  |  |  | Newman et al. 2008 |
|  |  |  |  |  |  |  |  |  |  | Moller et al. 2009 |
| Campbell | 11331 | Cattle | 1902 | 1984 | Yellow-eyed penguin | 490-600 breeding pairs | O | U | N | P. McClelland pers. comm. |
|  |  | Sheep | 1895 | 1991 | Rock-hopper penguin | Breeding | O | U | N | Westerskow 1960 |
|  |  | Norway rat | c1810 | 2001 | Erect-crested penguin | Breeding | O | U | N | Kinsky 1969 |
|  |  |  |  |  | Wandering albatross | Rare | C | U | N | Moore 1992 |
|  |  |  |  |  | Southern royal albatross | ~2300 | C | U | N |  |
|  |  |  |  |  | Black-browed albatross | ~1000 | A | U | N |  |
|  |  |  |  |  | Grey-headed albatross | Thousands | O | U | N |  |
|  |  |  |  |  | Light-mantled albatross | Common | O | U | N |  |
|  |  |  |  |  | Giant petrel | Common | O | U | N |  |
|  |  |  |  |  | Sooty shearwater | Thousands | O | None | A |  |
|  |  |  |  |  | Grey-backed storm-petrel | U | O | Re-colonization | A |  |
|  |  |  |  |  | White-chinned petrel | U | O | Re-colonization | A |  |
|  |  |  |  |  | Antarctic tern | Common | O | U | N |  |
|  |  |  |  |  | Campbell Island shag | Common | O | U | N |  |
|  |  |  |  |  | Southern black-backed gull | Rare | O | U | N |  |
|  |  |  |  |  | Red-billed gull | Rare | O | U | N |  |
| Mangere | 113 | Sheep | <1892 | 1968 | Sooty shearwater | Breeding | O | Population increase | O | G. Taylor pers. comm. |
|  |  | Cattle | U | U | Fairy prion | Breeding | O | U | N | Bell 1955 |
|  |  | European rabbit | <1892 | ~1892 | Broad-billed prion | Breeding | O | Population increase | C | Dawson 1955 |
|  |  | Cat | ~1892 | 1950 | Black-winged petrel | Breeding | O | Population increase | C | Tennyson 1991 |
|  |  |  |  |  | White-faced storm-petrel | Breeding | O | Re-colonization | C | Imber 1994 |
|  |  |  |  |  | Litlle blue penguin | Breeding | O | U | N | Bell and Bell 2003 |
|  |  |  |  |  | Pied shag | Breeding | O | U | N |  |
|  |  |  |  |  | Brown skua | Breeding | O | U | N | Tennyson and Millener 1994 |
|  |  |  |  |  | Red-billed Gull | Breeding | O | U | N |  |
|  |  |  |  |  | White-fronted tern | Breeding | O | U | N |  |
| Rangatira | 218 | Sheep | 1841 | 1961 | Sooty shearwater | ~17 000 nests | O | None | O | G. Taylor pers. comm. |
| (South East) |  | Cattle | 1880 | 1961 | Diving petrel | Common | A | None | O | Bell 1955 |
|  |  | Pig | 1800 | 1961 | White-faced storm-petrel | Common | A | None | O | Dawson 1955 |
|  |  | Goat | 1839 | 1961 | Fairy prion | U | A | U | O | Imber 1994 |
|  |  |  |  |  | Broad-billed prion | Common | A | Population increase | O | Nilsson et al. 1994 |
|  |  |  |  |  | Black-winged petrel | Breeding | A | Population increase | O | Roberts et al. 2007 |
|  |  |  |  |  | Yellow-eyed penguin | U | A | U | N |  |
|  |  |  |  |  | Little blue penguin | Breeding | A | U | N |  |
|  |  |  |  |  | Pied shag | U | A | U | N |  |
|  |  |  |  |  | Southern black-backed gull | ~30 pairs | O | U | N |  |
|  |  |  |  |  | Red-billed gull | Rare | A | U | N |  |
|  |  |  |  |  | Brown skua | Breeding | A | U | N |  |
|  |  |  |  |  | Red-billed gull | Breeding | A | U | N |  |
|  |  |  |  |  | White-fronted tern | Breeding | A | U | N |  |
|  |  |  |  |  | Chatham Island petrel | Rare | A | Population increase | O |  |
|  |  |  |  |  | Grey-backed storm-petrel | None | A | Re-colonization | O |  |
|  |  |  |  |  | Chatham albatross | None | A | None | C |  |
|  |  |  |  |  | Little shearwater | None | A | None | A |  |

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**Table A2:** Common and scientific species names of seabirds and non-native predators presented in Table A1.

|  |  |  |  |
| --- | --- | --- | --- |
| Seabird species | Scientific name | Non-native species | Scientific name |
| Antarctic tern | *Sterna vittata* | Brush-tailed rock wallaby | *Petrogale penicillata* |
| Black petrel | *Procellaria parkinsoni* | Cat | *Felis catus* |
| Black-browed albatross | *Thalassarche melanophrys* | Cattle | *Bos taurus* |
| Black-winged petrel | *Pterodroma nigripennis* | Brushtail possum | *Trichosurus vulpecula* |
| Broad-billed prion | *Pachyptila vittata* | European rabbit | *Oryctolagus cuniculus* |
| Brown skua | *Stercorarius antarcticus* | Ferret | *Mustela furo* |
| Buller’s shearwater | *Puffinus bulleri* | Goat | *Capra hircus* |
| Campbell Island shag | *Phalacrocorax campbelli* | European hedgehog | *Erinaceus europaeus* |
| Caspian tern | *Hydroprogne caspia* | Mouse | *Mus musculus* |
| Chatham albatross | *Thalassarche eremita* | Norway rat | *Rattus norvegicus* |
| Chatham Island petrel | *Pterodroma axillaris* | Pacific rat | *Rattus exulans* |
| Common diving petrel | *Pelecanoides urinatrix* | Pig | *Sus scrofa* |
| Cook’s petrel | *Pterodroma cookii* | Red deer | *Cervus elaphus scoticus* |
| Erect-crested penguin | *Eudyptes sclateri* | Sheep | *Ovis aries* |
| Fairy prion | *Pachyptila turtur* | Ship rat | *Rattus rattus* |
| Fiordland crested penguin | *Eudyptes pachyrhynchus* | Stoat | *Mustela erminea* |
| Flesh-footed shearwater | *Puffinus carneipes* | Weasel | *Mustela nivalis vulgaris* |
| Fluttering shearwater | *Puffinus gavia* | Weka | *Gallirallus australis* |
| Grey-backed storm-petrel | *Garrodia nereis* |  |  |
| Grey-faced petrel | *Pterodroma macroptera gouldii* |  |  |
| Grey-headed albatross | *Thalassarche chrysostoma* |  |  |
| Kermadec little shearwater | *Puffinus assimilus kermadecensis* |  |  |
| Kermadec petrel | *Pterodroma neglecta* |  |  |
| Kermadec storm-petrel | *Pelagodroma marina albiclunis* |  |  |
| Light-mantled albatross | *Phoebetria palpebrata* |  |  |
| Little blue penguin | *Eudyptula minor* |  |  |
| Little shag | *Microcarbo melanoleucos* |  |  |
| Little shearwater | *Puffinus assimilus* |  |  |
| Masked booby | *Sula dactylatra* |  |  |
| Mottled petrel | *Pterodroma inexpectata* |  |  |
| Pied shag | *Phalacrocorax varius* |  |  |
| Pycroft’s petrel | *Pterodroma pycrofti* |  |  |
| Red-billed gull | *Chroicocephalus scopulinus* |  |  |
| Red-tailed tropicbird | *Phaethon rubricauda* |  |  |
| Rock-hopper penguin | *Eudyptes chrysocome* |  |  |
| Sooty shearwater | *Puffinus griseus* |  |  |
| Sooty tern | *Onychoprion fuscatus* |  |  |
| Southern black-backed gull | *Larus dominicanus* |  |  |
| Southern giant petrel | *Macronectes giganteus* |  |  |
| Southern royal albatross | *Diomedea epomophora* |  |  |
| South-Georgian diving petrel | *Pelecanoides georgicus* |  |  |
| Spotted shag | *Phalacrocorax punctatus* |  |  |
| Wandering albatross | *Diomedea exulans* |  |  |
| Wedge-tailed shearwater | *Puffinus pacificus* |  |  |
| White-bellied storm-petrel | *Fregetta grallaria* |  |  |
| White-chinned petrel | *Procellaria aequinoctialis* |  |  |
| White-faced storm-petrel | *Pelagodroma marina* |  |  |
| White-fronted tern | *Sterna striata* |  |  |
| White-naped petrel | *Pterodroma cervicalis* |  |  |
| White-throated shag | *Microcarbo melanoleucos brevirostris* | |  |
| Yellow-eyed penguin | *Megadyptes antipodes* |  |  |