

NEW CALEDONIA

Summary of species on the 2008 IUCN Red List



The Pacific islands of Oceania cover almost 15% of the world's surface and are characterised by a high degree of ecosystem and species diversity. The region is characterised by thousands of isolated small coral atolls and higher volcanic islands, which has led to the high diversity of species found today. In fact, the number of plants and animals found nowhere else on earth (endemic species) is extremely high - often up to 90% for particular groups. Often, these rare and endemic species are adapted to specialised habitats and limited to small areas of a few islands. With economic and cultural dependence on the natural environment very high in the Pacific islands, along with a rapidly expanding human population, there are ever increasing demands on the region's natural resources. Plant and animal species are therefore vulnerable to extinction from climate change, competition from introduced (invasive) species and human impacts such as habitat destruction, over-harvesting of species and pollution.

In order to make informed decisions to deal with these challenges, a sound knowledge of species found in the region and information on their conservation status and distribution is needed. A growing number of national and international conventions and agreements now exist, concerned with conserving biodiversity, preserving wetlands and migratory species, and regulating trade in endangered species. Governments and decision-makers need reliable and quality information on the status of biodiversity, in order to work together to meet targets set by these agreements, and ultimately stem the extinction crisis.

However, there are currently many gaps in the knowledge of species in New Caledonia and the rest of the Pacific islands. At present, there is no regional resource documenting which species exist and/or are threatened in New Caledonia or the Pacific islands. Data is often dispersed, taxonomic expertise is absent, and nomenclature and classification systems often disputed for various species. For a region known for its biodiversity hotspots, data is lacking and there are few links to regional and national policies.

The threatened status of animals and plants is one of the most useful signs for assessing the condition of an ecosystem and its biodiversity. The IUCN Red List of Threatened Species™ (IUCN Red List) is widely recognized as the most comprehensive, apolitical approach for assessing and monitoring the status of biodiversity. It provides taxonomic, conservation and distribution data on taxa that have been evaluated using the IUCN Red List Categories and Criteria. Volunteer experts of IUCN's Species Survival Commission (SSC), Birdlife International, the Center for Applied Biodiversity Science of Conservation International and NatureServe, supply and collate information on a species' taxonomy, ecology, distribution, conservation status and use and access their relative threat according to the IUCN guidelines. This information can then be disseminated to governments and decision-makers throughout the world. There is strong support in the region for updating and improving the information in the Red List as a foundation for conservation work.

The IUCN Red List Categories and Criteria were developed for applying at the global level. As a result, any regional level assessments of non-endemic species based on these criteria could result in incorrect or misleading listings. This in turn could have adverse consequences if the listings are

linked to conservation priority setting schemes. IUCN has therefore produced a set of regional guidelines for the assessment of endemic and non-endemic species at country or regional levels.

In order to begin the process of creating a Regional Red List for the Pacific islands, the current number and status of species listed on the Red List and found in the Pacific islands must be known.

This summary sheet provides a snapshot of the number of species in New Caledonia documented in the 2008 IUCN Red List.

The summary sheet is part of the larger document, "The Pacific islands: An analysis of the status of species as listed on the 2008 IUCN Red List of Threatened Species™", which can be obtained from the IUCN Oceania Regional Office. Data sources and references used in this summary sheet can be found in the full analysis document. The analysis also contains a 2008 Red List for Pacific islands Animals and Plants. This allows us to see the current status of all the species in the Pacific islands, which have been assessed using the IUCN Red List categories and criteria.

The 2008 Red List provides the most up-to-date collated information for New Caledonia. However, this analysis indicates that our knowledge and information on the biodiversity of New Caledonia and the Pacific islands as a whole, is generally either limited in accuracy and scope, out of date, or poorly documented. For instance, only mammals, amphibians and birds have been completely assessed according to IUCN Red List criteria at the global scale. Gaps exist at the global and regional level for reptiles, fishes, invertebrates (aside from hard corals) and all plants. Freshwater species are under-represented, as are marine species, especially when compared to the estimated number of described species.

The creation of a Regional Red List for the Pacific islands will form a baseline to help in determining the conservation status and trends of species in New Caledonia and the Pacific islands in general. It will help to identify species or ecosystems under greatest threat; assist in conservation planning and priority setting; and raise awareness of threatened species throughout New Caledonia and the Pacific islands. The list will also enable the monitoring of biodiversity, determination of the success of conservation initiatives, and reporting to various Conventions (e.g. the Convention on Biodiversity), on trends in biodiversity.

Funding is currently being sought by IUCN Oceania in order to begin the process of Regional Red Listing in the Pacific islands. The findings of the document, "The Pacific islands: An analysis of the status of species as listed on the 2008 IUCN Red List of Threatened Species™", indicate the current taxonomic and geographic gaps in our knowledge. Prioritising research efforts in these areas will enable us to conduct regional assessments and gather relevant data to produce a comprehensive Regional Red List for the Pacific islands.

NEW CALEDONIA Summary

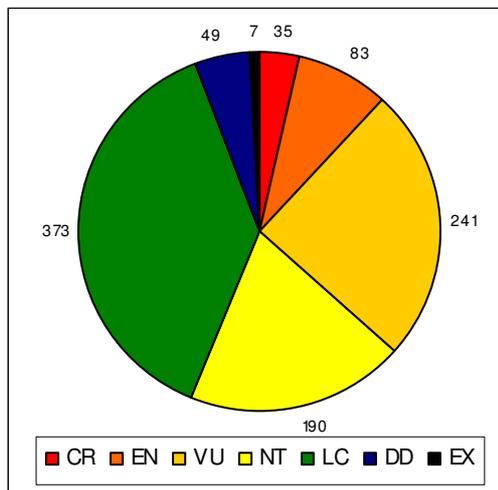
Estimated number of described and assessed species

Taxonomic Group	Sub group	Estimated number of species described*	Number of Species Assessed
Plants	Mosses	618	3
	Ferns	410	0
	Cycads	7	1
	Conifers	112	45
	Dicots	3934	208
	Monocots	979	22
	Algae	150	0
	Fungi	241	0
Total Plants		6451	279
Birds		147	147
Mammals		38	38
Reptiles		108	3
Amphibians**		1	1
Fish	Marine Fish	1679	97
	Fresh-water Fish	94	0
Total Fish		1773	97
Invertebrates	Insecta	931	3
	Arachnids	230	0
	Hard Corals	387	387
	Molluscs (Bivalves and Gastropods)	1330	16
	Crustaceans	unknown	1
	Hydrozoa	unknown	6
	Other Invertebrates	unknown	0
Total Invertebrates		2878	413
Totals		11396	978

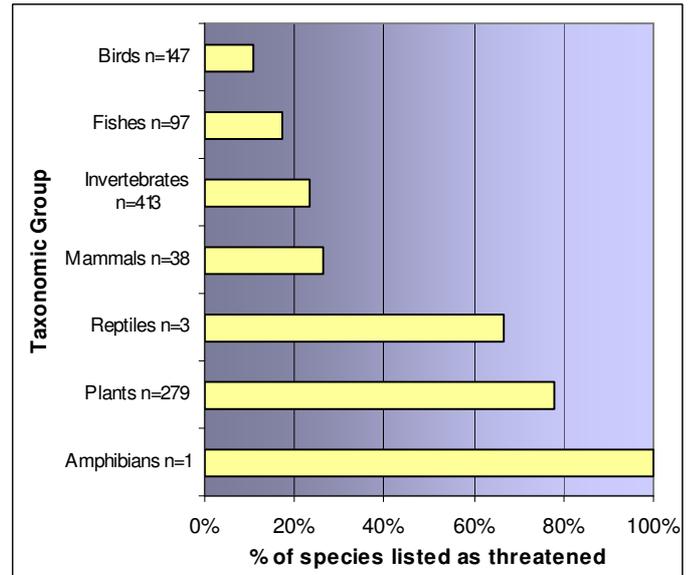
*For sources, see page 2 of "The Pacific islands: An analysis of the status of species as listed on the 2008 IUCN Red List of Threatened Species™"

**The Amphibian listed in New Caledonia was introduced from Australia

Number of assessed species in each Red List category



Percentage of assessed species listed as threatened (CR, EN, VU categories)



Extinctions

Aves (1)	Gastropoda (2)	Magnoliopsida (3)	Insecta (1)
<i>Porphyrio kukwiedei</i>	<i>Leuchocharis porphyrocheila</i> <i>Leuchocharis loyaltiensis</i>	<i>Xanthostemon sebertii</i> <i>Stenocarpus dumbeensis</i> <i>Cupaniopsis crassivalvis</i>	<i>Rhantus novacaledoniae</i>
<p><i>Pittosporum taniaum</i></p>  <p>Photo credit: Bernard Suprin, www.rhs.org.uk</p>		<p><i>Pittosporum taniaum</i> is a plant endemic to New Caledonia, which was first discovered in 1988, but declared extinct in 1994 (Baillie et al, 2004). In 2002, the species was re-discovered by a New Caledonia botanist, Bernard Suprin, who found two further plants of <i>P. taniaum</i> on the island. The area has been fenced off to protect the trees from grazing rabbits and deer that were introduced to the island for hunting.</p>	

Assessed endemic species (not including EX or EW)

Out of 978 assessed species, 323 are endemic to New Caledonia. Figure 11 of the Analysis shows their threat status. The graph below shows the percentage of New Caledonia's assessed species that are endemic, by class.

