STATUS PERFORMANCE ASSESSMENT: BIODIVERSITY CONSERVATION ON WESTERN AUSTRALIAN ISLANDS

PHASE II – KIMBERLEY ISLANDS

FINAL REPORT
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EXECUTIVE SUMMARY

The 2633 Kimberley islands comprise the least impacted part of one of the world’s last and largest tropical wilderness areas—the north Kimberley of Western Australia—and are attracting heightened world-wide interest and rapidly increasing tourism. Their varied, often spectacular, landscapes and ecosystems, which include sandstone and volcanic escarpments, rainforest patches, mangrove forests, freshwater creeks and swamps, savannah woodland and pristine beaches, harbour a wide variety of animals and plants, including some that occur nowhere else and some that are threatened with extinction on the mainland.

South of the Kimberley, where most islands are conservation reserves vested in the Conservation Commission of Western Australia, inclusion of islands in the State’s protected area system has resulted in very effective biodiversity conservation outcomes. The Kimberley lies in stark contrast: of the 2633 Kimberley islands (53% of Western Australian islands of >1000 ha and 68% of WA islands of >20 ha), only 12 small islands are reserved for conservation and some of these do not have the highest level of protection.

As is the case in the southern two thirds of the State, Kimberley islands are largely unaffected by the key threatened processes that are causing the decline of ecosystems and species on the Australian mainland; threats such as land clearing, introduced animals and plants, changed fire regimes, urban development and pollution.

Islands in the Kimberley have high cultural and traditional values to local Aboriginal people and most are under Native Title claim. Future protection of the biodiversity of Kimberley islands must take account of the aspirations and rights of local Aboriginal people. Their future management offers employment opportunities for local people.

The conservation of the biodiversity on Kimberley islands deserves a much higher priority by government than has been the case in the past. Kimberley islands collectively are an extremely valuable biodiversity conservation resource. There is an opportunity to include all or almost all Kimberley islands in the State’s protected area system using mechanisms such as conservation reserves that are jointly managed by the State and Traditional Owners.

Knowledge of the terrestrial biodiversity of most Kimberley islands is generally very limited. While there have been biological surveys since the 1970s and there is good knowledge of the biodiversity of some islands, the high number of islands and the small number of surveys have combined to greatly limit the quantity of data. Most survey work has been on the larger islands and the Department of Environment and Conservation’s (DEC) current Kimberley islands Biological Survey is able to examine only 22 of the largest islands. Many of the smaller islands can be expected to have high biodiversity values as well. However, even with the limited quantity of data, it is clear that the larger Kimberley islands have very high biodiversity conservation values and that several smaller islands with seabird breeding colonies and marine turtle rookeries also require the highest levels of protection.

This report includes a number of recommendations for future action. The lack of knowledge about the biodiversity of the vast majority of Kimberley islands indicates the need to extend the current Kimberley islands Biological Survey so that the biodiversity of many other larger Kimberley islands can be documented, plus that of a sample of small islands. DEC’s Kimberley Region needs an identified island management budget so that staff can regularly visit
and manage high priority islands. A regulated Kimberley islands and coast tourism and recreation management strategy that minimises impact on biodiversity and cultural values, developed in conjunction with the tourism industry and Traditional Owners, is urgently required. The few populations of feral animals, especially the Pacific rats on Adele Island, need to be eradicated. One weed, the stinking passionflower, is invading Kimberley islands and biological control research is urgent. Biosecurity is a vital requirement of island use to prevent further introductions of non-indigenous species and a biosecurity protocol, developed with the tourism industry, other industries in the region and local Aboriginal people, is needed. In coming decades, climate change appears to be a lower threat to Kimberley islands compared with those further south in WA; however, some islands will be impacted by rising sea levels and increased storm surge. Research into which islands and species will be impacted is needed, with strategies being developed to minimise impact.

The Conservation Commission will seek ways to integrate the recommendations of this assessment report into the broader communication initiatives of the *Kimberley Science and Conservation Strategy*. Through this proposed integration the recommendations in this assessment report will provide part of the Conservation Commissions input into this strategy.
1. INTRODUCTION

1.1 Background

The Conservation Commission of Western Australia is a statutory body set up under the Conservation and Land Management Act 1984. Pursuant to section 19(1)(g) of the Act, the Commission has responsibility to assess and audit the performance of the Department of Environment and Conservation (DEC) and the Forest Products Commission in carrying out and complying with management plans. ‘Status Performance Assessments’ (SPA) are conducted with the agreement of DEC and focus on documenting the status of the biodiversity in a geographic area to provide an overall view of management performance. Performance assessments help inform the Conservation Commission's policy development function and its responsibility to advise the Minister on conservation and management of biodiversity components throughout the State. The assessments have a broad focus and are not confined to land vested in the Commission.

In 2007, the Commission decided to conduct a SPA of biodiversity conservation on Western Australian islands. Phase I of the assessment covered islands vested in the Commission and was finalised in 2009. Phase II covers all Kimberley islands, most of which are not vested in the Commission. Of the 3747 islands, islets and rocks in Western Australia (WA) (Geoscience Australia http://www.ga.gov.au/education/geoscience-basics/landforms/islands.jsp), 2633 (70%) are located in the Kimberley. Of the 8222 islands in the whole of Australia, 32% are in the Kimberley.

WA’s islands have very high biodiversity conservation values. They conserve unique subsets of Australia’s continental biodiversity, they harbour threatened species that have become extinct or have greatly declined on the mainland, they have genetically-unique populations of mainland species, they provide breeding sites unaffected by terrestrial predators (including exotic predators such as pigs, foxes, cats and rats) for sea turtles, seabirds, seals and sealions, and most are unaffected by most of the threatening processes causing decline of mainland biodiversity such as grazing, altered fire regimes, pests and diseases, urban development and pollution. The littoral zone of islands contains valuable biodiversity that needs protection in its own right and also provides energy and food for terrestrial organisms.

Worldwide, islands are of two major types: oceanic (usually derived from mid-ocean volcanic or tectonic action) and continental (or landbridge) islands on continental shelves—sometimes these are called ‘offshore’ islands. None of the islands within the jurisdiction of the State of Western Australia are oceanic in origin. Most WA islands are continental in origin, having separated from the Australian mainland between 14,000 and 6,000 years before present as sea levels rose at the end of the last Pleistocene glaciation. Cays, accumulations of sand and/or coral rubble on reefs, usually have a more recent origin. The cays on Rowley Shoals and Scott Reef have accumulated on coral atolls.

WA’s islands can be divided into two types:

- islands with mainly terrestrial values, containing unique ecosystems resulting from subsets of mainland ecosystems; many terrestrial-value islands are large enough to allow vegetation communities to grow away from the immediate influence of sea spray, and
- islands with mainly marine values (seabird breeding and resting, sea turtle breeding, seal and sealion breeding and haul-out sites); marine-value islands can be cays (sand and/or coral rubble) or small rocky islands and islets with or without beaches.
On some islands both values are present, as turtles nest on large islands such as Bigge Island and seabirds will use many beaches and headlands on larger islands for resting.

1.2 Objectives

Phase II of the islands SPA has four objectives:

1. Assessment of the existing data and status of biodiversity conservation on Kimberley islands—incorporating the status of the progress relating to the recommendations in the document Nature Conservation Reserves in the Kimberley Western Australia (Burbidge et al., 1991);
2. Assessment of the key threatening processes to the Kimberley islands within the scope of this assessment including biosecurity, climate change, and development;
3. Evaluating and reporting on gaps and contribution of Kimberley islands to the island reserve system (with emphasis on comprehensiveness, adequacy and representativeness);
4. In consultation with Traditional Owners and stakeholders, recommending planning, research, management actions and reservation proposals for islands.

The results of the first three objectives are reported hereunder and have been utilised to progress objective 4.

1.3 Methods

The Conservation Commission employed Dr Andrew Burbidge as the assessor in relation to objectives 1, 2 and 3.

Information on the biodiversity of Kimberley islands was sought from the Department of Environment and Conservation, from the scientific literature and from naturalists and ecotourism tour guides.

A list of Kimberley islands was developed as described in Appendix 2.

OBJECTIVES 1, 2 AND 3

2. KIMBERLEY ISLANDS

This report is limited to the terrestrial biodiversity of Kimberley islands. The Phase I report drew attention to the values of the littoral (intertidal) biodiversity on islands and the importance of the seaward limit of Land Administration Act 1997 conservation reserves in the protection of littoral areas. Recommendations for marine reserves in the Kimberley were made in the Report of the Marine Parks and Reserves Selection Working Group, known as ‘The Wilson Report’ (MPRSWG 1994). The only marine park in the Kimberley surrounds Rowley Shoals.

2.1 Number and size distribution of Kimberley islands

No definitive list of Kimberley islands was available when this project commenced, nor was it clear where the boundaries of some archipelagos were situated. A list of islands was therefore developed. The methods used are described in Appendix 2. Table 1 shows the number of islands in different size categories. Maps 1, 2, 3, 4 and 5 (see over) depict the geographical location of the islands.

There are approximately 200 islands ≥20 ha in the remainder of Western Australia, meaning that about 68% of Western Australian islands ≥20 ha are in the Kimberley. There are 18 islands ≥1000 ha in the remainder of the State; 53% of islands in this size category occur in the Kimberley.
Map 1. Kimberley coast showing archipelagos, the names of some larger islands and the location of detailed maps
Map 2. Buccaneer Archipelago and adjacent islands
Map 3. Islands in Doubtful Bay and in the southern Bonaparte Archipelago
Map 5. Islands in Cambridge Gulf and adjacent areas
Of the 2633 Kimberley islands, only 352 have been officially named, although some unnamed islands lie within named islands groups. There are 1000 named islands in the whole of Western Australia. Many Kimberley islands lie close to the coast and are separated from the mainland by narrow channels. Some are joined at low tide to the mainland by mangal and/or exposed mud, or by exposed reef. Islands ≥100 ha identified as being close to the coast by the ‘Ocean Mask’ GIS layer (see Appendix 2) were checked using satellite imagery and are shown as being connected at low tide (Y in column F in Appendix 1) or possibly connected (?)Y. Islands <100 ha with a ‘1’ in column 2 (Ocean Mask) in Appendix 1 are likely to be joined to the mainland or an adjacent island at low tide. Of the total of 2633 Kimberley islands, 248 (9.4%) were identified as being likely to be joined to the mainland or an adjacent island at low tide.

2.2 Archipelagos and island groups

Several major named archipelagos and many smaller island groups occur in the Kimberley. It is often unclear from maps where the boundaries to archipelagos and island groups lie. In some cases named island groups lie within archipelagos. To clarify boundaries, information was sought from Landgate and is summarised in Appendix 3.

2.3 Assessment of knowledge and status of biodiversity conservation on Kimberley islands

Knowledge of the terrestrial biodiversity of most Kimberley islands is generally very limited. While there have been biological surveys since the 1970s, the large number of islands and the small number of surveys have combined to greatly limit the quantity of data. Most survey work, apart from some land snail collecting, has been on the larger islands and the current ‘Biological Survey of Kimberley islands’ is able to examine only 22 of the largest islands. Many of the smaller islands can be expected to have high biodiversity values as well. For example, How et al. (2006) located golden-backed tree-rat and pale field rat on an unnamed island of 14 ha in Scott Strait; a brief Kimberley Land Council Land and Sea Unit visit to Jar Island (150 ha) located echidna and golden-backed tree-rat (T. Vigilante pers. comm.) and the few small islands examined for land snails are rich in species, often currently not known from elsewhere.

Knowledge of mammals, reptiles and frogs is available, in most cases, only from the larger islands. Knowledge of birds is more widespread resulting mainly from visits by ecotourism guides and naturalists (eg, Kevin Coate, Appendix 6). Knowledge of seabird breeding islands is reasonably good, due to visits by scientists and naturalists.

Knowledge of turtle breeding rookeries is poor. Casual observations suggest that almost every beach on Kimberley islands is used by turtles, mainly flatbacks *Natator depressa* and green turtles *Chelonia mydas*, for breeding, with a few islands, such as Browse Island, the Lacepede Islands, Slate Islands, Prudhoe Islands and Lesueur Island, known to have significant rookeries. Information provided by Kevin Coate on beaches that he has recorded as being used by turtles for breeding is included in Table 4).

Table 1. Kimberley islands by size category

<table>
<thead>
<tr>
<th>Size Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥1000 ha</td>
<td>20</td>
</tr>
<tr>
<td>&lt;1000 ha, ≥100 ha</td>
<td>145</td>
</tr>
<tr>
<td>&lt;100 ha, ≥20 ha</td>
<td>258</td>
</tr>
<tr>
<td>&lt;20 ha, ≥10 ha</td>
<td>177</td>
</tr>
<tr>
<td>&lt;10 ha, ≥1 ha</td>
<td>908</td>
</tr>
<tr>
<td>&lt;1 ha</td>
<td>1125</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2633</strong></td>
</tr>
</tbody>
</table>

1 Tom Vigilante, Kimberley Land Council, Loch St, Derby WA 6728
2 Kevin Coate, 11 Peak View, Canning Vale, WA 6155
3. CONTEXT

3.1 Biodiversity values of Kimberley islands

3.1.1 Overview

In general, Kimberley islands have similar values to those of islands further south (see Phase I Report), but there are some differences.

Kimberley islands are of very high biodiversity conservation value because:

- They protect unique ecosystems isolated for thousands of years. Each of the larger islands has a unique assemblage of plants and animals, a subset of the biota of the mainland from which they were isolated, reduced in variety dependent on the size of the island, the interactions between the species that were isolated, and chance. The more mobile species (eg, birds, plants with wind-blown, water-borne or bird-carried seeds) may establish and disappear from time to time (species turnover), but populations of many sedentary species have been restricted to an island since it was isolated from the mainland.
- Twenty-five ‘Priority Flora’ taxa are known from Kimberley islands (Table 2).
- Six listed threatened fauna species and 13 Priority Fauna species are known from Kimberley islands (Table 3).
- No threatened ecological communities are known from Kimberley islands, but detailed surveys have not been conducted.
- Two vertebrates are known only from Kimberley islands: Buccaneer Burrowing Skink *Lerista praefrontalis* from King Hall Island and Koolan Blind Snake *Ramphotyphlops yampiensis* from Koolan Island.
- No vertebrate subspecies have been described that are restricted to Kimberley islands, but it is likely that populations of many sedentary species on islands are genetically distinct from mainland populations.
- Several species of terrestrial molluscs are known only from Kimberley islands.
- Australian islands are extremely important for mammal conservation and Kimberley islands are no exception. Without islands, Australia’s appalling extinction record of 22 extinct species since European settlement would be even worse as eight species that became extinct on the mainland survive on islands. There have been no mammal extinctions in the North Kimberley IBRA Region (McKenzie *et al*. 2007), but some species still occurring there have suffered major declines in range and abundance. Several of these, such as the golden bandicoot *Isoodon auratus* and golden-backed tree-rat *Mesembriomys macrurus*, occur on islands. The Kimberley endemic mammals; monjon *Petrogale burbidgei*, scaly-tailed possum *Wyulda squamicaudata* and Kimberley rock-rat *Zyzomys woodwardi* all occur on islands. The golden-backed tree-rat is a ‘new endemic’ as it is considered to be extinct in the Northern Territory, the only other place it occurred.
- Fire regime change is of significant concern in the Kimberley with large areas now burning every year or almost every year. Most Kimberley islands burn infrequently and most fires on islands originate from lightning strikes. However, as visitation increases, so will fire incidence.
- Damage to vegetation and soils by feral herbivores such as cattle, pigs and donkeys is of significant concern in the Kimberley. Kimberley islands are free from these species.
- Most seabird breeding in WA occurs on islands, many species breed only on islands. WA now has the best (and expanding) populations of the island-nesting roseate tern *Sternula dougallii* anywhere is the world, including those on islands in the Kimberley. Three seabird species breed on Kimberley islands and do not breed further south in WA—great frigatebird *Fregata minor*, red-footed booby *Sula sula* and little tern *Sternula albifrons*—
while three others breed mainly in the Kimberley with some breeding occurring also in the northern Pilbara, ie, masked booby *Sula dactylatra*, brown booby *Sula leucogaster* and lesser frigatebird *Fregata ariel*.

- In WA, most sea turtle breeding is on islands. Island rookeries, unlike those on mainland beaches, are not affected by egg predation from exotic predators. Kimberley islands have important rookeries of two species of turtle: green *Chelonia mydas* and flatback *Natator depressus*.

Often, particularly on the larger islands, some of the above features occur in combination: Bigge Island, for example, has threatened mammals and significant populations of reptiles and birds, as well as sea turtle rookeries.

### 3.1.2 Biodiversity information summary

No listed threatened flora is known from Kimberley islands. Priority flora taxa known from Kimberley islands are shown in Table 2 and threatened and priority fauna taxa are shown in Table 3. Of particular note are the ‘critical weight range’ mammals that occur on Kimberley islands—northern quoll, golden bandicoot, golden-backed tree-rat, monjon, scaly-tailed possum and rakali (water-rat)—as many species in this category have become extinct or declined significantly on mainland Australia. Lack of survey clearly limits the comprehensiveness of current lists. Note that Tables 2 and 3 do not include data collected during the ongoing Kimberley islands Biological Survey.

#### Table 2. Priority flora records from Kimberley islands

<table>
<thead>
<tr>
<th>Species</th>
<th>Conservation Code</th>
<th>Islands</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Acacia deltoidea</em> subsp. <em>Ampla</em></td>
<td>P2</td>
<td>Lamarck, West Montalivet</td>
</tr>
<tr>
<td><em>Acacia kenneallyi</em></td>
<td>P3</td>
<td>Bigge, Byam Martin, Capstan, Heywood, Naturalists</td>
</tr>
<tr>
<td><em>Alysicarpus suffruticosus</em></td>
<td>P2</td>
<td>Sunday</td>
</tr>
<tr>
<td><em>Brachychiton incanus</em></td>
<td>P3</td>
<td>Adolphus</td>
</tr>
<tr>
<td><em>Brachychiton tridentatus</em></td>
<td>P3</td>
<td>East Montalivet, Maret, Sir Graham Moore</td>
</tr>
<tr>
<td><em>Brachychiton xanthophyllus</em></td>
<td>P4</td>
<td>East Montalivet, Fenelon</td>
</tr>
<tr>
<td><em>Decaschistia byrnesii</em> subsp. <em>Lavandulacea</em></td>
<td>P3</td>
<td>Bigge</td>
</tr>
<tr>
<td><em>Eriachne semiciptata</em></td>
<td>P3</td>
<td>King Hall, Sunday</td>
</tr>
<tr>
<td><em>Eucalyptus kenneallyi</em></td>
<td>P1</td>
<td>Storr</td>
</tr>
<tr>
<td><em>Gardenia gardneri</em></td>
<td>P3</td>
<td>Augustus</td>
</tr>
<tr>
<td><em>Glycine lactovirens</em></td>
<td>P3</td>
<td>Grey</td>
</tr>
<tr>
<td><em>Ipomoea</em> sp. <em>A Kimberley Flora</em> (L.J. Penn 84)</td>
<td>P1</td>
<td>King Hall</td>
</tr>
<tr>
<td><em>Jacquemontia</em> sp. <em>Keep River</em> (J.L. Egan 5051)</td>
<td>P1</td>
<td>Koolan</td>
</tr>
<tr>
<td><em>Pentalepis</em> sp. <em>Mt House</em> (E.M. Bennett 1877)</td>
<td>P1</td>
<td>Bigge</td>
</tr>
<tr>
<td><em>Phyllanthus aridus</em></td>
<td>P3</td>
<td>Augustus</td>
</tr>
<tr>
<td><em>Pittosporum moluccanum</em></td>
<td>P4</td>
<td>Maret, South Maret, Berthier</td>
</tr>
<tr>
<td><em>Polycarpaea</em> sp. <em>A Kimberley Flora</em> (K.F.Kenneally 8887)</td>
<td>P1</td>
<td>Saint Patrick</td>
</tr>
<tr>
<td><em>Ricinocarpus marginatus</em></td>
<td>P2</td>
<td>Bigge</td>
</tr>
<tr>
<td><em>Solanum cataphractum</em></td>
<td>P3</td>
<td>Augustus, Bat, Bigge, Coronation, Hidden</td>
</tr>
<tr>
<td><em>Solanum leopoldense</em></td>
<td>P3</td>
<td>Bat</td>
</tr>
<tr>
<td><em>Solanum oedipus</em></td>
<td>P3</td>
<td>Bigge</td>
</tr>
<tr>
<td><em>Solanum sp. Boomerang Bay</em> (K.F. Kenneally 10021)</td>
<td>P1</td>
<td>Bigge</td>
</tr>
<tr>
<td><em>Styliodium perizosteria</em></td>
<td>P3</td>
<td>Bigge</td>
</tr>
<tr>
<td><em>Trachymene dusenii</em></td>
<td>P3</td>
<td>Pascoe</td>
</tr>
<tr>
<td><em>Whiteochloa capillipes</em></td>
<td>P3</td>
<td>Lacrosse</td>
</tr>
</tbody>
</table>
Table 3. Listed threatened and priority fauna occurring on Kimberley Islands

<table>
<thead>
<tr>
<th>Species</th>
<th>Threat category</th>
<th>Islands</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Dasyurus hallucatus</em>, northern quoll</td>
<td>Vulnerable</td>
<td>Augustus, Bigge, Boongaree, Capstan, Koolan, Purrungku, Uwins</td>
</tr>
<tr>
<td><em>Isoodon auratus</em>, golden bandicoot</td>
<td>Vulnerable</td>
<td>Augustus, Uwins, Storr</td>
</tr>
<tr>
<td><em>Mesembriomyss macrurus</em>, golden-backed tree-rat</td>
<td>Vulnerable (EPBC Act), P4 (WA)</td>
<td>Carla, Jar, Wollaston, Uwins, unnamed island (Scott Strait)</td>
</tr>
<tr>
<td><em>Rhinoniceris aurantius</em>, orange leaf-nosed bat</td>
<td>Vulnerable</td>
<td>Koolan</td>
</tr>
<tr>
<td><em>Petrogale burbridgei</em>, monjon</td>
<td>P4</td>
<td>Bigge, Boongaree, Katers, Wollaston (?)</td>
</tr>
<tr>
<td><em>Wyulda squamicaudata</em>, scaly-tailed possum</td>
<td>P4</td>
<td>Bigge, Boongaree</td>
</tr>
<tr>
<td><em>Hydromys chrysogaster</em>, rakali or water-rat</td>
<td>P4</td>
<td>Kingfisher, Prudhoe, Sir Graham Moore</td>
</tr>
<tr>
<td><em>Hipposideros stenotis</em>, northern leaf-nosed bat</td>
<td>P2</td>
<td>Bathurst, Boongaree, Koolan</td>
</tr>
<tr>
<td><em>Numenius madagascariensis</em>, eastern curlew</td>
<td>P4</td>
<td>West (Lacepede), Sunday</td>
</tr>
<tr>
<td><em>Burhinus grallarius</em>, bush stonecurlew</td>
<td>P4</td>
<td>South Maret, Sunday</td>
</tr>
<tr>
<td><em>Lerista praefrontalis</em>, Buccaneer burrowing skink</td>
<td>Vulnerable</td>
<td>King Hall</td>
</tr>
<tr>
<td><em>Ramphotyphlops yampiensis</em>, Koolan blind snake</td>
<td>P2</td>
<td>Koolan</td>
</tr>
<tr>
<td><em>Morelia carinata</em>, rough-scaled python</td>
<td>P1</td>
<td>Bigge</td>
</tr>
<tr>
<td><em>Amplirhagada astuta</em></td>
<td>Vulnerable</td>
<td>Koolan</td>
</tr>
<tr>
<td><em>Amplirhagada montalivensis</em></td>
<td>P1</td>
<td>Don, East Montalivet, Patricia, Walker, West Montalivet</td>
</tr>
<tr>
<td><em>Amplirhagada herbertena</em></td>
<td>P1</td>
<td>Buccaneer Archipelago</td>
</tr>
<tr>
<td><em>Baudinella baudinensis</em></td>
<td>P3</td>
<td>Baudin</td>
</tr>
<tr>
<td><em>Damochlora millepunctata</em></td>
<td>P1</td>
<td>Baudin</td>
</tr>
</tbody>
</table>

Those islands known to have marine turtle rookeries are listed in Table 4. However, many other rookeries probably remain to be documented as almost all beaches on islands show sign of turtle nesting activity.

Table 4. Known turtle breeding rookeries on Kimberley islands

<table>
<thead>
<tr>
<th>Island</th>
<th>Species (if known)</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bigge Island (Wary Bay)</td>
<td>K. Coate</td>
<td></td>
</tr>
<tr>
<td>Browse Island</td>
<td>Green</td>
<td>MTRPWA</td>
</tr>
<tr>
<td>Cassini Island</td>
<td>Green</td>
<td>MTRPWA</td>
</tr>
<tr>
<td>Champagny Island</td>
<td>K. Coate</td>
<td></td>
</tr>
<tr>
<td>Helpman Island</td>
<td>Flatback</td>
<td>MTRPWA</td>
</tr>
<tr>
<td>Laceypede Islands</td>
<td>Green</td>
<td>MTRPWA, K. Coate</td>
</tr>
<tr>
<td>Lafontaine Island</td>
<td>K. Coate, May 2008</td>
<td></td>
</tr>
<tr>
<td>Lamarck Island</td>
<td>K. Coate</td>
<td></td>
</tr>
<tr>
<td>Maret Island</td>
<td>K. Coate</td>
<td></td>
</tr>
<tr>
<td>Mietys Island</td>
<td>K. Coate</td>
<td></td>
</tr>
<tr>
<td>Prudhoe Island</td>
<td>K. Coate, May 2002</td>
<td></td>
</tr>
<tr>
<td>Queen Island (east side)</td>
<td>K. Coate, June 2004</td>
<td></td>
</tr>
<tr>
<td>Sandy Island (Scott Reef)</td>
<td>Green</td>
<td>MTRPWA</td>
</tr>
<tr>
<td>South Maret Island</td>
<td>K. Coate</td>
<td></td>
</tr>
<tr>
<td>Troughton Island</td>
<td>Flatback</td>
<td>MTRPWA</td>
</tr>
</tbody>
</table>

Source: Kevin Coate (pers. comm.), MTRPWA = Marine Turtle Recovery Plan for Western Australia (draft, 1998).
Seabird breeding islands are relatively well documented (Table 5), although this list, too, will probably be incomplete due to inadequate survey and the plasticity of some seabirds in relation to breeding site.

**Table 5. Known seabird breeding colonies on Kimberley islands**

Includes data for oystercatchers and beach stone curlew

<table>
<thead>
<tr>
<th>Island</th>
<th>Breeding seabird(s) recorded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adele</td>
<td>Masked booby, red-footed booby, brown booby, pied cormorant, Australian pelican, greater frigatebird, lesser frigatebird, Caspian tern, lesser crested tern</td>
</tr>
<tr>
<td>Aunt</td>
<td>Crested tern</td>
</tr>
<tr>
<td>Bird</td>
<td>Crested tern, roseate tern</td>
</tr>
<tr>
<td>Booby</td>
<td>Brown booby, Caspian tern</td>
</tr>
<tr>
<td>East (Lacepede Islands)</td>
<td>Common noddy</td>
</tr>
<tr>
<td>Fenelon</td>
<td>Pied oystercatcher</td>
</tr>
<tr>
<td>Jones</td>
<td>Silver gull</td>
</tr>
<tr>
<td>Lesueur</td>
<td>Bridled tern</td>
</tr>
<tr>
<td>Low Rocks</td>
<td>Pied cormorant, lesser crested tern, crested tern, roseate tern, bridled tern</td>
</tr>
<tr>
<td>Middle (Lacepede Islands)</td>
<td>Brown booby, pied cormorant, Australian pelican, lesser frigatebird, silver gull, Caspian tern, roseate tern, fairy tern, bridled tern, common noddy</td>
</tr>
<tr>
<td>Montgomery</td>
<td>Pied oystercatcher</td>
</tr>
<tr>
<td>Mulgudna</td>
<td>Caspian tern, little tern</td>
</tr>
<tr>
<td>Myres</td>
<td>Caspian tern</td>
</tr>
<tr>
<td>North West Twin</td>
<td>Roseate tern</td>
</tr>
<tr>
<td>Pelican</td>
<td>Australian pelican</td>
</tr>
<tr>
<td>Randall</td>
<td>Crested tern, lesser crested tern, roseate tern</td>
</tr>
<tr>
<td>Sandy (Lacepede Islands)</td>
<td>Brown booby</td>
</tr>
<tr>
<td>Sandy (Long Reef)</td>
<td>Pied cormorant, Australian pelican, crested tern</td>
</tr>
<tr>
<td>Sandy (Scott Reef)</td>
<td>Brown booby, common noddy</td>
</tr>
<tr>
<td>Sandy (Lacepede Islands)</td>
<td>Brown booby</td>
</tr>
<tr>
<td>South West Twin</td>
<td>Roseate tern</td>
</tr>
<tr>
<td>Sterna</td>
<td>Crested tern, lesser crested tern, roseate tern</td>
</tr>
<tr>
<td>Sunday</td>
<td>Crested tern, bridled tern</td>
</tr>
<tr>
<td>Troughton</td>
<td>Beach stone-curlew, pied oystercatcher, sooty oystercatcher, little tern</td>
</tr>
<tr>
<td>Warn</td>
<td>Bridled tern</td>
</tr>
<tr>
<td>West (Lacepede Islands)</td>
<td>Masked booby, brown booby, Australian pelican, lesser frigatebird, eastern reef egret, silver gull, Caspian tern, lesser crested tern, crested tern, roseate tern, fairy tern, bridled tern, common noddy</td>
</tr>
<tr>
<td>Woku Woku</td>
<td>Pied oystercatcher</td>
</tr>
</tbody>
</table>


Most Kimberley islands are currently unaffected by significant threatening processes. However, increasing unmanaged use by the burgeoning tourism industry and other visitors, feral animals, weeds, fire regime change and climate change may cause deleterious change in the future.

### 3.1.3 Translocations

Translocations were discussed in the Phase I Report. In summary, translocation can be an effective conservation action, especially for threatened species and is one of a limited number of management actions that are available to limit the effects of climate change on biodiversity. Major threatening processes on the mainland are often absent from islands and under warmer temperatures the ameliorating effects of the ocean may reduce the impact of climate change on island biotas, ie, they may escape the extreme events resulting from climate change that could tip mainland species over the edge.
Translocations of threatened animals to Kimberley islands are not warranted at present because:

- threatened Kimberley species, such as the northern quoll, golden bandicoot, golden-backed tree-rat and orange-leaf-nosed bat, and geographically restricted mammals such as monjon and scaly-tailed possum, occur naturally on islands,
- the lack of knowledge about the occurrence of many species on islands due to limited biological survey and a large number of islands means that there may be more occurrences of threatened species on islands, and
- introducing species to islands, even species native to the adjacent mainland, can lead to significant ecological change and is only warranted where the conservation outcomes outweigh the possible negative effects.

However, the status of some species on the Kimberley mainland is poorly known. Among mammals, for example, the taxonomic status of the Kimberley population of the brush-tailed phascogale (Phascogale tapoatafa) is unclear, but it may be a separate taxon or conservation management unit. The species has not been recorded from any island. Should it become clear that it is declining on the mainland, translocation to an island may be warranted.

3.2 Threats to Kimberley island biodiversity

3.2.1 Tourism and recreation

The north Kimberley coast and islands are one of the world’s last large ‘wilderness’ areas and one that possesses spectacular scenery. As such the area is attracting increased tourism. Most tourism is from charter boats, with increasing numbers of larger vessels entering the industry, such as the 100-passenger ship ‘Orion’. Most trips include a visit to an Aboriginal site on Bigge Island. Aboriginal people are concerned about tourists visiting this site, which is a burial site as well as an art site. Naturalists Island in Prince Frederick Harbour is visited by ecotourism and naturalist groups and a beach there is also used by helicopters based at Mitchell Plateau to land to pick up people from vessels for sightseeing flights.

Protection of islands and proper regulation of the industry, including meeting the aspirations and rights of Traditional Owners, are urgently needed. Future management of Kimberley islands offers employment opportunities for local people. (Also see findings on tourism under the section titled management systems)

3.2.2 Feral animals

Most Kimberley islands are free from feral animals, which is one of their biodiversity conservation values. The adjacent mainland is increasingly affected by feral cattle, donkeys, pigs and cats. Sir Graham Moore Island did have a population of feral pigs, but a recent visit during DEC’s Kimberley islands Biological Survey revealed that they had died out, apparently due to the island’s only fresh water source becoming saline after erosion caused by a cyclone. House mice (Mus musculus/domesticus) occur on Browse Island, black rats (Rattus rattus) occur on Sunday Island and Pacific rats (Rattus exulans) occur on Adele Island. According to the ShoreAir website www.shorebase.com.au/sa_troughton.html Troughton Island has introduced populations of quail and ‘Children’s pythons’.

The cane toad (Bufo marinus) will establish in the eastern Kimberley in the near future and is likely to spread throughout the higher rainfall parts of the Kimberley. The arrival of cane toads into an area where they previously did not occur leads to a significant decline in some frog predators such as the northern quoll (Dasyurus hallucatus), although Queensland experience shows that these predators gradually increase in numbers in the presence of cane toads, perhaps not to the same level of abundance. Cane toads can be carried to islands when flooding occurs
after high rainfall events, as has happened in the Sir Edward Pellew Islands in the Gulf of Carpentaria, Northern Territory. Predicting which islands might be invaded in the future is difficult, but islands near the mouth of major rivers would be most at risk. (Also see findings on feral animals under the section titled management systems)

3.2.3 Weeds
One weed in particular, stinking passion flower *Passiflora foetida*, has established on several Kimberley islands. Its seeds are believed to be spread by birds. It is particularly common at the edges of rainforest patches and in swamps. Research into biological control is urgently needed.

3.2.4 Biosecurity
Biosecurity issues for Western Australian islands were outlined in the Phase I Report. In summary, invasive exotic species have been the major cause of loss of biodiversity on Australian islands. Kimberley islands have, so far, largely escaped the establishment of invasive species. Black rats *Rattus rattus* established on the Lacepede Islands, probably from pearling vessels in the 19th Century and would have affected breeding success by smaller seabirds such as small terns. The rats were eradicated by the Department of Conservation and Land Management in 1986 (Burbidge and Morris 2002). Black rats occur on Sunday Island, possibly being transported in food and materials taken to the mission that once occurred there. The Pacific rat *Rattus exulans* occurs on Adele Island, presumably having escaped from an Indonesian fishing vessel. Pigs *Sus scrofa* occurred on Sir Graham Moore Island but are no longer present. The weed stinking passionflower *Passiflora foetida* occurs on several islands and is expanding in range.

With visitation increasing, prevention of establishment of exotic animals and plants on Kimberley islands should have a very high priority, as should the eradication, where feasible, of any exotics detected on island conservation reserves. Currently, surveillance of islands aimed at detecting incursions of exotic animals or plants is *ad hoc* and should, for high priority islands at least, become a high priority regular action. Eradication expertise in the Department of Environment and Conservation needs to be maintained.

3.2.5 Fire regimes
Fires in the Kimberley can start from lightning or be lit by humans. Most Kimberley islands burn infrequently, mainly from lightning strikes, but fires seem to be increasing in frequency on some visited islands, such as Augustus.

3.2.6 Climate change
Significant changes in regional rainfall patterns have occurred over the past century (Figure 1), especially when comparing the period 1910-1950 and the period since. Since 1950, annual rainfall and extreme daily rainfall intensity and frequency have increased over the north west, mainly in the summer (Steffen *et al.* 2009). Australian average temperatures on land have
increased by 0.9 °C since 1950 (Figure 2), but with regional variations; the North Kimberley being an area where there has been no significant change.

The projected rate of temperature increase for the rest of this century far exceeds that experienced during the past several million years. The degree that Australia’s biodiversity is affected will depend on the magnitude and rate of change and that, in turn, will depend on the extent to which the nations of world act to limit CO₂ and other greenhouse gas emissions during the coming decades. However, even with a rapid global response, at least a 1.4°C increase is locked into the climate system and few climate scientists expect less than a 2°C increase by 2100 compared with 1990 (Steffen et al. 2009).

Increases in sea level are already occurring and greater increases are expected over the next decades, the amount depending largely on the amount of ice melt in Greenland and Antarctica. Most Kimberley islands are steep and rugged and terrestrial impacts will be most visible on cays, beaches, mudflats and mangal. Turtle rookery beaches are expected to be severely impacted. High biodiversity value cays and low-lying islands that will be affected by rising sea levels
include the Lacepede Islands, Adele Island, Browse Island, Booby Island, Lesueur Island and Pelican Island, all important seabird breeding islands.

3.2.7 Oil, gas and other resource industries

Major natural gas resources are located off the Kimberley coast in the Browse Basin and the Timor Sea. Exploration and exploitation of these resources has placed some pressure on Kimberley islands in the past and is a potential future issue. The largest proposed impact was the proposal by Inpex to construct a major liquefied natural gas plant and associated infrastructure on Maret and South Maret Islands. This proposal has now lapsed and the State Government has decided that onshore processing for Browse basin gas should be in a multi-user ‘hub’ on the mainland at James Price Point north of Broome.

Some islands are used by industry. Koolan and Cockatoo Islands (Buccaneer Archipelago) have been mined for iron ore for some decades. Nearby Irvine Island is under consideration for iron ore mining. Troughton Island has an unsealed airstrip, used by ShoreAir, as an alternate the Mungalalu-Truscott airport, which supports oil and gas operations in the Timor Sea. The Bureau of Meteorology maintains an automatic weather station on the island. Aquaculture use of bays adjacent to islands has been considered (Fisheries Department Kimberley Aquaculture Development Plan 1998).

3.3 Context – Findings

1. One weed species, stinking passionflower, is invading numerous Kimberley islands and there is a need for biological control research.
2. While there are obvious logistical and financial difficulties associated with managing islands, regular biosecurity surveillance of high priority biodiversity conservation islands is essential and island biosecurity is not getting a high enough overall priority in nature conservation delivery in WA (also see section 5.1 Inputs).
3. Public education about biosecurity on islands is needed.
4. Protection of islands and proper regulation of the industry, including meeting the aspirations and rights of Traditional Owners, is required.
5. Climate change is predicted to significantly affect many Western Australia islands. In coming decades, rising sea levels and increased storm surge will erode beaches used by turtles and seabirds for breeding, and rising sea levels and storm surge will combine to flood many cays and other low-lying islands. The timing of island loss will depend on the rate of global greenhouse gas emissions and the amount of ice sheet melting. Cays within coral reef systems are unlikely to keep pace with rising sea levels, because coral reefs will not grow due to increased sea temperatures and increasing ocean acidity. Turtle breeding will be affected by increasing incubation temperatures resulting in a sex bias in hatchlings or failure to hatch.

3.4 Context – Recommendations

1. DEC work with CSIRO Division of Entomology to develop biological control for the stinking passionflower *Passiflora foetida*.
2. DEC prioritise and/or seek resources to undertake biosecurity surveillance on high priority biodiversity conservation islands.
3. A public education program about island biosecurity be developed and implemented; the primary target should be commercial and private boat owners.
4. DEC work with the tourism industry (eg, the Leading Travel Companies Conservation Foundation), the Sustainable Tourism Cooperative Research Centre, the Kimberley Land Council and Traditional Owners to develop an enforceable Kimberley islands and coast...
tourism and recreation management strategy that minimises impact on biodiversity and cultural values.

5. Research be conducted to identify Kimberley islands and species on islands that will be deleteriously affected by climate change, particularly islands with Kimberley endemics and islands with seabird and turtle breeding rookeries, and strategies be developed to minimise impact.

4. PLANNING

4.1 Kimberley islands vested in the Commission

Information on the few Kimberley islands vested in the Conservation Commission was provided in the Phase I report and is provided in revised summary form below. Areas given below are from DEC’s tenure information system (TENIS) and from Appendix 1 (complete list of Kimberley islands), which were calculated from shape files (see Appendix 2 - Methods used in developing a list of Kimberley islands). There is notable variation in the areas figures listed below. Most of the area figures in Appendix 1 are considered more accurate than those listed in TENIS, with a few less accurate. A reconciliation of these vested island land area figures would be of benefit to future planning.

Pelican Island (Joseph Bonaparte Gulf), 8.1 ha in TENIS, 19.4 ha in Appendix 1. Not Class A and does not extend to low water mark. Kevin Coate reported an abandoned Australian pelican rookery with about 30 nests, some containing up to three eggs, during a visit on 14 July 2005. Other birds present during this visit were Australian darter, eastern reef egret, striated heron, rufous night-heron, brahminy kite, Australian kestrel, eastern curlew, common greenshank, common sandpiper, grey-tailed tattler, ruddy turnstone, beach stone-curlew, pied oystercatcher, sooty oystercatcher, red-capped plover, lesser sand plover, greater sand plover, gull-billed tern, crested tern, sacred kingfisher, willie wagtail and golden-headed cisticola.

Lesueur Island (Joseph Bonaparte Gulf), 57.8 ha in TENIS, 72.0 ha in Appendix 1. Class A reserve, extends to low water mark. Lesueur is a sandy cay. Bridled tern breeding recorded in 1978 and 1982; no recent data. The island has a flatback turtle rookery.

Low Rocks (Admiralty Gulf), 4 ha in TENIS, 5.1 ha in Appendix 1. Class A reserve, extends to high water mark only. Formerly a significant seabird breeding island, but recent information suggests that many species have moved to Sterna Island, on the west side of the Gulf, which is not reserved (Coate 2004). Kevin Coate (2005; Appendix 5) recorded breeding of pied cormorant, white-bellied sea-eagle, crested tern and lesser crested tern.

Browse Island (Timor Sea), 14 ha in TENIS, 25.4 ha in Appendix 1. Not a Class A reserve; extends to low water mark. The site of a major turtle rookery. The island was extensively disturbed by guano mining more than 100 years ago and house mice occur there. A helipad is used by the oil and gas industry. It is visited by Indonesian fishers.

Sandy Island, Scott Reef. Lies within a marine park, the total area of which is 11,568 ha (TENIS). It has a major turtle rookery, is used by the oil and gas industry and is visited by Indonesian fishers.

Adele Island (Timor Sea, north of Buccaneer Archipelago), 217 ha in TENIS, 299.6 in Appendix 1. Class A reserve; extends to low water mark. A very significant seabird breeding island with several Japan-Australia Migratory Birds Agreement (JAMBA), China-Australia
Migratory Birds Agreement (CAMBA) and Republic of Korea Migratory Birds Agreement (ROKAMBA) listed species breeding there. Of particular importance are large colonies of masked booby, brown booby, Australian pelican and lesser frigatebird. It has the only known WA colonies of red-footed booby and greater frigatebird. Intertidal zone used by migratory waders. The exotic *Rattus exulans* is present and a 2004 attempt by DEC’s West Kimberley District to eradicate it was not successful. Eradication should be a high priority, as the existence of this population increases the risk of animals being transported to other Kimberley islands or the mainland by boats. Planning is currently underway in DEC for another attempt to eradicate the rats.

**Swan Island** (off Swan Point, near Cape Leveque), 29 ha in TENIS, 22.0 ha in Appendix 1. Not a Class A reserve; extends to high water mark only. Swan Island was reserved at a time when brown boobies nested there, but there is nothing to indicate that they still do and there is no other information about its biodiversity values.

**Lacepede Islands** (north of Broome), four islands totalling 180.2 ha in TENIS, Appendix 1: West Island 90.6 ha, Middle Island 60.9 ha, Sandy Island 7.94 ha, East Island 3.5 ha, Total 162.9 ha. Not a Class A reserve; extends to low water mark. Very important seabird and green turtle breeding islands. Major seabird breeding colonies of masked booby, brown booby, pied cormorant, Australian pelican and lesser frigatebird. Black Rats have been eradicated. Visited by tourist charter boats.

**Bedwell and Cunningham Islands** (Rowley Shoals). No area in TENIS, 56.3 ha and 63.5 ha in Appendix 1. Located within a marine park. Red-tailed tropicbirds breed on Bedwell Island, but it is a minor breeding site for the species, which has large breeding colonies on several oceanic islands. No available information on Cunningham Island. The Rowley Shoals Marine Park Management Plan covers the surrounding waters.

No management plans exist for any of the reserved Kimberley islands.

4.2 Islands not vested in the Commission

The great majority of Kimberley islands are unallocated Crown land. DEC does have certain responsibilities on islands which are unallocated Crown land or unmanaged reserves such as managing declared plants and animals. A number of islands near the former Kunmunya Mission are included in Reserve 23079 for ‘Use and Benefit of Aborigines’, which is vested in the Aboriginal Lands Trust. It includes islands in Doubtful Bay and the Montgomery Islands, north to Cape Wellington. Larger islands within this reserve include Augustus, Byam Martin, Champagny, Heywood, Jungulu, Uwins, St Andrew and St Patrick.

Other reserves for ‘Use and Benefit of Aborigines’ that include islands are reserves 23080 (Storr Island and islands in Doubtful Bay), 23081 (unnamed islands north east of Augustus Island and near Lizard Island), 24705 (unnamed island east of Cape Bougainville), 25106 (Sunday and Hancock Islands), 25107 (East Sunday) and 29174 (Jackson Island).

Available published and unpublished terrestrial biodiversity information is summarised in the Annotated Bibliography (Appendix 4).

4.3 Progress relating to the recommendations in the document ‘Nature Conservation Reserves in the Kimberley Western Australia’

*Nature Conservation Reserves in the Kimberley Western Australia* (Burbidge et al. 1991) was the submission by the former Department of Conservation and Land Management to the
Kimberley Region Planning Study and was compiled from information available in early 1987. Its wide-ranging recommendations for protected areas included a number of islands. The current status of these recommendations is given in Table 6.

**Table 6. Status of reservation recommendations made in ‘Nature Conservation Reserves in the Kimberley Western Australia’ (1991)**

<table>
<thead>
<tr>
<th>Rec No.</th>
<th>Island(s)</th>
<th>Recommendation</th>
<th>Current Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Adele</td>
<td>Class A Nature Reserve</td>
<td>Implemented</td>
</tr>
<tr>
<td>1.2</td>
<td>Browse</td>
<td>Class A Nature Reserve</td>
<td>Reserved, but not Class A</td>
</tr>
<tr>
<td>1.3</td>
<td>Rowley Shoals</td>
<td>Class A marine national parks</td>
<td>Class A Marine Park</td>
</tr>
<tr>
<td>2.4</td>
<td>Lacepede Islands</td>
<td>Sandy Island be added to existing reserve. Reserve should be Class A.</td>
<td>Sandy Island added. Reserve not classified as Class A.</td>
</tr>
<tr>
<td>3.7</td>
<td>Pelican Island</td>
<td>Existing reserve for ‘Wildlife Sanctuary’ be amended to nature reserve and classified Class A</td>
<td>Reserve not classified Class A</td>
</tr>
<tr>
<td>4.1.1</td>
<td>Institut, Montesquieu and Kingsmill Islands</td>
<td>A Biological survey be conducted; in the meantime any development proposals be referred to the EPA</td>
<td>No detailed survey, no change in status</td>
</tr>
<tr>
<td>4.1.2</td>
<td>Cassini Island</td>
<td>Class A Nature Reserve</td>
<td>Not reserved</td>
</tr>
<tr>
<td>4.1.3</td>
<td>Osborn Islands</td>
<td>Class A Nature Reserve</td>
<td>Not reserved</td>
</tr>
<tr>
<td>4.1.4</td>
<td>Low Rocks</td>
<td>Existing reserve be changed to Class A</td>
<td>Class A Nature Reserve</td>
</tr>
<tr>
<td>4.2.1</td>
<td>Bonaparte Archipelago, Augustus Group</td>
<td>CALM negotiate with local Aboriginal communities and the Aboriginal Lands Trust with a view to working out arrangements for the management of the islands for nature conservation and the protection of Aboriginal heritage values</td>
<td>No change</td>
</tr>
<tr>
<td>4.2.2</td>
<td>Prince Regent group of islands</td>
<td>1. CALM negotiate with local Aboriginal communities and the Aboriginal Lands Trust with a view to working out arrangements for the management of islands at the mouth of the Prince Regent River and in St George Basin for nature conservation and the protection of Aboriginal heritage values 2. Bat Island, the Coronation Islands, Boongaree Island and other islands in Prince Frederick Harbour be added to Reserve 27164 – Prince Regent Nature Reserve</td>
<td>1. No change 2. Not included in Prince Regent Nature Reserve</td>
</tr>
<tr>
<td>4.3</td>
<td>Buccaneer Archipelago</td>
<td>1. Hidden, Long, Irvine, Conilurus, Gibbings, Chambers, Pascoe, Flora, Kathleen and the group from King Hall to Caffarelli be declared Class A Nature Reserves 2. Admiral, Powerful, Bruin, Sir Frederick and Lachlan Islands be declared Class B Nature Reserves</td>
<td>1. Not reserved 2. Not reserved (Class B no longer exists)</td>
</tr>
<tr>
<td>4.6</td>
<td>Hunter River area</td>
<td>Islands in Prince Frederick Harbour be added to the Prince Regent Nature Reserve (see 4.2.2)</td>
<td>Not reserved</td>
</tr>
<tr>
<td>4.7</td>
<td>Kingfisher Islands</td>
<td>Class C Nature Reserve</td>
<td>No change (Class C no longer exists, now equates to ‘other’ or not Class A reserve)</td>
</tr>
<tr>
<td>4.10</td>
<td>Montgomery Islands and Reef</td>
<td>Class A marine park</td>
<td>Not reserved</td>
</tr>
<tr>
<td>4.13</td>
<td>Sir Graham Moore Islands</td>
<td>Class C Nature Reserve</td>
<td>Not reserved (Class C no longer exists, now equates to ‘other’ or not Class A reserve)</td>
</tr>
<tr>
<td>4.14</td>
<td>Walcott Inlet area</td>
<td>Class A nature reserve to include Storr Island</td>
<td>Storr Island is reserved for ‘Use and benefit of Aborigines’</td>
</tr>
</tbody>
</table>
4.4 Inclusion of Kimberley islands in the State’s protected area system

Very few Kimberley islands are included in Western Australia’s system of protected areas and the reserves system in the Kimberley as a whole, and for Kimberley islands in particular, does not meet accepted ‘Comprehensive, Adequate and Representative’ criteria. Only 12 of the 2633 Kimberley islands are currently reserved for nature conservation. Some of these do not have the highest level of protection and some do not extend to low water mark.

Almost all recommendations for additional nature conservation reserves made in the past have not been enacted, initially because of concerns expressed to government by resource industries and the State Department of Mines and Petroleum (and its predecessors) that this would inhibit mineral exploration and production, and more recently also because of Native Title issues. Future protection of the biodiversity of Kimberley islands must take account of the aspirations and native title claims of local Aboriginal people.

Establishing priorities for inclusion of Kimberley islands in a protected area system is greatly inhibited by lack of comprehensive biodiversity information. Because there are more than two thousand islands that have not had their biodiversity documented, it will not be possible to document the distribution of plants and animals on all but a few of them in the foreseeable future. Detailed information will continue to be limited to a few large islands and the biodiversity of smaller islands will, unless considerable resources are allocated to biological survey in the near future, remain largely unknown.

However, available information demonstrates that the larger Kimberley islands that have been examined by biologists have very high biodiversity conservation values. The 109 Kimberley islands of more than 200 ha, plus smaller islands with biodiversity data and/or known high conservation values, together with a brief notes on their biodiversity values where known, are listed in Table 7 (see over). Of the 109 islands of >200 ha, 50 are noted as ‘not surveyed’.
<table>
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<th>Island Name</th>
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**Smaller islands with biological survey data or with known high biodiversity conservation values**

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<th>Decimal longitude</th>
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<td>COLBERT</td>
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<td>DESCARTES</td>
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<td>How et al. 2006</td>
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KIBS - DEC's Kimberley islands Biological Survey
DFW 1982 - Department of Fisheries and Wildlife Buccaneer Archipelago survey
Making specific recommendations for particular islands or island groups to be included in the protected area system would be biased in favour of those for which information is available. It is clear, however, that all the larger islands have significant biodiversity conservation values and that some smaller islands with seabird colonies and/or marine turtle rookeries also require urgent protection.

Kimberley islands collectively are an extremely valuable biodiversity conservation resource. There is an opportunity to include all or almost all Kimberley islands in the State’s protected area system using mechanisms such as conservation reserves that are jointly managed by the State and Traditional Owners.

4.5 Planning Findings
1. Very few Kimberley islands (12 out of 2633) are included in the State’s system of protected areas.
2. No management plans exist for any of the reserved Kimberley islands.
3. Almost all recommendations for additional nature conservation reserves made in the past, including those in Nature Conservation Reserves in the Kimberley Western Australia (Burbidge et al. 1991), have not been enacted.
4. Detailed biodiversity information is limited to the largest islands and a few smaller islands known to have seabird breeding colonies and/or marine turtle rookeries.
5. Larger islands that have been surveyed by biologists are known to have very high biodiversity conservation values.
6. The 2633 Kimberley islands collectively are a very significant biodiversity conservation asset.
7. Translocation of threatened species to Kimberley islands is currently not warranted.

4.6 Planning Recommendations
1. The Conservation Commission and DEC work towards including all Kimberley islands in the State’s protected area system in a manner that takes account of the rights and aspirations of Traditional Owners. This can be considered as an important recommendation with a medium to long term view. For immediate consideration the list of outstanding recommendations presented in Table 6 (Status of reservation recommendations made in ‘Nature Conservation Reserves in the Kimberley Western Australia’ – 1991) and Table 7 (Kimberly islands of more than 200 ha, plus smaller islands with known biodiversity values) should form the priority listing for this recommendation.

5. INPUTS
Scientific research has been limited to occasional biological survey, mainly of the larger islands, with the current Kimberley islands Biological Survey, which ends in 2010, being a significant investment. Allocation of resources by DEC to Kimberley island survey, research and management is minimal. Biological survey data has also been collected by the Western Australian Museum, by Western Australian Naturalists’ Club expeditions, by Landscape Expeditions and by ecotourism tour guides. DEC’s Kimberley region staff do not have an identified budget for managing islands and do not visit any Kimberley islands on a routine basis.

Island biodiversity is clearly a very important component of WA’s biodiversity, and island conservation and management has been recognised as a significant activity for many decades. Nevertheless, resource allocation to Kimberley island conservation and management is very low. While there are obvious logistical and financial difficulties associated with managing islands there seems to be no specific allocation of resources to island conservation.
5.1 Inputs Findings

1. DEC’s Kimberley Region does not have an identified budget for work on islands.
2. Apart from an attempt to eradicate *Rattus exulans* from Adele Island, DEC’s Kimberley Region staff have not undertaken any work on Kimberley islands.
3. While there have been occasional biodiversity surveys by DEC and its predecessors and by the Western Australian Museum, there is no ongoing program to accumulate biodiversity data for Kimberley islands.
4. DEC’s Science Division is currently undertaking a major biological survey of 22 the largest Kimberley islands, which will provide high quality data for them, in many cases augmenting data collected previously. There are no plans to survey the thousands of other Kimberley islands.

5.2 Inputs Recommendations

1. Kimberley Region be provided with an identified budget for management of islands.
2. Visits to high priority islands be frequent and regular and include biosecurity surveillance. Staff visiting islands should be trained so that they can record and evaluate necessary information.
3. The Kimberley islands Biological Survey be extended so that the biodiversity of many other larger Kimberley islands can be documented, plus a sample of small islands.

6. MANAGEMENT SYSTEMS

This topic was covered in the Phase I Report and the findings in the Phase I Report should apply to the unreserved Kimberley islands as well as the few reserved ones. As stated in the context section, with visitation increasing, prevention of establishment of exotic animals and plants on Kimberley islands should have a very high priority, as should the eradication, where feasible, of any exotics detected on island conservation reserves. Currently, surveillance of islands aimed at detecting incursions of exotic animals or plants is *ad hoc* and should, for high priority islands at least, become a high priority regular action. Eradication expertise in the Department of Environment and Conservation needs to be maintained.

6.1 Management System Findings

1. Visitor use of Kimberley islands is increasing, including landings by ships carrying up to 100 passengers, but there is no Kimberley islands tourism strategy or means of managing visitor use to minimise impact on biodiversity and cultural values.
2. Feral animals are absent from almost all Kimberley islands and weeds, with one exception, are not a major problem. Establishment of invasive species of Kimberley islands would cause significant biodiversity loss, yet there is no biosecurity plan or regular inspection of high priority islands.
3. Feral animals are not currently a major issue on Kimberley islands, but there is a risk that exotic species will be introduced. Existing feral animal populations, such as of the Pacific rat on Adele Island, should be eradicated.
4. Fire management is currently not a significant management issue on Kimberley islands; however, increasing visitation may lead to more frequent fires.
6.2 Management System Recommendations

1. Commercial tourism operators and other visitors to Kimberley islands need better regulation and supervision. DEC work with tourism operators using Kimberley islands to develop and implement a biosecurity protocol.

2. Populations of feral animals on Kimberley islands be eradicated (Adele Island (highest priority), Sunday Island, Browse Island).

3. High biodiversity value islands be regularly surveyed for feral animals. Priorities for surveillance be developed as recommended in the Phase I Report.

7. OUTPUTS

As previously stated, knowledge of the terrestrial biodiversity of most Kimberley islands is generally very limited. There are no management plans for the reserved islands and as such there are no specific management or research products arising from plans to report against in this section. While there have been occasional biodiversity surveys by DEC and its predecessors and by the Western Australian Museum, there is no ongoing program to accumulate biodiversity data for Kimberley islands. The current DEC Kimberley islands Biological Survey is examining 22 of the largest islands and preliminary information and media releases have been recently produced.

The development of a Kimberley Science and Conservation Strategy is also underway and there have been community forums, workshops and meetings held in the Kimberley and in Perth. DEC is the lead agency for the development and implementation of the Kimberley strategy in conjunction with the Department of State Development. See further discussion of the Kimberley Science and Conservation Strategy under the section titled ‘Objective 4’ later in this report.

8. OUTCOMES

The conservation of biodiversity on WA islands south of the Kimberley has been a very successful method of conserving the State’s and nation’s biodiversity and the foresight of people who successfully sought the reservation of many of the State’s islands for conservation should be commended. Unfortunately, however, reservation of Kimberley islands has not been an accepted strategy, despite recommendations from the conservation agency and others.

8.1 Outcomes Findings

1. Most islands south of the Kimberley have been reserved for nature conservation, but Kimberley islands are almost entirely unprotected with only 12 of 2633 Kimberley islands being reserved for nature conservation.

2. Most Kimberley islands are under Native Title claim; most of these claims are unresolved.

8.2 Outcomes Recommendations

1. The conservation of the biodiversity on Kimberley islands deserves a much higher priority by government than has been the case in the past. This can be achieved by protecting all Kimberley islands in a manner that respects the rights and aspirations of Traditional Owners. Further to the detail of ‘Planning recommendation 1’ include all Kimberley islands on the national heritage list and most Kimberley islands and adjacent coast on the World Heritage List.
**OBJECTIVE 4**

The Kimberley islands collectively are an extremely valuable biodiversity conservation resource and the details and recommendations collated for Objectives 1, 2 and 3 as outlined earlier in this document aim to facilitate information for future planning. However the assessment has not to this point attempted to gauge and report on the cultural significance of specific islands to Traditional Owners.

The aim of Objective 4 for this performance assessment is as follows:-

- In consultation with Traditional Owners and stakeholders, recommending planning, research, management actions and reservation proposals for islands.

**9. CONSULTATION**

Most of the Kimberley islands are within the boundaries of Native Title claims/determinations. The results of these claims will mark an important milestone for future management of the Kimberley islands. Most of the Kimberley islands are also subject to several federally administered Indigenous Protected Area Consultation Projects.

The Conservation Commission has previously stated that the meaningful engagement of the Traditional Owners in the management of conservation areas is imperative. It is considered that the people who speak for country as traditional custodians should be directly involved in the decision making processes. The positive outcomes of a successful approach in this regard are numerous and are to the great benefit of all parties, such as:-

- A greater understanding by the broader community of the living cultures of Australia;
- Connection to country of people with traditional responsibilities;
- Economic opportunities for Aboriginal people across a wide range of areas;
- Direct engagement with improved management of the land, and;
- Acknowledgement of the importance of Aboriginal knowledge.

**9.1 Mechanisms for Joint Management**

In its current form, the *Conservation and Land Management Act 1984* (CALM Act) does not provide for Aboriginal joint management initiatives. In recent years options have been explored to amend the CALM Act in such a way that will enable joint management provisions to apply to conservation lands.

There is also a current initiative to;

- introduce legislative changes to the CALM Act to acknowledge Aboriginal interests in, and allow joint management of, lands and waters to which the Act applies and to allow for Aboriginal customary practices, as well as;
- associated amendments to the *Wildlife Conservation Act 1950* relating to Aboriginal hunting and gathering to enable joint management of land under agreement between Traditional Owners and the State Government.

**9.2 Kimberley Science and Conservation Strategy**

The *Kimberley Science and Conservation Strategy* is being developed by DEC in conjunction with the Department of State Development and the consultation phase has commenced. The Conservation Commission was asked by the Minister for the Environment; Youth to play a key
role in the development of the strategy with a specific focus on areas within the Kimberley conservation estate that warrant enhanced protection.

Through the process of engagement, which has commenced with the development of the strategy, the Conservation Commission will seek to fulfil its role in the discussions and arrangements which transpire. The Conservation Commission has outlined in its support of the strategy that it is important to investigate additional and complementary approaches to conventional tenure arrangements to enable shared and joint management of conservation reserves. The Conservation Commission considers flexibility and the discussion of all options a necessary approach to achieve sustainable conservation, tourism and broader development outcomes in a manner that takes account of the rights and aspirations of Traditional Owners. To achieve these multiple outcomes will be a complex task.

9.3 Implementing recommendations

The Conservation Commission will seek ways to integrate the recommendations of this report into the broader communication and consultation initiatives of the *Kimberley Science and Conservation Strategy*. Through such integration the recommendations in this assessment report will provide part of the Conservation Commissions input into the strategy.

As detailed in the Phase 1 report (*Biodiversity Conservation on Western Australian Islands (2008)*) the process of reserving islands for biodiversity conservation and vesting islands in the Conservation Commission of Western Australia has proved a successful method of conserving Western Australia’s biodiversity. For immediate consideration the list of outstanding recommendations presented in Table 6 (*Status of reservation recommendations made in ‘Nature Conservation Reserves in the Kimberley Western Australia’* – 1991) and Table 7 (*Kimberly islands of more than 200 ha, plus smaller islands with known biodiversity values*) should form the priority listing for the purposes of consultation.
ACKNOWLEDGEMENTS
(For consulting work undertaken by Dr Andrew Burbidge – Objectives 1, 2 and 3)

Many people helped me by providing information about Kimberley islands. I would like to thank:

- Tom Hughson (Conservation Commission) for carrying out all the analyses of Kimberley Island digitised maps, for developing the list of islands in Appendix 1 and for preparing Maps 1 to 5.
- Kevin Coate for providing his extensive notes on Kimberley birds from 1962 to the present and allowing me to extract data for Kimberley islands (Appendix 5) and providing notes on marine turtle breeding rookeries,
- Chris Hassell and Adrian Boyle of Turnstone Nature Discovery for providing data on the Lacepede islands and other islands with seabird breeding colonies,
- DEC for providing lists of threatened and priority flora and fauna known from Kimberley islands,
- DEC for providing information on threatened ecological communities,
- Russell Palmer for providing references on Kimberley islands,
- DEC for providing information on DEC’s Kimberley islands Biological Survey, and
- Mike Bamford of Bamford Consulting for providing information of islands surveyed by his company.

BIBLIOGRAPHY
(For consulting work undertaken by Dr Andrew Burbidge – Objectives 1, 2 and 3)


King, P.P. (1827). *Narrative of a survey of the intertropical and western coasts of Australia performed between the years of 1818 and 1822*. John Murray, London.


## APPENDIX 1. Complete list of Kimberley islands (in order of size - largest first)

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<th>Name</th>
<th>Ocean Mask</th>
<th>Hectares</th>
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<th>Joined to mainland at low tide?</th>
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APPENDIX 2. Methods used in developing a list of Kimberley islands

Tom Hughson and Andrew Burbidge

The north Kimberley coast has extreme tides, with more than an 11 metre range in places, and is heavily incised with many embayments, mangrove forests, narrow valleys and tidal rivers. Developing a list of Kimberley islands was not straightforward as some of the many features that show up on maps and digital coastal/island boundaries are close to the coast and may appear to be joined to it by mangroves or tidal flats. Available topographic and digitised maps are often unclear about what ‘an island’ is and what intertidal areas are. A set of rules was therefore developed to guide decisions about what features were included or excluded from the list. The basis for developing the rules was to identify islands as places where most terrestrial organisms would not be able to move between the island and the adjacent mainland, i.e., where there would be no or very limited gene flow.

Where doubt existed about whether a feature was an island the following rules were observed.

1. Above high water mark land masses separated from the mainland by mangrove-lined channels which fill at high tide but are dry at low tide were considered islands, but noted in the database as being joined to the mainland at low tide.
2. Above high water mark land masses joined to the mainland by supra-tidal flats (or supra-littoral zone, i.e., not normally submerged by ocean water, but sea water penetrates during extreme spring tides or storm surges) were not considered islands. Such areas include low-lying areas surrounded by mangroves that remain dry most of the time, even if lightly vegetated by salt-tolerant plants.
3. Mangrove patches surrounded by ocean but with no land above high water mark were not considered to be islands.

Datasets used for the geographic analysis

The principal data layer which was used to derive the estimates of island size, location and number was the layer titled ‘Polygonised Coast of Western Australia’. Its description provided in the metadata statement is:

This dataset consists of polygons delineating the coastline of Western Australia and includes the mainland, islands, intertidal and subtidal waters out to the limit of Coastal Waters of the state. Polygons were derived from the best available High Water (HWM), Low Water (LWM) and Mean High Water Mark (MHWM) linework from the WA Department of Land Information (DLI) as at August 2006, unioned with the latest Australian Maritime Boundaries (AMB) WA Coastal Waters extent. Polygons are attributed as Mainland (landward of the mainland HWM), Island (landward of island HWMS), Intertidal (between HWM and LWM) or Subtidal (seaward of the LWM, out to the limit of Coastal Waters of the state). (The Department of Environment and Conservation (DEC) is listed as the custodian of its own corporate dataset)

A subset of the above dataset was extracted which included only the polygons described as ‘Islands’. Part of the verification process involved closely analysing the polygons which were potentially connected to the mainland by tidal flats and/or mangroves. Near-shore islands were selected from the islands sub-set for analysis using another layer in the DEC corporate dataset which is titled ‘ocean-mask’. This layer is highly stylised and is probably more often used for map production than analysis, however the general extent of the layer was broadly suitable for this task.
The near shore islands were remotely assessed on a Geographic Information System using the rule set described above. Imagery utilised in the decision-making process included satellite imagery and aerial photography where this was available. A number of additions and deletions were made to the base dataset to derive the final estimate of islands. A geographical centroid was calculated and then (due to the large extent of the geographical analysis) the dataset was projected using GDA_1994_Australia_Albers to derive an area estimate.

(Note on accuracy of area estimates: - Area figures for the islands which are vested in the Conservation Commission are presented in the planning section of this report. These figures were derived from DEC’s tenure information system (TENIS) and from Appendix 1 (complete list of Kimberley islands), which were calculated from the shape file as described above. There is notable variation in the areas figures listed for these vested islands. Most of the area figures in Appendix 1 are considered more accurate than those listed in TENIS, with a few less accurate. A reconciliation of these vested island land area figures would be of benefit to future planning.)

A list of named islands was provided by Landgate with geographical coordinates. This listing was analysed for accuracy, with some locations adjusted and names removed where the island was not judged to meet the developed rule set. The names were then spatially joined to the polygon dataset to produce the final island list used to estimate island size, location and number.

Other datasets used for the analysis were:

- AUSLIG 250 000 geo-referenced mapsheet images - Mosaiced georeferenced images of the 1:250 000 scale map series of Australia's national mapping organisation which are distributed by GeoScience Australia under the title of NATMAP RASTER 250K 2002 (Version 3, 30 July 2002) (created by GeoScience Australia).
- Western Australian Coastline - Western Australian generalised coastline as collected by the Digital Acquisition Program (DAP) and AUSLIG (created by DEC).
**APPENDIX 3. Archipelagos and major island groups in the Kimberley**

Summarised from information provided by Landgate.

<table>
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<tr>
<th>Archipelago</th>
<th>Origin of name</th>
<th>Boundaries</th>
<th>Includes</th>
<th>Does not include</th>
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| Buccaneer Archipelago | Named by Philip Parker King in 1821 to commemorate visit of William Dampier in 1688 | Lies in the N.E. approach to King Sound and comprises about 200 islands  | Four separate groups. Bedford Islands forms the SW corner of Buccaneer Archipelago (Australia Pilot Vol. 5 6th Edition)
1. **North East Group** includes Macleay Islands, Conway Island, King Island, Macleay Island, Crabbe Island.  
2. **South East Group** includes McIntyre Island, Bathurst Island, Irvine Island, Flora Island, Kathleen Island, Wangania Island, Tanner Island, Cockatoo Island, Black Rock, Usborne Island.  
3. **West Group** of Buccaneer Archipelago comprises numerous islands of moderate size, many of them being connected by coral reefs - Caffarelli Island, Cleft Island, Barrett Rock, Fraser, Admiral, Bruen and King Hall islands and several smaller islands connected by a coral reef, Longitude Island, Powerful Island, Sir Frederick Island, Lord Island, Byron Island, Finch Islands, Gagg Islands, Hidden Island (the largest in the Buccaneer Archipelago), Bayliss Islands, Chambers Island, Dunvert Island, Packer Islands, Survey Island and Umida Island.  
4. **South West Group** includes Bedford Islands, Godsmark Island, Ashlyn Islands, Goat Island, Pope Island. | Islands south of Bedford Islands and Hidden Island, including High, Sunday, Mermaid, Long and nearby islands and islands in southern end of King Sound |
| Bonaparte Archipelago | Named by Thomas Nicholas Baudin in 1801 after                                   | All the islands, islets and rocks lying off                                | Champagny Islands, Heywood Islands, Coronation Islands, Bigge Island, Albert Islands, Maret Islands,  | Islands within St George Basin and Prince |

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<table>
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<th>Napoleon Bonaparte</th>
<th>Montague Sound, York Sound and Brunswick Bay</th>
<th>Prudhoe Islands, Montalivet Islands, Institut Islands, Montesquieu Islands</th>
<th>Frederick Harbour.</th>
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<td>Champagny Islands (part of Bonaparte Archipelago)</td>
<td>Named by Thomas Nicholas Baudin after Jean Baptiste Nompere de Champagny, duc de Cadore (1756-1834), French statesman and diplomat</td>
<td>Seaward of Heywood Islands</td>
<td>Champagny, Djarumu, Numanbu and Degerando</td>
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<tr>
<td>Heywood Islands (part of Bonaparte Archipelago)</td>
<td>Named by Philip Parker King in August 1821 after Capt Heywood on H.M.S. 'Vulcan' who was in these waters in 1801</td>
<td>Between Champagny Islands and Augustus Island</td>
<td>Heywood Island, Jungulu Island, Darcy Island and several unnamed islands</td>
<td>Byam Martin Island</td>
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<td>Coronation Islands (part of Bonaparte Archipelago)</td>
<td>Named by Philip Parker King “on the occasion of the anniversary of the late King's coronation&quot; – 22 September 1820</td>
<td>Off Port Nelson</td>
<td>Fontaines, Gale, Mably, Coronation, Grey, Glauert, Desfontaines, Waring, Bernoulli, Wickham and the island group of Desaix Islands</td>
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<tr>
<td>Institut Islands (part of Bonaparte Archipelago)</td>
<td>Named by Thomas Nicholas Baudin; individual islands named after members of the Academy Institute of Sciences in France. Solem Islands named in 1995 after Dr Alan Solem. Monesquieu Islands named after Charles de Secondat, baron de la Brede et de</td>
<td>Entrance to Admiralty Gulf</td>
<td>Montesquieu Islands, Kingsmill Islands</td>
<td>Osborn Islands</td>
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<td>Montesquieu (1689-1755), magistrate, man of letters, philosopher and a former Member of the French Academy of Sciences.</td>
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<td>Osborn Islands</td>
<td>Named by Philip Parker King in 1819 after Sir John Osborn, one of the Lords of the Admiralty. (Aboriginal name: Pelaga)</td>
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<td>Sir Graham Moore Islands</td>
<td>Named by Philip Parker King in 1819 after Sir Graham Moore, then holding a seat on the English Admiralty Board</td>
<td>Entrance to Napier Broome Bay</td>
<td>Sir Graham Moore Island, Scorpion Island</td>
<td>Governor Islands</td>
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APPENDIX 4. Kimberley islands annotated bibliography and notes on unpublished data

1. Kimberley islands published papers and reports


Data on vascular flora and vertebrate fauna of islands visited in 1971, 1972 and 1973 by Department of Fisheries and Wildlife expeditions accompanied by staff from the WA Museum and WA Herbarium. Islands visited (with varying amounts of data) were: Adele, Augustus, Bat, Bigge, Boongaree, Borda, Browse, Byam Martin, Carlia, Champagny, Commerson, Coronation, East Montalivet, Fenelon, Heywood, Jungulu (as Darcy), Katers, Kingfisher, Louis, Low Rocks, Melomys, Middle Osborn, North Eclipse, Saint Andrew, Sir Graham Moore, South Maret, South West Osborn, Uwins and Wollaston.


Summarises feral animal eradications on Western Australian islands, including the Lacepede Islands.


Includes data on brown boobies and lesser frigatebirds on Adele Island and Lacepede Islands.


States that the following Kimberley islands have important rookeries:
- Green Turtle: Lacepede Islands, Sandy Island (Scott Reef), Browse Island, Cassini Island.
- Flatback Turtle: Helpman Island, Troughton Island.


Detailed information on seabirds of Adele Island.


Detailed information on seabirds of Booby Island.

Information on birds of the Maret Islands.


Comprehensive summary of the birds of Naturalists Island.


Information on birds of the Coronation Islands.


Comprehensive information on the birds of many Kimberley islands. Summarised in Appendix 5.


Comprehensive information on the birds of many Kimberley islands. Summarised in Appendix 5.


Summarises information on seabirds of Sterna Island.


Summarises information on the seabirds of Adele Island.


Narrative of the Baudin expedition, which traversed the Kimberley coast in July and August 1801.


Documents Wandjina and Gwion Gwion Aboriginal art and culture of the Kimberley, including Bigge Island and some other islands. A few natural history collections made during expeditions are lodged in the WA Museum.

Includes limited biodiversity data for Cassini Island. BHPP sought a special lease to build and operate an airstrip on the island. EPA concluded that the proposal was environmentally unacceptable. Notes that CALM had applied for the island to be reserved for nature conservation and that the island has a turtle rookery.


Reports counts of seabirds made on a visit to the Lacepede Islands in October 1999.

Hassell, C. (2003). A bird survey with the Australian Quarantine Inspection Service of some Kimberley islands and Ashmore Reef. 22\textsuperscript{nd} to 26\textsuperscript{th} February 2003. Unpublished Report to AQIS.

Reports observations of birds on Adele Island, East, West and Middle Islands (Ashmore Reef), one of the Albert Islands and Cassini Island.


Reports large breeding colonies of roseate terns on Twin Islands, north of King Sound.


Reports observations by 15 people made on a trip to the Lacepede islands in October, 1998. Detailed bird counts made on 1 September and 14 October provided separately.


Reports bird counts on the Lacepede islands made by Broome Bird Observatory staff and volunteers and a CALM officer on West and Middle Islands.


Notes are about birds of Napier Broome Bay and the Drysdale River near the old Pago Mission. However, Hill made ‘several brief visits to islands and many points of the mainland between that bay (Napier Broome Bay) and Gibson Point (Parry Harbour) and on my return by lugger to Derby in July further opportunities were afforded for seeing much of the coast and adjacent islands of the Kimberley’ (p. 259). Only islands mentioned by name are Hecla and Augustus.


Documents biological collections and observations made on 35 islands in 2002 – 2005. Islands examined were: Berthier, Bigge, Bonaparte, Boongaree, Buffon, Capstan, Carlaia, Cassini, Colbert, Cornelle, Coronation, Descartes, Don, Fenelon, Glauert, Grey, Hedley, Keraudren, Kidney, Lafontaine, Low Rocks, Maret (as Maret North), South Maret, McCullouch, East Montalivet, West Montalivet, Middle Osborn, South West Osborn, Parry, Purrungku (East), Steep Head, unnamed (14°36’S, 125°14’E), Walker, Whitley and Woodward.

Detailed information on the flora and vegetation of Koolan Island, Buccaneer Archipelago.


Narrative and data including visits to Lacepede Islands, Koolan Island, Cockatoo Island and Mulgudna Island.


Documents indigenous values and assets of marine and coastal environments of the north Kimberley. Proposes management frameworks and policy directions.

King, P.P. (1827). *Narrative of a survey of the intertropical and western coasts of Australia performed between the years of 1818 and 1822*. John Murray, London.

Narrative of hydrographical survey of Kimberley coast and islands. Includes natural history observations.


Reports a visit to King Hall Island to search for *Lerista praefrontalis* and suggests that it is an aberrant *L. griffini*.


Detailed information on the fauna of Koolan Island, Buccaneer Archipelago.


Detailed information on rainforest patches in the Kimberley, including those on Augustus, Bigge, Boongaree, Glauert, Middle Osborn, Saint Andrew and South West Osborn Islands.


Report on biological surveys of Kimberley islands in August 1991. Collections were made mainly of marine animals and plants, but includes some data on terrestrial molluscs and freshwater fishes and molluscs. Includes data from an unnamed island south of Fenelon Island at 14°09’S, 125°39’E and West Montalivet Island.

Includes data on birds of Scott Reef, Seringapatam Reef, Sandy Island (Long Reef), Stewart Islands, Jones Island, Lesueur Island, Low Rocks, Browse Island, Booby Island (as White Island), Adele Island and the Lacepede Islands.


Includes observations of birds on Sunday Island.


A re-appraisal of the status of terrestrial mammals at sites visited in the 1970s. Includes data on Bigge, Boongaree, Uwins and Augustus Islands.


Includes narrative of a hydrographical survey of Kimberley coast in 1838.


Includes an annotated list of birds observed on Cockatoo Island in July and August 1956. Makes comparisons with birds of Sunday Island. Mentions that a ‘rabbit rat (*Mesembriomys*)’ lived on the island. Only Kimberley rock-rats have been collected there.


Includes a preliminary report by Alan Solem (Field Museum of Natural History, Chicago) on land snails collected by Vince Kessner and A.F. Longbottom at 101 stations on 82 islands. Many marine collections made also. Appendix A lists collecting stations for land mollusca, including many unnamed islands, some of which have since been named.

2. Unpublished data

**Biological collections.** The collections of the Western Australian Museum and Western Australian herbarium have specimens collected on Kimberley islands.

**Buccaneer Archipelago expedition 1982.** Department of Fisheries and Wildlife research scientists and other staff conducted a biological survey of islands in the Buccaneer Archipelago and adjacent islands in King Sound in 1982. Botanical collections were lodged in the WA Herbarium and zoological collections were lodged in the WA Museum. Islands examined were: Bathurst, Caffarelli, Conilurus, East Sunday, Gibbings, Hidden, Irvine, King Hall, Long, Lachlan, Macleay, Sir Frederick and Sunday.

**Bamford Consulting for Inpex.** Bamford Consulting conducted biological surveys of Maret and South Maret Islands, which at the time were the proposed site of a liquefied natural gas plant. For comparison the nearby Berthier, East and West Montalivet, Walker and the largest of the Albert Islands were also surveyed, and a brief visit was made to Bigge Island. Lists of
specimens collected were sent to DEC as a requirement of the company’s scientific licence return. Full survey data are not currently available.

**Kimberley islands Biological Survey.** DEC scientists together with scientists from the WA Museum, are carrying out detailed biological surveys of 22 of the largest islands off the Kimberley. Field work commenced in the 2007 dry season and is programmed to finish in the 2009-10 wet season. Surveys are site-based and include mammals, birds (opportunistic data only), reptiles, frogs, terrestrial and aquatic molluscs and vascular plants. Islands surveyed are: Adolphus, Augustus, Bigge, Boongaree, Byam Martin, Coronation, Jungulu, Hidden, Katers, Kingfisher, Lachlan, Long, Middle Osborn, unnamed (16.2488ºS, 123.8208ºS, NW of Molema), Sir Graham Moore, St Andrew, Storr, Sunday, Uwins, unnamed (15.9367ºS, 124.4590ºE) and Wulalam. The results of the survey will be published.
APPENDIX 5. KEVIN COATE’S KIMBERLEY BIRD SIGHTINGS FROM 1962 – ISLANDS DATA ONLY

Orange-legged Scrubfowl - Megapodius reinwardt
Coronation Island: 18/7/1997 (two nest mounds).
Maret Islands (north island): 10/8/2005 (1).

Brown Quail - Coturnix ypsilophora
Lacepede Islands (Sand Island): 30/6/1996 (2).
Champagny Island (Loran site): 1/9/2008 (severe fire over the island in May. Breeding, an abandoned nest with 6 eggs, partly incubated and roasted).
Low Rocks (Montesquieu group): 2/5/2005 (1).

Masked Booby - Sula dactylatra
Middle Lacepede Island: 9/5/1987 (one flying over boat from islands); 28/5/1995 (two flying from islands); 18/5/1996 (2); 30/4/2002 (one seen from boat flying from Island); 28/6/2004 (breeding - 2 nests, each with a medium size downy young); 9/8/2004 (one flying near Middle Island); 9/9/2004 (breeding - one bird with a large young). 26/4/2005 (breeding – 3 nests); 15/5/2005; 4/5/2008 (breeding – one nest).

Red-footed Booby - Sula sula
Adele Island: 2/6/1990; 8/7/1990; 28/5/1992; 11/5/1993; 1/6/1993; 17/5/1995; 20/5/2002; 18/5/2003 (breeding - at least 6, there was probably more but didn’t check out the full area due to presence of predatory Silver Gull); 30/7/2004 (7 nests with small young + one large chick almost fledged).

Brown Booby - Sula leucogaster
Adele Island: 7/6/1989 (breeding - all stages); 2/6/1990 (breeding - all stages); 8/7/1990 (breeding - all stages); 28/5/1992 (breeding - all stages); 11/5/1993 (breeding - all stages); 1/6/1993 (breeding - all stages); 17/5/1995 (breeding - all stages); 20/5/2002 (breeding - at least 6, there was probably more but didn’t check out the full area due to presence of predatory Silver Gull); 30/7/2004 (breeding - mostly small to large young, an occasional nest with eggs – also an albino bird near cyclone in March).
Lacepede Islands (Sand Island): 30/6/1996 (approx 300 breeding - all stages); 28/6/2004 (breeding northern side 300-400. Eggs and small to medium size downy young. One nest with 3 naked young. Spinifex dense and very green after cyclone in March).
Middle Lacepede Island: 9/5/1987 (breeding - all stages); 23/5/1987 (breeding - all stages); 12/5/1988 (breeding - all stages); 24/5/1990 (breeding - all stages); 28/5/1995 (breeding - all stages); 18/5/1996 (breeding - all stages); 28/6/2004 (breeding - eggs to small downy chicks, an occasional larger chick. Severe cyclone in March probably affected breeding); 9/8/2004 (breeding - mostly small downy chicks to fledged birds, only one set of eggs seen); 9/9/2004 (breeding - many immatures roosting on shore line or flying). 26/4/2005 (breeding – mainly on eggs, an occasional large downy chick); 15/5/2005; 24/4/2006 (breeding – almost all on eggs); 4/9/2006 (large downy young to fully fledged – one mature albino); 4/5/2008 (breeding – fresh eggs to large downy chicks); 28/8/2008 (large downy young to fully fledged).
West Lacepede Island: 14/5/1985; 10/5/1986 (breeding - all stages); 9/5/1987 (breeding - all stages but not as advanced as same time last year); 24/5/1990 (breeding - all stages); 19/7/1990 (breeding - large young); 24/5/1993 (breeding - all stages); 28/5/1995 (breeding - all stages); 18/5/1996 (breeding - all stages); 30/6/1996 (breeding - all stages); 30/4/2002 (breeding - all stages); 27/4/2004 (breeding - all birds on eggs which is unusual. Severe cyclone in March probably affected breeding); 28/6/2004 (breeding - eggs to small downy chicks, an occasional larger chick. Severe cyclone in March probably affected breeding); 9/8/2004 (breeding - chicks to fledged young); 9/9/2004 (breeding - medium to large downy chicks to fledged young). 26/4/2005 (breeding - eggs); 15/5/2005; 24/4/2006
(breeding – almost all on eggs); 4/5/2008 (breeding – almost all with eggs – an occasional downy chick); 28/8/2008 (large downy young to fully fledged).

**Tide Rip Island:** 1/6/1984.

**Darter - Anhinga melanogaster**


Revelley Island: 14/7/2005 (2).


**Wilson’s Storm Petrel - Oceanites oceanicus**


Sunday Island: 1/7/1996.

Napier Broome Bay: 28/5/2009 (one close to Bird Island.

**Bigge Island:** 2/6/2009 (one close inshore to SE end of island).

**Pied Cormorant - Phalacrocorax varius**


Lacepede Islands (Sand Island): 30/6/1996 (15).

East Lacepede Island: 30/6/1996 (15).

Middle Lacepede Island: 9/5/1987 (400); 23/5/1987 (breeding - north end of Island, about 180 nests with from one to four eggs, some freshly built nests not yet with eggs. An abandoned cormorant rookery of about a hundred nests was also found with the dried remains of three quarter grown chicks still in their nests ); 24/5/1990 (breeding - 30 nests); 28/5/1995 (breeding - three rookeries totalling 150). 18/5/1996 (breeding 50); 28/6/2004 (breeding - about 40 in depression on Abutilon indicum. Most almost fully fledged but some adults sitting indicating eggs or small young); 9/8/2004 (breeding); 9/9/2004 (breeding - a few still with young in nest). 26/4/2005 (breeding - south east end); 15/5/2005; 24/4/2006 (breeding - could only see part of colony – counted 20 to 30 birds in nesting area); 4/5/2008 (breeding, south side – about 200 on nests); 15/5/2005; (about 200 nests - apart from 4 fully fledged young all others had departed nests).


Low Rocks (Montesquieu group): 2/5/2005 (300+ roosting on Island); 9/5/2005 (200-300 clustered on vegetation on island SE side, indicating they were preparing to breed); 11/8/2005 (About 300 well built nests made mainly with cane grass sorghum sp. About 20 still occupied, containing downy to almost fledged young. Several hundred immatures sitting on rocks close to rookery); 1/5/2006 (about 300 roosting on rocks. No sign of breeding. Cormorants were being harassed by two sea eagles); 12/5/2008 (1): 31/5/2009 (200 – 300 on island - appeared to be breeding – did not go ashore to verify).

Oyster Rock (Montesquieu group): 9/5/2005 (3).

**Woku Woku Island** (Vansittart Bay). 12/5/2008 (8).

**Aunt Island:** 14/7/2005 (1).

**Australian Pelican - Pelecanus conspicillatus**


West Lacepede Island: 10/5/1986; 24/5/1993; 30/4/2002 (3); 27/4/2004. **Middle Lacepede Island:** 9/5/1987 (breeding - 9 young); 23/5/1987 (breeding - 5 young. Many abandoned eggs, about 40 from a failed breeding attempt earlier, possibly the same time as the abandoned Pied Cormorant colony); 24/5/1990 (breeding - 13 almost fully fledged young); 24/5/1993 (breeding - 20); 28/5/1995 (breeding - 30); 18/5/1996 (breeding - 20-30); 28/6/2004 (breeding - from a distance, 3 almost fully fledged chicks. There may have been younger birds, most likely affected by severe cyclone in March); 9/8/2004; 9/9/2004 (12). 26/4/2005 (about 12 in lagoon area, possibly breeding) 15/5/2005.
Middle Lacepede Island: 9/5/1987 (breeding - 9 young); 23/5/1987 (breeding - 5 young. Many abandoned eggs, about 40 from a failed breeding attempt earlier, possibly the same time as the abandoned Pied Cormorant colony); 24/5/1990 (breeding - 13 almost fully fledged young); 24/5/1993 (breeding - 20); 28/5/1995 (breeding - 30); 18/5/1996 (breeding - 20-30); 28/6/2004 (breeding - from a distance, 3 almost fully fledged chicks. There may have been younger birds, most likely affected by severe cyclone in March); 9/8/2004; 9/9/2004 (12). 24/4/2006 (breeding – could only see part of colony – counted about 30 adult birds in nesting area); 3/5/2008 (breeding – 50 with eggs or small young); 28/8/2008 (4 almost fully fledged juveniles in rookery in middle of island).

Montgomery Reef and Island: 5/7/1996.


Oyster Rock (Montesquieu group): 9/5/2005 (8).

Pelican Island (14-46-31S 128-46-49E): 14/7/2005 (30 resting on beach. Breeding, an abandoned rookery with about 30 nests, some containing up to three eggs).

Greater Frigatebird - Fregata minor

Lesser Frigatebird - Fregata ariel

West Lacepede Island: 10/5/1986; 9/5/1987 (breeding); 12/5/1988 (no breeding. There were no Frigate birds on the island and no indication of any nesting having taken place since the previous year); 24/5/1990 (breeding - all stages); 19/7/1990 (breeding - large young); 24/5/1993 (estimated about 2,000 - many with advanced young); 28/5/1995 (breeding - main colony has shifted further east of lagoon with a smaller concentration at the north end of the lagoon); 18/5/1996; 30/6/1996 (breeding - all stages. Diminished numbers. A count with volunteers using scopes from three positions resulted in no more than 450-480 nests); 30/4/2002 (breeding - all stages); 27/4/2004 (breeding - all on eggs which is unusual. Probably as a result of severe cyclone in March); 28/6/2004 (almost all birds sitting on eggs or small chicks, an occasional unattended larger chick. Late breeding probably reflects on severe cyclone in March); 9/9/2004 (breeding - about 2,000. Large nestlings to fledged). 26/4/2005 (3 colonies – several thousand); 15/5/2005; 24/4/2006 (breeding - eggs to small downy young); 4/9/2006 (nests with large to almost fledged young – appears to be a higher rate of mortality than usual, noticed at least 12 almost fledged young dead in nest – all recent); 4/5/2008 (breeding – large number of nests containing eggs, concentrated in three areas – more than usual); 28/8/2008 (Several thousand - large almost fledged young in nests – in some areas a high mortality of almost fledged young).


Montgomery Island: 8/9/2006 (several flying over).

Great billed Heron - Ardea sumatrana
St Patrick Island: 22/7/1997.

Stern Island: 1/5/2006 (1).


Eastern Reef Egret - Egretta sacra


Lacepede Islands (Sand Island): 30/6/1996 (20); 28/6/2004 (20).


Montgomery Island: 8/9/2006 (common); 31/8/2008 (common).


Mulgudna Island: 18/7/1990 (breeding - nest with 2 eggs); 5/7/1996.

Champagney Island: 2/6/2009 (several).


Maret Islands (north island): 10/8/2005 (several).
Randall Island (Institut Group – S14.10.11 E125. 34. 84): 31/5/2009 (2).
Jar Island: 29/5/2009 (3).

Striated Heron - *Butorides striatus*
Montgomery Island: 8/9/2006 (several).
Reveley Island: 14/7/2005 (several); 15/8/2005 (several).

White-faced Heron - *Ardea novaehollandiae*
West Lacepede Island: 30/4/2002 (several); 9/8/2004 (1).

Great Egret - *Ardea alba*
West Lacepede Island: 15/5/2005 (1).
Reveley Island: 15/8/2005 (2).

Intermediate Egret - *Ardea intermedia*
Adele Island: 8/7/1990.

Little Egret - *Egretta garzetta*

Rufous Night Heron - *Nycticorax caledonicus*
West Lacepede Island: 30/6/1996 (3).
Montgomery Island: 8/9/2006 (common); 31/8/2008 (common).

Australian White Ibis - *Threskiornis aethiopicus moluccus*

Osprey - *Pandion haliaetus*
Middle Lacepede Island: 18/5/1996.
High Cliffs Island (Montgomery Reef): 24/5/1987; 1/6/1990 (breeding - nest with one egg); 23/6/2004 (breeding - nest with small young).
Muludina Island: 5/7/1996 (breeding - immature young).
St Patrick Island: 6/5/2006 (breeding, nest on cliff face above beach on eastern side); 12/9/2006 (breeding, carrying food to nest); 8/5/2008; 2/6/1984 (breeding); 8/6/1985; 28/5/1986; 14/5/1987; 13/6/1989 (breeding - 3 nests); 12/5/1993; 23/6/2004 (breeding - 2 nests. Bird sitting on one nest, nesting material being brought to other).
Keraudren Island: 18/7/1997 (breeding - nest with young).
Anderton Island: 18/7/1997. (breeding, small island close by, nest with almost fledged young).
Augustus Island: (breeding - nest 15.15.63S 124.31.51E).
Island west of Traverse Island (16.13.80S 123.57.80E): 7/9/1996 (breeding - nest containing 3 small downy chicks); 8/9/2004 (breeding).
East Montalivet Island: 3/5/2003 (3).
Maret Islands (north island): 10/8/2005 (1+ a nest).
Unnamed basalt island S14-29-45 E125-21-11: 10/5/2008 (pair on nest).
Revelly Island: 14/7/2005 (2).
La Crosa Island: 18/8/2005 (1).
The Needles (East of Cape Domett): 18/8/2005 (1+ nest).

Square-tailed Kite - *Hamirostra isura*

Black Kite - *Milvus migrans*

Whistling Kite - *Haliastur sphenurus*

Brahminy Kite - *Haliastur indus*
Pelican Island (14-46-31S 128-46-49E): 14/7/2005 (2, also a nest in mangroves).

Grey Goshawk - *Accipiter novaehollandiae*
Brown Goshawk - *Accipiter fasciatus*
Slate Islands: 30/5/1986.
Sterna Island: 8/6/2003 (1).
Bird Island (Napier Broome Bay - S14.00.87 E126.34.09. 29/5/2009 (one being attacked by breeding Roseate terns).

Little Eagle - *Aquila morphnoides*

Wedge-tailed Eagle - *Aquila audax*

White-bellied Sea-Eagle - *Haliaeetus leucogaster*
East Lacepede Island: 30/6/1996 (breeding - nest on light tower with one small chick).
St Andrew Island: 4/62003 (breeding - nest in boab tree with a large downy chick). 8/5/2008 (one sitting on a nest in a large boab tree); 6/9/2008 (adult bringing snake to nest in boab to feed one large vocal young).
Sterna Island: 12/5/2008 (one present at breeding colony of terns).
Low Rocks (Montesquieu group): 2/5/2005 (2 - harrassing breeding seabirds); 9/5/2005 (1); 11/8/2005 (A pair with nest and two downy chicks); 1/5/2006 (2 - harrassing pied cormorants); 12/5/2008 (a pair with a nest); 31/5/2009 (2 – did not go ashore to check whether they were breeding).
Randall Island (Institut Group – S14.10.11 E125. 34. 84): 31/5/2009 (a pair with nest containing 3 eggs).
Jar Island: 12/8/2005 (1); 29/5/2009 (2).

Spotted Harrier - *Circus assimilis*

Swamp Harrier - *Circus approximans*
Adele Island: 28/51992.

Brown Falcon - *Falco berigora*
Adele Island: 2/6/1990.
Champagay Island: 2/6/2009 (1).
East Montalivet Island: 10/8/2005 (1).

Australian Kestrel - *Falco cenchroides*

**Australian Hobby - Falco longipennis**

**Peregrine Falcon - Falco peregrinus**
Doubtful Bay (Steep Island): 12/5/2005 (1).

**Buff-banded Rail - Gallirallus philippensis**
Middle Lacepede Island: 26/4/2005 (1).

**Bar-Tailed Godwit - Limosa lapponica**
East Lacepede Island: 30/5/1996 (30).
Montgomery Island: 8/9/2006 (100-200).

**Eastern Curlew - Numenius madagascariensis**
Middle Lacepede Island: 24/5/1990.
Montgomery Reef: 5/7/1996.
Mulgudna Island: 5/7/1996 (27).

**Whimbrel - Numenius phaeopus**
Middle Lacepede Island: 9/7/1987; 24/5/1990.
Reveley Island: 15/8/2005 (3).
Champagny Islands: 9/9/2006 (1).

**Common Greenshank - Tringa nebularia**
Montgomery Reef: 12/5/2005 (1).
Reveley Island: 15/8/2005 (3).

**Terek Sandpiper - Xenus cinareus**
Adele Island: 1/6/1993; 30/7/2004 (1).

**Common Sandpiper - Tringa hypoleucos**

Montgomery Island: 8/9/2006 (Moderately common).
Mulgudna Island: 5/7/1996 (2).
St Patrick Island: 12/9/2006.
Naturalists Island: 10/9/2006 (2-3).
Island: 12/8/2005 (1).
Reveley Island: 15/8/2005 (3).

**Grey tailed Tattler - Heteroscelus brevipes**

East Lacepede Island: 30/6/1996 (100).
Middle Lacepede Island: 9/7/1987.
Mulgudna Island: 5/7/1996 (1).

**Ruddy Turnstone - Arenaria interpres**

Lacepede Islands (Sand Island): 30/6/1996 (4).
East Lacepede Island: 30/6/1996 (40).
Montgomery Island: 8/9/2006 (moderately common).
Mulgudna Island: 5/7/1996 (10).
East Montalivet Island: 3/5/2003 (5).
Slate Islands: 30/5/1986.
Low Rocks (Montesquieu group): 2/5/2005 (5); 8/5/2005 (4); 31/5/2009 (flock of 12 flying from island).

**Asian Dowitcher - Limnodromus semipalmatus**

West Lacepede Island: 30/6/1996 (1); 27/4/2004 (1).

**Red Knot - Calidris canutus**

Adele Island: 8/7/1990.
West Lacepede Island: 30/6/1996 (100).
Middle Lacepede Island: 9/7/1987.

**Great Knot - Calidris tenuirostris**


**Red-necked Stint - Calidris ruficollis**

East Lacepede Island: 30/6/1996 (4).
Middle Lacepede Island: 9/7/1987.
Mulgudna Island: 5/7/1996 (20).
Slate Islands: 30/5/1986.
East Montalivet Island: 10/8/2005 (5).
Reveley Island: 15/8/2005 (30).

Sharp-tailed Sandpiper - *Calidris acuminata*

Curlew Sandpiper - *Calidris ferruginea*
Adele Island: 30/7/2004 (2).
Middle Lacepede Island: 9/7/1987.

Beach Stone-Curlew - *Esacus neglectus*
Middle Lacepede Island: 24/5/1990.
Champagny Islands: 9/9/2006 (1).
East Montalivet Island: 3/5/2003 (3).
Woku Woku Island: 2/5/2006 (2- south end near maccassan site);
Reveley Island: 14/7/2005 (2).

Pied Oystercatcher - *Haematopus longirostris*
Lacepede Islands (Sand Island): 30/6/1996 (12).
East Lacepede Island: 30/6/1996 (2).
Palm Island (Swift Bay): 11/5/2008 (2).
Randall Island (Institut Group – S14.10.11 E125. 34. 84): 31/5/2009 (4).

Sooty Oystercatcher - Haematopus fuliginosus
Lacepede Islands (Sand Island): 30/6/1996 (12).
Laplace Island: 5/7/1996 (3).
Montgomery Island: 8/9/2006 (5-6).

Grey Plover - Pluvialis squatarola
East Lacepede Island: 30/6/1996 (30).
Middle Lacepede Island: 18/5/1996.
Montgomery Island: 8/9/2006 (flock of about 60).

Pacific Golden Plover - Pluvialis fulva
Carronade Island: 11/6/2003

Red-capped Plover - Charadrius ruficapillus
Middle Lacepede Island: 24/5/1990.
Slate Islands: 30/5/1986; 6/9/2004 (breeding - one nest with 2 eggs and two adults with newly hatched young 1+2).
Champagny Islands: 9/9/2006 (2).
East Montalivet Island: 10/8/2005 (5).
Sterna Island: 8/6/2003 (3).
Lesser Sand Plover - *Charadrius mongolus*
East Lacepede Island: 30/6/1996 (10).
Mulgudna Island: 5/7/1996 (200).
Reveley Island: 15/8/2005; (25).

Greater Sand Plover - *Charadrius leschenaultii*
West Lacepede Island: 3/5/2008 (5).
Mulgudna Island: 5/7/1996 (200).

Australian Pratincole - *Stiltia isabella*

Pacific Gull - *Larus pacificus*
West Lacepede Island: 10/5/1986 (unusual record).

Silver Gull - *Larus novaehollandiae*
East Lacepede Island: 30/6/1996 (20).
Middle Lacepede Island: 9/5/1987; 23/5/1987; 28/5/1995; 18/5/1996; 28/6/2004 (40); 9/8/2004 (30); 9/9/2004 (30-40). 26/4/2005 (60-70 scattered through Brown Booby breeding area); 24/4/2006 (common – at two sites observed about 20 clustered around and feeding on emerging turtle hatchlings); 4/9/2006 (small number); 3/5/2008 (50-60, very little interest was shown in our presence which was unusual, it may have had something to do with the lateness of the day); 28/8/2008 (50-60).
West Lacepede Island: 10/5/1986; 9/5/1987; 19/7/1990; 24/5/1993; 28/5/1995 (breeding - immatures and runners); 18/5/1996 (breeding - runners); 30/6/1996 (40); 30/4/2002 (1500-2000 - also breeding); 27/4/2004 (70); 28/6/2004 (50); 9/8/2004 (30); 9/9/2004 (30-40). 26/4/2005 (breeding – large runners and immature eastern end); 15/5/2005 (many recently fledged); 24/4/2006 (common); 4/9/2006 (small number); 3/5/2008 (50-60, as on Middle Island very little interest was shown in our presence which was unusual, it may have had something to do with the lateness of the day); 28/8/2008 (50-60).
Lacepede Islands (Sand Island): 30/6/1996 (20); 28/6/2004 (25 - not predating).
Randall Island (Institut Group – S14.10.11 E125. 34. 84): 31/5/2009 (10).

Gull-billed Tern - *Sterna nilotica*
Middle Lacepede Island: 24/5/1990.

Caspian Tern - *Sterna caspia*

West Lacepede Island: 10/5/1986; 24/5/1990 (breeding - a tight group of 70 on eggs); 20/7/1990 (breeding); 24/5/1993 (breeding - 40 in two colonies of about 20. About 110 in breeding plumage nearby ready to go down); 28/5/1995 (breeding - 25); 18/5/1996 (breeding colony SW end of lagoon); 30/6/1996 (breeding - 25 nests + runners from previous hatchings in the vicinity); 30/4/2002 (a concentration of Roseate Tern and Caspian Tern could be seen at the western end of lagoon - possibly breeding); 30/4/2002 (10); 28/6/2004 (breeding - two colonies 50m apart on eggs [22 nests in one and 20 in the other]); 9/8/2004 (10-15); 27/4/2004 (30); 9/9/2004 (15 + several fledged young). 26/4/2005 (15 - 20); 15/5/2005 (40); 26/4/2006 (2); 3/5/2008 (breeding, about 20 on the western end of lagoon).

Middle Lacepede Island: 9/7/1987.


Mulgudna Island: 5/7/1996 (20).


Slate Islands: 30/5/1986.


East Montalivet Island: 3/5/2003 (6).

Low Rocks (Montesquieu group): 2/5/2005 (breeding, 50-100 on eggs, up from the beach amongst Ipomaea macrantha). 9/5/2005 (2500+ breeding on beach above high water on southern end, south west beach and in vegetation on island above south western beach and in vegetation on the northern end. All with one freshly laid egg. Many eggs on sand in front of cave containing a large crocodile; 11/8/2005 (Most birds had finished breeding and left, however there were still several thousand tern including 300-400 almost fledged runners on the island); 1/5/2006 (none breeding on Low Rocks).

Sterna Island: 1/5/2006 (breeding, about 1,500 on freshly laid eggs). Colony appeared to have just only become established and is in the process of expanding. Predation on about 14 freshly laid eggs, some of which had been brought to a central place, most likely by a heron. A great billed Heron was present on our arrival and flew to the beach of a nearby island. There was no sign of raptors or silver gulls; 12/5/2008 (breeding, about 3,000 on freshly laid eggs). 4 eggs freshly predated, possibly by heron. One white bellied sea-eagle at the breeding site but no evidence of silver gulls. Ashore at 6am.

Randall Island (Institut Group – S14.10.11 E125. 34. 84): 31/5/2009 (breeding, 4 colonies approx 2,000. Eggs freshly laid to several newly hatched chicks. Many (100s) old intact abandoned eggs from previous breeding. Nests with eggs on southern end and west side of main island. On east side a colony of about 300 with some newly hatched chicks. Nesting amongst Roseate Terns on western extension of island. Very heavy predation of hundreds of fresh eggs evident, most probably gulls, oystercatchers or herons. A pair of White bellied Sea eagles have a nest containing 3 eggs on the island.


Bird Island (Napier Broome Bay - S14.00.87 E126.34.09): 29/5/2009 (breeding on coral shingle with a few nests in beach spinifex, 40 nests with eggs + several small downy runners. Old eggs from previous breeding scattered over island. Three crocodiles at island.

Aunt Island: 14/7/2005 (breeding, 1000+); 17/8/2005 (several hundred immature birds roosting on rocks at northern end); 21/5/2009 (breeding).

Lesser Crested Tern - *Sterna bengalensis*


Tide Rip Island: June 1984.

Low Rocks (Montesquieou group): 9/5/2005 (breeding), several hundred all with one freshly laid egg, mixed amongst breeding Crested Tern; 11/8/2005 (Most birds had finished breeding and left, however there was a small number of dependent, almost fledged runners still on the island (about 7-10).

Sterna Island: 12/5/2008 (breeding). 800-1000 on freshly laid eggs in small groups amongst crested terns.

Randall Island (Institut Group – S14.10.11 E125. 34. 84): 31/5/2009 (breeding, approx 30 amongst Crested Terns.

Roseate Tern - *Sterna dougallii*


East Lacepede Island: 30/6/1996 (20).

Middle Lacepede Island: 26/4/2005 (several small flocks of about eight flying past).

West Lacepede Island: 19/7/1990 (several thousand roosting); 24/5/1993 (breeding); 28/5/1995; 4/5/1996 (flocks up to 200 feeding on bait fish between the Lacepede Islands and mainland); 18/5/1996 (2 - large flocks at sea close to island); 30/6/1996 (breeding - 20 nests + runners); 30/4/2002 (a concentration of Roseate Tern and Caspian Tern could be seen at the western end of lagoon - possibly breeding); 27/4/2004 (15); 9/8/2004 (many thousands flying to island to roost); 9/9/2004 (between 10,000 and 15,000 roosting in lagoon area). 26/4/2005 (several small flocks); 15/5/2005 (8); 26/4/2006 (3 to 4,000 roosting at sunset in lagoon area); 4/9/2006 (10,000 to 15,000 roosting on sand bar in lagoon area at sunset with many more flocks of 30-40 still arriving as we left): 3/5/2008 (1,000 +).

Sand Island (Lacepedes): 3/5/2008 (several thousand flying in flocks of 15 to 30 across West and Middle Lacepede islands towards Sand Island at sundown); 28/8/2008 (several thousand flying in flocks of 10 to 80 across West and Middle Lacepede islands towards Sand Island at sundown).

Sunday Island: 14/5/1996 (flocks of a 100 or more feeding); 1/7/1996 (small flocks flying in southerly direction); 8/9/2004.

Montgomery Reef: 29/4/2005 (several small flocks 6-8); 12/5/2005 (several small flocks).

Bigge Island (southern end); 21/6/2004 (many hundreds feeding on bait fish with Crested Tern. Possibly a breeding colony in vicinity).

Low Rocks (Montesquieou group): 2/5/2005 (breeding, 1000 to 1500, all with one newly laid egg, concentrated on sand just above high tide mark on south beach and on adjacent rock ledges); 9/5/2005 (breeding, estimated at about 4000 +. Nesting on rocks, amongst Ipomoea macrantha vines and amongst Spinifex longifolius over much of the island. Earlier nesting site on sand above high tide mark on south beach displaced by Crested Tern; 11/8/2005 (A small number still on island bringing food to about 20-30 dependent juveniles capable of flying short distances. In the breeding areas there were many dried out remains of young birds from freshly hatched to fledged); 1/5/2006 (no birds at Low Rocks, the colony has returned to Sterna Island); 31/5/2009 (several small flocks roosting on rocks and flying toward Long Reef – low tide. Water Temperature 28.7 degree).

Sterna Island: 1/5/2006 (breeding, 5,000 to 6,000 on freshly laid eggs (1-3). An area abutting the main colony had about 1,000 birds with no eggs as yet laid. Colony appeared to have only just established and is in the process of expanding with much courtship taking place. Many of the birds with roseate chests. Predation on some freshly laid eggs, most likely by a heron. A great billed Heron was present and flew to the beach on a nearby island. Unusual to see this bird which is usually associated more with tidal inlets and mangrove areas. There was no sign of raptors or silver gulls; 12/5/2008 (breeding, 1500-2000 on freshly laid eggs). Breeding just beginning, probably many more will arrive during the week.

Randall Island (Institut Group – S14.10.11 E125. 34. 84): 31/5/2009 (breeding, 5 colonies approx 6-8,000. Eggs freshly laid to several newly hatched chicks. Many old abandoned eggs from previous year. Nests amongst and on top of vines and grass and amongst beach spinifex in centre of island and on shell gritty openings amongst basalt rocks on western arms of the island. Nests contained one to three eggs. Some predation of fresh eggs but not much. Ten silver gulls on the beach on our arrival but they disappeared soon after and were not seen again. Water Temperature 30.4 degree).

Bird Island (Napier Broome Bay - S14.00.87 E126.34.09. The small sandy island which has a few low rocks of sandstone over it is of about two acres and apart from a small area of shrubbery on the east side is covered almost entirely with beach spinifex about half a metre in height which is not dense and easy to walk through): 29/5/2009 (breeding mainly in beach spinifex, 800-1000 with eggs + small downy young. Old eggs from previous breeding scattered over island. By their tracks the three crocodiles resident at island move through the colony. A large female Goshawk was present at time of landing and being attacked by the terns. A dead Roseate chick had been pecked around the head. Hermit crabs which are plentiful were feeding on another dead chick.

Common Tern - *Sterna hirundo*

West Lacepede Island: 30/6/1996 (1).
Little Tern - *Sterna albifrons*
Adele Island: 30/7/2004 (2).
Middle Lacepede Island: 24/5/1990.
Sunday Island: 1/7/1996 (small numbers flying in southerly direction).
Montgomery Island: 8/9/2006 (flock of about 15).
Mulgudna Island: 5/7/1996 (breeding).

Bridled Tern - *Sterna anaethetus*
Middle Lacepede Island: 28/8/2008 (70-80 loafing on beach).

Common Noddy - *Anous stolidus*
Lacepede Islands: 9/9/2004 (several close inshore to Middle Island flying in the direction of Sand Island).
Middle Lacepede Island: 9/7/1987; 23/5/1987 (breeding - eggs, apart from some small chicks. Colony estimated to cover more than an acre); 24/5/1990; 28/5/1995; 9/9/2004 (several thousand roosting here and on West Island). 26/4/2005 (several hundred roosting on beach); 24/4/2006 (at least 1,000 roosting at sunset); 3/5/2008 (about 400); 28/8/2008 (3-400 loafing on beach).
West Lacepede Island: 10/5/1986; 18/5/1996 (large flocks off shore); 30/4/2002 (100+); 31/5/2002 (three to four thousand roosting); 27/4/2004 (300); 9/8/2004 (several hundred with many more at sea coming in to roost); 9/9/2004 (several thousand roosting here and on Middle Island). 15/5/2005 (10); 24/4/2006 (at least 3,000 roosting in and around the lagoon area at sunset); 4/9/2006 (about 300); 3/5/2008 (about 600); 28/8/2008 (several hundred).

Emerald Dove - *Chalcophaps indica*
Storr Island: 17/7/1990.

Common Bronzewing - *Phaps chalcoptera*
Champagny Island: 2/6/2009 (2).

White-quilled Rock Pigeon - *Petrophassa albipennis*

Diamond Dove - *Geopelia cuneata*

Peaceful Dove - *Geopelia striata*
Slate Islands: 30/5/1986.
Champagny Island: 2/6/2009 (common).

Bar-shouldered Dove - *Geopelia humeralis*
Montgomery Island: 8/9/2006 (moderately common).
Storr Island: 17/7/1990.
Champagny Island (Loran site): 1/9/2008 (common); 2/6/2009 (common).
Coronation Island: 18/7/1997.
Reveley Island: 15/8/2005 (several).

Pied Imperial Pigeon - Ducula bicolor
Montgomery Island: 8/9/2006 (several).
Storr Island: 17/7/1990.
Champagny Islands: 9/9/2006 (several).
Careening Bay: 11/9/2006; 9/5/2008 (about 400 taking water from a seepage on the southern side of the bay at S15-06-30 E125-00-21). Counted two hundred and fifty one in flocks of up to 30 arriving from the Coronation Islands. After drinking some returned others went inland including a flock of more than 60.
Slate Islands: 14/7/1990.
St Andrew Island: 5/6/1993 (large flock 200-300).
Queen Island (opposite Bigge Island): 21/6/2004 (8).
Coronation Islands: 2/6/1993 (large flock with at least 250 birds).
Swift Bay (Small island south of Winyalkan Island less than a 5th of an acre S14.34.21 E125.25.42): 1/6/2009
(Although 60 arriving just before dusk in small independent flocks to roost in Rhizophora stylosa mangroves
surrounding the small island – I have noticed over the years that these birds often have a preference at night to roost
on islands).

Rose-crowned Fruit-dove – Ptilinopus regina
(heard); 24/6/2003 (heard). 8/8/2005 (several heard); 10/5/2008 (one heard); 4/9/2008.
Maret Islands (north island): 10/8/2005 (common, 15-20 feeding in small trees close to beach, on the fruit of
Scaevola taccada and Pittosporum molluccan).

Red-tailed Black Cockatoo - Calyptorhynchus banksii
Coronation Islands (hundreds crossing from mainland): 15/7/1997.

Little Corella - Cacatua sanguinea
Yampi Peninsula (Cone Bay): 3-4/7/1996 (Bald Rock a breeding island).
Sulphur-crested Cockatoo - *Cacatua galerita*
Storr Island: 17/7/1990.

Rainbow Lorikeet - *Trichoglossus haematodus*

Varied Lorikeet - *Trichoglossus versicolor*

Red-winged Parrot - *Aprosmictus erythropterus*

Northern Rosella - *Platycercus venustus*

Brush Cuckoo - *Cacomantis variolosus*
Naturalists Island: 8/8/2005 (heard).

Horsfield's Bronze-Cuckoo - *Chrysococcyx basalis*
Slate Islands: 3/5/1987; 14/7/1990.
Champagny Island: 2/6/2009 (1).

Pheasant Coucal - *Centropus phasianinus*
Lacrosse Island: 15/8/2005 (1).

Barking Owl - *Ninox connivens*

Boobook Owl - *Ninox novaeseelandiae*
Adele Island: 8/7/1990.

Barn Owl - *Tyto alba*
Reveley Island: 15/8/2005 (one, roosting in cliff).

Tawny Frogmouth - *Podargus strigoides*
Koolan Island: 10/1/1989 (2).

Spotted Nightjar - *Eurostopodus argus*
Champagny Islands: 9/9/2006 (2).

Glossy Swiftlet – *Collocalia sp.*

Azure Kingfisher - *Alcedo azurea*
Blue-winged Kookaburra - *Dacelo leachii*

Sacred Kingfisher - *Todiramphus sanctus*
Maret Islands (north island): 10/8/2005 (1).
Jar Island: 29/5/2009 (1).
Pelican Island (14.46.31S 128.46.49E): 14/7/2005 (1).

Collared Kingfisher - *Todiramphus chloris*
Montgomery Island: 8/9/2006 (1); 31/8/2008.

Rainbow Bee-eater - *Merops ornatus*
Slate Islands: 6/9/2004 (breeding - nesting in burrows in sand banks up from beach):
Champagny Islands: 9/9/2006 (several).

Rainbow Pitta - *Pitta iris*

Variegated Fairy-wren - *Malurus lamberti*

Striated Pardalote - *Pardalotus striatus*

Weebill - *Smicrornis brevirostris*

Green-backed Gerygone - *Gerygone chloronotus*

Mangrove Gerygone - *Gerygone levigaster*
Reveley Island: 15/8/2005 (several).

Brown Honeyeater - *Lichmera indistincta*
Storr Island: 17/7/1990.
Champagny Islands: 9/9/2006 (several); 1/9/2008 (several); 2/6/2009 (common).


White-throated Honeyeater - *Melithreptus albogularis*

White-throated Honeyeater - *Melithreptus albogularis*

Jar Island: 29/5/2009 (several attracted to *Xanthostemon paradoxus*).

Silver-crowned Friarbird - *Philemen argenticeps*
Storr Island: 17/7/1990.
Silver-crowned Friarbird - *Philemen argenticeps*
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Silver-crowned Friarbird - *Philemen argenticeps*
Storr Island: 17/7/1990.
Silver-crowned Friarbird - *Philemen argenticeps*
Storr Island: 17/7/1990.

Banded Honeyeater - *Cissomela pectoralis*

Red headed Honeyeater - *Mysomela erythrocephala*


Silver-crowned Friarbird - *Philemen argenticeps*
Storr Island: 17/7/1990.
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Storr Island: 17/7/1990.
Silver-crowned Friarbird - *Philemen argenticeps*
Storr Island: 17/7/1990.

Banded Honeyeater - *Cissomela pectoralis*

Red headed Honeyeater - *Mysomela erythrocephala*
Rufous-throated Honeyeater - *Conopophila rufogularis*

Yellow-throated Miner - *Manorina flavigula*

Lemon-breasted Flycatcher - *Microeca flavigaster*
St Patrick Island: 28/5.1986.

Mangrove Robin - *Eopsaltria pulverulenta*

White-browed Robin - *Poecilodryas superciliosa*

Mangrove Golden Whistler - *Pachycephala melanura*
Montgomery Island: 8/9/2006 (several).
Storr Island: 17/7/1990.

Rufous Whistler - *Pachycephala rufiventris*
Champagny Island: 2/6/2009 (1).

White-breasted Whistler - *Pachycephala lanioide*
Montgomery Island: 8/9/2006 (2).

Little Shrike-thrush - *Colluricincla megarhyncha*

Sandstone Shrike-thrush - *Colluricincla woodwardi*

Grey Shrike-thrush - *Colluricincla harmonica*
Champagny Island (Loran site): 1/9/2008 (1).

Broad billed Flycatcher - *Myiagra ruficollis*
East Montalivet Island: 10/8/2005 (1).

Leaden Flycatcher - *Myiagra rubecula*
Storr Island: 17/7/1990.
Champagny Island (Loran site): 1/9/2008 (2).

Restless Flycatcher - *Myiagra inquieta*
Cockatoo Island: 9/7/1996.

Shining Flycatcher - *Myiagra alecto*

Rufous Fantail - Rhipidura dryas
Coronation Island: 18/7/1997.

Willie Wagtail - Rhipidura leucophrys
Cockatoo Island: 9/7/1996.
Chamagny Islands: 9/9/2006 (1); 1/9/2008 (several); 2/6/2009 (very common – 20 +).
Mare Island (north island): 10/8/2005 (2).
East Montalivet Island: 10/8/2005 (1).
Sterna Island: 1/5/2006 (2).

Northern Fantail - Rhipidura rufiventris
Storr Island: 17/7/1990.

Magpie Lark - Grallina cyanoleuca
Adele Island: 8/7/1990.
Middle Lacepede Island: 24/5/1990.
Slate Islands: 30/5/1986.

Spangled Drongo - Dicrurus bracteatus
Coronation Island: 18/7/1997.

Black-faced Cuckoo-shrike - Coracina novaehollandiae
Storr Island: 17/7/1990.
Chamagny Island (Loran site): 1/9/2008 (1).
Mare Island (north island): 10/8/2005 (several).
Lacrosse Island: 18/8/2005 (1).

White-breasted Cuckoo-shrike - Coracina papuensis
Storr Island: 17/7/1990.

Cicadabird - Coracina tenuirostris

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**White-winged Triller - Lalage tricolor**
- **Naturalists Island:** 10/6/1984; 25/5/1987.

**Varied Triller - Lalage leucomela**
- **Storr Island:** 17/7/1990.
- **Bigge Island (Wary Bay):** 22/6/2004.
- **Woku Woku Island (Cape Bougainville):** 9/6/2003.

**Yellow Oriole - Oriolus flavocinctus**
- **Storr Island:** 17/7/1990.
- **Lamarck Island:** 3/6/1992.
- **Coronation Island:** 18/7/1997.

**Olive-backed Oriole - Oriolus saggitatus**
- **Storr Island:** 17/7/1990.
- **Bigge Island (Wary Bay):** 19/5/2003.
- **Maret Islands (north island):** 10/8/2005 (1).
- **Lacrosse Island:** 10/6/1992.

**Fig Bird - Sphecotheres viridis**
- **St Patrick Island:** 23/6/2004 (very vocal, some immatures, feeding on *Aidea racemosa*); 5/9/2004.

**White-breasted Woodswallow - Artamus leucorhynchus**
- **Koolan Island:** 3/6/1985.
- **Montgomery Island:** 8/9/2006 (moderately common).
- **High Cliffsy Island (Montgomery Reef):** 1/6/1990;
- **Storr Island:** 17/7/1990.
- **Champagny Islands:** 9/9/2006 (small flock); 1/9/2008 (several); 2/6/2009 (common).
- **Naturalists Island:** 28-29/5/1996.

**Black-faced Woodswallow - Artamus cinereus**
- **Naturalists Island:** 5/5/2002.

**Little Woodswallow - Artamus minor**
- **Koolan Island:** 3/6/1985.
- **Cockatoo Island:** 11/5/1986.
- **St Patrick Island:** 8/6/1985; 23/6/2004.
- **Bigge Island:** 6/5/2002.

**Grey Butcherbird - Cracticus torquatus**
- **Koolan Island:** 3/6/1985.

**Pied Butcherbird - Cracticus nigrogularis**
- **Koolan Island:** 3/6/1985.
- **Naturalists Island:** 4/6/1985.

**Great Bowerbird - Ptilonorhynchus nuchalis**
- **Koolan Island:** 3/6/1985.
- **Slate Islands:** 13/5/1987.
- **Storr Island:** 17/7/1990.
Jar Island: 29/5/2009 (2).

Mistletoebird - *Dicaeum hirundinaceum*
Montgomery Island: 8/9/2006 (1).
Storr Island: 17/7/1990.

Barn Swallow - *Hirundo rustica*
Bigge Island-Boomerang Bay: 28/5/1987 (unusual sighting).

Tree Martin - *Hirundo nigricans*
Adele Island: 20/5/2002 (several - also resting on boat at sea).
Middle Lacepede Island: 24/5/1990.
West Lacepede Island: 24/5/1996 (one).
Montgomery Island: 8/9/2006 (several).
Slate Islands: 30/5/1986.
Champagny Island (Loran site): 1/9/2008 (several).

Fairy Martin - *Hirundo ariel*

Yellow White-eye - *Zosterops luteus*
Storr Island: 17/7/1990.

Tawny Grassbird - *Megalurus timoriensis*

Golden-headed Cisticola - *Cisticola exilis*
Slate Islands: 13/5/1987; 14/7/1990.
Pelican Island (14-46-31S 128-46-49E): 14/7/2005 (5, unusual on such a small Island).
ADDENDUM (APPENDIX 5)

Bird sightings made During Landscape Expedition 2-15 June, 2003


Note: Agile Wallaby common on Adolphus Island.
APPENDIX 6. DEC's response to the report's recommendations

DEPARTMENT OF ENVIRONMENT AND CONSERVATION RESPONSE TO STATUS PERFORMANCE ASSESSMENT: BIODIVERSITY CONSERVATION ON WESTERN AUSTRALIAN ISLANDS PHASE II – KIMBERLEY ISLANDS DRAFT REPORT

Responses to the specific recommendations follow.

SECTION 3.4: CONTEXT RECOMMENDATIONS

1. DEC work with CSIRO Division of Entomology to develop biological control for the stinking passionflower *Passiflora foetida*.

   Supported in principle. The development of a biological control agent is (often) a high-risk, expensive and long-term proposition. The stinking passionflower would have to be listed as a national priority for biological control to facilitate the development of such a program. This would involve a risk assessment to prioritise the threat in a national context. DEC does not have any research expertise in the development of biological control agents and any such research would be best undertaken by a specialist organisation. While stinking passionflower is probably the most significant weed present on Kimberley islands, there are also many other species of weeds that occur there.

2. DEC prioritise and/or seek resources to undertake biosecurity surveillance on high priority biodiversity conservation islands.

   Supported in part. DEC is supportive of pursuing the development of an island ranking system to prioritise biosecurity-related activities as indicated in our response to the Phase I Report. However, in the current financial environment, any call for the allocation of additional funds to a specific area needs to recognise and preferably identify compensating reductions elsewhere. There is also the matter of management authority for the islands. This is a matter that should be resolved together with implementing such a monitoring program.

The Northern Australia Quarantine Strategy (NAQS), which was developed by the Australian Quarantine Inspection Service (AQIS), is also relevant here, with regard to new quarantine risk discoveries. NAQS operates along Australia's northern coastline from Broome to Cairns and was established in 1989 to help address the unique quarantine risks in this northern region. NAQS conducts surveys along the northern coastline of Australia and neighbouring countries for early signs of new pests or disease. It is the role of NAQS to:

- manage the quarantine aspects of border movements through the Torres Strait;
- identify and evaluate the unique quarantine risks facing northern Australia;
- develop and implement measures for the early detection of targeted pests and diseases; and,
- strengthen Australia's quarantine through collaborative capacity building activities in Papua New Guinea, Indonesia and Timor-Leste.

These objectives are undertaken through a program of scientific surveys and monitoring, border activities, domestic and overseas capacity building, and public awareness activities (*i.e.* Quarantine Top Watch!).
3. A public education program about island biosecurity be developed and implemented; the primary target should be commercial and private boat owners.

Supported. Again, the matter of management responsibility needs to be addressed and at least a level of agreement reached on which organizations would have access to islands and some ability to undertake monitoring. This is an issue that needs to be addressed at the whole of Government level, with consultation with native title holders and claimants.

DEC already undertakes public education about biosecurity for offshore islands that are conservation reserves through a number of mechanisms. These information strategies vary with the nature of visitation, the values at risk, and threat evaluation. Information includes advice on restricted landing sites, prohibition on taking pets to islands and general biosecurity issues. Information may also be presented in a combined approach, including coastal, marine and island conservation issues, often associated with marine parks and reserves. Examples of information brochures which include biosecurity information are those pertaining to Bernier and Dorre Islands, the Montebello Islands Marine Park brochure and the Dampier Archipelago information sheet. Onsite fixed information panels with biosecurity information include those applying to Lancelin Island and Jurien Bay Marine Park. The production of a generic information pamphlet for biosecurity on conservation islands will be further considered.

Also, the NAQS referred to above has developed and is implementing a national public awareness campaign called "Quarantine Top Watch!". It is designed to:

- raise awareness of the importance of quarantine within key target groups in northern Australia (coastal area from Broome to Cairns including the Torres Strait), and
- encourage residents in those regions to 'keep a top watch' for exotic pests, weeds and diseases that could harm Australia's animal and plant life, and report sightings of unusual pests, weeds and diseases to AQIS.

4. DEC work with the tourism industry (e.g. the Leading Travel Companies Conservation Foundation), the Sustainable Tourism Cooperative Research Centre, the Kimberley Land Council and traditional owners to develop an enforceable Kimberley Islands and coast tourism and recreation management strategy that minimises impact on biodiversity and cultural values.

Supported in part: While it would be worthwhile developing such a strategy in consultation with stakeholders, it is unlikely that such a strategy could ever be viewed as enforceable. As discussed above, DEC does not have any statutory authority to regulate visitation on the vast majority (>99%) of Kimberley Islands given that they are not conservation reserves. Any strategy would need to be a voluntary and largely self-regulating. However, the feasibility of this approach is worth further consideration. The Kimberley Science and Conservation Strategy will hopefully be a significant step towards developing agreed approaches to tourism in high conservation value areas, including Kimberley Islands.
5. Research be conducted to identify Kimberley islands and species on islands that will be deleteriously affected by climate change, particularly islands with Kimberley endemics and islands with seabird and turtle breeding rookeries, and strategies be developed to minimise impact.

Supported. DEC’s Science Division sets research priorities at a statewide level and reviews these on a regular basis. Climate change has been recognised within DEC as a research and management issue, and potential issues arising from predicted climate change are considered in research planning. Specifically, climate change was identified as a threat to WA’s island biodiversity at a science planning workshop organised by DEC’s Science Division in 2008. Broad concept plans were developed, and the following issues were raised at the workshop: the direct impact on island biodiversity, particularly threatened mammal species; and the impact of rising sea levels on WA’s islands, in particular for turtle species which use beaches for nesting.

A marine turtle recovery plan is being prepared by DEC. The marine turtle recovery team has committed to collect, collate and map information on important nesting sites; conduct surveys for further important nesting sites that are currently not well known; and develop a research plan for turtles in WA, including to predict, monitor, model and manage the effects of climate change on marine turtle biology, ecology and habitat. Major and minor nesting sites (where tagging has been undertaken) have been mapped for flatback, green, hawksbill and loggerhead turtles in the draft recovery plan.

SECTION 4.6: PLANNING RECOMMENDATIONS

1. The Conservation Commission and DEC work towards including all Kimberley islands in the State’s protected area system in a manner that takes account of the rights and aspirations of traditional owners.

Requires evaluation and consideration. It is agreed that high priority and representative Kimberley islands should be included in the State’s protected area system. However, the inclusion of all (2,633) Kimberley islands may not represent a practical example of good systematic conservation planning. Inclusion of all Kimberley islands would create redundancy in the conservation reserve system for the region and is likely to be strongly opposed by mining and development interests, and also possibly those with native title interests.

A more strategic approach that identifies high conservation value islands for reservation may be a better and more cost-effective option. The potential for joint management of islands with native title holders, taking a conservation focus, is an avenue that is worth pursuing, but is dependent in part on legislative change. There are also a number of models of conservation title that have been developed and are incorporated in Australia’s Strategy for the National Reserve System 2009-2030. These include covenanted lands managed primarily for conservation and other options than traditional conservation reserves. It seems most likely that a network of formal and informal reserves, along with otherwise protected areas, as well as identified development areas, will be the logical outcome for the Kimberley islands in order to meet the aspirations of the range of competing interests.
SECTION 5.2: INPUTS RECOMMENDATIONS

1. **(DEC) Kimberley Region be provided with an identified budget for management of islands.**

   Supported in part, subject to clear identification of management responsibilities. A new budget for conservation management of high value Kimberley islands would be welcomed, but must be considered in terms of competing Government priorities.

2. **Visits to high priority islands be frequent and regular and include biosecurity surveillance. Staff visiting islands should be trained so that they can record and evaluate necessary information.**

   Supported in part. The frequency and scheduling of island visits will continue to be subject to resource availability, necessary approvals from land managers and native title owners and aspirants.

3. **The Kimberley Islands Biological Survey be extended so that the biodiversity of many other larger Kimberley islands can be documented, plus a random sample of small islands.**

   Not agreed. The Kimberley Islands Biological Survey has been a major undertaking that is several years off concluding. While further biological surveys will certainly be priorities in future, it is most appropriate to conclude the current survey before undertaking detailed future survey planning. It is anticipated that recommendations for further research will be identified in the Kimberley Science and Conservation Strategy and the findings of the current survey when completed.

SECTION 6.2: MANAGEMENT SYSTEM RECOMMENDATIONS

1. **Commercial tourism operators and other visitors to Kimberley islands need better regulation and supervision. DEC work with tourism operators using Kimberley islands to develop and implement a biosecurity protocol.**

   Supported in part. Lead Government responsibility for biosecurity matters is through the Department of Agriculture and Food (DAF) under the Biosecurity and Agriculture Management Act 2007. DEC is willing to cooperate with DAF and other stakeholders within available resources to establish standard biosecurity protocols for island visits. Without specific regulations or a management responsibility for the islands, DEC would not be in a position to make such protocols enforceable. Another avenue for investigation would be the development, with DAF, of appropriate codes of practice and accreditation schemes, which can be recognised under the BAM Act. Given that some tour boats operating in this region travel between Broome and Darwin, there is also a cross-jurisdictional element to biosecurity issues. Therefore cross-jurisdictional codes of practice and accreditation schemes should also be considered.

2. **Populations of feral animals on Kimberley islands be eradicated (Adele Island (highest priority), Sunday Island, Browse Island).**

   Supported. Feral animal eradication programs will continue to be implemented in response to priority biodiversity conservation requirements as well as their likelihood of success. The first round of baiting for Adele Island is planned for late 2010. Sunday Island requires that neighbouring islands are first assessed for pest animals and
Browse Island presents some logistical difficulties that require further consideration before any control programs can be implemented.

3. High biodiversity value islands be regularly surveyed for feral animals. Priorities for surveillance be developed as recommended in the Phase I Report.

Supported in part. See responses to Recommendations 2 in Sections 3.4 and 5.2 above.

SECTION 8.2: OUTCOMES RECOMMENDATIONS

1. The conservation of the biodiversity on Kimberley islands deserves a much higher priority by government than has been the case in the past. This can be achieved by protecting all Kimberley islands in a manner that respects the rights and aspirations of traditional owners. All Kimberley islands should be included in the national heritage list and most Kimberley islands and adjacent coast should be added to the World Heritage List.

Not agreed. While much of the Kimberley region undoubtedly has nationally and internationally significant conservation values, it is premature to support such a recommendation in the absence of a formal assessment for National or World Heritage listing. An assessment for inclusion on the National Heritage List or nomination on the World Heritage Register is undertaken by the Commonwealth using set criteria. Furthermore, any listing would require the support of a broad range of stakeholders and the resolution of many competing, and likely conflicting, interests. The Commonwealth is currently evaluating a large portion of the Kimberley for National Heritage listing and the outcomes of this assessment are expected from about June 2010.

Department of Environment and Conservation
March 2010