

Rattus rattus  [简体中文](#) [正體中文](#)

System: Terrestrial

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Mammalia	Rodentia	Muridae

Common name Hausratte (German), European house rat (English), bush rat (English), blue rat (English), ship rat (English), roof rat (English), black rat (English)

Synonym *Mus rattus* , Linnaeus, 1758
Mus alexandrinus , Geoffroy, 1803
Musculus frugivorus , Rafinesque, 1814
Mus novaezelandiae , Buller, 1870

Similar species *Rattus norvegicus*

Summary A native of the Indian sub-continent, the ship rat (*Rattus rattus*) has now spread throughout the world. It is widespread in forest and woodlands as well as being able to live in and around buildings. It will feed on and damage almost any edible thing. The ship rat is most frequently identified with catastrophic declines of birds on islands. It is very agile and often frequents tree tops searching for food and nesting there in bunches of leaves and twigs.



[view this species on IUCN Red List](#)

Species Description

A slender rat with large hairless ears, the ship rat (*Rattus rattus*) may be grey-brown on the back with either a similarly coloured or creamish-white belly, or it may be black all over. The uniformly-coloured tail is always longer than the head and body length combined. Its body weight is usually between 120 and 160 g but it can exceed 200 g.

The work of Yosida (1980) and his co-workers has shown that there are two forms of *R. rattus* that differ in chromosome number. The more widespread Oceanic form has 38 chromosomes and is the ship rat of Europe, the Mediterranean region, America, Australia and New Zealand. Present indications are that it is the Oceanic form that has reached islands in the South Pacific, but studies are needed to confirm this. The Asian form has probably reached some islands north of the equator, e.g. the Caroline Islands. On the basis of colour variation in rats on Ponape and Koror Islands, described by Johnson (1962) as *Rattus rattus mansorius*, we suspect that these rats may be the Asian form of *R. rattus* (SPREP, 2000).

Notes

Ship rats can be widespread, utilising most habitat types, but they show a preference for drier habitats. They generally avoid swimming.

Lifecycle Stages

Rattus rattus: gestation 20-22 days; weaning 21-28 days; sexual maturity 3-4 months; total life may not exceed two years.

Habitat Description

Ship rats can be widespread, utilising most habitat types, but they show a preference for drier habitats. They generally avoid swimming. Ship rats in a New Zealand study (Hooker and Innes, 1995; in Innes, 2001) were mostly arboreal, but were also frequently recorded on the ground. The mean range length for females was 103m, and 194m for males. Another study (Dowding and Murphy, 1994; in Innes, 2001) found that rats generally used 3-4 dens each throughout their range. In the Mediterranean region *R. rattus* is most common in forests and shrublands up to 1080m in elevation (Martin *et al.*, 2000).

Reproduction

A placental mammal with dependent young. Litter size 3-10 (average 5-8), with frequency of litters dependent on season and food supply. The interval between litters may be as little as 27 days.

Nutrition

Ship rats are omnivorous generalists, yet can be very selective feeders. They eat both plant and animal matter all year round.

A Japanese study showed that *R. rattus* is primarily herbivorous, but can change its food habits when it is thirsty, or when food is in short supply (Yabe, 2004).

General Impacts

The ship rat has directly caused or contributed to the extinction of many species of wildlife including birds, small mammals, reptiles, invertebrates, and plants, especially on islands. Ship rats are omnivorous and capable of eating a wide range of plant and animal foods. These include native snails, beetles, spiders, moths, stick insects and cicadas and the fruit of many different plants (Innes 1990). They also prey on the eggs and young of forest birds (Innes *et al.*, 1999). In the recovery programme for the endangered Rarotonga flycatcher or kakerori (see [Pomarea dimidiata in the IUCN Red List of Threatened Species](#)), Robertson *et al.* (1994) identified ship rats as the most important predator affecting the breeding success of this bird. Several cases are known where predation on seabirds can be reliably attributed to ship rats. These include sooty terns (see [Sterna fuscata in IUCN Red List of Threatened Species](#)) in the Seychelles Islands (Feare, 1979), Bonin petrels (see [Pterodroma hypoleuca in IUCN Red List of Threatened Species](#)) in Hawai'i (Grant *et al.*, 1981), Galapagos dark-rumped petrels (see [Pterodroma phaeopygia in IUCN Red List of Threatened Species](#)) in the Galapagos Islands (Harris, 1970), and white-tailed tropicbirds (see [Phaethon lepturus in IUCN Red List of Threatened Species](#)) in Bermuda (Gross, 1912).

The ship rat is most frequently identified with catastrophic declines of birds on islands. The best documented examples in the Pacific region are Midway Island in the Leeward Islands of Hawai'i (Johnson, 1945; Fisher and Baldwin, 1946), Lord Howe Island (Hindwood, 1940; Recher and Clark, 1974) and Big South Cape Island, New Zealand (Atkinson and Bell, 1973). Atkinson (1977) brought together circumstantial evidence suggesting that ship rats, rather than disease, were responsible for the decline of many species of Hawai'ian native birds during the 19th century.

There are few indications of rat-induced declines in native birds on islands nearer the equator (latitude 15°N to 20°S). This zone coincides with the distribution of native land crabs, animals that also prey on birds and their eggs. The long co-existence between land crabs and some island birds may have resulted in the development of behaviours among the birds that gives them a degree of protection against rats. Atkinson (1985) suggested that this might be the reason why rat-induced catastrophes are less apparent within the equatorial zone, but this hypothesis has never been tested (SPREP, 2000).

Species of weight similar to or smaller than that of rats appear to be the most vulnerable to predation. Impacts also appear to be more severe on smaller islands, where rat densities tend to be higher and do not fluctuate. Constant predation pressure results in a reduction in colony size on these islands (Martin *et al.*, 2000).

Both *R. rattus* and *R. norvegicus* transmit the plague bacterium (*Yersinia pestis*) via fleas in certain areas of the world. There have been a series of recent outbreaks in Madagascar in recent years (Boiser *et al.* 2002).

Management Info

Preventative measures: Research has shown that it can often be difficult to eradicate rats from islands in the early stages of invasion, hence it is better to prevent rodents arriving on islands in the first place. Eliminating a single invading rat can be disproportionately difficult because of atypical behaviour by the rat in the absence of conspecifics, and because bait can be less effective in the absence of competition for food ([Russell et al., 2005](#)). [WeiHong et al. \(1999\)](#) provide useful information regarding the detection of rodent species using different trapping methods and bait.

Physical: The use of poison baits is the only proven way to remove rodents from large islands. Trapping generally fails to remove all individuals, as trap-shy animals can survive and repopulate the island (DOC, 2004). **Chemical:** *Rattus rattus* can be eradicated from small areas or seasonally controlled using proprietary rat poison products in an appropriate manner. The largest island to date from which ship rats have been eradicated is Barrow Island (23 000 ha, Western Australia) (Morris, 2002).

Second-generation anticoagulant poisons are used widely for ship rat control, but possible consequences of any ongoing control should always be considered. These consequences include primary or secondary poisoning of species we are aiming to protect or other non-target species, secondary poisoning of other vertebrate pests such as cats, and development of resistance to these poisons by ship rats. It is not known whether their tree-climbing habits will make eradication more difficult (SPREP, 2000).

Fisher et al. (2004) suggest that diphacinone especially, and also coumatetralyl and warfarin, should be evaluated in field studies as alternative rodenticides in New Zealand. Brodifacoum, the most widely used rodenticide in New Zealand currently, can acquire persistent residues in non-target wildlife. [Mineau et al. \(2004\)](#) presented a risk assessment of second generation rodenticides at the 2nd National Invasive Rodent Summit. [O'Connor and Eason \(2000\)](#) discusses the variety of baits which are available for use on offshore islands in New Zealand.

An investigation [Spurr et al. \(2007\)](#) was carried out to assess the behavioural response of ship rats to four different bait station types. Yellow plastic pipe, wooden box ('rat motel'), and wooden tunnel bait stations were found all suitable for surveillance of ship rats and the first two at least for Norway rats (all were readily entered and had a similar amount of bait eaten from them).

Biological: Contraceptive methods of control are currently experimental, but the potential for effective control using contraceptive methods is promising. National Wildlife Research Center (USA) scientists are working on several possible formulations that may make effective oral immunisation possible (Nash and Miller, 2004).

Integrated management: [Guidelines for the Eradication of Rats From Islands Within the Falklands Group](#) offers guidelines for the eradication of rats from islands, based on the experiences in eradicating rats from the Falklands group. This paper offers guidelines for the eradication of rats from islands, based on the experiences in eradicating rats from the Falklands group.

Pathway

Rattus rattus usually stow away in freight carried within the hull, holds and living spaces of ships

Principal source:

Compiler: IUCN SSC Invasive Species Specialist Group

Review: Dick Veitch, Auckland, New Zealand.

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ALIEN RANGE

[1] AMERICAN SAMOA
[5] ANTIGUA AND BARBUDA
[2] BAHAMAS
[1] BERMUDA

[1] ANGUILLA
[20] AUSTRALIA
[1] BARBADOS
[3] BRITISH INDIAN OCEAN TERRITORY

[3] CANADA	[4] CAYMAN ISLANDS
[3] COOK ISLANDS	[1] CURACAO
[1] DOMINICA	[1] DOMINICAN REPUBLIC
[7] ECUADOR	[1] FALKLAND ISLANDS (MALVINAS)
[11] FIJI	[4] FRANCE
[12] FRENCH POLYNESIA	[6] FRENCH SOUTHERN TERRITORIES
[1] GREECE	[2] GUADELOUPE
[1] GUAM	[1] INDONESIA
[4] ITALY	[1] JAMAICA
[8] KIRIBATI	[2] MALTA
[9] MARSHALL ISLANDS	[5] MARTINIQUE
[4] MAURITIUS	[1] MAYOTTE
[4] MEXICO	[8] MICRONESIA, FEDERATED STATES OF
[1] MONTSERRAT	[1] NAURU
[7] NEW CALEDONIA	[64] NEW ZEALAND
[1] NIUE	[4] NORTHERN MARIANA ISLANDS
[5] PALAU	[6] PAPUA NEW GUINEA
[1] PERU	[1] PORTUGAL
[1] PUERTO RICO	[1] REUNION
[1] SAINT BARTHELEMY	[3] SAINT HELENA
[1] SAINT LUCIA	[1] SAINT MARTIN (FRENCH PART)
[1] SAMOA	[1] SAO TOME AND PRINCIPE
[6] SEYCHELLES	[10] SOLOMON ISLANDS
[2] SPAIN	[1] TANZANIA, UNITED REPUBLIC OF
[3] TONGA	[1] TRINIDAD AND TOBAGO
[1] TURKS AND CAICOS ISLANDS	[3] TUVALU
[1] UNITED KINGDOM	[19] UNITED STATES
[3] UNITED STATES MINOR OUTLYING ISLANDS	[6] VANUATU
[2] VIRGIN ISLANDS, BRITISH	[1] VIRGIN ISLANDS, U.S.
[2] WALLIS AND FUTUNA	

Red List assessed species 222: EX = 21; EW = 1; CR = 43; EN = 53; VU = 57; NT = 24; DD = 4; LC = 19;

Acomys nesiotus DD	Acrocephalus aequinoctialis EN
Acrocephalus caffer EN	Acrocephalus kerearako NT
Acrocephalus rimatarae VU	Acrocephalus rodericanus EN
Acrocephalus taiti VU	Aegialomys galapagoensis VU
Afroablepharus africana VU	Alectroenas rodericana EX
Alectryon macrococcus CR	Alsophis antiquae CR
Amaurocichla bocagei VU	Anisomys imitator LC
Aphrastura masafuerae CR	Aplonis cinerascens VU
Aplonis fusca EX	Aplonis pelzelni CR
Atlantisia rogersi VU	Bostrychia bocagei CR
Branta sandvicensis VU	Bulweria bulwerii LC
Callaeas cinereus EN	Camarhynchus heliobates CR
Camarhynchus pauper CR	Cettia haddeni NT
Charmosyna amabilis CR	Chasiempis ibidis EN
Chelonia mydas EN	Clytorhynchus sanctaecrucis EN
Columba bollii LC	Columba junoniae NT
Columba trocaz LC	Coracina newtoni CR
Coracina typica VU	Corvus hawaiiensis EW
Cyanolimnas cerverai CR	Cyanoramphus auriceps NT
Cyanoramphus cookii EN	Cyanoramphus saisseti VU
Dendrocygna arborea VU	Ducula aurorae EN

Ducula galeata EN	Eleutherodactylus cooki VU
Eleutherodactylus orcutti CR	Emberiza socotrana VU
Epicrates monensis EN	Eretmochelys imbricata CR
Eudytes schlegeli VU	Eumeces longirostris CR
Eunymphicus cornutus VU	Eunymphicus uvaeensis EN
Falco eleonorae LC	Falco punctatus VU
Ferminia cerverai EN	Foudia flavicans VU
Foudia rubra EN	Foudia sechellarum NT
Fregata aquila VU	Fulica alai VU
Gallicolumba erythroptera CR	Gallicolumba kubaryi VU
Gallinula nesiotis VU	Gerygone insularis EX
Gerygone modesta VU	Gymnuromys roberti LC
Haematopus chathamensis EN	Haematopus meadewaldoi EX
Hemiphaga novaeseelandiae NT	Hydromys chrysogaster LC
Hypsipetes olivaceus VU	Isodon auratus VU
Lanius newtoni CR	Lariscus obscurus NT
Larus audouinii NT	Larus cachinnans LC
Larus fuliginosus VU	Leiopelma hamiltoni EN
Leiopelma hochstetteri VU	Leiopelma pakeka VU
Leptodactylus fallax CR	Loxioides bailleui CR
Megalurulus mariei LC	Megapodius laperouse EN
Melamprosops phaeosoma CR	Melomys fraterculus CR
Mesembriomys macrurus LC	Mesocapromys angelcabrerai EN
Mesocapromys auritus EN	Mesocapromys nanus CR
Mesocapromys sanfelipensis CR	Mimus macdonaldi VU
Mimus melanotis EN	Mimus trifasciatus CR
Moho bishopi EX	Moho braccatus EX
Mohoua ochrocephala EN	Mundia elpenor EX
Myadestes palmeri CR	Mysateles meridionalis CR
Mystacina robusta CR	Myzomela chermesina VU
Neospiza concolor CR	Nesocichla eremita NT
Nesofregatta fuliginosa EN	Nesoromys ceramicus EN
Nesoryzomys darwini EX	Nesoryzomys fernandinae VU
Nesoryzomys indefessus EX	Nesoryzomys narboroughi VU
Nesoryzomys swarthi VU	Nestor meridionalis EN
Notiomystis cincta VU	Oceanodroma homochroa EN
Oligoryzomys victus EX	Oligosoma acrinasum NT
Oreomystis bairdi CR	Oreomystis mana EN
Oryzomys gorgasi EN	Oryzomys nelsoni EX
Otus capnodes CR	Otus insularis EN
Pachycephala jacquiniti NT	Pachyptila vittata LC
Palmeria dolei CR	Peromyscus madrensis EN
Phalacrocorax aristotelis LC	Phalacrocorax featherstoni EN
Phalacrocorax harrisi VU	Philesturnus carunculatus NT
Phoboscincus bocourti EN	Phoebastria albatrus VU
Phoebastria irrorata CR	Phoebetria fusca EN
Pomarea dimidiata EN	Pomarea fluxa EX
Pomarea iphis VU	Pomarea mira EX
Pomarea nigra CR	Pomarea nukuhiuae EX
Pomarea whitneyi CR	Porzana atra VU
Porzana palmeri EX	Procellaria aequinoctialis VU
Procellaria cinerea NT	Procellaria conspicillata VU
Procellaria parkinsoni VU	Procellaria westlandica VU
Progne modesta VU	Prosobonia cancellata EN

Pseudobulweria rostrata	NT	Psittacula eques	EN
Psittirostra psittacea	CR	Pterodroma alba	EN
Pterodroma cahow	EN	Pterodroma cookii	VU
Pterodroma hasitata	EN	Pterodroma hypoleuca	LC
Pterodroma inexpectata	NT	Pterodroma leucoptera	VU
Pterodroma madeira	EN	Pterodroma magentae	CR
Pterodroma phaeopygia	CR	Pterodroma sandwichensis	VU
Pterodroma solandri	VU	Ptilinopus chalcurus	VU
Ptilinopus coralensis	NT	Ptilinopus insularis	VU
Ptilinopus rarotongensis	VU	Puffinus auricularis	CR
Puffinus bulleri	VU	Puffinus griseus	NT
Puffinus mauretanicus	CR	Puffinus newelli	EN
Puffinus pacificus	LC	Puffinus yelkouan	NT
Rallus longirostris	LC	Rattus adustus	DD
Rattus bontanus	DD	Rattus elaphinus	NT
Rattus enganensis	DD	Rattus feliceus	NT
Rattus hainaldi	EN	Rattus jobiensis	NT
Rattus lugens	EN	Rattus macleari	EX
Rattus nativitatis	EX	Rattus simalurensis	EN
Rattus tunneyi	LC	Rhynchoceros jubatus	EN
Rowettia goughensis	CR	Sabal bermudana	EN
Saxicola dacotiae	NT	Spheniscus humboldti	VU
Spheniscus mendiculus	EN	Sterna dougalii	LC
Sterna hirundo	LC	Sylvilagus graysoni	EN
Synthliboramphus craveri	VU	Synthliboramphus hypoleucus	VU
Synthliboramphus wumizusume	VU	Terpsiphone corvina	CR
Todiramphus gambieri	CR	Todiramphus godeffroyi	CR
Todiramphus ruficollaris	VU	Tokudaia osimensis	EN
Trichocichla rufa	EN	Troglodytes cobbi	VU
Turnagra capensis	EX	Turnagra tanagra	EX
Vini kuhlii	EN	Vini peruviana	VU
Vini ultramarina	EN	Xenicus longipes	EX
Xerocrassa caroli	LC	Xerocrassa ebusitana	NT
Zoothera margaretae	NT	Zosterops albogularis	CR
Zosterops chloronothus	CR	Zosterops modestus	EN
Zosterops strenuus	EX	Zosterops tenuirostris	EN

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Summary: Abstract: The association between capture success of stoats (*Mustela erminea*) and ship rats (*Rattus rattus*) and landscape-scale environmental predictors was explored using trapping data from three stoat control areas located in podocarp/broadleaved forest in New Zealand. Stoat capture success was higher at trap sites where a rat was also captured at the same trap or a stoat was captured at a neighbouring trap. Drier trap sites with good soil drainage and increased proximity to the operational trapping boundary were also associated with increased stoat capture. Rat capture success was higher at trap sites where a rat had been captured at a neighbouring trap, and at trap sites that were on steeper ground, more easterly facing and within forest habitat. Trap sites with generally poor soil conditions, i.e. sites with lower soil calcium levels and wetter sites with poor drainage, and increasing distance from the forest edge were also associated with increased rat capture. There were highly variable relationships between rat and stoat capture and landscape-scale environmental predictors between the three stoat control areas. This could be due to differing topography, but also to the highly correlated nature of many of the topographic, climate and habitat predictors. Further research specifically designed to separate these effects should focus on the variables identified as common between all stoat control areas in this study. Additional investigations of whether rats captured in double trap sets act as additional bait for stoats would have practical benefits for stoat control areas. The variability of the results emphasises the importance of ensuring that traps are abundant and widespread in stoat control operations.

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Summary: The IUCN Red List of Threatened Species provides taxonomic, conservation status and distribution information on taxa that have been globally evaluated using the IUCN Red List Categories and Criteria. This system is designed to determine the relative risk of extinction, and the main purpose of the IUCN Red List is to catalogue and highlight those taxa that are facing a higher risk of global extinction (i.e. those listed as Critically Endangered, Endangered and Vulnerable). The IUCN Red List also includes information on taxa that are categorized as Extinct or Extinct in the Wild; on taxa that cannot be evaluated because of insufficient information (i.e. are Data Deficient); and on taxa that are either close to meeting the threatened thresholds or that would be threatened were it not for an ongoing taxon-specific conservation programme (i.e. are Near Threatened).

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Summary: The IUCN Red List of Threatened Species provides taxonomic, conservation status and distribution information on taxa that have been globally evaluated using the IUCN Red List Categories and Criteria. This system is designed to determine the relative risk of extinction, and the main purpose of the IUCN Red List is to catalogue and highlight those taxa that are facing a higher risk of global extinction (i.e. those listed as Critically Endangered, Endangered and Vulnerable). The IUCN Red List also includes information on taxa that are categorized as Extinct or Extinct in the Wild; on taxa that cannot be evaluated because of insufficient information (i.e. are Data Deficient); and on taxa that are either close to meeting the threatened thresholds or that would be threatened were it not for an ongoing taxon-specific conservation programme (i.e. are Near Threatened).

Available from: <http://www.iucnredlist.org/> [Accessed 25 May 2011]

[IUCN/SSC Invasive Species Specialist Group \(ISSG\), 2010. A Compilation of Information Sources for Conservation Managers.](#)

Summary: This compilation of information sources can be sorted on keywords for example: Baits & Lures, Non Target Species, Eradication, Monitoring, Risk Assessment, Weeds, Herbicides etc. This compilation is at present in Excel format, this will be web-enabled as a searchable database shortly. This version of the database has been developed by the IUCN SSC ISSG as part of an Overseas Territories Environmental Programme funded project XOT603 in partnership with the Cayman Islands Government - Department of Environment. The compilation is a work under progress, the ISSG will manage, maintain and enhance the database with current and newly published information, reports, journal articles etc.

[James, R.E., and M.N. Clout, 1996. Nesting success of New Zealand pigeons \(*Hemiphysalis novaeseelandiae*\) in response to a rat \(*Rattus rattus*\) poisoning programme at Wenderholm Regional Park. New Zealand Journal of Ecology 20\(1\): 45-51. New Zealand Ecological Society](#)

Summary: Available from: http://www.newzealandecology.org/nzje/free_issues/NZJecol20_1_45.pdf [Accessed December 11 2007]

Johnson, M. S. 1945. Rodent control on Midway Islands. US Naval Medical Bulletin 45: 384-398.

Lorvelec, O., Delloue, X., Pascal, M., & mege, S. 2004. Impacts des mammifères allochtones sur quelques espèces autochtones de l'Isle Fajou (Réserve Naturelle du Grand Cul-de-sac Marin, Guadeloupe), établis à l'issue d'une tentative d'éradication. Revue D'Ecologie - La Terre et La Vie 59(1-2): 293-307.

Summary: French language. Information about impacts, eradication methodology, results and discussion in French.

[Lovegrove, T. G., C. H. Zeiler, B. S. Greene, B. W. Green, R. Gastra, and A. D. MacArthur., 2002. Alien plant and animal control and aspects of ecological restoration in a small mainland island : Wenderholm Regional Park, New Zealand. In *Turning the tide: the eradication of invasive species* : 155-163. Veitch, C.R. and Clout, M.N.\(eds\). IUCN SSC Invasive Species Specialist Group. IUCN. Gland. Switzerland and Cambridge. UK.](#)

Summary: Eradication case study in Turning the tide: the eradication of invasive species.

[MacKay, J. W. B.; Russell, J. C. 2005. Ship rat *Rattus rattus* eradication by trapping and poison-baiting on Goat Island, New Zealand. Conservation Evidence, 2, 142-144.](#)

Summary: Available from: <http://www.conservationevidence.com/Attachments/PDF242.pdf> [Accessed 12 March 2010]

[Marine Turtle Newsletter No. 106, 2004](#)

Summary: Describes the rat eradication on Sangalaki Is. as part of a green turtle (*Chelonia mydas*) conservation programme.

Available from: <http://www.seaturtle.org/mtn/archives/mtn106/> [Accessed 19 February 2008]

[McClelland, P.J., 2002. Eradication of Pacific rats \(*Rattus exulans*\) from Whenua Hou Nature Reserve \(Codfish Island\), Putauhinu and Rarotoka Islands, New Zealand. In *Turning the tide: the eradication of invasive species*: 173-181. Veitch, C.R. and Clout, M.N.\(eds\). IUCN SSC Invasive Species Specialist Group. IUCN. Gland. Switzerland and Cambridge. UK.](#)

Summary: Eradication case study in Turning the tide: the eradication of invasive species.

Megapode Newsletter Vol. 18, nr. 1 October 2004. BirdLife/WPA/SSC Megapode Specialist Group

Summary: Describes observations and conservation through rat eradication.

[Meier, G., 2003. InGrip-Report No.1, prepared for Turtle Foundation by InGrip-Consulting & Animal Control. Hauptstr. 1 - 82541 Ammerland, Germany.](#)

Summary: This report describes a successful rat eradication project on Sangalaki Island, East-Kalimantan in detail.

[Merton, D. G., Climo, V. Laboudallon, S. Robert, and C. Mander., 2002. Alien mammal eradication and quarantine on inhabited islands in the Seychelles. In *Turning the tide: the eradication of invasive species*: 182-198. Veitch, C.R. and Clout, M.N.\(eds\). IUCN SSC Invasive Species Specialist Group. IUCN. Gland. Switzerland and Cambridge. UK.](#)

Summary: Eradication case study in Turning the tide: the eradication of invasive species.

[Micol and Jouventin, 2002. Eradication of rats and rabbits from Saint-Paul Island. In *Turning the tide: the eradication of invasive species*: 199-205. Veitch, C.R. and Clout, M.N.\(eds\). IUCN SSC Invasive Species Specialist Group. IUCN. Gland. Switzerland and Cambridge. UK.](#)

Summary: Eradication case study in Turning the tide: the eradication of invasive species.

[Mineau, Pierre; Richard, F. Shore; Robert, C. Hosea and ward, B. Stone., 2004. Towards a Risk Assessment of Second Generation Rodenticides: Do We have Enough Information to Proceed? Wildlife Damage Management, Internet Center for USDA National Wildlife Research Center -Staff Publications. 2nd National Invasive Rodent Summit.](#)

Summary: Available from: http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1730&context=icwdm_usdanwrc [Accessed 19 February 2008]

Moors, P. J., Atkinson, I. A. E. and Sherley, G. H. 1992. Reducing the rat threat to island birds. Bird Conservation International 2: 93-114.

Morris, 2002. The eradication of the black rat (*Rattus rattus*) on Barrow and adjacent islands off the north-west coast of Western Australia. In *Turning the tide: the eradication of invasive species* : 219-225. Veitch, C.R. and Clout, M.N.(eds). IUCN SSC Invasive Species Specialist Group. IUCN. Gland, Switzerland and Cambridge, UK.

Summary: Eradication case study in Turning the tide: the eradication of invasive species.

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Summary: Available from: <http://www.doc.govt.nz/upload/documents/science-and-technical/sfc150.pdf> [Accessed 19 February 2008]

Pacific Invasives Initiative (PII), 2006. Eradicating invasive species from Kayangel Atoll, Palau

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Pacific Invasives Initiative (PII), 2006. Mont Panié Mammal Control Proof-of-Concept Project

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Summary: Eradication case study in Turning the tide: the eradication of invasive species.

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Summary: Cet article présente la situation actuelle et les impacts des populations introduites de mammifères dans les îles subantarctiques françaises. Les moyens de contrôle en place ou planifiés sont également présentés.

[CONABIO. 2008. Sistema de información sobre especies invasoras en México. Especies invasoras - Mamíferos. Comisión Nacional para el Conocimiento y Uso de la Biodiversidad. Fecha de acceso.](#)

Summary: English:

The species list sheet for the Mexican information system on invasive species currently provides information related to Scientific names, family, group and common names, as well as habitat, status of invasion in Mexico, pathways of introduction and links to other specialised websites. Some of the higher risk species already have a direct link to the alert page. It is important to notice that these lists are constantly being updated, please refer to the main page (<http://www.conabio.gob.mx/invasoras/index.php/Portada>), under the section Novedades for information on updates.

Invasive species - mammals is available from: http://www.conabio.gob.mx/invasoras/index.php/Especies_invasoras_-_Mam%C3%ADferos [Accessed 30 July 2008]

Spanish:

La lista de especies del Sistema de información sobre especies invasoras de México cuenta actualmente con información acerca de nombre científico, familia, grupo y nombre común, así como como hábitat, estado de la invasión en México, rutas de introducción y ligas a otros sitios especializados. Algunas de las especies de mayor riesgo ya tienen una liga directa a la página de alertas. Es importante resaltar que estas listas se encuentran en constante proceso de actualización, por favor consulte la portada (<http://www.conabio.gob.mx/invasoras/index.php/Portada>), en la sección novedades, para conocer los cambios.

Especies invasoras - Mamíferos is available from:

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Summary: Synthèse sur la biodiversité des îles françaises d'outre-mer et les enjeux de conservation.

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Summary: A complete reference to the ship rat in New Zealand.

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Summary: An online database that provides taxonomic information, common names, synonyms and geographical jurisdiction of a species. In addition links are provided to retrieve biological records and collection information from the Global Biodiversity Information Facility (GBIF) Data Portal and bioscience articles from BioOne journals.

Available from:

http://www.cbif.gc.ca/pls/itisc/taxastep?king=every&p_action=containing&taxa=Rattus+rattus&p_format=&p_ifx=plgt&p_lang=

[Accessed March 2005]

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- Available from: http://www.fnh.org/francais/fnh/uicn/pdf/biodiv_mammiferes_antilles.pdf [Accessed 9 April 2008]
- Louette M. 1999. La Faune terrestre de Mayotte - Musée Royal de l'Afrique Centrale, 247 p.
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- Summary:** Abstract: The breeding population of the Bonin Petrel (*Pterodroma hypoleuca*) on Midway Atoll has declined dramatically since the accidental introduction of the black rat (*Rattus rattus*). During 1993 and 1994, we examined the effects of rat predation on Bonin Petrel reproductive success by monitoring nesting petrels in six study sites, three of which were treated with rodenticide (treatment) and three that were not (control). Results indicate that the incubation stage of the petrels nesting cycle is most vulnerable to rat predation. Both unattended and incubated eggs were attacked by rats. Rat predation was not observed on petrel chicks in study nests. However, incidental observations of chick remains outside of burrows suggest that rat predation on chicks may occur, but at a low frequency. Sites with low burrow density suffered more from rat predation than sites with higher burrow density. The rodenticide Vengeance trademark appeared to successfully suppress the rat numbers in treated sites. The number of nests that failed due to rat predation was significantly lower in two of the three treatment sites when compared with their paired control sites. In addition, the indications of rat activity were lower at these two treatment sites than at the paired control sites. Therefore, this study provides some evidence that rodenticide application is successful in reducing the number of rats, which in turn reduces the amount of rat predation and is associated with an increase in the reproductive success of Bonin Petrels.
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