



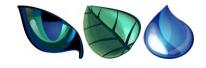
June 2019

PERDAMAN UREA PROJECT Pre and Post-wet Season Biological Survey

Burrup Peninsula, WA



Prepared on behalf of Cardno by:



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FOREWORD

CLARIFICATION OF PROJECT AREA

Some technical reports, including this one, were completed in the early planning and design phases of the Project. As such, some of the maps and aerial views depict the following anomalies associated with the actual Project area:

- i. The Project boundary of Site F does not have an extension from the south west corner.
- ii. The southern alignment of Hearson Cove Road is not applicable. Only the alignment on the north side of Site F will apply to the Project.
- iii. The footprint of the port area is limited to the area depicting the *Storage Shed Port* and *Shiploader Feed Conveyor*. It does not extend out along the Bulk Liquids Berth Jetty.

Figures A and B below provide further clarification of these discrepancies.

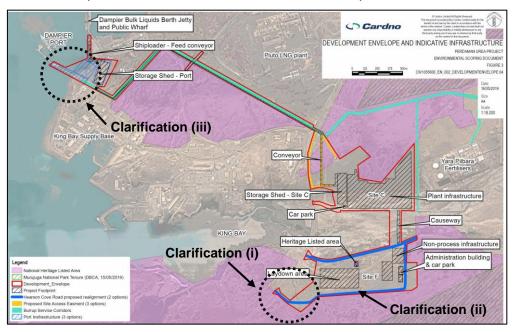


Figure A: Incorrect / superseded Project Area.

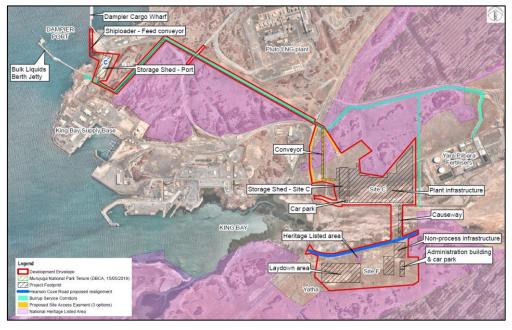


Figure B: Correct Project Area.

EXECUTIVE SUMMARY

The Perdaman Urea Plant Project (the **Project**) is located within the Burrup Strategic Industrial Area, on the Burrup Peninsula, approximately 13 km northwest of Karratha and 1,300 km north of Perth (Figure ES 1). The Burrup Peninsula is a narrow strip of land extending approximately 22 km from the mainland and is part of the Dampier Archipelago, a group of 42 islands and islets. Large outcrops and ranges of fractured red / brown rock and spinifex-covered scree slopes dominate the landscape of the Burrup Peninsula. The land is elevated from the typically low and flat coastal plains of the West Pilbara. Numerous gorges, creeks and drainage lines cutting across the landscape provide heterogeneity in the topography and the vegetation communities it supports. The landscape is distinctive in its appearance and is restricted to the Burrup Peninsula, some nearby islands and adjacent mainland (Department of Environment and Conservation, 2013).

To inform an environmental review document for the Project, Animal Plant Mineral was engaged to undertake:

- Desktop flora, vegetation and fauna studies of the Study Area; and
- Multi-season flora, vegetation and terrestrial vertebrate fauna surveys of the Study Area.

The Project Area and Biological Study Area is shown in Figure ES 1.

The post-wet season field surveys followed the passage of Cyclone Veronica which crossed Karratha in March 2019. The Karratha Aero weather station (BOM station 00408310, 10 km to the south of the Survey Area) recorded 70 mm of rainfall associated with the passage of the cyclone. This rainfall created adequate post-wet season survey conditions.

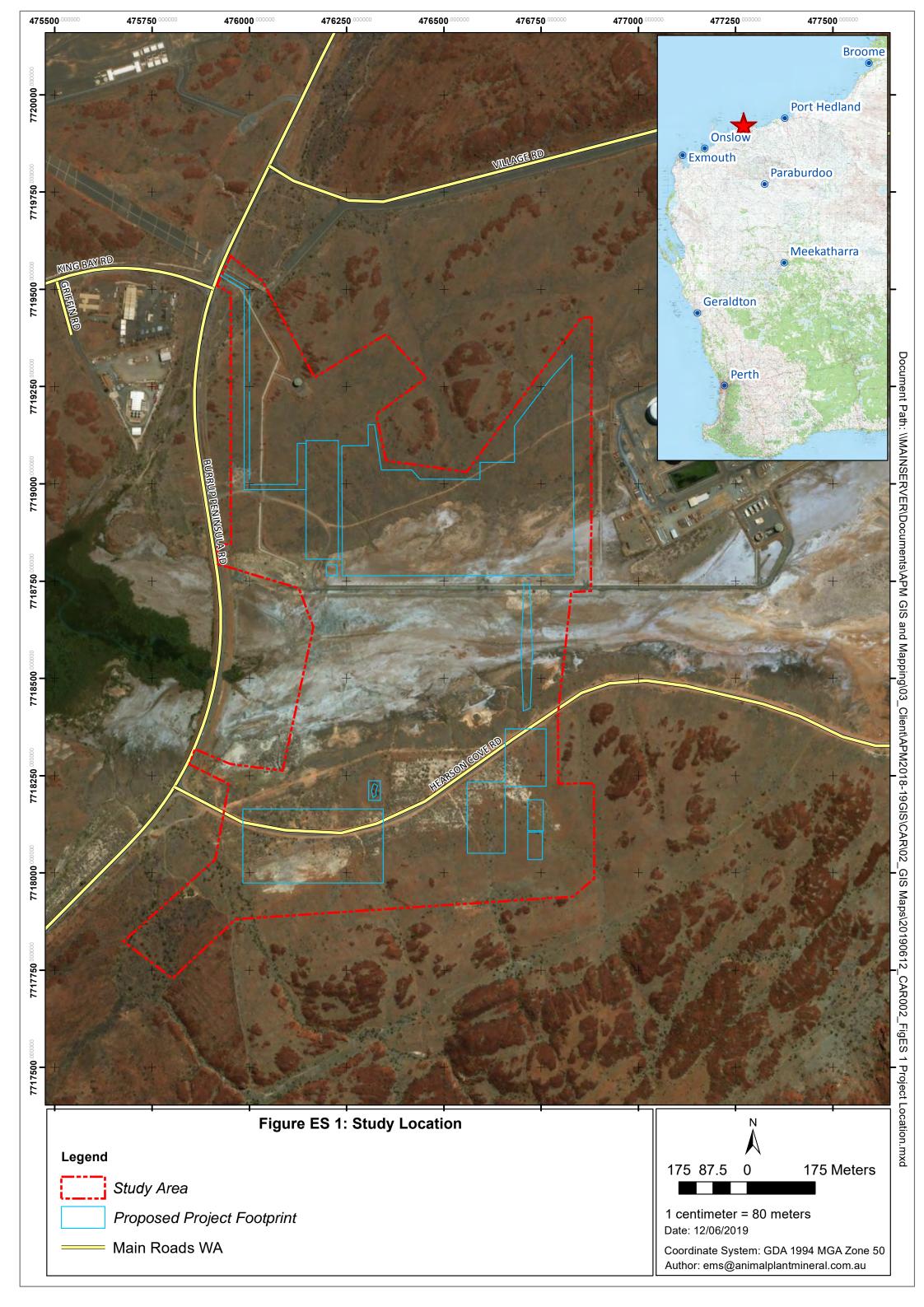
26 rocky outcrops were identified that constitute the P1 Priority Ecological Community – Rockpiles of the Burrup Peninsula. These locations are not presently listed on the Department of Biodiversity, Conservation and Attractions database. Seven vegetation associations have been classified in this assessment to be synonymous with vegetation associations listed by M.E. Trudgen & Associates (2002) as being of conservation significance because they have less than 10 occurrences across the Burrup Peninsula and Angel, Gidley and Dolphin Islands. Two flora species of conservation significance were identified inside the Project Area. *Terminalia supranitifolia* (P3) trees occur on rockpiles in the southern extent of the Project Area which are also classified as the P1 PEC - Rockpiles of the Burrup Peninsula. *Rhynchosia bungarensis* (P4) was collected in the eastern Project Area boundary in a shallow drainage area.

Two fauna surveys were conducted at the Project Area; an initial level 1 fauna survey prior to the wet season of 2018 / 2019 and a level 2 survey conducted immediately after that wet season. A full bird census, camera trapping, spotlight surveys, and bat surveys were carried out in both surveys, while a full terrestrial fauna trapping survey was conducted in the post-wet season survey. Four broad fauna habitats are present within the Project Area; rocky outcrops, hummock grasslands on mid-slopes, drainage lines, and samphire shrublands and supra-tidal flats. A range of migratory shorebirds and waders were observed including the Red-capped Plover (*C. ruficapillus*), Grey-tailed Tattler (*T. brevipes*), and the Common Greenshank (*T. nebularia*). However, no Threatened bird species were recorded during the survey. Supra-tidal flats within the Project Area and mangrove vegetation surrounding King Bay to the west provide locally important habitat for a range of species, especially waders and shorebirds. The Project, however, will avoid direct disturbance of this habitat type. In addition, the vehicle access that crosses the supra-tidal flats will be designed with culverts to avoid alteration of surface water flows, mitigating potential indirect impacts to downstream habitats.

The Ghost Bat (*Macroderma gigas*) was recorded using acoustic bat detectors on two occasions during the postwet season survey. It is listed as Vulnerable under both Federal and State legislation. However, no roost sites were identified during the surveys, indicating that the bats roost nearby (possibly at Murujuga National Park to

the south), and forage over the Project Area. The drainage line in the south-west of the Project Area provides suitable foraging habitat for this species- disturbance of this area should be avoided where possible.

Rocky outcrops present at the northern and southern fringes of the Project Area were searched for the Northern Quoll (*Dasyurus hallucatus*) and the Pilbara Olive Python (*Lialis olivaceus barroni*). While neither of these species was recorded during the survey, both are highly cryptic, and may occur within the Project Area. Disturbance of rocky outcrops should therefore be minimised.



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ABBREVIATIONS

Abbreviation	Meaning
APM	Animal Plant Mineral
BAM Act	Biosecurity and Agriculture Management Act 2007
BC Act	Biodiversity Conservation Act 2016
BoM	Bureau of Meteorology
BSIA	Burrup Strategic Industrial Area
Cth	Commonwealth
DBCA	Department of Biodiversity Conservation and Attractions
DEC	Department of Environment and Conservation
DoEE	Department of the Environment and Energy
EPA	Environmental Protection Authority of Western Australia
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
MNES	Matter of National Environmental Significance
PEC	Priority Ecological Communities
WA	Western Australia

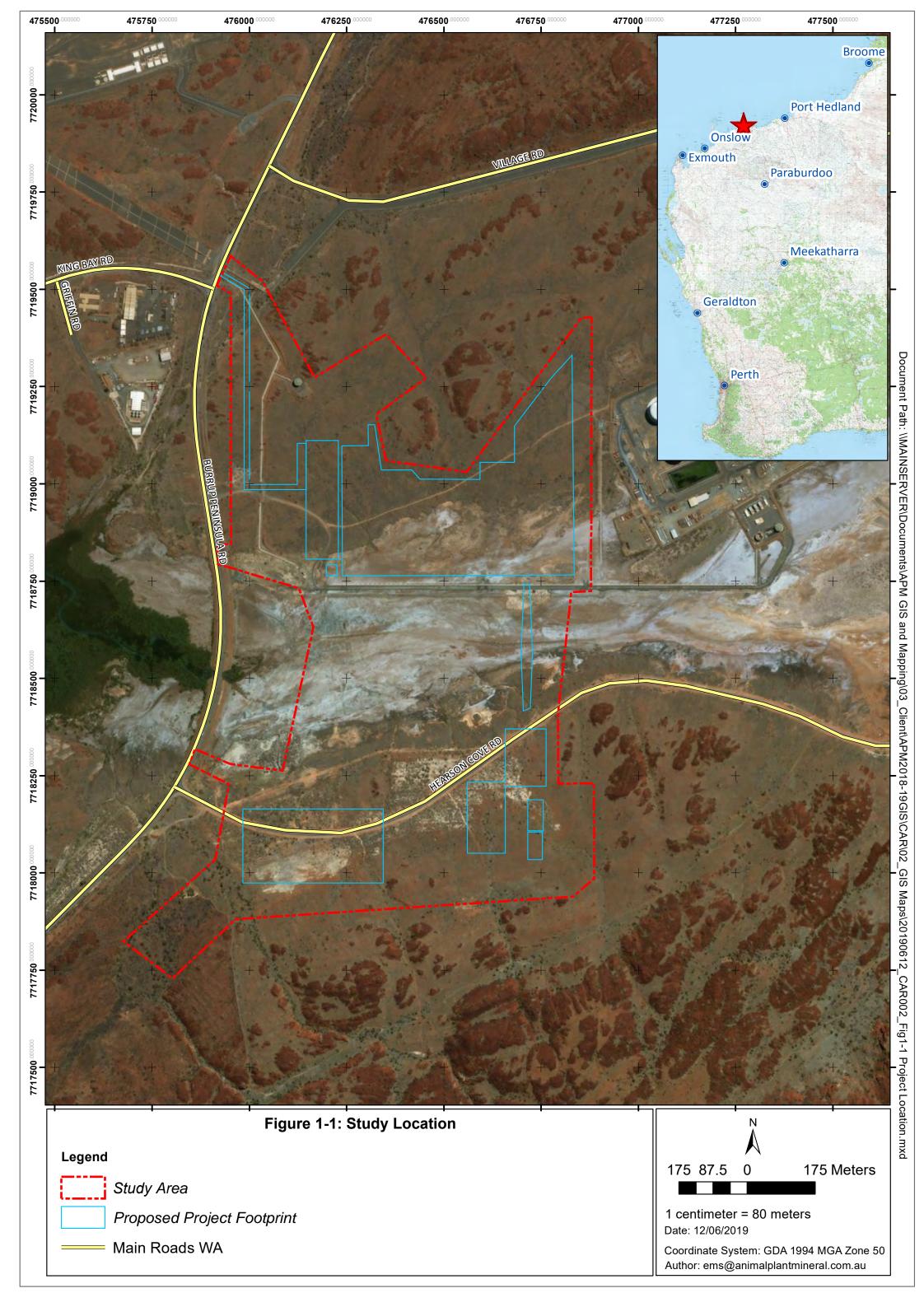
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1 INTRODUCTION

1.1 PROJECT AND LOCATION

The Perdaman Urea Plant Project (the **Project**) is located within the Burrup Strategic Industrial Area (**BSIA**), on the Burrup Peninsula, approximately 13 km northwest of Karratha and 1,300 km north of Perth (Figure 1-1). The Burrup Peninsula is a narrow strip of land extending approximately 22 km from the mainland and is part of the Dampier Archipelago, a group of 42 inshore islands. Large outcrops and ranges of fractured red / brown rock and spinifex-covered scree slopes dominate the landscape of the Burrup Peninsula. The land is elevated from the typically low and flat coastal plains of the West Pilbara. Numerous gorges, creeks and drainage lines cutting across the landscape provide heterogeneity in the topography and the vegetation communities it supports. The landscape is distinctive in its appearance and is restricted to the Burrup Peninsula, some nearby islands and the adjacent mainland (Department of Environment and Conservation (**DEC**), 2013).

The Project Area is defined here as the proposed disturbance envelope, where land is to be cleared to allow the construction and operation of infrastructure. The Biological Study Area is a larger area that encompasses the Project Area. Small changes were made to the Study area between the pre- and post-wet season field surveys as the layout of the Project Area evolved to minimise impact to sensitive environmental areas. The Project Area is shown in Figure 1-1.



1.2 SCOPE OF WORK

To inform an environmental review document for the Project, Animal Plant Mineral (APM) was engaged to undertake:

- Desktop flora, vegetation and fauna studies of the Study Area; and
- Multi-season flora, vegetation and terrestrial vertebrate fauna surveys of the Study Area.

1.2.1 Flora and Vegetation

The aims of the desktop survey were to:

- Establish vegetation associations previously determined for the site and the region in order that field results can be compared for assessment;
- Identify species previously determined as present on site including Declared Rare and Priority Flora (under the provisions of the *Biodiversity Conservation Act 2016* (BC Act) and *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act));
- Identify species previously determined as present on site regarded as being "significant" at both local and regional scales;
- Identify vegetation types previously determined as present on site regarded as being "significant" at both local and regional scales;
- Identify weed species previously determined as present on site in particular any Declared Weeds;
- Identify and describe areas previously determined as present on site that are designated as conservation areas based on flora and vegetation significance;
- Identify potentially suitable habitat for conservation significant flora known from the region; and
- Identify suitable field survey timing and methodology.

The aims of the field survey were to:

- Determine vegetation associations on the site;
- Identify species present on site including Declared Rare and Priority Flora (under the provisions of the BC Act and EPBC Act);
- Identify species present on site that are regarded as being "significant" at both local and regional scales;
- Identify vegetation types present on site that are regarded as being "significant" at both local and regional scales;
- Locate and identify, as far as possible, weed species, in particular any Declared Weeds;
- Map the vegetation and sensitive species; and
- Identify and describe areas within the Study Area that are designated as conservation areas based on flora and vegetation significance.

1.2.2 Terrestrial Fauna

The aims of the desktop survey were to:

- Establish the faunal assemblage previously determined for the site and the region;
- Identify species previously determined as present on site including Threatened and Priority Fauna (under the provisions of the BC Act and EPBC Act);
- Identify species previously determined as present on site regarded as being "significant" at both local and regional scales;
- Identify habitat types previously determined as present on site regarded as being "significant" at both local and regional scales; and
- Identify introduced species previously determined as present on site.

The aims of the field survey were to:

- Survey the species assemblage present at the site;
- Identify the fauna habitat values present at the site;
- Identify habitat that may be suitable for Threatened and Priority Fauna (under the provisions of the BC Act and EPBC Act);
- Assess the likelihood of occurrence of Threatened and Priority Fauna (under the provisions of the BC Act and EPBC Act);
- Assess the likelihood of occurrence of species that are regarded as being "significant" at both local and regional scales; and
- Assess the habitat suitability and likelihood of occurrence of introduced species.

2 BACKGROUND AND SUPPORTING INFORMATION

2.1 RELEVANT LEGISLATION

2.1.1 Environmental Protection and Biodiversity Conservation Act 1999

Matters of National Environmental Significance (MNES) are protected under the EPBC Act. Under this Act, activities that may have a significant impact on MNES must be referred to the Department of the Environment and Energy (DoEE) for assessment. The MNES include:

- Listed threatened species and communities
- Listed migratory species
- Ramsar wetlands of international importance
- Commonwealth marine environment
- World heritage properties
- National heritage places
- Great Barrier Reef Marine Park
- Nuclear actions; and
- A water resource, in relation to coal seam gas development and large coal mining development.

Migratory birds are further protected under the following agreements:

- 1974 Japan and Australian Migratory Bird Agreement (Commonwealth);
- 1975 Ramsar Convention on Wetlands;
- 1983 Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention);
- 1986 China and Australian Migratory Bird Agreement (Cth);
- 2004 Agreement on the Conservation of Albatrosses and Petrels;
- 2007 Republic of Korea-Australian Migratory Bird Agreement; and
- 2006 East Asian Australasian Flyway Partnership.

All migratory bird species listed in the annexes to these bilateral agreements are protected in Australia as MNES under the EPBC Act.

2.1.2 Western Australian Legislation

On 1 January 2019, the BC Act and *Biodiversity Conservation Regulations 2018* replaced both the *Wildlife Conservation Act* 1950 and the *Sandalwood Act* 1929 and their associated regulations. The BC Act and *Biodiversity Conservation Regulations 2018* provide protection for biodiversity through the Listing of native species, ecological communities, threatening processes and critical habitat, administration of the Licensing scheme and the protection and management of fauna.

The Department of Biodiversity Conservation and Attractions (**DBCA**) classifies specially protected flora and fauna into eight categories as listed in Appendix A. These categories also include potentially threatened species that do not meet survey criteria or are otherwise data deficient; such species are listed as Priority 1, 2 or 3. While species that are adequately known, are rare but not threatened, are listed as Priority 4.

The Biosecurity and Agriculture Management Act 2007 (BAM Act) and the Biosecurity and Agriculture Management Regulations 2013 designate which weeds are Declared as Prohibited or requiring Control Actions in WA.

2.2 STANDARDS AND GUIDELINES

The following guidelines were used to define the objectives and methodology of the Biological Survey:

- Technical Guidance: Flora and Vegetation Surveys for Environmental Impact Assessments (Environmental Protection Authority of Western Australia (EPA), 2016a);
- Environmental Factor Guideline: Flora and Vegetation (EPA, 2016b);
- Technical Guidance: Terrestrial Fauna Surveys (EPA, 2016c)
- Technical Guidance: Sampling methods for terrestrial vertebrate fauna (EPA, 2016d); and
- Environmental Factor Guideline: Terrestrial Fauna (EPA, 2016e).
- EPBC Act Policy Statement 3.21—Industry guidelines for avoiding, assessing and mitigating impacts on EPBC Act listed migratory shorebird species (DoEE, 2017)

2.3 LAND USE

The BSIA is a well-established industrial estate with vacant land for strategic industry in close proximity to gas, port and other key infrastructure facilities in the Pilbara region. The BSIA is located within the City of Karratha. Under the City's Town Planning Scheme No.8, the BSIA is zoned 'Strategic Industry'.

The Burrup Peninsula Land Use Plan and Management Strategy (O'Brien Planning Consultants, 1996) was commissioned by the Burrup Peninsula Management Advisory Board for the purpose of allocating land for industry, conservation, heritage and recreation. This document also provides management objectives and outlines acceptable uses and development considerations. The plan was endorsed by Cabinet in 1996.

The BSIA has been created to take advantage of the region's natural gas resources and other competitive advantages. Industries currently located within the BSIA include:

- Woodside-operated North West Shelf Venture project a joint venture between Woodside, Shell, BHP Billiton, BP, Chevron and Japan Australia LNG;
- Woodside Pluto LNG plant;
- Yara Pilbara Fertilisers plant; and
- Yara Pilbara Nitrates technical ammonium nitrates plant.

The Department of Jobs, Tourism, Science and Innovation is the lead agency for the development of the BSIA and LandCorp is the estate manager.

The Project Area is on land parcels C and F of the BSIA and will also require an 'amalgamated C and F' zone between the two lots. Parts of Site F and the 'amalgamated C and F' zone have previously been disturbed for a construction camp and are rehabilitated.

The Project Area has previously been investigated for two projects that did not go ahead.

Site C was investigated for the proposed Ammonia-Urea Plant by Dampier Nitrogen Pty Ltd (EPA, 2002). The EPA ruled that the project was capable of being managed in an environmentally acceptable manner given the proponents commitments. The commitments relevant to this study were to minimise clearing of conservation significant flora and vegetation and conservation significant fauna habitat.

Site F was investigated for the proposed Gas to Synthetic Hydrocarbons Plant by Syntroleum Sweetwater LLC (EPA, 2000). The Minister ruled that the project was capable of being managed in an environmentally acceptable manner given specific conditions and procedures were adhered to. The conditions and procedures relevant to this study required:

- 100 % replacement of any destroyed Priority flora;
- Collection of native seed of Priority and other native plant species;
- Machine hygiene for weed control;
- A rehabilitation plan including a weed management plan and topsoil management plan;
- Ongoing floristic survey to ensure 100% of the floristic diversity was understood;
- The use of clearing techniques that minimise harm to soil structure;
- Minimisation of impacts to the drainage features in the west of the Project Area;
- Field survey of 30 to 40 ha for snails in the rocky terrain to the south of the Project Area to quantify
 impacts on the biodiversity and abundance of molluscs;
- Further fauna survey to ensure 100% of the faunal diversity was understood; and
- Minimisation of impacts to flora and fauna during the construction and operation of the facility.

Particular consideration was given to the drainage features in the west of the Project Area.

2.4 CLIMATE

The Burrup Peninsula lies at the western edge of the semidesert tropical Pilbara region within Australia's arid zone. The climate is commonly described as having two seasons: warm and dry winters from May to November, and hot summers with periodic heavy rains from December to March.

The climate is monsoonal and seasonally controlled by the large high pressure cells that pass from west to east across the Australian continent. Strong easterly winds prevail in the winter due to the development and intensification of anticyclones over southern WA or South Australia. In summer prevailing winds are generally warmer and from the northwest and southwest.

Dampier Salt weather station (12 km to the south of the site, Station 005061) opened in 1969 and Karratha Airport weather station opened in 1971 (10 km to the south of the site, Station 004083) (Bureau of Meteorology (**BoM**), 2019). Rainfall data is available for the duration of opening for both stations. Recent temperature data is available only from Karratha Airport for the period 1993 to 2019.

For the period 1993 to 2019 the annual mean maximum recorded temperature at Karratha Airport is 32.4°C, with an annual mean minimum recorded of 20.8°C. Monthly mean maximum temperatures recorded range from

26.3°C in July to 36.2°C in March. Monthly minimum temperatures range from 13.8°C in July to 26.8°C in January (BoM, 2019).

Annual rainfall in the region is characterised by low, highly variable and very localised rain events due to thunderstorm and tropical cyclone activity in the summer months. Average annual rainfall recorded at Karratha Airport is 285.4 mm whereas median annual rainfall is 119.4 mm (BoM, 2019). Rainfall in the region is seasonal, usually with two peaks per year. The first peak is from January to March due to tropical cyclones, tropical lows or rain-bearing depressions and tropical thunderstorms. The second peak is from May to June due to the passage of low pressure systems through the south of Western Australia (WA). Monthly average rainfall for the area ranges between 75.4 mm in February to 0.4 mm in October. Due to tropical cyclones, the area is prone to isolated extreme rainfall events. The highest rainfall recorded in a single month was 348.8 mm in February 2011, while all calendar months have at one stage recorded 0 mm of rainfall (BoM, 2019). Median monthly rainfall and the total monthly rainfall for 2018 and 2019 is shown in Figure 2-1.

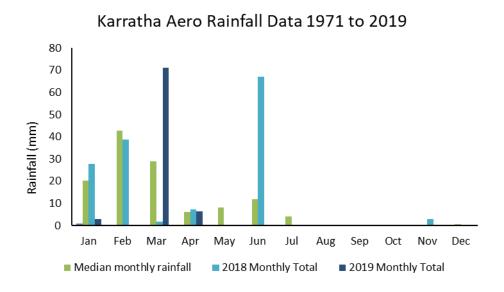


Figure 2-1: Median monthly rainfall and the total monthly rainfall for 2018/19 recorded at Karratha Aero (BoM Station 004083).

Rainfall for 2018 was below average for the period January to March yet was not dissimilar to the median values for those months. Rainfall for the period June to August was 126 % higher than average, with 67.2 mm falling between the 6th and 7th of June, but no rainfall in July and August. Rainfall in January and February 2019 was below median values but the rainfall associated with a tropical cyclone led to 71 mm of rainfall recorded at Karratha aero between the 18th and 27th of March.

Wind direction at the Burrup Peninsula is predominately from the east during the winter months of April, May, June, July and August with average wind speeds ranging between 17 – 24 km/h. East to southeasterly winds are dominant in the mornings, shifting to northeasterly in the afternoon and easing in the evening in response to diurnal land temperature changes. From October through to February winds are predominantly westerly in the morning, shifting to dominant northwesterly onshore winds in the afternoon with mean wind speeds varying between 19 and 30 km/h. The months of February, March and September are transition months with less dominant wind patterns, with mean wind speeds varying between 19 and 28 km/h. Extreme wind conditions may be generated in the region by tropical cyclones, strong easterly pressure gradients, squalls and tornados. Tropical cyclones generate the most significant storm conditions in the region, wind gusts of 259 km/h at Mardie

being measured during cyclone Trixie in February 1975, and Dampier recording wind gusts of 183 km/h from cyclone Orson in 1989 (BoM, 2019).

2.5 BIOGEOGRAPHIC REGIONALISATION

The Interim Biogeographic Regionalisation for Australia (version 7) represents a landscape-based approach to classifying the land surface of Australia. 89 biogeographic regions and 419 sub regions have been delineated, each reflecting a unifying set of major environmental influences which shape the occurrence of flora and fauna and their interaction with the physical environment across Australia.

The Burrup Peninsula is within the Pilbara biogeographic region, within the Roebourne subregion (Department of the Environment, 2012). The 'Bioregional Summary of the 2002 Biodiversity Audit for Western Australia' (Mckenzie et al. 2003) describes the Roebourne subregion, as follows:

"Quaternary alluvial and older colluvial coastal and subcoastal plains with a grass savannah of mixed bunch and hummock grasses, and dwarf shrub steppe of Acacia stellaticeps or A. pyrifolia and A. inaequilatera. Uplands are dominated by Triodia hummock grasslands. Ephemeral drainage lines support Eucalyptus victrix or Corymbia hamersleyana woodlands. Samphire, Sporobolus and mangal occur on marine alluvial flats and river deltas. Resistant linear ranges of basalts occur across the coastal plains, with minor exposures of granite. Islands are either Quaternary sand accumulations, or composed of basalt or limestone, or combinations of any of these three. Climate is arid (semi-desert) tropical with highly variable rainfall, falling mainly in summer. Cyclonic activity is significant, with several systems affecting the coast and hinterland annually".

The Burrup Peninsula lies within the Fortescue Botanical District, which is part of the biogeographical region known as the Eremaean Botanical Province (Beard, 1975).

The Burrup Peninsula, approximately 22 km long and 5 km wide, was originally an island that formed part of the Dampier Archipelago. It was joined to the mainland in the mid-1960s by a road causeway, forming the Burrup Peninsula. The Burrup Peninsula is bound by Mermaid Sound to the west and Nickol Bay to the east, and is distinguished by large areas of weather resistant rocky outcrops and scree slopes. These high scree slopes form part of an extensive high scree range which runs throughout most of the Burrup Peninsula, rises to 60 m above sea level in places, and serves as the main catchment for water during rainfall events.

Rocky outcrops exist in the northern and southern sections of the Project Area, with steeply inclined valleys occurring along fault lines forming minor drainage lines feeding into shallow drainage gullies through the mid to lower slopes of the site. These gullies then drain to the supra-tidal flats that run through the centre of the site before flowing in a westward direction to King Bay.

The topography of the Project Area is dominated by the supra-tidal flats that form an east-west trending valley at approximately 4 m Australian Height Datum from King Bay in the west to Hearson Cove in the east and divide the Burrup Peninsula into two separate units. The floor of this valley is composed of marine sediment.

The geology of the Burrup Peninsula has been previously investigated by the Geological Survey of WA and has been described by O'Brien Planning Consultants (1996). The Burrup Peninsula is composed mainly of an intrusive Proterozoic igneous rock outcrop known as the Gidley Granophyre, which is approximately 2,200 million years old. The main outcrop of Gidley Granophyre occurs in the Dampier Archipelago and the adjacent mainland, along basal unconformity of the Fortescue Group (Hickman, 1983).

The base of the intrusion consists of a differentiated coarse-grained gabbro and the main body is a fine-grained granophyre. The gabbro weathers to a dark brown and the granophyre to a lighter red-brown, and both rock

types are resistant to erosion and form aggregates of split boulder screes. Rapid weathering of dolerite dykes that are also present has resulted in the formation of deeply incised, narrow valleys, amongst the exposed granophyre bedrock, generally trending either southwest to northeast or east to west throughout the Burrup Peninsula.

The proposed Project site includes exposed granophyre bedrock, and colluvium of sand, silt and gravel in outwash fans of the supra-tidal flats that run through the middle of the Project Area and indicate a soil profile associated with a low energy marine depositional environment. The soil profile is largely comprised of sandy loams to silty sands generally brown to grey in colour. The sediments are typically organically rich and often contain a thin veneer of shelly lenses.

2.5.1 Land Systems

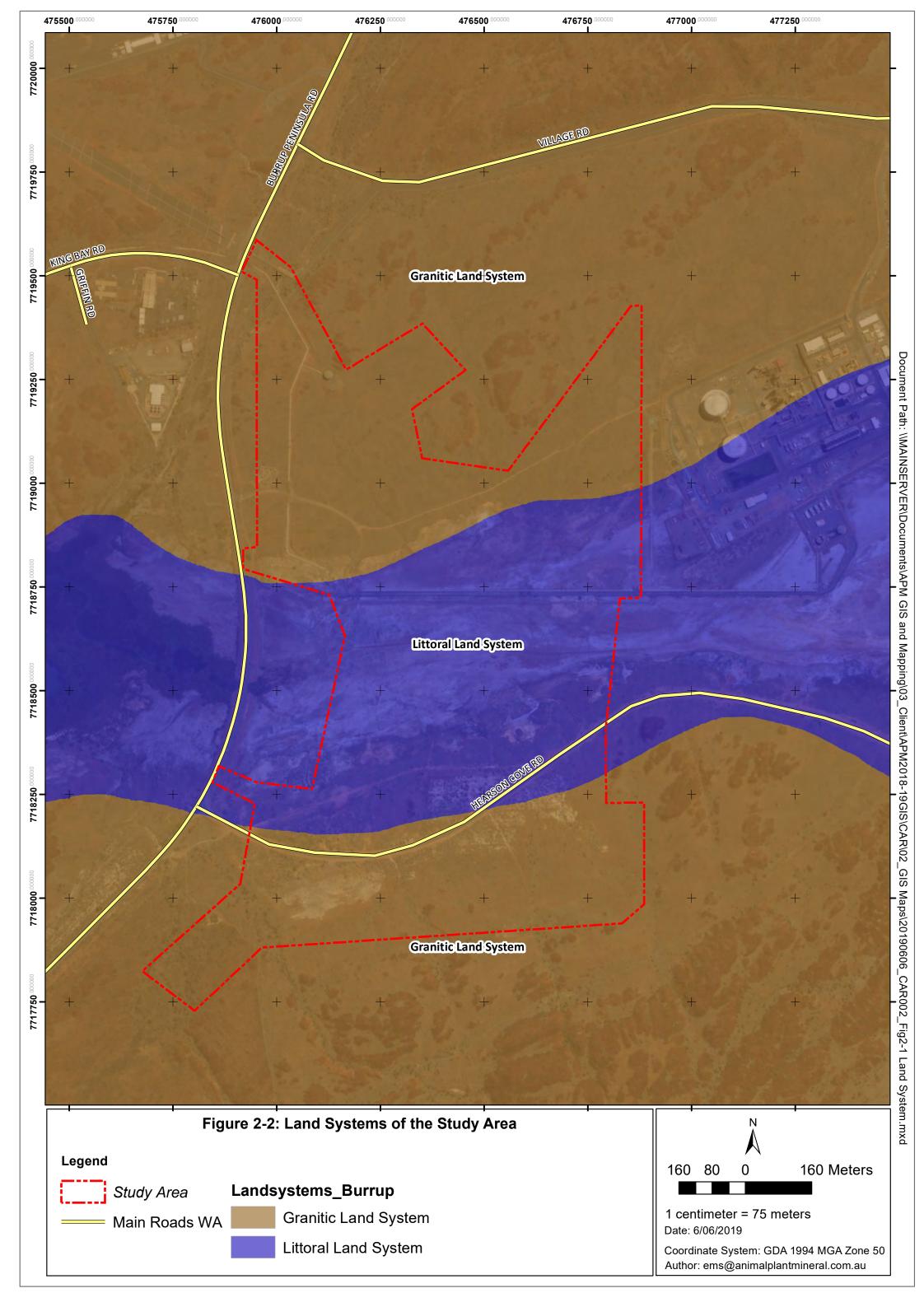
Two land systems as described by van Vreeswyk *et al.* (2004) are present at the Project Area: Granitic and Littoral. The Granitic land system is described by van Vreeswyk *et al.* (2004) as:

"Rugged granitic hills supporting shrubby hard and soft spinifex grasslands."

The Littoral land system is described by van Vreeswyk et al. (2004) as:

"Bare coastal mudflats with mangroves on seaward fringes, samphire flats, sandy islands, coastal dunes and beaches."

Granitic and Littoral land systems make up 2.2 % and 0.9 %, respectively, of the Pilbara Rangeland surveyed by Vreeswyk *et al.* (2004). The Granitic land system is present at the northern and southern sections of the Project Area, while the Littoral land system is present across the central section (Figure 2-2).



Project Area soils are of Group 423 - Red shallow sands, Soil sub-group - Red shallow sands on granite, which are described in van Vreeswyk *et al.* (2004) as:

"These soils are uniform textured coarse sands or medium textured sands overlying weathered granite, sandstone or red-brown hardpan at shallow (25-50 cm) depth. Some soils occur over substrates such as conglomerate or quartz and are incorporated into this group. The soils are red to dark red in colour and non-calcareous with a weakly acidic to neutral soil reaction trend. The soils are mostly found within or adjacent to the parent rock resulting in gritty sands. The lower subsoil mostly overlies partially weathered granite rock and coarse fragments of quartz and granite are common throughout the profile. These soils often have a common to abundant (10>50%) stony mantle. Slightly saline soils may infrequently occur at the base of occasional large granite domes or outcrops. Domes and tors of bare rock are included in this soil group."

2.5.2 Surface Water

No very small, small, medium or large water bodies occur in the Project Area (Department of Water and Environmental Regulation, 2018). Small ephemeral creeks drain water from the rocky outcrops in the north and south to the supra-tidal flats between King Bay and Hearson's Cove, in the centre of the Project Area.

2.5.3 Wetlands and Environmentally Sensitive Areas

The Project Area does not include and is not in close proximity to any wetlands listed as Ramsar sites (Department of Water and Environmental Regulation, 2018), nor does it occur within an Environmentally Sensitive Area. The Project Area is within an area zoned for Industrial Development on the Burrup Peninsula.

2.5.4 Previous Surveys

Many Private Industry Developments have commissioned independent studies on the Burrup Peninsula. Some of these are publicly available through the EPA assessment process. Table 2-1 lists previous assessments that overlapped, or were in close proximity to, the Project Area.

Table 2-1: Existing Flora and Fauna Surveys and Investigations within the Burrup Peninsula and Surrounds Relevant to the Project

Report Title	Consultant	Year	Survey Type	Purpose
Flora and Vegetation				<u> </u>
Flora and Vegetation Survey of the Proposed Gas to Synthetic Hydrocarbons Plant	Astron Environmental	1999	Detailed Survey	To map vegetation present on the site and to sample flora in order to confirm or negate the presence of flora of conservation significance.
Flora and Vegetation Survey of the Proposed Ammonia Plant	Astron Environmental	2001	Reconnaissance Survey	To map vegetation present on the site and to sample flora in order to confirm or negate the presence of flora of conservation significance. This site is adjacent to the Project Area and the survey area overlaps the project. Results of this survey are discussed in more detail in Section 4.1.3
A Flora, Vegetation and Floristic Survey of the Burrup Peninsula, some adjoining areas and part of the Dampier Archipelago, with comparisons to the floristics of areas on the adjoining mainland (Volume 2)	M. E. Trudgen & Associates	2001	Detailed Survey	To map vegetation present on the site and to sample flora in order to confirm or negate the presence of flora of conservation significance. This study is the most comprehensive assessment of the regional significance of flora and vegetation. Results of this survey are discussed in more detail in Section 4.1.3
A Flora, Vegetation and Floristic Survey of the Burrup Peninsula, some adjoining areas and part of the Dampier Archipelago, with comparisons to the floristics of areas on the adjoining mainland (Volume 1)	M. E. Trudgen & Associates	2002	Detailed Survey	To map vegetation present on the site and to sample flora in order to confirm or negate the presence of flora of conservation significance. This study is the most comprehensive assessment of the regional flora and vegetation. Results of this survey are discussed in more detail in Section 4.1.3
A detailed survey of the samphire vegetation in the Hearson's Cove/King Bay inlet on behalf of URS.	Astron Environmental	2002	Detailed Survey	To map vegetation present on the site and to sample flora in order to confirm or negate the presence of flora of conservation significance. This study is the most comprehensive assessment of the supratidal inlet flora and vegetation. Results of this survey are discussed in more detail in Section 4.1.3
King Bay Eastern Lease Area Industrial Estate Vegetation and Flora Report	Astron Environmental	2003	Reconnaissance Survey	To map vegetation types at a broad scale and identify any significant flora or vegetation and weed species present on site to assist relevant government bodies in achieving a low-level assessment. This study was reviewed.
Dampier Nitrogen Plant Site Wet Season Vegetation and Flora Survey Report as prepared for URS Consultants (Ref: 3909 2005-RV-01)	Astron Environmental	2005	Detailed Survey	To map the vegetation and supplement information presented in the Astron 1997 dry-season report by conducting a wet-season survey to identify all Priority and Threatened flora, weeds and Declared weeds.

Report Title	Consultant	Year	Survey Type	Purpose
Pluto LNG Development Vegetation and Flora Survey Site A	Astron Environmental	2005	Detailed Survey	To map the vegetation and compare previously mapped vegetation associations to be used in significance assessment. Identify Priority and Threatened flora, weeds and Declared weeds in order to designate areas of sensitivity and conservation. This study was reviewed.
Technical Ammonium Nitrate Production Facility. Public Environmental Review for Burrup Nitrates Pty Ltd	Environmental Resources Management Flora and Vegetation assessment by Outback Ecology (2009)	2009	Reconnaissance Survey	To provide a comprehensive desktop assessment of the area (Site D) for the Technical Ammonium Nitrate Production Facility including vegetation communities, the extent of the now Murujuga National Park, broad landscape and vegetation attributes and hydrology and drainage. This site is within the same catchment as the Project Area. Results of this survey are discussed in more detail in Section 4.1.3
Pluto LNG Development Site B North – Flora and Vegetation Assessment Survey	ENV Australia	2006	Detailed Survey	To identify all flora and vegetation associations occurring within Site B North in order to assess conservation significance. This study was reviewed.
Pluto LNG Development Proposed Gas Trunkline Option 1: Flora and Vegetation Condition Assessment	ENV Australia	2006	Targeted Survey	To search and assess presence or absence of Priority flora and undertake a vegetation condition assessment for the Pluto LNG Development Proposed Pipeline Route Terminating at Gas Trunkline Option 1 where vegetation is likely to be disturbed along the pipeline route. This study was reviewed.
Pre-Wet Season Biological Survey	АРМ	2018	Detailed Survey	To undertake a pre-wet season survey to assess vegetation associations of Sites C and F and the 'C and F amalgamation' zone through detailed sampling of flora to identify the types of species assemblages and vegetation communities that are present within the Project and to shape the survey efforts for the following season survey and adequately determine if significant flora or vegetation are likely to occur at the Project, given the distribution of habitats.
Fauna				
Fauna and Marine Biota. In: Burrup Peninsula Draft Land Use and Management Plan, Technical Appendices. Unpublished report by O'Brien Planning Consultants	H. Butler	1996		Cited in Worley Astron 2006 – Scope and methodology of report not known as report is no longer available
Burrup Liquid Ammonia Plant targeted fauna survey. Unpublished report for Sinclair Knight Merz Pty Ltd	Biota Environmental Services	2001		Cited in Worley Astron 2006 – Scope and methodology of report not known as report is no longer available

Report Title	Consultant	Year	Survey Type	Purpose
Terrestrial Fauna and Habitats. In: Methanex Australia Pty Ltd, Methanol	Biota Environmental	2002		Cited in Worley Astron 2006 – Scope and methodology of
Complex, Burrup Peninsula Western Australia, Public Environmental	Services			report not known as report is no longer available
Review (Section 5.8)				
Burrup Fertilisers Pty Ltd. Fauna of the Burrup Peninsula and the	Astron	2001		Cited in Worley Astron 2006 – Scope and methodology of
Proposed Ammonia Plant (Revised version). Unpublished report to	Environmental			report not known as report is no longer available
Sinclair Knight Merz Pty Ltd				
Natural Gas to Synthetic Oil Project Product and Feed pipelines,	Astron	1999		Cited in Worley Astron 2006 – Scope and methodology of
Vegetation, Flora and Fauna Survey. Unpublished report for Syntroleum	Environmental			report not known as report is no longer available
Corporation				
Terrestrial Fauna and Habitats. In: Burrup Peninsula Fertilisers Pty Ltd,	Astron	1999		Cited in Worley Astron 2006 – Scope and methodology of
Proposed 2,200 tpd Ammonia Plant, Burrup Peninsula Western Australia,	Environmental			report not known as report is no longer available
Public Environmental Review (Section 5.8). August 2001. Prepared for				
Sinclair Knight Merz				
Vegetation, Flora and Fauna Survey. In: Syntroleum, Proposed Gas to	Astron	2001		Cited in Worley Astron 2006 – Scope and methodology of
Synthetic Hydrocarbons Plant, Burrup Peninsula Western Australia,	Environmental			report not known as report is no longer available
Consultative Environmental Review. November 1999. Prepared for HLA				
– Envirosciences Pty Ltd				
Annual Report on Environmental Investigations and Monitoring	Woodside Offshore	1995		Cited in Worley Astron 2006 – Scope and methodology of
	Petroleum Pty Ltd			report not known as report is no longer available
Annual Report on Environmental Investigations and Monitoring	Woodside Offshore	1997		Cited in Worley Astron 2006 – Scope and methodology of
	Petroleum Pty Ltd			report not known as report is no longer available
Annual Report on Environmental Investigations and Monitoring	Woodside Offshore	1998		Cited in Worley Astron 2006 – Scope and methodology of
	Petroleum Pty Ltd	1000		report not known as report is no longer available
Annual Report on Environmental Investigations and Monitoring	Woodside Energy	1999		Cited in Worley Astron 2006 – Scope and methodology of
Pluto LNG Development Survey of Non-marine Molluscs	Pty Ltd S.M. Slack-Smith	2005	Targeted Survey	report not known as report is no longer available
Pluto LNG Development Survey of Non-marine Molluscs	S.IVI. SIACK-SITIILII	2005	rargeted Survey	Cited in Worley Astron 2006 – A targeted assessment of the non-marine mollusc fauna of the Burrup Peninsula to
				allow assessment of the probable effect of the land based
				components associated with the Plutos LNG Development
				proposed by Woodside.
Fauna assessment surveys of the Pluto LNG Development pipeline	ENV Australia	2006		Cited in Worley Astron 2006 – Scope and methodology of
corridors				report not known as report is no longer available
Pluto LNG Development Holden Beach Sea Turtle Habitat Use Survey	Pendoley	2006	Targeted Survey	To search for evidence of sea turtle nesting activity within
	Environmental			the vicinity of a trunkline shore crossing location
				associated with the proposed Pluto LNG Development at
				Holden Beach

Report Title	Consultant	Year	Survey Type	Purpose
Terrestrial Fauna of the Burrup Peninsula, unpublished report prepared	Astron	2003	Desktop Survey	To provide a comprehensive desktop assessment of the
for BGC Contracting	Environmental			King Bay Eastern Leases area and determine fauna of
				significance that may inhabit the lease of adjoining areas
Pluto LNG Development Desktop Fauna Report	Worley Astron	2006	Level 1 Desktop	To provide a comprehensive desktop assessment of the
			Survey	Pluto LNG Development area and determine fauna of
				significance that will be required to be assessed for
				presence/absence in future targeted surveys.
Technical Ammonium Nitrate Production Facility. Public Environmental	Environmental	2009	Reconnaissance	To provide a comprehensive desktop assessment of the
Review for Burrup Nitrates Pty Ltd	Resources		Survey	area (Site D) for the Technical Ammonium Nitrate
	Management			Production Facility including noise monitoring sites, noise
				contouring and reduction measures, the extent of the now
				Murujuga National Park, broad landscape and vegetation
				attributes and hydrology and drainage.

3 METHODOLOGY

3.1 Contributing Authors

The planning and design of this survey was conducted by APM Principal Zoologist Dr Mitch Ladyman, Senior Botanist Dr Eleanor Hoy, and Senior Zoologist Dr Stuart Dawson. Fieldwork was carried out by E. Hoy, S. Dawson, Senior Zoologist Dr Genevieve Hayes, Environmental Scientist Sarah Flemington, Senior Ornithologist Dr Floyd Holmes, and Graduate Environmental Scientist Arlen Hogan-West.

The report was drafted by S. Flemington, E. Hoy, S. Dawson, and M Ladyman, while Environmental Scientist Tony Smith conducted GIS analysis.

3.2 CONSTRAINTS

Constraints and their impacts on survey outcomes are discussed in Table 3-1.

Table 3-1: Constraints and the impacts on survey outcomes

Factor	Impact on survey outcomes
Access Problems	Most of the site was only accessible by foot. This was not a limiting factor, however, and all areas were adequately surveyed.
Experience levels	The personnel that executed these surveys included practitioners that are regarded as suitably qualified in their respective fields. • Dr Eleanor Hoy – Senior Botanist (10 years experience)
	Dr Stuart Dawson – Senior Zoologist (5 years experience)
	Dr Geneieve Hayes - Senior Zoologist (5 years experience)
	 Sarah Flemington – Environmental Scientist (2 years experience)
	 Dr Floyd Holmes – Senior Ornithologist (5 years experience)
	Arlen Hogan-West – Graduate Environmental Scientist (1 years experience).
Scope: Flora	No constraints.
Scope: Vegetation	The survey was limited to the Study Area, excepting a small number of vegetation units in
	proximity to the Study Area that were included for statistical rigor of the analysis of
	vegetation types. Actual rather than predicted impact assessment of the proposed
	development may require verification of vegetation communities outside of the proposed
	development area.
Scope: Fauna	The scope of the fauna survey was a level 2 survey. In order to achieve the survey effort
	outlines in the guidelines for biodiversity surveys, trapping was conducted over 7 trap nights,
	and all methods of sampling were achieved within this time period.
	The spotlight surveys were targeted to sample the Northern Quoll and Pilbara Olive Python,
	two species that are cryptic and often in low densities. As a result of their cryptic nature, the
	absence of records does not necessarily indicate that these species are absent. In addition,
	the rocky outcrops where these species are likely to be present are relatively inaccessible
	with many rocky holes and caves for species to hide, making the probability of detection of
	these species limited.
	Two sites were placed in rocky outcrop habitat during the March/April survey, however due
	to the rocky nature of the substrate, no pitfall traps were used at these sites. To compensate,
	additional funnel traps were deployed.
Timing, weather,	This biological report includes data gathered from field surveys conducted in November
season, cycle	2018 and March, April and May 2019. As such, surveys were conducted in a broad range of
	seasonal conditions. The 2019 wet season (Jan-March) experienced lower than average
	rainfall. This is likely to result in diversity and abundance of fauna and ephemeral flora being
	slightly lower than average years.
	While the survey timing did not include a period of spring tide, during which the tidal salt
	flats would be inundated, a cyclonic event just prior to fieldwork resulted in abundant

Factor	Impact on survey outcomes
	available water on the plains. This availability of water negates the limitation of the lack of
	spring tide.
Sources of	The flora of the Burrup Peninsula is well studied. The regional work by M. E. Trudgen &
information	Associates (2002) maps the current site and many flora and vegetation assessment surveys
	have been undertaken as part of the Environmental Impact Assessment process on
	development sites adjacent to the Project.
	Similarly, the fauna assemblage of the Burrup Peninsula is well studied, largely due to the
	number of different facilities that have been built on the peninsula in the last 30 years, and
	the resulting biological surveys. Many of these surveys are not freely available, however,
	while being referred to in more recent documents. The literature search is therefore
	deliberately limited to include surveys that include data directly comparable to our survey.
	Given the number of previous surveys and database searches, this is not considered a
	limitation.
Completeness: Flora and	The field survey recorded 86 taxa in November 2018 and an additional 42 taxa in May 2019
vegetation	totalling 127 taxa (including species, subspecies and variants) from 34 Families.
	390 taxa have been recorded for the Burrup Peninsula (Astron Environmental, 2005). Astron
	Environmental (2005) recorded 143 taxa from 44 families for an area greater than but
	including Site C and the 'Site C and F amalgamation' zone. Astron (2001a) recorded 131
	species in the BFPL site immediately to the east of the Study Area.
Completeness: Fauna	305 vertebrate fauna taxa have either been recorded or are expected to occur in the Burrup
	Peninsula (Worley Astron, 2006).
	The level 2 biological survey conducted in early 2019, coupled with the level survey
	conducted in late 2018, represents an appropriate survey effort to provide a reasonable
	inventory of species occupying the site. Similarly, the bird survey was conducted in
	accordance with guidelines. The data gathered in this survey, coupled with previous surveys
	on the Burrup Peninsula, and appropriate database searches, provides an adequate
	understanding of the faunal assemblage at the site, such that completeness is not
	considered a limitation.
	Trapping could not be conducted in the floodplain during the March/April survey, due to the
	area being waterlogged from the recent rainfall. Given the area is completely devoid of
	cover, this area is unlikely to support many small animals.

3.3 DATABASE SEARCHES

Table 3-2 lists the database searches that were conducted prior to field survey. Some fauna studies have previously been undertaken in the surrounding area of the Burrup Peninsula and Dampier Archipelago. Relatively little fauna survey work, however, has been completed in the immediate proximity of or within the actual Project Area.

Table 3-2: Database Searches Conducted Prior to Field Survey

Database	Area Searched	Information	Administering Agency	
Flora and Vegetation				
Australian Government Protected Matters Search Tool	Central co-ordinate within the Project Area with a 100 km buffer (Appendix C)	Matters of national significance and matters protected by EPBC Act		
Directory of Important Wetlands in Australia	Roebourne Biogeographic Subregion	Details of specific Ramsar and Directory Wetlands (Internationally and Nationally important wetlands, respectively)	Department of Energy and Environment	
Threatened (Declared Rare) Flora Database		Validated populations of declared rare flora and some priority flora		
Western Australian Herbarium Specimen Database	270 km of coastline plus the islands within 16 km, including the entire Burrup Peninsula (Appendix D)	All records of declared Rare and Priority species from the Western Australian Herbarium collection of specimens, includes unvalidated historical specimens	Department of Biodiversity Conservation and Attractions	
Declared Rare and Priority Flora List	-	Declared Rare Flora and Priority Flora – provides a list of species and general distribution in an area of interest		
Priority Ecological	-	Priority Ecological	•	
Communities List		Communities		
Fauna				
Australian Government Protected Matters Search Tool	Central co-ordinate within the Project Area with a 5 km buffer (Appendix C)	Matters of national significance and matters protected by Environmental Protection and Biodiversity Conservation (EPBC) Act 1999	Department of Energy and Environment	
Atlas of Living Australia	Central co-ordinate within the Project Area with a 10 km buffer (Appendix E)	All species records that have been lodged with the database	Atlas of living Australia	
NatureMap	Central co-ordinate within the Project Area with a 10 km buffer (Appendix F)	All species records that have been lodged with the database		
Threatened Fauna Database	Area surrounding Project Area, including the entire Burrup Peninsula and islands within ~25 km (Appendix D)	Threatened and Priority Species listed under the WC Act	 Department of Biodiversity Conservation and Attractions (DBCA, WA) 	

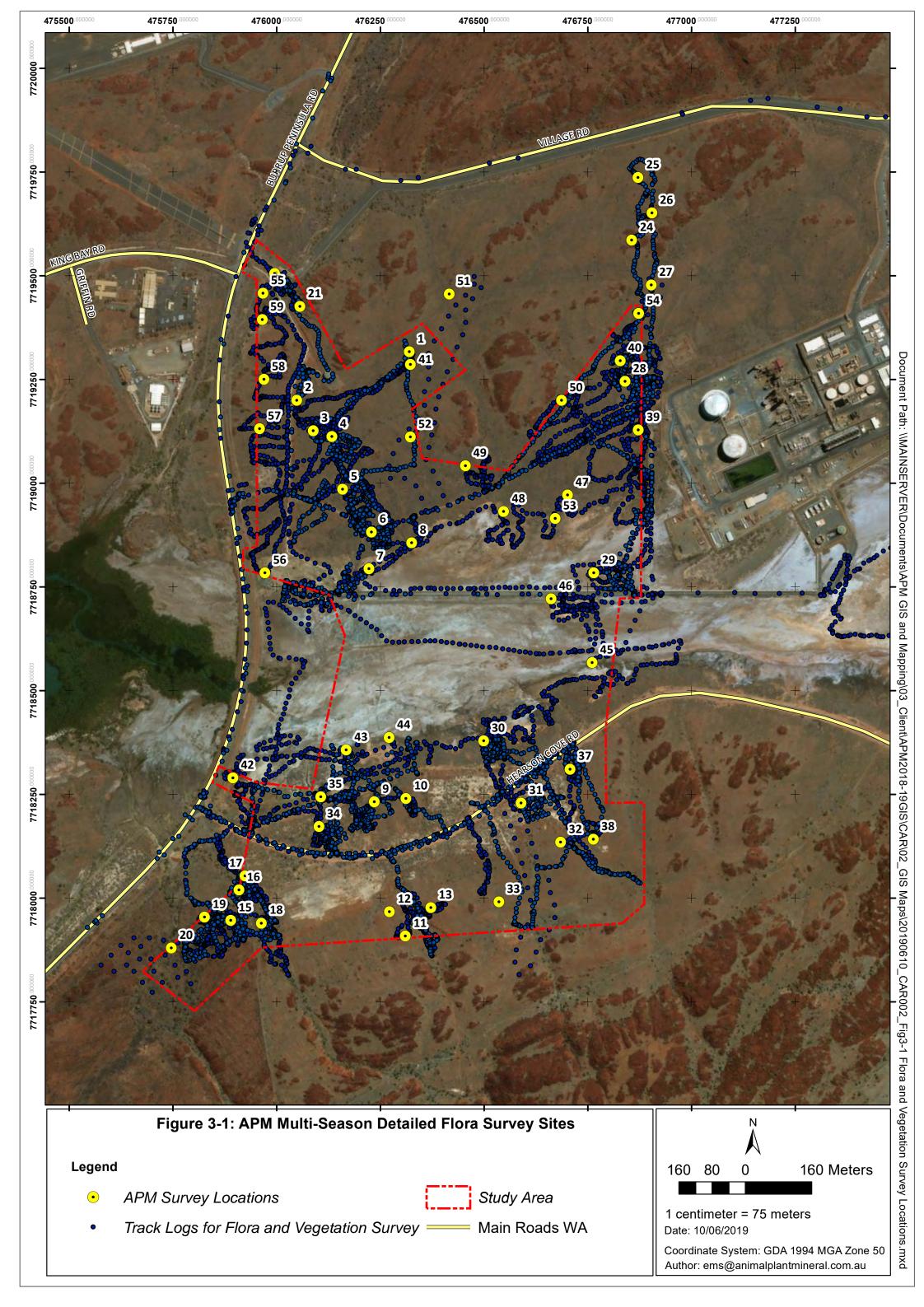
3.4 FLORA AND VEGETATION FIELD SURVEY

3.4.1 Flora and Vegetation Survey Methodology

Vegetation classification is the process of identifying and characterising discrete vegetation units using empirical data. The aim of vegetation classification is to identify and describe the vegetation units present within a survey area, identify the local or regional significance of the identified units and provide sufficient information to enable analysis of impact significance. Two primary methods are used to classify vegetation units in WA: one is based on dominant species and vegetation structure and the other is based on analysis of floristic composition data.

A consistent approach to vegetation classification and description across surveys in similar regions is critical for the assessment of cumulative impacts at the local and regional scales. Differences in classification and analysis methods, consideration of scale, interpretation of floristic and structural vegetation information and terminology can lead to incompatibility between assessments. In identifying the appropriate methodology for the current survey, consideration was given to the methodology used in other local and regional assessments and adherence to the EPA (2016) *Technical Guidance: Flora and Vegetation Surveys for Environmental Impact Assessment*.

The fieldwork was conducted in two periods: a four-day survey was carried out by a Senior Botanist and assisting Environmental Scientist from the 19th to the 22nd of November 2018 and a 5-day survey from the 11th to 15th of May 2019 completed by a Senior Botanist. Flora surveys were undertaken in all the vegetation/soil types/landform units present in the study area, at representative locations established following the desktop assessments and initial site reconnaissance. Figure 3-1 shows the survey site locations and APM's vegetation assessment survey tracks .



Vegetation was mapped at the association scale. Survey sites were allocated to identified vegetation types to accurately describe the vegetation association. Vegetation units were identified, and boundaries delineated using a combination of aerial photography, topographical features and field data/observations. Vegetation units were allocated mapping codes with reference to previously described vegetation types in the region (see section 4.1.2) based on structure, dominant taxa and cover characteristics. Field observations on the distribution of vegetation units were made using traverses, where notes on the location, dominant species and vegetation condition were taken to help with the extrapolation of vegetation type and condition.

Survey sites represent Full Characterisation Sites (EPA, 2016) and were sampled using quadrats of 50 m x 50 m where possible. In riparian areas or where the vegetation types were of an irregular distribution, quadrat dimensions were altered but the $2,500 \text{ m}^2$ search area was retained where possible. A number of vegetation units were substantially smaller than $2,500 \text{ m}^2$. These areas had clearly defined boundaries due to changes in vegetation composition, and the entirety of these vegetation units were sampled.

Field data at each survey site was recorded on a *pro-forma* data sheet and included the parameters detailed in Table 3-3. Details of survey sites are provided in Appendix G. A flora inventory was compiled from taxa listed in described survey sites and from opportunistic floristic collections throughout the survey area, with at least one collection made for every taxon encountered. 215 specimens were identified by an experienced botanical taxonomist in the Herbarium using published reference material. The nomenclature applied is consistent with Florabase (Western Australian Herbarium, 2019). The conservation status of all recorded flora was compared against the current lists available from DBCA (Wildlife Conservation (Rare Flora) Notice 2018 and Threatened and Priority Flora List 5 December 2018) and the EPBC Act List of Threatened Flora (DoEE, 2018a). Conservation categories are described in Appendix A.

Table 3-3: Parameters recorded at each Survey location

Variable	Parameters
Collection	Personnel/recorder; date, quadrat dimensions and marking method, photographs of the quadrat
attributes	from the northwest and south east corners, site code
Physical features	Landform, aspect, soil attributes, ground surface cover, rock type and physical attributes
Community Size	Width (m) if linear (e.g. riparian) or size (ha) if non-linear
Location	Coordinates recorded in GDA94 datum using a hand-held Global Positioning System (GPS) tool
	(Garmin) to accuracy approximately ± 5 m.
Vegetation	Vegetation condition was assessed using the condition rating scale devised by Trudgen (1988)
condition	
Disturbance	Level and nature of disturbances (e.g. weed presence, fire and time since last fire, impacts from
	grazing, infrastructure works).
Flora	List of dominant flora from each structural layer. List of all species within the quadrat including
	average height and cover

Vegetation Condition was assigned using the scale developed for the Eremaean and Northern Botanical Provinces adapted from Trudgen (1988) as recommended in EPA (2016a). Table 3-4 details the six potential categories.

Table 3-4: EPA (2016a) Vegetation Condition Scale

Vegetation Condition	Eremaean and Northern Botanical Provinces adapted from Trudgen (1988)
Excellent	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement
Very Good	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
Good	More obvious signs of damage caused by human activity since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
Poor	Still retains basic vegetation structure or ability to regenerate it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
Degraded	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
Completely Degraded	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising weed or crop species with isolated native trees or shrubs

3.4.2 Flora and Vegetation Data Analyses

Floristic composition vegetation classification methodology was applied to the full suite of species present within quadrats, to determine whether the sites fall into clusters of similar communities. The Primer 7 (Clarke and Gorley, 2015) software was used to perform the non-parametric multivariate statistical analysis. A species by site matrix was prepared using species projected cover values and square root transformation applied. The square root transformation was selected to moderate the effect of the most dominant species without giving the singleton and sporadic species excessive weight. A resemblance matrix was constructed using the Bray Curtis similarity measure on the transformed data set. A cluster analysis was performed using group averages to identify sites with similarities in species composition and cover values, and the results displayed in a dendogram. The SIMPROF routine was used to test the hypothesis that the species and/or abundances are different at each group of sites using 999 permutations and a significance level of 5%.

The statistical methodology was selected to replicate that of Trudgen and Associates (2002).

Floristic composition vegetation classification methodology created high level groupings but did not adequately allow for comparison with previous surveys where data had not been statistically analysed by other biological survey practitioners. Structural vegetation classification was also retained to allow for comparison with previously described vegetation associations.

Structural vegetation classification uses vegetation structure and dominant species to describe differences between vegetation units. Structural vegetation classification provides information on height of strata, foliar cover and dominant species.

3.4.3 Priority Flora Targeted Searches

Targeted searches were conducted in all vegetation types with particular attention given around the rocky outcrops, drainage features and the fringes of the tidal inlet. Known locations of *Rhynchosia bungarensis* (P4) and *Stackhousia clementii* (P4) were searched and healthy plants identified so as to determine suitable conditions for searches of these species. Track logs of targeted searches are displayed in Figure 3-1.

Taxa with uncertain taxonomy (as identified in M.E. Trudgen & Associates, 2002) were systematically collected across the site for detailed determination at the herbarium.

3.5 TERRESTRIAL VERTEBRATE FAUNA

The terrestrial vertebrate fauna survey was conducted in two discrete periods, the initial, pre-wet season Level 1 survey, and the follow-up, post-wet season Level 2 survey.

The initial survey occurred between the 19th and 22nd of November 2018 and was conducted by Dr. S Dawson and Dr. F. Holmes. Fauna habitat was surveyed using nine survey points, distributed throughout the site and sampling the range of habitats present. At each survey point, a range of substrate, landform, vegetation, and structural parameters were measured. Any fauna sighted during recording at these points was recorded. Some areas adjacent to the Project Area that represented unique or significant habitat values were also surveyed. Morning and evening bird surveys were conducted, and camera traps and bat detectors were deployed in habitat appropriate for Threatened fauna. Spotlight surveys were also conducted each evening.

The post-wet season Level 2 survey was carried out between the 27th of March and the 5th of April 2019. This survey was conducted by Dr S. Dawson, Dr G. Hayes, Dr F. Holmes, S. Flemington and A. Hogan-West. This survey consisted of the deployment of six trap sites across the habitats available within the site, including cage traps, aluminium box traps, pitfall traps, funnel traps, camera traps, and acoustic bat recorders. In addition, morning and afternoon bird surveys and nocturnal spotlight surveys were conducted.

3.5.1 Trapping

During the post-wet season survey, conducted in March / April 2019, traps were deployed at six sites, two in each of the three major habitat types; rocky outcrop, mid-slope, and samphire. The flood plain in the centre of the site could not be sampled during trapping as it was waterlogged.

The trap effort and details of each site are shown in Table 3-5. Each trap site consisted of a single line of 5 drift fences (10 m), with one pitfall trap and a pair of funnels on each fence. Two lines of 10 aluminium box traps, one on each side, were set parallel to the line of fences, and cages were set on each end of both lines of box traps. In rocky outcrop habitat, pitfall traps were not used (as the substrate was too rocky to excavate), and an extra three pairs of funnels were deployed to compensate. Funnels and pit traps were checked twice daily, while cages and aluminium box traps were checked in the morning, closed throughout the day, then opened and re-baited in the evening. General marsupial bait (rolled oats, sardines, and peanut butter) was used.

Table 3-5. The location and details of each trap site used in the March/April survey.

Trap Site	Habitat	Easting	Northing	Cage	Aluminium Box	Funnel	Pit	Trap nights	Description	
C01	Mid-Slope	0476587	7718117	4	20	10	5	7	Rocky substrate with scattered trees and tall shrubs over hummock grasses (25% ground cover). Creek line runs through the site.	
C02	Rocky Outcrop	0476383	7717975	4	20	16	0	7	Rocky slope with scattered tall shrubs over hummock grasses (30% ground cover), near large rockpiles.	
C03	Samphire	0476127	7718320	4	20	10	5	7	Flat plains with rocky sandy clay soils, Mixed low samphire shrubs (25% ground cover), fringed by hummock grassland.	
C04	Samphire	0476753	7718968	4	20	10	5	7	Mix of sandy rises and clay plains. Sandy rises contain scattered tall shrubs over tussock grasses (50% ground cover), while clay plains contain low scattered shrubs (5% ground cover).	
C05	Mid-Slope	0476337	7718943	4	20	10	5	7	Gentle slopes with clay soils. Scattered tall shrubs over hummock grasses, (50% ground cover).	
C06	Rocky Outcrop	0476201	7719279	4	20	16	0	7	Rocky slopes with scattered tall shrubs, over hummock grasses (60% cover), near large rockpiles.	
		Total trap nights		168	840	504	140			

3.5.2 Camera Trapping & Bat Acoustic Recorders

Camera traps and acoustic bat detectors were deployed in both the November 2018, and the March / April 2019 survey. All camera traps were Reconyx HC500 HyperFire™ Semi-Covert IR, while two types of bat detectors were used: AnaBat Swift Passive Bat Detectors and D500x Ultrasound Detector / Recorders. Camera trap deployment details are provided in Table 3-6.

Table 3-6: Camera trap and bat detector survey effort across all surveys

Туре	Survey	Habitat	Locations	No. of traps	Total trap nights
		Rocky Outcrop	BC001, BC002, BC006	3	12
		Mid-slope	BC003, BC004, BC008, BC009	5	16
	Nov 18	Mangrove (outside Study Area)	BC005	1	4
		Rocky outcrop (outside Study Area)	BC010	1	3
Camera trap				Total	35
		Rocky Outcrop	C02, C06	4	32
		Mid-slope	C01, C05	4	32
		Samphire	C03, C04	4	32
	Mar 2019	Rocky outcrop (outside Study Area)	QC01, QC02, QC03	3	24
				Total	120
		Rocky Outcrop	BC001, BC006	2	8
	Nov 18	Mid-slope	BC004, BC009	2	8
				Total	16
Bat detector		Rocky Outcrop	C02, C06	2	16
	Mar 2019	Mid-slope	C01, C05	2	8
	iviai 2019	Samphire	C03, C04	2	8
				Total	32

3.5.3 Bird Surveys

Bird surveys were conducted during the November 2018 and March 2019 survey periods. Bird surveys were conducted in the morning, immediately after sunrise, and in the evening, just prior to sunset. The method involves searching 2 ha plots for 20 minutes and recording each species (and the number of individuals). Around 8-12 plots were searched each day. Plots were spread throughout all habitat types present at the site, with a focus on the floodplain and fringing habitat in order to sample migratory wader or shorebird species. All bird surveys were conducted in accordance with EPBC Act Policy Statement 3.21—Industry guidelines for avoiding, assessing and mitigating impacts on EPBC Act listed migratory shorebird species (DoEE, 2017)

3.5.4 Targeted Searching

Searches of rocky outcrop areas were carried out during both surveys, targeting both the Northern Quoll and the Pilbara Olive Python. This included diurnal searches largely focused on habitat assessments and recording of sign (scats and tracks). Nocturnal spotlight surveys were conducted during both surveys, searching

appropriate habitat for foraging nocturnal species. In total approximately 6 hours of spotlighting was carried out in both the pre-wet season and post-wet season surveys.

4 FLORA AND VEGETATION RESULTS

4.1 DESKTOP SURVEY

4.1.1 General Site Description

The King Bay to Hearson Cove valley is the only open valley of the Burrup Peninsula which crosses east-west across the Peninsula. The Project straddles the western end of the valley with a catenary sequence from the elevated rocky hills in the north and to the south, to upper and mid slopes incised by drainage features, through hummock grasslands and plains to the floor of the valley which has a large area of saline mud flats fringed by samphire and sandy swales of tussock grasslands.

4.1.2 Previous Surveys

Beard (1975) described the vegetation of the botanical province as predominantly open grassy plains or mixed grass and spinifex with shrub steppe occurring further inland on the granite plains. Beard (1975) broadly classified the vegetation of the Burrup Peninsula as *Triodia pungens* hummock grassland with very few shrubs.

Thackway and Cresswell (1995) described the vegetation as "Quaternary alluvial plains with a grass savannah of mixed bunch and hummock grasses, and dwarf shrub steppe of *Acacia translucens* (now *A. stellaticeps*) over *Triodia pungens* (now *T. epactia*). Samphire, *Sporobolus* and Mangal occur on marine alluvial flats".

Blackwell and Cala (1979) looked specifically at the vegetation of the Burrup Peninsula and described a group of five basic vegetation units for the area that were further divided into 28 communities. Blackwell and Cala (1979) recognised the Burrup Peninsula as part of the Abydos Plain which forms the landscape on the mainland, but also identified it as containing a unique mixture of coastal and Eremaean species in close association with species more typical of the Northern (Kimberley) Botanical Province.

In anticipation of future development, the DEC commissioned a study of the vegetation of the Burrup Peninsula, Dolphin, Angel and Gidley Islands and Inland Ranges (M.E. Trudgen & Associates, 2002). The study identified 240 vegetation associations (each with a small area of occurrence), a rich flora for its size (383 native vascular plant species from 54 families), and a high number of geographically restricted or uncommon species (M.E. Trudgen & Associates, 2002). A significant geographic based pattern for the distribution of floristic units on the peninsula, in accordance with landscape groups (i.e. rock piles, slopes, drainage lines, etc.), was also identified (Trudgen and Griffin, 2001; M.E. Trudgen & Associates, 2002). The vegetation of the Burrup Peninsula was found to be generally in very good or excellent condition, except in areas of coastal sand (M.E. Trudgen & Associates, 2002).

Trudgen & Griffin (2001) assessed the regional significance of vegetation on the Burrup Peninsula using the (Trudgen and Associates 2002) vegetation mapping as a base. It was outside of the terms of reference to map the Samphire flats in detail and scale limitations led rock outcrops and rock pockets to be mapped as a single unit, but with descriptions of 11 rock outcrop and rock pocket vegetation units included in Volume 1. These limitations aside, the mapping and vegetation association descriptions as well as the analysis of significance for flora and vegetation associations detailed in Trudgen & Griffin (2001) and M.E. Trudgen & Associates (2002) are the most comprehensive treatments of regional flora available. The two volumes form the basis of impact assessments for developments on the Burrup Peninsula subsequent to 2001.

Many private industry developments have commissioned independent studies on the Burrup Peninsula. Studies that overlap or are adjacent to the Project are summarised below. Although the vegetation associations mapped

by Trudgen and those mapped by botanists commissioned by private industry are generally similar, some differences are evident. The reasons for the differences generally include:

- Detailed description of samphire and beach vegetation associations. These were broadly mapped by Trudgen as one unit as they were not a part of the scope for that study;
- Detailed mapping of rockpile vegetation that was previously mapped by Trudgen as one unit/association due to scale restrictions when mapping the entire Core Study Area;
- Differences in rainfall prior to the surveys and subsequent effect on the dominance of shorter-lived perennial shrub species (e.g. *Acacia colei*, *Acacia bivenosa*); and
- More detailed survey/inspection of the site-specific survey area. The Trudgen mapping covered most
 of the Burrup Peninsula and to achieve mapping on that scale it was required to use aerial photo
 interpreted mapping in some areas.

Syntroleum Sweetwater – Astron Environmental (2001a)

The Syntroleum Sweetwater project was proposed for the southern section of the current Project Area. It was surveyed for vegetation and floristic characteristics in 1999 with a survey area extending further to the south and south west than the current Study Area. Approximately one third of the area had been previously disturbed. Six broad vegetation associations were identified and within these associations 14 vegetation assemblages were identified. *Terminalia supranitifolia* (P3) was identified during the survey. Weeds found during the survey included *Cenchrus ciliaris (Buffel Grass), *Cenchrus setigerus (Birdwood Grass), *Aerva javanica (Kapok) and *Stylosanthes hamata (Caribbean stylo). It was noted that the tall stands of Eucalyptus victrix and Terminalia circumulata (formerly Terminalia canescens) woodland occurring in the drainage areas and deep gullies provided important faunal habitat (moisture, shade, nesting sites etc) and add aesthetic value to the Burrup.

BFPL Ammonia - Astron Environmental (2001b)

The BFPL Ammonia processing site is immediately adjacent to the Project and a portion of the vegetation mapped by Astron Environmental (2001a) overlaps the current Project Area. Astron Environmental (2001a, 2001b) conducted two vegetation surveys to coincide with the wet summer season and the dry season. Seven broad vegetation types and 15 vegetation assemblages were found to occur within the project lease.

The vegetation assemblages considered of conservation significance based on criteria compiled from Astron Environmental (2001a, 2001b) and Trudgen *et al.* (2001), included:

- Vegetation assemblage 1a rock pile vegetation;
- Vegetation assemblages 5a, 5b, 5c drainage lines and broad drainage zone vegetation (especially mixed grevillea heath);
- Vegetation assemblages 6a, 6b and 6c samphire communities;
- Dolichandrone heterophylla stand (rare on the Burrup) (now Dolichandrone occidentalis)

A total of 131 vascular species (100 dry season, 117 wet season) were recorded within the Study Area. However, as the rainfall for the wet and dry season was low, this may not represent the full total. No Declared Rare Flora was identified within the Study Area, but one Priority 3 Flora species (*Terminalia supranitifolia*, at the time of survey was classified as P1) was found. A total of 38 *Terminalia supranitifolia* individuals were located on or around the base of scree slopes and small rocky outcrops.

Dampier Nitrogen Pty Ltd Detailed Wet Season Survey (2005) and Addendum (2009) – Astron Environmental (2005)

Dampier Nitrogen Pty Ltd proposed a development of Site C within the King Bay / Hearson Cove Industrial Area. The area surveyed by Astron Environmental (2005) overlaps much of the northern end of the current Study Area as well as the tidal inlet and fringing vegetation in the centre of the current Project site. The Astron Environmental (2005) assessment covers a greater area than the current Project, encompassing a large area of rocky outcrop vegetation and tidal inlet that are outside of the current Project Area. Vegetation associations of the rock outcrops, samphire and tussock grass areas were described in detail. Twelve broad vegetation groups are divided into 79 associations.

The 2005 field survey recorded 143 flora taxa from 44 families. 23 *Terminalia supranitifolia* (P3) and 2 *Rhynchosia bungarensis* (P4) were identified. Two introduced species were recorded, **Cenchrus ciliaris* (buffel grass) and **Aerva javanica* (kapok bush). Two rockpile communities were considered to be of particular conservation significance. These occur outside of the current Project Area.

The mapping of the samphire vegetation in the Hearson Cove / King Bay Valley conducted by Astron Environmental in 2002 and included in the wet season report in 2005 is the most comprehensive assessment of the distribution of these vegetation assemblages on the Burrup Peninsula.

Pluto LNG Development Site B North - ENV Australia (2006)

Site B North is situated less than 500 m northwest of the Project.

One hundred and twelve taxa were collected from within the study site. One species of Priority flora, *Terminalia supranitifolia* (P3), was located at four sites within rockpiles and drainage lines. Eight special interest flora taxa were recorded (as per M. E. Trudgen & Associates, 2002). One in particular is considered of greater significance in relation to the Site B North project. *Fimbristylis* aff. *dichotoma* (M75-4) is not uncommon where it occurs. However, it is fairly restricted and a newly recognised taxon. Collection records exist at 21 locations on the Burrup Peninsula.

Two introduced species were recorded, *Cenchrus ciliaris (buffel grass) and *Aerva javanica (kapok bush).

One vegetation association mapped by M.E. Trudgen & Associates (2002) within Site B North is of conservation significance: *Triodia epactia* (Burrup form), *Cymbopogon ambiguus* hummock / tussock grassland (TeCa). The area of TeCa within Site B North represents less than 1% of the total area mapped for this association, and there is a relatively large number of occurrences on the peninsula. This association is only represented by 4% in the conservation zone, hence its significance.

Burrup Nitrates – Outback Ecology (2009)

The Burrup Nitrates Project is located adjacent to the BFPL ammonia project and less than 1 km to the east of the Project. Five broad vegetation types were identified during the flora survey. The five broad vegetation types identified on the Site correspond to those vegetation assemblages previously identified and mapped as occurring within the area (as per M. E. Trudgen & Associates, 2002). These vegetation types also broadly correspond with the vegetation associations mapped at the adjacent BFPL site by Astron Environmental (2001a).

Vegetation condition was described as Good to Very Good (Keighery, 1994). Three introduced species, *Cenchrus ciliaris (Buffel Grass), *Aerva javanica (Kapok bush) and *Vachellia farnesiana were found during the survey. It was noted that the introduced *Cenchrus ciliaris has increased its cover and dominance in the Coastal Flats vegetation type since the time of the M.E. Trudgen & Associates (2002) report.

No conservation significant flora species were identified within the site. While no Threatened or Priority Ecological Communities (**PEC**) are known on the Burrup Peninsula Based, analysis of the M.E. Trudgen & Associates (2002) mapping undertaken by ENV Australia (2006) identified that the community mapped as Sm and described as Saline Inlet and Supra-tidal Flats was considered to represent a significant vegetation association. It was noted that approximately 56% of this community's extent was represented within the proposed Burrup Peninsula Conservation Reserve.

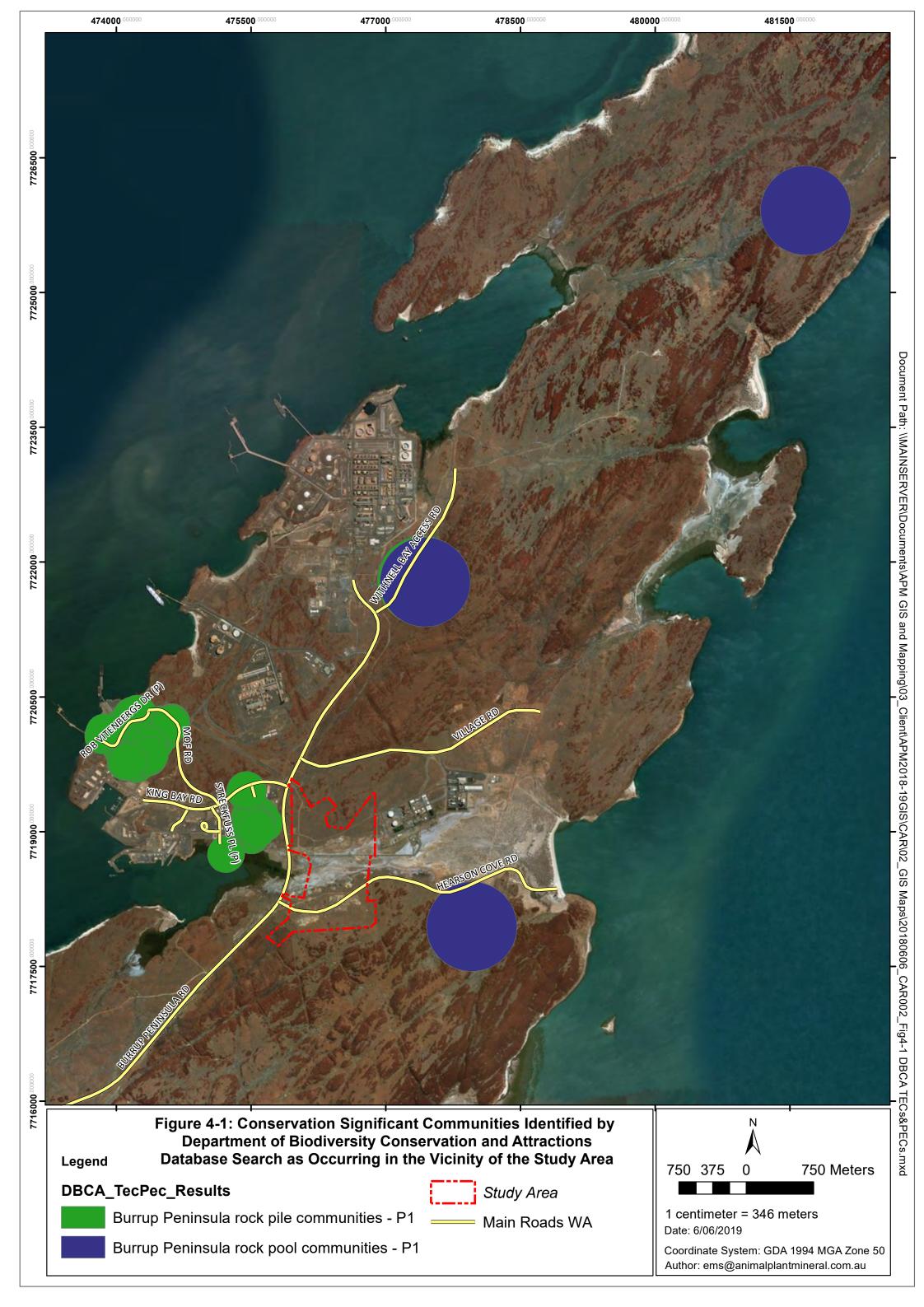
4.1.3 Conservation Significant Vegetation

No Threatened Ecological Communities listed under the EPBC Act or BC Act are known to occur on the Burrup Peninsula (DBCA 2018).

Two PECs are known from the Burrup Peninsula:

- Burrup Peninsula rock pool communities. Priority 1: Calcareous tufa deposits. Interesting aquatic snails. Threats: recreational impacts, and potential development; possibly NO_x and SO_x emissions, weed invasion including *Passiflora foetida (stinking passion flower); and
- Burrup Peninsula rock pile communities. Priority 1: Pockets of vegetation in rock piles, rock pockets
 and outcrops. Comprise a mixture of Pilbara and Kimberley species, communities are different from
 those of the Hamersley and Chichester Ranges. Short-range endemic land snails. Threats: industrial
 development dust emissions. Weed invasion including *Cenchrus ciliaris (Buffel Grass) and *Passiflora
 foetida (stinking passion flower)

Locations of PECs listed in the DBCA databases for the Burrup Peninsula are shown in Figure 4-1. No known PECs are listed in the DBCA database as occurring in the Project area.



Trudgen & Griffin (2001) assess "rarity" (and therefore significance) of vegetation based on methodologies outlined by Abrahams *et al.* (1995), using the minimum area for protection of an ecosystem as recommended by the International Union for the Conservation of Nature, and English and Blyth (1997). Using the formulas developed in these references, Trudgen & Griffin (2001) calculates vegetation rarity as governed by area, with 2,000 ha as the lower limit for definition of a "rare" undisturbed vegetation association and 30% remaining as the threshold for "threatened" status. Given this definition, all vegetation on the Burrup is "significant".

A map showing the frequency of vegetation types on the Burrup was produced by the Department of Mineral and Petroleum Resources (2002) utilising the results of M. E. Trudgen & Associates (2002). This map has a frequency scale ranging from 1 to 100 or more occurrences on the Burrup Peninsula. The map is a useful tool in assessing the regional significance of vegetation on any one area of the Burrup Peninsula. According to M. E. Trudgen & Associates (2002), ten or fewer occurrences of any vegetation association should be treated as significant, and more so if those occurrences are limited to the area zoned for industry.

Using Trudgen & Griffin's (2001) significance assessment criteria, the vegetation communities identified by M. E. Trudgen & Associates (2002) from the Study Area that are considered significant are listed in Table 4-1. There are a number of statistical artefacts in the dataset that elevate map units to significance without merit. These are identified in the comments of Table 4-1. Units coloured yellow indicate there are at least ten occurrences and as such do not qualify as significant under the classification scheme. They have been included in the table here as other developments on the Burrup may have reduced the number below ten occurrences and thus need to be considered as part of the cumulative impact of development on the Peninsula.

Table 4-1: Vegetation Communities from the Study Area that are Considered Significant using M. E. Trudgen & Associates (2002) Significance Assessment Criteria

Association Code	Association Name	Comments	
*CcTs	*Cenchrus ciliaris, (Triodia epactia (BF)), (Triodia angusta (BF))grassland/hummock grassland with Tephrosia aff. supina (MET 12, 357), Rhynchosia cf. minima herbland	*Cc is a weed. This is red by simple reason of being unique but is not considered significant vegetation. Without the *Cc it would likely be TaTsRm which is also red but together would be 2 occurrences therefore dark orange.	
ltTa/AbTa	This is mapped as a combination of ItTa and AbTa.	As individually they are both light orange, this is considered to be light orange also	
Sm/*Cc/D	This is mapped as a combination of Samphire, *Cenchrus ciliaris and Disturbed.	Sm is dark green, *Cc is a weed and D is disturbed so this vegetation is not of conservation significance.	
Sm/Sv	This is mapped as a combination of Sm and Sv	Sm and Sv are medium and light green respectively so this is not considered to be of conservation significance, excepting that a discussion of the conservation significance of the tidal inlet vegetation is found below.	
Sv	Sporobolus virginicus tussock grassland	Most of this vegetation is found below. Most of this vegetation is mapped as (Te)Sv, which indicates with or without <i>Triodia epactia</i> . It is considered here that Sv is synonymous with (Te)Sv (mapped light green) and therefore is not of conservation significance.	
TaTsRm	Triodia angusta (BF) Triodia epactia grassland with Tephrosia aff. supina (MET 12,375) herbland and Rhynchosia cf. minima lianes	1 occurrence, but see note for *CcTs	
AbCgTe	Acacia bivenosa, Cassia glutinosa open shrubland to shrubland over Triodia epactia (BF), *Cenchrus ciliaris grassland	Trudgen: Dark Orange 2 to 4 Occurrences	
ChAbSg	Corymbia hamersleyana low open woodland over Acacia bivenosa high open shrubland over Dichrostachys spicata scattered shrubs over Stemodia grossa low shrubland to low open heath over Triodia epactia (Burrup form) hummock grassland	Trudgen: Dark Orange 2 to 4 Occurrences	
Ev*CcTe	Eucalyptus victrix low open woodland to low woodland over (Pittosporum phylliraeoides var. phylliraeoides, Rhagodia eremaea high shrubs to shrubs) over *Cenchrus ciliaris, Triodia epactia (BF) tussock/hummock grassland	Trudgen: Dark Orange 2 to 4 Occurrences	
AblmTe	Acacia bivenosa high open shrubland to high shrubland over Indigofera monophylla (BF) scattered low shrubs to low open shrubland over Triodia epactia (BF) hummock grassland to closed hummock grassland	Trudgen: Light Orange 4 to 9 Occurrences	

AbTa	Acacia bivenosa high open shrubs over Triodia angusta (BF) hummock grassland	Trudgen: Light Orange 4 to 9 Occurrences
Acacia bivenosa high shrubland over Whiteochloa airoides, Triodia epactia (BF) tussock/hummock grassland with patches of *Cenchrus ciliaris grassland		Trudgen: Light Orange 4 to 9 Occurrences
EvAa Evaa		Trudgen: Light Orange 4 to 9 Occurrences
ltTa	Indigofera trita low shrubland over Triodia angusta (BF), (Triodia epactia (BF)) hummock grassland	Trudgen: Light Orange 4 to 9 Occurrences
ChlmTe	Corymbia hamersleyana scattered low trees to low open woodland over (Acacia bivenosa, Acacia coriaceae subsp. coriaceae) scattered tall shrubs over (Dichrostachys spicata) scattered shrubs over Indigofera monophylla (BF) low open shrubs to low shrubland over Triodia epactia (BF) hummock grassland	Trudgen: Yellow 10 to 24 occurrences
EvDsTa	Eucalyptus victrix scattered low trees to low open woodland over Dichrostachys spicata, (Acacia coriaceae subsp. coriaceae) tall scattered shrubs to low open shrubland over Triodia angusta (BF) hummock grassland	Trudgen: Yellow 10 to 24 occurrences
GpCwTe	Grevillea pyramidalis subsp. pyramidalis open heath over Corchorus walcottii scattered low shrubs to low open heath over Triodia epactia (BF) hummock grassland	Trudgen: Yellow 10 to 24 occurrences
TcEtSe	Terminalia circumulata low woodland over Eriachne tenuiculmis, Triodia epactia (BF) grassland/hummock grassland with Sesbania cannabina herbland	Trudgen: Yellow 10 to 24 occurrences

Red = 1 occurrence; **Dark Orange** = 2 to 4 Occurrences; **Light Orange** = 5 to 9 Occurrences; **Yellow** = 10 to 24 Occurrences.

Additionally, Astron Environmental (2005) considered two of the seven rockpile vegetation types to be very rarely occurring. These are:

• 2e DhTs Low woodland of *Dolichandrone occidentalis* (formerly *heterophylla*), *Terminalia supranitifolia* with *Brachychiton acuminatus* over very open grassland of *Triodia epactia* (Burrup form) and *Cymbopogon ambiguous*; and

• 2f ErvDhBa Low woodland of *Erythrina vespertilio* with *Dolichandrone occidentalis* and *Brachychiton acuminatus* over very open grasses of *Cymbopogon ambiguus* with *Triodia epactia* (Burrup form) over annual herbs.

Because the Study Area contains the only known occurrence of *Dolichandrone occidentalis* on the Burrup, its occurrence on the rock piles here is considered to have very high conservation value. Additionally, although *Erythrina vespertilio* does occur elsewhere on the Burrup, it is not abundant or widespread. Its occurrence with *Dolichandrone occidentalis* gives this community high conservation value. These mapped areas do not occur in the Project Area but are close to the border in the central section between the two north stretching arms.

ENV Australia (2006) mapped the *Triodia epactia* (Burrup form), *Cymbopogon ambiguus* hummock / tussock grassland (TeCa). This association is only represented by 4% in the conservation zone, hence its significance. There are more than 100 occurrences of this vegetation association on the Peninsula.

M. E. Trudgen & Associates (2002) identifies the tidal inlet between Hearson Cove and King Bay as being of conservation significance. The basic vegetation units mapped by M. E. Trudgen & Associates (2002) in the tidal inlet were designated Sm and (Te)Sv. In the assessment of occurrence Sm is represented by 50 to 99 occurrences and (Te)Sv is represented by 25 to 49 occurrences, both above the 10-occurrence threshold. Outback Ecology (2009) note also that there is approximately 56% of the Sm extent represented within the Burrup Peninsula Conservation Reserve (now the Murujuga National Park), above the 30 % threshold proposed by M. E. Trudgen & Associates (2002).

4.1.3.1 Conservation Significant Flora

No plants declared rare or threatened under the EPBC Act are known from the Burrup Peninsula, or within 100 km of the Study Area. No plants declared rare under the WC Act are known from the Burrup Peninsula.

DBCA Database Searches did not identify any known Priority flora locations within the Study Area. Priority Flora located in the Roeburn Bioregion coastal zone and Islands is shown in Figure 4-2. Table 4-2 identifies known habitat associations, distribution and flowering times of these taxa and makes an assessment of the likelihood of occurrence for each taxon given the habitats present in the Study Area. For the taxa assessed as likely to occur in the Project Area, an assessment is made about the likelihood of detection given the climatic conditions during survey. Table 4-2 identifies five taxa of conservation significance that may occur in the Project.

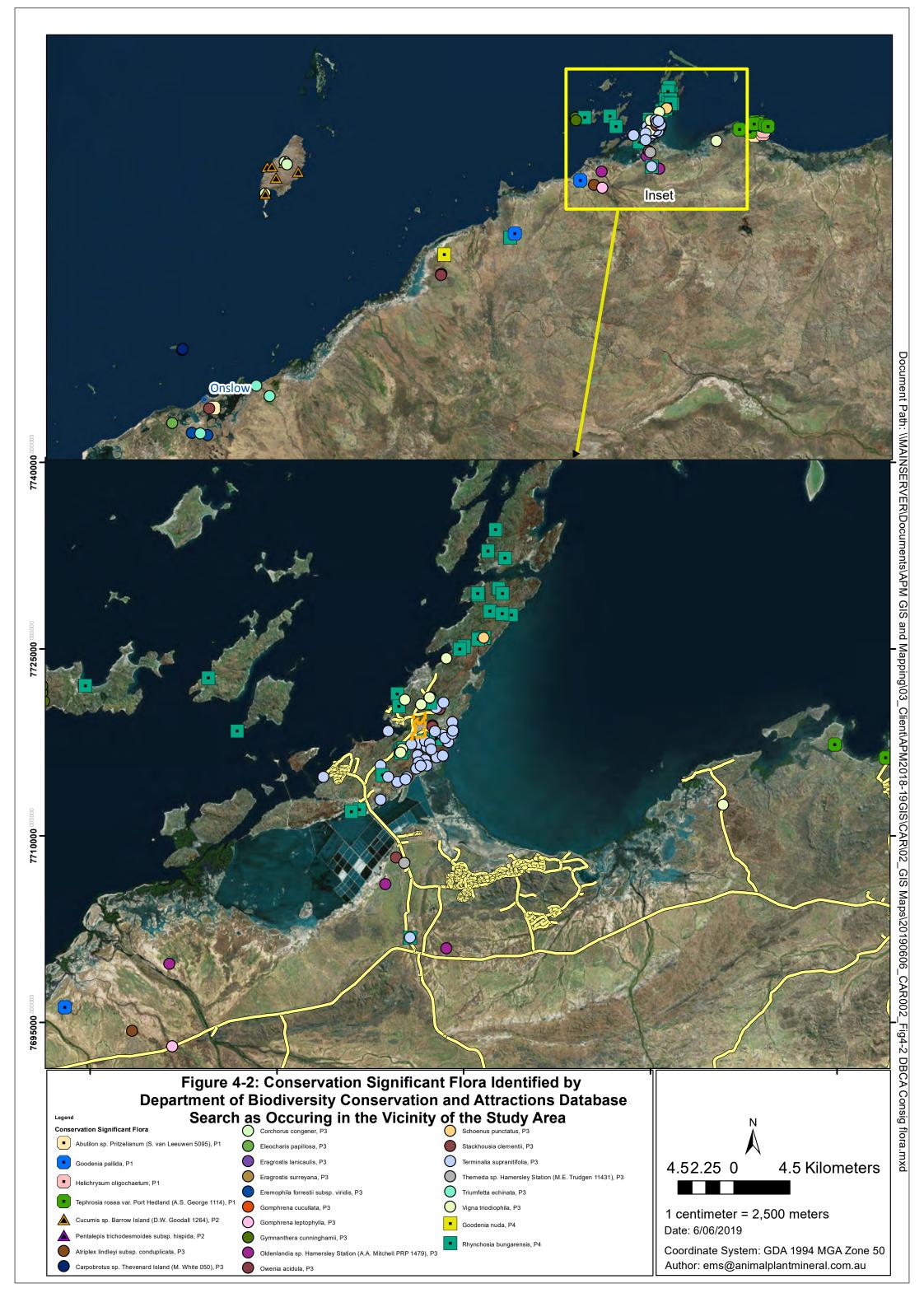


Table 4-2: Conservation Significant Flora identified from the Database Searches

Species	Current WA Conservation Status	Description & Habitat	Likelihood of Occurrence in Project Area and likelihood of Detection if Present
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	P1	Shrub to 1.5 m Red stony loam with <i>Acacia inaequilatera</i> , <i>Sida</i> sp., <i>A. coriacia</i> , <i>Hibiscus leptocladus</i> .	Possible . Known from 1 location 40 km to the east on the mainland.
Goodenia pallida	P1	Balmoral Homestead. Corolla very pale purple. Plain, dry red sand. Annual grassland, Acacia steppe.	Unlikely. No suitable Habitat.
Helichrysum oligochaetum	P1	Erect annual, herb, to ca 0.25 m high. Fl. yellow, Aug to Nov. Red clay. Alluvial plains.	Unlikely. No suitable habitat
Tephrosia rosea var. Port Hedland (A.S. George 1114)	P1	Erect, spreading shrub 1 m Straggly open tomentose perennial. All parts densely grey/white felt, except inner petals. Deep burgundy flowers. Lower leaves becoming large. Raceme terminal 22-38 cm long. Legume 2.5-3 cm, tomentose. coastal dune sands, Open shrubland of <i>Acacia coriacea</i> subsp. <i>coriacea</i> and <i>Acacia sabulosa</i> over scattered shrubs of <i>Tephrosia rosea</i> var. Port Hedland over <i>Triodia epactia</i> , *Cenchrus ciliaris and *Aerva javanica. Also Small rocky hillcrest adjacent to lower-lying saline drainage areas at or just above sea level. with <i>Triodia wiseana</i> , <i>T. epactia</i> hummock grassland.	Possible but most locations on rocky terrain closer to the coast.
Pentalepis trichodesmoides subsp. hispida	P2	0.5 m tall x 1.5 m wide with long stems extending from the base, or just above. Phyllodes, green-yellow lanceolate, tomentose, 8 x 0.9 cm, 3 prominent veins. Flowers yellow with 5 petals. Bracts present. Banks of creeks and edges of basalt screes	Unlikely. No suitable habitat.
Atriplex lindleyi subsp. conduplicata	Р3	Open straggly rotund shrub, growing up to 0.2 m tall. Sparse tussock grassland of Eragrostis xerophila. Crabhole plains.	Unlikely. No suitable habitat.
Cucumis sp. Barrow Island (D.W. Goodall 1264)	P3	Barrow Island Nature Reserve Herbaceous climber, 0.4 m high, 0.4 m wide. Very sticky creeper. Stems and leaves hirsute. Leaves mid-green, trifoliate, simple from nodes at regular intervals. One leaf and flower at each node. Perianth 0.5 cm long, 5 bright yellow petals. Flower approximately 0.5 cm diameter. Gentle calcrete slope. Red, sandy loam. <i>Triodia angusta</i> with scattered <i>Grevillea pyramidalis</i> . Species in vicinity (burn area): Acacia bivenosa, Acanthocarpus verticillatus, Adriana tomentosa, Corchorus congener, Diplopeltis eriocarpa	Unlikely. Restricted to Barrow Island 140 km to the west. Flowering known from June and October.
Carpobrotus sp. Thevenard Island (M. White 050)	Р3	Thevenard Island. Prostrate succulent, glabrous plant. Leaves sessile, triangular in cross section to 10 cm in length. Sides 17mm wide. Flowers cream, solitary, 3-5 cm in diameter on thick peduncles 4-5, 2 large, leaflike, others small. Fruit turbinate. Coarse white sand on top of dune. Disturbed area.	Unlikely. No suitable Habitat. Restricted to Thevenard Island 200 km to the south-west.
Corchorus congener	Р3	Barrow Island. Spreading plant to 75 cm diameter. Old stems grey-brown. New stems pale green and plumose. Leaves pale green, dentate, oval, 1-3 cm long x 1-1.5 cm	Unlikely. Restricted to Barrow Island 140 km to the west. Flowering known from June and October.

Species	Current WA Conservation Status	Description & Habitat	Likelihood of Occurrence in Project Area and likelihood of Detection if Present	
		wide, plumose. Flowers in umbels along stems. 4 bright yellow petals, numerous bright yellow stamens.		
Eleocharis papillosa	Р3	Broad drainage area through sandy coastal plain Red clay over granite, open clay flats. Claypans. Mosaic of <i>Tecticornia</i> (formerly <i>Halosarcia</i>) low shrubland with mixed tussock grassland of <i>Sporobolus mitchellii, Eriachne benthamii, Eulalia aurea</i> .	Unlikely. No suitable habitat.	
Eragrostis lanicaulis	P3	Knotty or bulbous rhizomatous, perennial, grass-like or herb, 0.45-0.5 m high. Fl. Mar to May or Aug to Oct. Red sandy clay. Flats.	Unlikely. No suitable habitat.	
Eragrostis surreyana	Tufted annual grass 1-2 cm high. Seepage/wetland areas on boulder/rocky areas. Stoney soil of red-brown sandy-clay. Cyperus vaginatus, Schoenus falcatus,		Unlikely. No suitable habitat	
Eremophila forrestii subsp. viridis	P3	Shrub, 0.8 - 1.5 m tall, Flowers pink-cream. Red sands - red/brown sandy loams of flat interdunal swales (not within dunes). Generally occurs on the flats where a hardpan develops in between inland dunes. <i>Acacia tetragonophylla, A. stellaticeps, Triodia epactia</i> .	Unlikely. No suitable habitat	
Prostrate, compact herb 20 cm high x 55 cm wide. Wiry red stems, young stems slightly hairy. Revolute, linear leaves, acute 10-47 mm long x 1 mm wide. Flowers white-pink, orange stamens, corolla 4 mm long. Flower head cylindrical, 20 mm long x 7 mm wide. Floodplain, red loam, Grassland		Unlikely. No suitable habitat		
Gomphrena Ieptophylla	P3	Prostrate, compact herb 20 cm high x 60 cm wide. Stem leaves acute, mucronate, revolute linear leaves 10-30 mm long x 1-2 mm wide. Flowers green, yellow stamens. Axillary corolla 5 mm long. Cylindrical flower head 20 mm long x 7 mm wide. Bracts incurved. Flowers white, Mar to Sep. Sand, sandy to clayey loam, granite, quartzite. Open flats, sandy creek beds, edges salt pans & marshes, stony hillsides.	Possible. Diverse range of habitat associations.	
Gymnanthera cunninghamii	P3	Enderby Island, Erect, multistemmed shrub to 2 m tall, Stem very pliable, bronze colour, glabrous. Leaves opposite, margins undulating, glossy, lime green above, dull beneath. Petioles 2-2.5 cm long. Milky sap. Growing in beach sand at base of dolerite hills.	Unlikely. No suitable Habitat. Records of flowering in all months.	
Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479)	Р3	Alluvial silt and clay in floodplain. Brown clay loam, Tussock Grassland of <i>Eriachne</i> sp. over Very Open Herbs.	Unlikely. No suitable habitat	
Owenia acidula	Р3	Mardie Station. Small tree to 3m, often dense stands as suckers. Leaves pseudopinnate. Known from sand dune, Shrub steppe,	Possible . Easily detected from vegetative growth al year.	

Species	Current WA Conservation Status	Description & Habitat	Likelihood of Occurrence in Project Area and likelihood of Detection if Present
Rhynchosia bungarensis	γ		Occurs in Project Area. Locally common on the Burrup Peninsula. Suitable habitat exists on the rocky outcrops and slopes. Closest DBCA record less than 300 m from the Project Area. Specimens positively detected in Project Area by APM.
Schoenus punctatus	P3	Tufting plant to 80 cm high. Mid green leaves and culms. Leaf base dark red. Heads fine panicles above leaves. Spikelets brown to dark brown. Growing near <i>Stylidium fluminense</i> , <i>Cyperus</i> sp. and other water dependent spp. in creekline mud.	Unlikely. No suitable habitat
Stackhousia clementii	P3	King Bay - Hearson Cove tidal inlet, Burrup Peninsula. Lime-green, more or less leafless plant (or scale like leaves) to 45 cm with numerous erect slender branches. Flowers in clusters, forming a cylindrical spike. Woody base. Soft, silty saline soil over limestone - with much limestone and coral rubble, on small 'island' within tidal inlet (very rarely inundated). But also with Tall shrubland of Acacia bivenosa over open hummock grassland of Triodia epactia with open tussock grassland of *Cenchrus ciliaris, on sandy clay loam flats.	Likely. Located in the supratidal zone common to the Project Area. Records located 600 m to the east of the Project Area visited and healthy individuals noted. Records of flowering in all months.
Terminalia supranitifolia	P3	Rocky outcrops. Stunted canopy tree, very gnarled twisted trunk, intricate branches, grey in colour. Leaves glossy, silvery silky tomentum. Flowers lemon, fruits not winged. Leaves lemon-green colour.	Occurs in Project Area. Locally common in the central area of the Burrup Peninsula. Suitable habitat exists on the rocky outcrops. Closest DBCA record less than 300 m from the Project Area. Fertile specimen positively detected in Project Area by APM.
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	P3	1.8m tall upright grass bases not buried in ground. Flowers Aug. Red clay. Clay pan, grass plain.	Unlikely. No suitable habitat
Triumfetta echinata	P3	Prostrate perennial shrub, spreading to ca 1 m diameter. sand dune with Soft spinifex.	Unlikely. No suitable habitat
Vigna triodiophila	P3	Burrup Peninsula. Herb. Slender vine entwined in <i>Triodia epactia</i> and rocks. Vine with thickened root - probably perennial but dying back to rootstock in dry. Flowers yellow. Rockpiles.	Likely. Locally common in the central area of the Burrup Peninsula. Suitable habitat exists on the rocky outcrops. Closest DBCA record is 700 m from the Project Area. Fertile material recorded in June.
Goodenia nuda	P4	Mardie Station Erect herb 0.3 m high x 0.2 m wide. Flowers yellow. Plain. Dry, red sand. Mesquite scrub.	Unlikely. No suitable Habitat.

M. E. Trudgen & Associates (2002) identified a number of species of conservation significance (Table 4-3). These are species identified as having high conservation value for being at the extent of their range or those for which there is a lack of scientific knowledge, or because their distribution is limited. Nine of these species are perennials, 16 are annuals, six are annual / ephemerals and five are ephemerals (one species was unknown). Some of the flora taxa of special interest listed by Trudgen has been accepted as a natural variation of a known and described taxa. *Rhynchosia* sp. Burrup (82-1C) is now known as *Rhynchosia bungarensis* (P4).

From the review of previous surveys it was noted that the Astron Environmental (2005) survey identified 23 *Terminalia supranitifolia* (P3). Most of these occur outside of the current Study Area. *Rhynchosia bungarensis* (P4) was also located in 2 areas.

Table 4-3: Flora Taxa of Special Interest as described by M. E. Trudgen & Associates (2002)

Characteristic of Interest	Flora Taxa
Uncommon or rare, very restricted, newly recognised taxa	Stackhousia sp. (BMor 153), Euphorbia sp. (B34-11), Amaranthus aff. pallidiflorus (D89), Sida aff. cardiophylla (B22-37), Tephrosia aff. clementii (5) B184, Sida aff. fibulifera (B181-5B), Tephrosia aff. densa (B16-22), Sida aff. fibulifera (B235-7), Vigna sp. Burrup (B18), Sida aff. fibulifera (D109).
Not common, very restricted, newly recognised taxa	Cheilanthes aff. tenuifolia (B18), Euphorbia sp. (G133), Amaranthus sp. (D111), Triumfetta cf. propinqua (B13-13), Euphorbia sp. (BPBS2), Ehretia ?(B23-22), Euphorbia sp. (D105-1)
Apparently rare, fairly geographically restricted, habitat restricted taxa	Eragrostis sp. Mt Montagu (M.E.Trudgen 15,246), Rhynchosia sp. King Bay (B181-13)
Apparently quite uncommon, but widespread taxa	Cyperus blakeanus, Euphorbia aff. australis type 1 (erect stems)
Locally common, moderately restricted, newly recognised taxa	Paspalidium tabulatum (Burrup form), Themeda sp. Burrup (B84)
Very uncommon, quite restricted, newly recognised taxa	Tephrosia aff. clementii (4) (M35-14), Euphorbia sp. (B170-4), Abutilon sp. Fortescue (M. Maier 28A-4), Sida aff. fibulifera (B64-13B)
Not uncommon where occurs, fairly restricted, newly recognised taxa	Fimbristylis aff. dichotoma (M75-4), Tephrosia aff. densa (B17)
Locally very common to abundant, moderately restricted, newly recognised taxa	Triodia angusta (Burrup form), Corchorus walcottii, Triodia epactia (Burrup form) Triumfetta appendiculate (Burrup form), Triodia wiseana (Burrup form), Euphorbia tannensis subsp. eremophila (Burrup form), Rhynchosia sp. Burrup (82-1C)
Species at or near their southern end of range and not common locally	Abutilon indicum var. australiense

Introduced Flora 4.1.4

No Declared weeds under the BAM Act have been previously recorded in the Study Area. Under the Environmental Weed Strategy for Western Australia (Department of Conservation and Land Management, 1999) weeds are rated according to three criteria:

- Invasiveness: ability to invade bushland in good to excellent condition or ability to invade waterways;
- Distribution: wide current or potential distribution including consideration of known history of widespread distribution elsewhere in the world; and
- Environmental Impacts ability to change the structure, composition and function of ecosystems. In particular an ability to form a monoculture in a vegetation community.

The rating of each weed is then given according to the following scoring system:

- High: a weed species would have to score yes for all three criteria. Rating a weed species as high would indicate prioritising this weed for control and / or research i.e. prioritising funding to it;
- Moderate: a weed species would have to score yes for two of the above criteria. Rating a weed species as moderate would indicate that control or research effort should be directed to it if funds are available, however it should be monitored (possibly a reasonably high level of monitoring);
- Mild: a weed species scoring one of the criteria. A mild rating would indicate monitoring of the weed and control where appropriate; and
- Low: a weed species would score none of the criteria. A low ranking would mean that this species would require a low level of monitoring.

Weeds species previously known from the Burrup Peninsula and their rating are:

•	*Aerva javanica - Kapok	High
•	*Cenchrus ciliaris - Buffel Grass	High
•	*Cenchrus setigerus - Birdwood Grass	High
•	*Cenchrus enchinatus - Mossman River Grass	Low
•	*Rumex vesciarius - Ruby Dock	High
•	*Stylosanthes hamata - Caribbean stylo	Mild
•	*Bidens bipinnata - Bipinnate Beggar-Ticks	TBA
•	*Euphorbia hirsuta - Strawberry Weed	Moderate
•	*Passiflora foetida - Wild Passionfruit	High
•	*Solanum nigrum - Nightshade	Moderate
•	*Chloris barbata - Purple-top chloris	Low
•	*Pennisetum setaceum - Fountain grass	Mild

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• *Malvastrum americanum – Spiked Malvastrum

Moderate

Trudgen *et al.* (2001) noted weed invasion of species not well established on the Peninsula which is occurring through the movement of seed on vehicles and establishing on roadsides. Some of these are native species that are very uncommon on the Burrup Peninsula but are appearing on roadsides and may become invasive. Three species of Acacia – *A. stellaticeps, A. trachycarpa* and *A. ancistrocarpa* are of noted as of concern for these reasons.

4.2 FIELD SURVEY

4.2.1 Survey Conditions

The post-wet season field survey followed the passage of Cyclone Veronica which crossed Karratha in March 2019. The Karratha Aero weather station (BOM station 00408310, 10 km to the south of the Survey Area) recorded 70 mm of rainfall associated with the passage of the cyclone. This rainfall created adequate post-wet season survey conditions.

4.2.2 Summary of the quadrat data

Fifty-nine detailed surveys were conducted within the Study Area. The field survey recorded 127 taxa, including species, subspecies and variants, from 34 Families. Three hundred and ninety taxa have been recorded for the Burrup Peninsula (Astron Environmental, 2005). Astron Environmental (2005) recorded 143 taxa from 44 families for Site C and the 'Site C and F amalgamation' zone that overlaps the current Study Area. As the Astron Environmental (2005) survey area was much larger and contained more vegetation associations than the current Study Area, it is not expected that the same level of floristic richness will be obtained from the Study Area.

A higher rainfall, closer to a seasonal long-term average, preceding the survey may have returned a greater number of total species present on the site. Given the knowledge available from previous surveys, however, the expected difference would be less than 5%. A higher rainfall may have had greater influence over the abundance of a small suite of ephemeral and short-lived perennial species recorded at each site, which were recorded in low densities in the present survey but at higher densities in previous surveys.

4.2.3 Floristic composition vegetation classification

Cluster analysis returned 12 groups of sites. The results of the cluster analysis are displayed as a dendrogram in Figure 4-3. The analysis broadly groups the survey sites based on their position in the landscape, as shown in Table 4-4 and Figure 4-4.

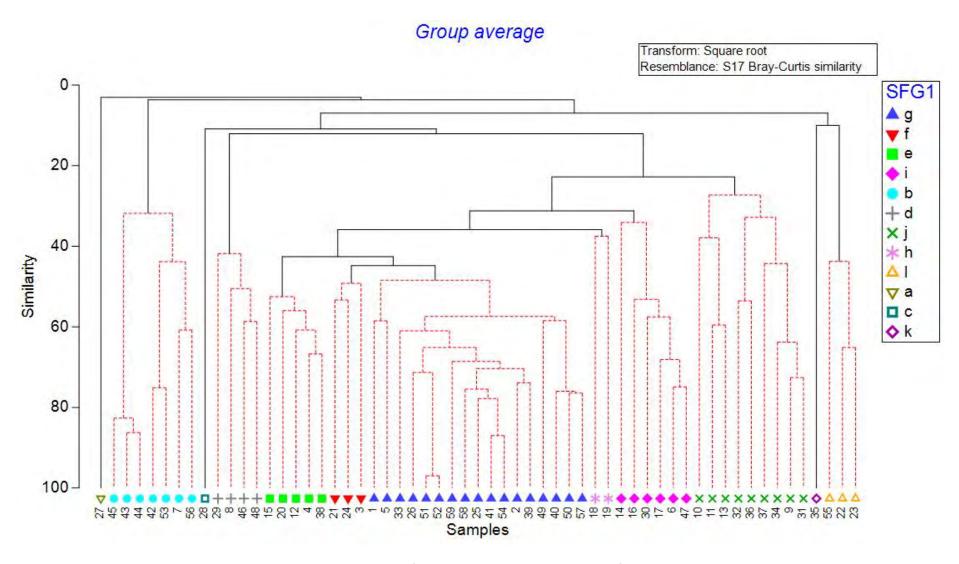
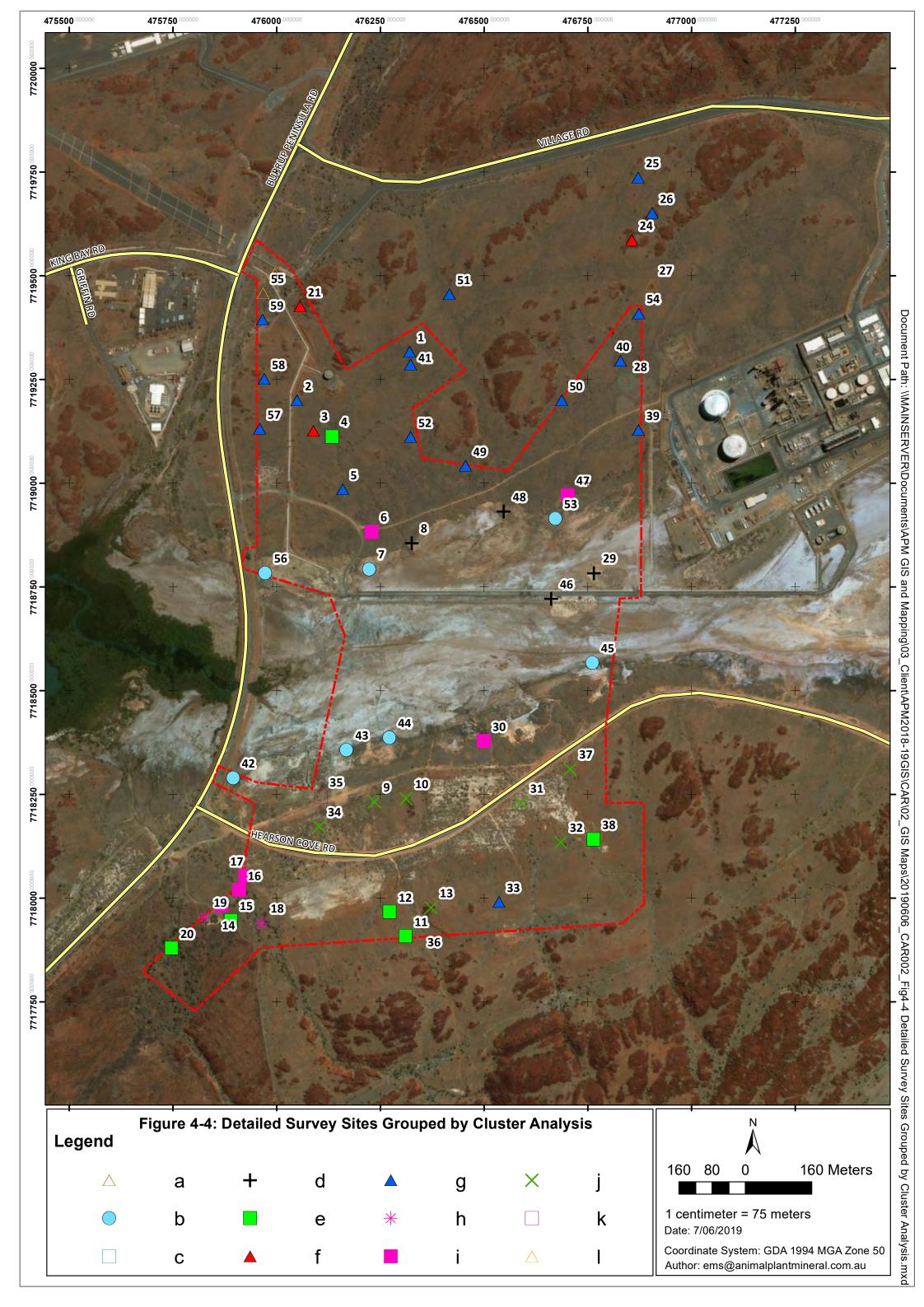


Figure 4-3: Cluster Analysis of the APM Vegetation Communities of the Study Area

Table 4-4: Groups of sites determined from Cluster analysis and their landscape position

CLUSTER group	Detailed Survey Sites	Landscape Position	CLUSTER group	Detailed Survey Sites	Landscape Position
a	27	Slope	g	50	upper slope
	7	Inlet		51	upper slope
	42	Sandbank		52	upper slope
	43	Inlet		54	lower slope
t.	44	Inlet		57	lower slope
b	45	Inlet		58	lower slope
	53	Sandbank		59	mid slope
	F.C	Canalland		18	lower slope
	56	Sandbank	h	19	lower slope
С	28	Lower slope		6	lower slope
	8	Sandbank		14	lower slope
d	29	Sandbank	:	16	lower slope
u	46	Sandbank	i	17	lower slope
	48	Sandbank		30	lower slope
	4	Shallow drainage		47	lower slope
	12	Lower slope		9	lower slope
e	15	Lower slope		10	outcrop
	20	Lower slope		11	outcrop
	38	Mid slope		13	outcrop
	3	Outcrop	j	31	rehabilitation
f	21	Outcrop		32	mid slope
	24	Outcrop		34	lower slope
				36	lower slope
	1	drainage		37	lower slope
	2 5	mid slope lower slope	k	35	Sandbank
	25	upper slope		22	drainage
_	26	outcrop	I	23	drainage
g	33	mid slope		55	drainage
	39	low rocky rise			
	40	slope			
	41 49	low rocky rise			
	43	lower slope			



4.2.4 Structural vegetation classification

Vegetation has been mapped using structural descriptions to the level of Association across the Study Area by M. E. Trudgen & Associates (2002), and across much of the northern and all of the central and southern sections of the Study Area by Astron Environmental (1999, 2005). As M. E. Trudgen & Associates (2002) mapped the region at the association scale, APM have prioritised retention of descriptions published in the 2002 report where they are still relevant. This is to facilitate impact assessment as many completed projects on the Burrup use the 2002 report associations which allows for calculation of cumulative impact. Astron Environmental (2005) provides a more detailed description and mapping of rocky outcrop and tidal inlet vegetation associations and has mapped the area of tidal inlet extensively beyond the current project. APM have prioritised retention of the 2005 report descriptions where relevant, to allow for calculations of local cumulative impact.

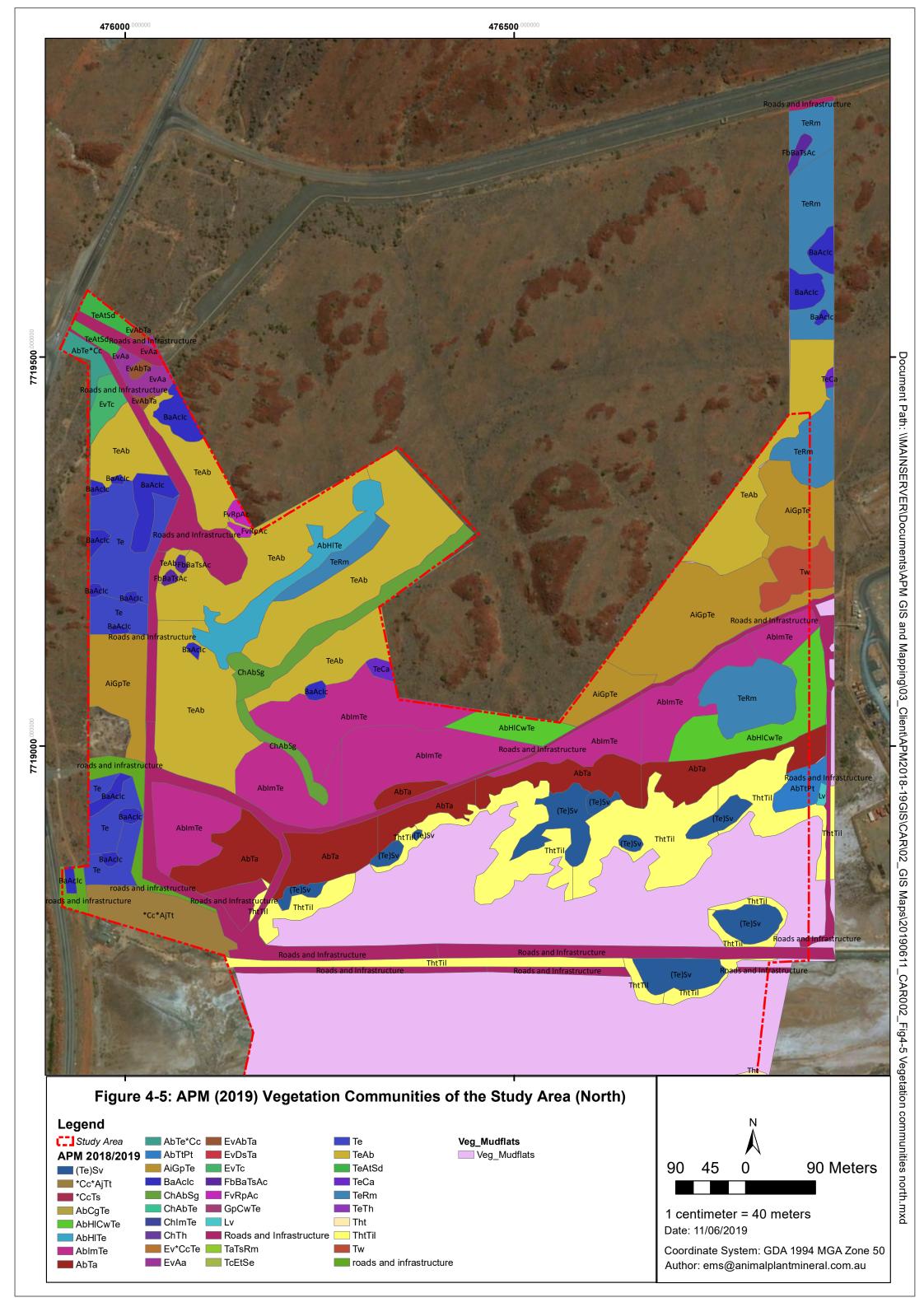
In a few situations neither the M. E. Trudgen & Associates (2002) or Astron Environmental (2005) mapping adequately described the vegetation present. Astron Environmental (2005) also noted discrepancies between the vegetation present in 2005 and that recorded by M. E. Trudgen & Associates (2002). It is considered that the vegetation of the Burrup Peninsula is highly dynamic as a consequence of the stochastic nature of the magnitude and frequency of rainfall events. The dominance of short-lived perennial species in the vegetation composition means there can be significant fluctuations in the structure and floristic composition of specific locations over time.

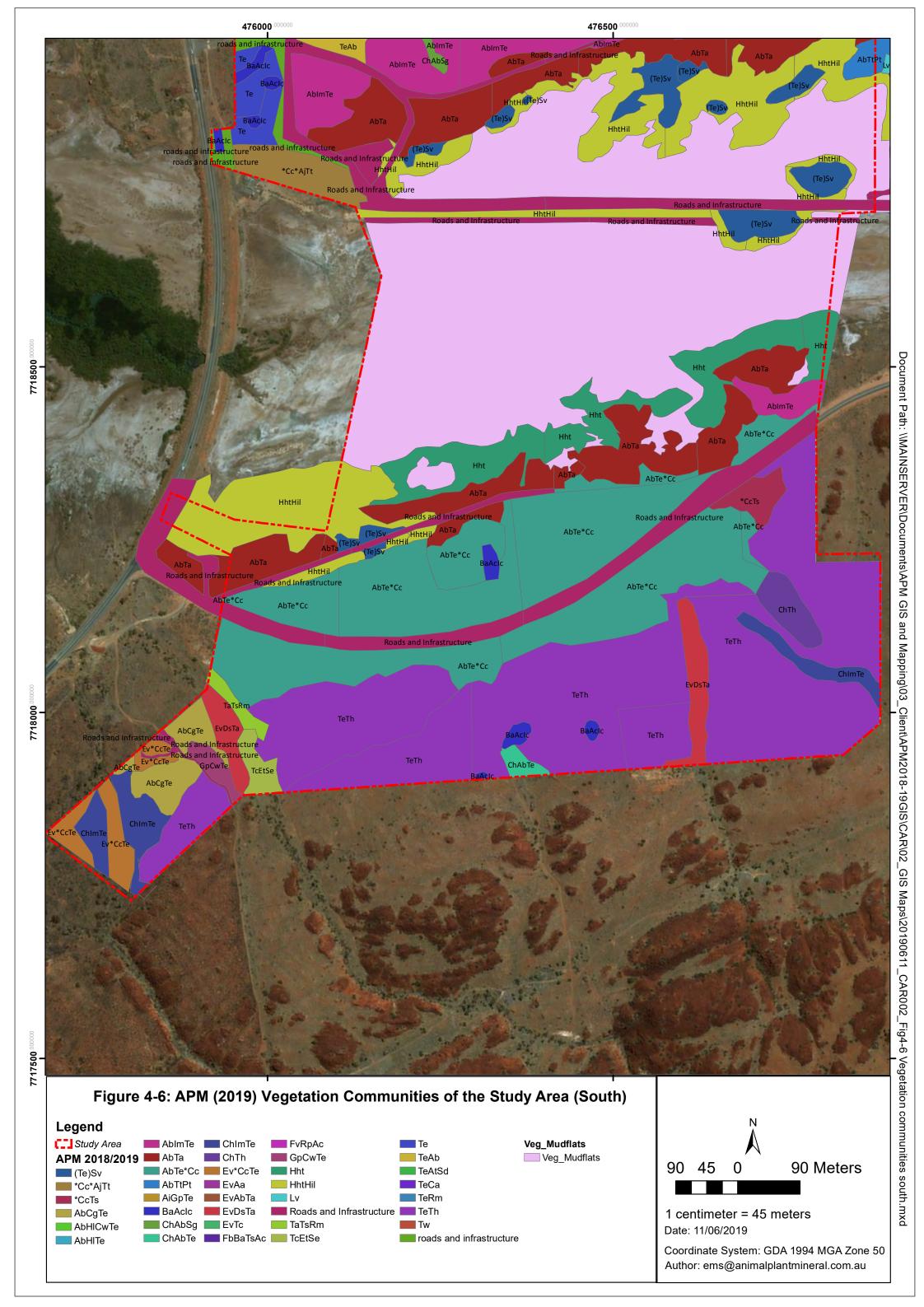
35 vegetation associations were mapped by APM at the Study Area. Each association and its abbreviation is listed in Table 4-5. The mapped locations of these associations within the Study Area are shown in Figure 4-5 (north section) and Figure 4-6 (south section). A species by site matrix is presented in Appendix I.

Table 4-5: APM Vegetation Associations and Abbreviations

Abbreviation	APM Vegetation Community Description		
	Grassland of Sporobolus virginicus, Eriachne mucronata and Paspalidium tabulatum (30-70%) with		
(Te)Sv	scattered <i>Triodia epactia</i> . Evidence that *Cenchrus ciliaris and *Aerva javanica are common in wet		
	season.		
*Cc*AjTt	*Cenchrus ciliaris, *Aerva javanica with Trianthema turgidifolia.		
*CcTs	*Cenchrus ciliaris, (Triodia epactia (BF)), (Triodia angusta (BF))grassland / hummock grassland with		
CCIS	Tephrosia supina (MET 12, 357), Rhynchosia cf. minima herbland		
AbCaTo	Acacia bivenosa, Cassia glutinosa open shrubland to shrubland over Triodia epactia (BF), *Cenchrus		
AbCgTe	ciliaris grassland		
AbHlCwTe	High shrubland of Acacia bivenosa with scattered Hakea lorea, Dolichandrone occidentalis, Grevillea		
ADHICWTE	pyramidalis over hummock grassland of Triodia epactia (Burrup form) with occasional Triodia angusta		
AbHlTe	Tall shrubland of Acacia bivenosa over open shrubland of Hakea lorea, Acacia colei over hummock		
ADHITE	grassland of Triodia epactia (Burrup form) over herbland.		
	Acacia bivenosa high open shrubland to high shrubland over Indigofera monophylla (BF) scattered low		
AbImTe	shrubs to low open shrubland over Triodia epactia (BF) hummock grassland to closed hummock		
	grassland		
AbTa	Acacia bivenosa high open shrubs over Triodia angusta (BF) hummock grassland		
AbTe*Cc	Previously disturbed and rehabilitated. Acacia bivenosa tall shrubland (30-70%, 2.5m) over Hummock		
Abre CC	Grassland of Triodia epactia (30-70%) with *Cenchrus ciliaris		
AbTtPt	High scattered (<2%) to very open shrubland (2-5%; 2m) A. bivenosa over low shrubland (10-30%; <1m)		
ADTIPL	Trianthema turgidifolia over tussock grassland (10-30%) of Paspalidium tabulatum		
	Tall shrubland of Acacia inaequilatera and Grevillea pyramidalis over hummock grassland of Triodia		
AiGpTe	epactia (Burrup form) over herbland of Gomphrena cunninghamii, Abutilon lepidum, Trichodesma		
	zeylanicum, Trachymene oleracea		
	Open low woodland of Brachychiton acuminatus over mixed shrubland of Acacia coriacea, Scaevola aff		
BaAcIc	spinescens, Ipomoea costata over herbs and very open grassland of Triodia epactia (Burrup form) with		
	Cymbopogon ambiguus and Paspalidium clementii		

	Corymbia hamersleyana low open woodland over Acacia bivenosa high open shrubland over
ChAbSg	Dichrostachys spicata scattered shrubs over Stemodia grossa low shrubland to low open heath over
	Triodia epactia (Burrup form) hummock grassland
	Corymbia hamersleyana scattered low trees to low open woodland over (Acacia bivenosa, Acacia
ChImTe	coriacea subsp. coriacea) scattered tall shrubs over (Dichrostachys spicata) scattered shrubs over
	Indigofera monophylla (BF)
	Corymbia hamersleyana scattered low trees to low woodland over Acacia bivenosa, Acacia colei,
ChTh	scattered tall shrubs to low open shrubland over <i>Indigofera monophylla</i> over <i>Triodia epactia</i> , <i>Themeda</i>
	sp. Burrup hummock / tussock grassland
	Eucalyptus victrix low open woodland to low woodland over (Pittosporum phillyreoides var.
Ev*CcTe	phillyreoides, Rhagodia eremaea high shrubs to shrubs) over *Cenchrus ciliaris, Triodia epactia (BF)
	tussock/hummock grassland
EvAa	Eucalyptus victrix scattered low trees to low open woodland over Acacia bivenosa scattered tall shrubs
LVAa	to high open shrubland over <i>Triodia angusta</i> (Burrup form) hummock grassland
EvAbTa	Eucalyptus victrix scattered low trees to low open woodland over Acacia bivenosa scattered tall shrubs
EVADIA	to high open shrubland over <i>Triodia angusta</i> (Burrup form) hummock grassland
	Eucalyptus victrix scattered low trees to low open woodland over Dichrostachys spicata, (Acacia
EvDsTa	coriacea subsp. coriacea) tall scattered shrubs to low open shrubland over Triodia angusta (BF)
	hummock grassland
EvTc	Eucalyptus victrix and Terminalia circumulata over Acacia coriacea with Cyperus vaginatus, Cenchrus
EVIC	ciliaris and Passiflora foetida
	Open low woodland of Ficus brachypoda, Brachychiton acuminatus, Terminalia supranitifolia over
FbBaTsAc	mixed shrubland of Acacia coriacea, Scaevola aff spinescens, Rhagodia preissii subsp obovata over open
	Cymbopogon ambiguus with Triodia epactia (Burrup form).
	Shrubland of Flueggea virosa subsp. melanthesoides, Rhagodia preissii subsp. obovata, Alectryon
FvRpAc	oleifolius subsp. oleifolius, Scaevola aff. spinescens, Acacia coriacea over very open Triodia epactia
	(Burrup form)
GpCwTe	Grevillea pyramidalis subsp. pyramidalis open heath over Corchorus walcottii scattered low shrubs to
оронс	low open heath over <i>Triodia epactia</i> (BF) hummock grassland
Lv	Dwarf Shrubland over Low Open Grassland On slightly elevated sandy silts or fringes of inlet
TaTsRm	Triodia angusta (BF) Triodia epactia grassland with Tephrosia aff. supina (MET 12,375) herbland and
14151111	Rhynchosia cf. minima lianes
TcEtSe	Terminalia canescens low woodland over Eriachne tenuiculmis, Triodia epactia (BF)
. 02100	grassland / hummock grassland with Sesbania cannabina herbland
Te	Triodia epactia (BF) hummock grassland
TeAb	Triodia epactia (BF) hummock grassland with scattered Acacia bivenosa shrubs
TeAtSd	(previously disturbed) Scattered Acacia trachycarpa over Triodia epactia hummock grassland with
Tertiou	Streptaglossa decurrens herbfield
TeCa	Triodia epactia (BF), Cymbopogon ambiguus hummock / tussock grassland
TeRm	Triodia epactia (BF) hummock grassland with Rhynchosia cf. minima lianes
TeTh	Triodia epactia (BF), Themeda sp. Burrup (B84) hummock / tussock grassland
Tht	Open (2%) to dwarf shrubland (10-20%; <0.5m) of <i>Tecticornia halocnemoides</i> subsp. <i>tenuis</i> with
1110	occasional (2%) Tecticornia pruinosa, Tecticornia indica subsp. leiostachya, Trianthema turgidifolia.
ThtTil	Dwarf open shrubland to heath (varies from 2-10% to 20-40%; <0.5m) of Tecticornia halocnemoides
	subsp. tenuis with Tecticornia indica subsp. leiostachya
Tw	Triodia wiseana hummock grasslands





The vegetation associations recorded by APM for the Study Area organised by Formation Code (e.g. 10.4.2; Type 1 as appears in the original publications) and Formation Description are:

- **10.4.2** Eucalyptus victrix scattered low trees, low open woodlands and low woodlands. These vegetation associations occur in small shallow creek lines that are dry for much of the year. There are no rockpools associated with this vegetation type in the Study Area.
- EvDsTa *Eucalyptus victrix* scattered low trees to low open woodland over *Dichrostachys spicata*, (*Acacia coriaceae* subsp. coriaceae) tall scattered shrubs to low open shrubland over *Triodia angusta* (BF) hummock grassland
- Ev*CcTe Eucalyptus victrix low open woodland to low woodland over (Pittosporum phylliraeoides var. phylliraeoides, Rhagodia eremaea high shrubs to shrubs) over *Cenchrus ciliaris, Triodia epactia (BF) tussock/hummock grassland
- EvAbTa Eucalyptus victrix scattered low trees to low open woodland over Acacia bivenosa scattered tall shrubs to high open shrubland over Triodia angusta (Burrup form) hummock grassland
- EvAa Eucalyptus victrix low woodland over Acacia ampliceps open heath over Cyperus vaginatus, Eriachne tenuiculmis, Triodia angusta (Burrup form) sedgeland and tussock/hummock grassland

10.4.5 Corymbia hamersleyana scattered low trees to low woodlands.

- ChImTe Corymbia hamersleyana scattered low trees to low open woodland over (Acacia bivenosa, Acacia coriaceae subsp. coriaceae) scattered tall shrubs over (Dichrostachys spicata) scattered shrubs over Indigofera monophylla (BF)
- ChTh Corymbia hamersleyana scattered low trees to low woodland over Acacia bivenosa, Acacia colei, scattered tall shrubs to low open shrubland over Indigofera monophylla over Triodia epactia, Themeda sp. Burrup hummock/tussock grassland
- ChAbTe *Corymbia hamersleyana* scattered trees to low open woodland over *Acacia bivenosa* open shrubland over *Triodia epactia* (Burrup form) open to closed hummock grassland
- ChAbSg Corymbia hamersleyana low open woodland over Acacia bivenosa high open shrubland over Dichrostachys spicata scattered shrubs over Stemodia grossa low shrubland to low open heath over Triodia epactia (Burrup form) hummock grassland. Stemodia grossa was present in lower abundance due to late wet season rainfall, but a large number of juvenile plants were observed.

10.4.7 Terminalia circumulata scattered low trees to low forest

TcEtSe *Terminalia circumulata* low woodland over *Eriachne tenuiculmis, Triodia epactia* (BF) grassland/hummock grassland with *Sesbania cannabina* herbland. *Sesbania cannabina* was less abundant in 2018/19 than described by Trudgen and Associates 2002, likely due to seasonal conditions.

10.4.13 Grevillea pyramidalis subsp. pyramidalis scattered shrubs to high shrublands

GpCwTe *Grevillea pyramidalis* subsp. pyramidalis open heath over *Corchorus walcottii* scattered low shrubs to low open heath over *Triodia epactia* (BF) hummock grassland. *Corchorus walcottii* was not recorded in the 2018/19 survey, however that may be as a result of seasonal conditions.

10.4.18 Acacia bivenosa (with various other species) scattered shrubs to high shrubland

- AbTe*Cc Acacia bivenosa tall shrubland (30-70%, 2.5m) over Hummock Grassland of *Triodia epactia* (30-70%) with *Cenchrus ciliaris. All areas mapped as this unit are previously disturbed.
- AbTa Acacia bivenosa high open shrubs over Triodia angusta (BF) hummock grassland
- AbCgTe Acacia bivenosa, Senna glutinosa subsp. glutinosa (formerly Cassia glutinosa) open shrubland to shrubland over Triodia epactia (BF), *Cenchrus ciliaris grassland. Senna glutinosa subsp. glutinosa was less abundant in 2018/19 than described by Trudgen, however that is likely a consequence of seasonal conditions, and as such, the original description is retained.
- AbImTe Acacia bivenosa high open shrubland to high shrubland over Indigofera monophylla (BF) scattered low shrubs to low open shrubland over Triodia epactia (BF) hummock grassland to closed hummock grassland

10.4.28 Hummock grasslands, hummock/tussock grasslands

- TaTsRm *Triodia angusta* (BF) *Triodia epactia* grassland with *Tephrosia* aff. *supina* (MET 12,375) herbland and *Rhyncosia* cf. *minima lianes*
- Te *Triodia epactia* (BF) hummock grassland. Found on plateaus and upper slopes where the soils are red brown loam with pebbles. Associated species include *Grevillea pyramidalis* subsp. *pyramidalis* and *Indigofera monophyla*.
- TeAb Triodia epactia (BF) hummock grassland with scattered Acacia bivenosa shrubs
- TeCa Triodia epactia (BF), Cymbopogon ambiguus hummock/Tussock grassland
- TeTh Triodia epactia (BF), Themeda sp. Burrup (B84) hummock/tussock grassland. The Themeda collected was identified as Themeda triandra and was in lower abundance in 2018/19 than described by Trudgen and Associates 2002. The nomenclature is due to taxonomic revision and the abundance is likely a result of climatic conditions.
- TeRm Triodia epactia (BF) hummock grassland with Rhynchosia cf. minima lianes
- Tw Triodia wiseana hummock grasslands

10.4.29 Tussock grasslands and tussock/hummock grasslands

- (Te)Sv Sporobolus virginicus tussock grassland: Recorded on the edge of mud and tidal flats in soil of brown sandy loam with shell fragments. This unit varies to include *Triodia epactia* and *Eragrostis falcata* grassland.
- *CcTs *Cenchrus ciliaris, (Triodia epactia (BF)), (Triodia angusta (BF))grassland/hummock grassland with Tephrosia aff. supina (MET 12, 357), Rhyncosia cf. minima herbland
- Astron 2005 Type 1 Mixed open shrubland over low open shrubland of *Tephrosia* aff *supina/Indigofera* monophylla over hummock grassland of *Triodia epactia* (Burrup form).
- AbHICwTe High shrubland of *Acacia bivenosa* with scattered *Hakea lorea, Dolichandrone occidentalis, Grevillea pyramidalis* over hummock grassland of *Triodia epactia* (Burrup form) with occasional *Triodia angusta*. The distribution of this vegetation community mapped in 2018/19 is significantly less than Astron 2005, with the surrounding vegetation descriptions in 2018/19 retaining those mapped by Trudgen and Associates 2002.

- AiGpTe Tall shrubland of *Acacia inaequilatera* and *Grevillea pyramidalis* over hummock grassland of *Triodia epactia* (Burrup form) over herbland of *Gomphrena cunninghamii, Abutilon lepidum, Trichodesma zeylanicum, Trachymene oleracea*
- Astron 2005 Type 2 Low (pocket) woodland of *Terminalia supranitifolia*, *Brachychiton acuminatus*, *Ficus brachypoda* over open low shrubland of *Dichrostachys spicata*, *Ipomoea costata* over very open grassland of *Cymbopogon ambiguus*, *Triodia epactia* (Burrup form).
- BaAcıc Open low woodland of *Brachychiton acuminatus* over mixed shrubland of *Acacia coriacea, Scaevola* aff spinescens, Ipomoea costata over herbs and very open grassland of *Triodia epactia* (Burrup form) with Cymbopogon ambiguus and Paspalidium clementii
- FbBaTsAc Open low woodland of *Ficus brachypoda, Brachychiton acuminatus, Terminalia supranitifolia* over mixed shrubland of *Acacia coriacea, Scaevola* aff *spinescens, Rhagodia preissii* subsp *obovate* over open *Cymbopogon ambiguus* with *Triodia epactia* (Burrup form). Note, no *Terminalia supranitifolia* (*P3*) present inside the survey boundary.
- FvRpAc Shrubland of *Flueggea virosa* subsp *melanthesoides, Rhagodia preissii* subsp *obovata, Alectryon oleifolius* subsp *oleifolius, Scaevola* aff *spinescens, Acacia coriacea* over very open *Triodia epactia* (Burrup form)
- Astron 2005 Type 4 Shrubland of Acacia inaequilatera/Hakea lorea/Acacia bivensoa over low shrubland of Indigofera monophylla/Triumfetta appendiculate (Burrup form) over hummock grassland of Triodia epactia (Burrup form) and Cymbopogon ambiguus.
- AbHITe Tall shrubland of *Acacia bivenosa* over open shrubland of *Hakea lorea, Acacia colei* over hummock grassland of *Triodia epactia* (Burrup form) over herbland.
- Astron 2005 Samphire Vegetation Group 2 Dwarf Shrubland over Low Open Grassland On slightly elevated sandy silts or fringes of inlet
- HhtHil Dwarf open shrubland to heath (varies from 2-10% to 20-40%; <0.5m) of *Tecticornia halocnemoides* subsp. *tenuis* with *Tecticornia indica* subsp. *leiostachya*.
- Hht Open (2%) to dwarf shrubland (10-20%; <0.5m) of *Tecticornia halocnemoides* subsp. *tenuis* with occasional (2%) *Tecticornia pruinosa, Tecticornia indica* subsp *leiostachya, Trianthema turgidifolia*. Occurs along southern border of inlet, with stony mantle and is interrupted by "fingers" of *Triodia angusta* (Burrup form) grassland.

Astron 1999 Unit 4 Drainage Lines and Gully Floors

- 4a Low Woodland-Forest B (20-50%) of *Terminalia circumulata* and *E. victrix* with Low Scrub B (10-30%, 1-1.5m) and Open Grassland (10-30%).
- APM Detailed survey Vegetation Associations not adequately described by M. E. Trudgen & Associates (2002) and Astron Environmental (1999, 2005):
- *Cc*AjTt Tussock grassland of *Cenchrus ciliaris, herbland of *Aerva javanica and dwarf open shrubland of Trianthema turgidifolia on disturbed land.
- Lv Dwarf open shrubland of *Lawrencia viridigrisea* (30-70%; 0.3 m)
- TeAtSd (Previously disturbed) Scattered *Acacia trachycarpa* over *Triodia epactia* hummock grassland with *Streptaglossa decurrens* herbfield.

Table 4-6 lists the vegetation associations recorded by APM at the Study Area and compares them to those mapped by M. E. Trudgen & Associates (2002) and Astron Environmental (2005).

Table 4-6: Vegetation Associations Recorded by APM at the Study Area Compared with those Mapped by Astron Environmental (2005) and M. E. Trudgen & Associates (2002).

Polygon ID	APM 2019	Trudgen and Associates (2002)	Astron (1999, 2005)
43	(Te)Sv	(Te)Sv	1999 5a
44	(Te)Sv	Sv	1999 5a
47	(Te)Sv	Sv	1999 5a
61	(Te)Sv	(Te)Sv	HdHhtSv
64	(Te)Sv	(Te)Sv	HdHhtSv
55	(Te)Sv	(Te)Sv	HdHhtSv
105	(Te)Sv	(Te)Sv	AbTtWa
106	(Te)Sv	(Te)Sv	AbTtWa
108	(Te)Sv	(Te)Sv	HdHhtSv
109	(Te)Sv	(Te)Sv	HdHhtSv
125	(Te)Sv	(Te)Sv	AbTtWa
130	(Te)Sv	(Te)Sv	ScWa
161	*Cc*AjTt	D	not mapped
11	*CcTs	*CcTs	1999 ба
27	AbCgTe	AbCgTe	1999 3b
35			1999 3a
37	AbCgTe	AbCgTe	
	Abulcuta	Ablanta	1999 3c
133	Abulcuta	AblasTa	AbHICWTe
159	AbHlCwTe	AbimTe	AbHlCwTe
85	AbHlTe	AbCwTe	4b. AbHITe
54	AbImTe	AbimTe	1999 3b
60	AbImTe	Ablm/TeRm	not mapped
73	AbImTe	AbImTe	1e + dolhet: AbHlCwTe
77	AbImTe	AbImTe	1e + dolhet: AbHlCwTe
78	AbImTe	AbImTe	1e + dolhet: AbHlCwTe
80	AbImTe	AbImTe	1e + dolhet: AbHlCwTe
86	AbImTe	AbImTe	1e + dolhet: AbHlCwTe
87	AbImTe	AbImTe	1e + dolhet: AbHlCwTe
16	AbTa	ItTa/AbTa	AbTa
18	AbTa	ItTa/AbTa	1999 3b
41	AbTa	Sm/*Cc/D	1999 5a
48	AbTa	ItTa/AbTa	AbTa
50	AbTa	ItTa	AbTa
52	AbTa	ItTa	AbTa
45	AbTa	ItTa	AbTa
51	AbTa	AbTa	not mapped
68	AbTa	AbTa	1e + dolhet: AbHlCwTe
69	AbTa	AbTa	1e + dolhet: AbHlCwTe
71	AbTa	AbTa	1e + dolhet: AbHlCwTe
75	AbTa	AbTa	1e + dolhet: AbHlCwTe
112	AbTa	AbTa	1g: AiAbTe
145	AbTa	Sv	AbTa
158	AbTa	AbTa	1999 5a
166	AbTe*Cc	D	not mapped
10	AbTe*Cc	TeTh	1999 6a
12	AbTe*Cc	D	1999 6a/6b
13	AbTe*Cc	D	1999 3a
15	AbTe*Cc	AbWaTe	1999 4b
19	AbTe*Cc	D	1999 3a
40	AbTe*Cc	D	1999 5a
42	AbTe*Cc	*Cc	1999 6b

Polygon ID	APM 2019	Trudgen and Associates (2002)	Astron (1999, 2005)
49	AbTe*Cc	D	
53	AbTe*Cc	D	
136	AbTe*Cc	D	not mapped
129	AbTa	(Te)Sv	AbAeTe
115	AiGpTe	TeRm	AiGpTe
116	AiGpTe	AbImTe	1a/1c
135	AiGpTe	TeRm	AiGpTe
162	AiGpTe	TeAb	not mapped
6	FbBaTsAc	R	1999 1a
14	FbBaTsAc	R	1999 1a
88	BaAclc	R	not mapped
95	BaAcic	R	not mapped
122	BaAcic	R	2a BaAclc
123	BaAcic	R	not mapped
124	BaAcic	R	not mapped
1	FbBaTsAc	R	1999 1a
5	BaAcic	R	not mapped
156	BaAcic	TeRm	2a BaAclc
167	BaAcic	R	not mapped
168	BaAclc	R	not mapped
169	BaAclc	R	not mapped
170	BaAcic	R	not mapped
171	BaAclc		not mapped
172	BaAclc		not mapped
173	BaAclc		not mapped
179	BaAclc	D	not mapped
180	BaAclc	AbImTe	not mapped
181	BaAclc	AbImTe	not mapped
182	BaAclc	AbImTe	not mapped
79	ChAbSg	AbImTe	not mapped
81	ChAbSg	ChAbSg	3e: ChDsSgTe
7	ChAbTe	TeTh	1999. 4c
134	ChlmTe	TeTh	1999. 4c
38	ChlmTe	ChImTe	1999 4b
188	ChlmTe	ChImTe	1999 2a
2	ChTh	ChTh	1999 2b
31	Ev*CcTe	Ev*CcTe	1999 3b
36	Ev*CcTe	Ev*CcTe	1999 3a
187	Ev*CcTe	Ev*CcTe	1999 4b
189	Ev*CcTe	Ev*CcTe	1999 4b
97	EvAa	EvAbTa	Not mapped
100	EvAa	EvAa	Not mapped
103	EvAa	EvAa	not mapped
96	EvAbTa	EvAbTa	not mapped
98	EvAbTa	EvAbTa	not mapped
99	EvAbTa	EvAbTa	not mapped
3	EvDsTa	EvDsTa	1999. 4c
26	EvDsTa	EvDsTa	1999 4b
160	19994a	EvAbTa	not mapped
83	FbBaTsAc	R	2c FbBaTsAc
84	FbBaTsAc	R	2c FbBaTsAc
148	FbBaTsAc	R	2a BaAcIc
89	FvRpAc	R	2b FvRpAc
90	FvRpAc	R	2b FvRpAc
32	GpCwTe	GpCwTe	1999 3d
140	Tht	Sam	Hht
141	Tht	Sam	Hht

Polygon ID	APM 2019	Trudgen and Associates (2002)	Astron (1999, 2005)
142	Tht	Sam	Hht
143	Tht	Sam	Hht
144	Tht	Sam	Hht
46	ThtTil	Sv	1999 5a
62	ThtTil	Sam	HhtHil
63	ThtTil	Sam	HhtHil
65	ThtTil	Sam	HhtHil
66	ThtTil	Sam	HhtHil
107	ThtTil	Sam	BMF
110	ThtTil	Sam	HhtHil
76	ThtTil	Sam	HdHhtSv
126	ThtTil	Sam	HdHhtSv
128	ThtTil	Sam	HdHhtSv
131	ThtTil	Sam	HdHhtSv
132	ThtTil	Sam	HdHhtSv
139	ThtTil	Sam	Hht
146	ThtTil	Sm/Sv	1999 5a
147	ThtTil	Sam	1999 5a
186	ThtTil	Mud Flat	Mud Flat
138	Lv	APM new	AbAeTe
9	Roads and Infrastructure	Roads and Infrastructure	Roads and Infrastructure
17	Roads and Infrastructure	Roads and Infrastructure	Roads and Infrastructure
20	Roads and Infrastructure	Hearson Cove Road	Roads and Infrastructure
23	Roads and Infrastructure	Hearson Cove Road	Roads and Infrastructure
28	Roads and Infrastructure	Munjugura NP Road	not mapped
29	Roads and Infrastructure	Munjugura NP Camp area	not mapped
30	Roads and Infrastructure	Ev*CcTe	not maped
39	Roads and Infrastructure	D	1999 5a
34	Roads and Infrastructure	Infrastructure	
56	Roads and Infrastructure	D	not mapped
70	Roads and Infrastructure	Road	
58 67	Roads and Infrastructure Roads and Infrastructure	Pipeline	
72	Roads and Infrastructure	Infrastructure Pipeline	
74	Roads and Infrastructure	Infrastructure pipeline and road	
111	Roads and Infrastructure	Road	
113	Roads and Infrastructure	Road and infrastructure	
149	Roads and Infrastructure	road and pipeline	
150	Roads and Infrastructure	road	
151	Roads and Infrastructure	road	
152	Roads and Infrastructure	road	
153	Roads and Infrastructure	road	
155	Roads and Infrastructure	road	
174	roads and infrastructure	roads and infrastructure	not mapped
176	roads and infrastructure	AbImTe	
177	roads and infrastructure	roads and infrastructure	not mapped
178	roads and infrastructure	roads and infrastructure	not mapped
24	TaTsRm	TaTsRm	1999 3b
25	TcEtSe	TcEtSe	1999 4a
164	Te	TeAb	not mapped
165	Te	TeAb	not mapped
183	Te	AbImTe	not mapped
184	Te	AbImTe	not mapped
185	Te	AblmTe	not mapped
57	TeAb	TeAb	1c: AbTe
59	TeAb	TeAb	1b: TeCa
91	TeAb	TeAb	1c: AbTe

Polygon ID	APM 2019	Trudgen and Associates (2002)	Astron (1999, 2005)	
93	TeAb	TeAb	1c: AbTe	
94	TeAb	TeAb	1c: AbTe	
104	TeAb	TeAb	1a GpAbTe	
119	TeAb	TeAb	1b: TeCa	
163	TeAb	TeAb	not mapped	
101	TeAtSd	D	not mapped	
102	TeAtSd	D	not mapped	
82	TeCa	TeCa	1b: TeCa	
121	TeCa	TeCa	1b: TeCa	
120	TeRm	TeRm	1b: TeCa	
127	TeRm	TeRm	TeCa	
157	TeRm	TeAb	1a GpAbTe	
4	TeTh	D	1999 2b	
8	TeTh	TeTh	1999 2b	
21	TeTh	TeTh	1999 2a	
33	TeTh	TeTh	1999 2a	
137	TeTh	D	not mapped	
92	Tw	Tw	1b	
114	TeRm	TeRm	1g: AiAeTe	

4.2.5 Conservation Significant Ecological Communities

26 rocky outcrops were identified in the APM survey that constitute the PEC:

Burrup Peninsula rock pile communities. Priority 1: Pockets of vegetation in rock piles, rock pockets and outcrops. Comprise a mixture of Pilbara and Kimberley species, communities are different from those of the Hamersley and Chichester Ranges. Short-range endemic land snails. Threats: industrial development dust emissions. Weed invasion including *Cenchrus ciliaris (Buffel Grass) and *Passiflora foetida (stinking passionflower)

The locations of these are displayed in Figure 4-7. Vegetation associations of conservation significance using the M. E. Trudgen & Associates (2002) classification that occur in the Study Area are listed in Table 4-7.

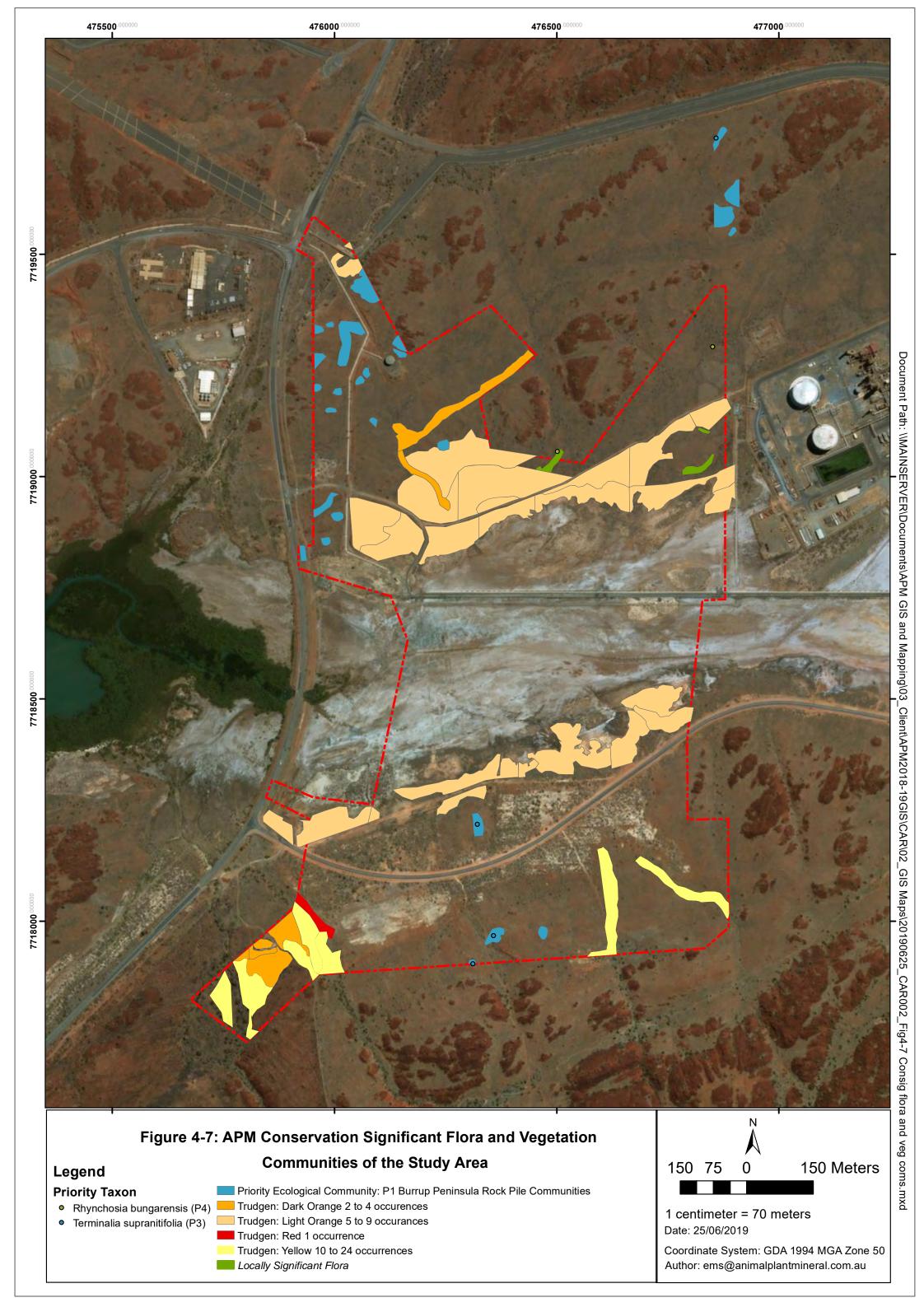


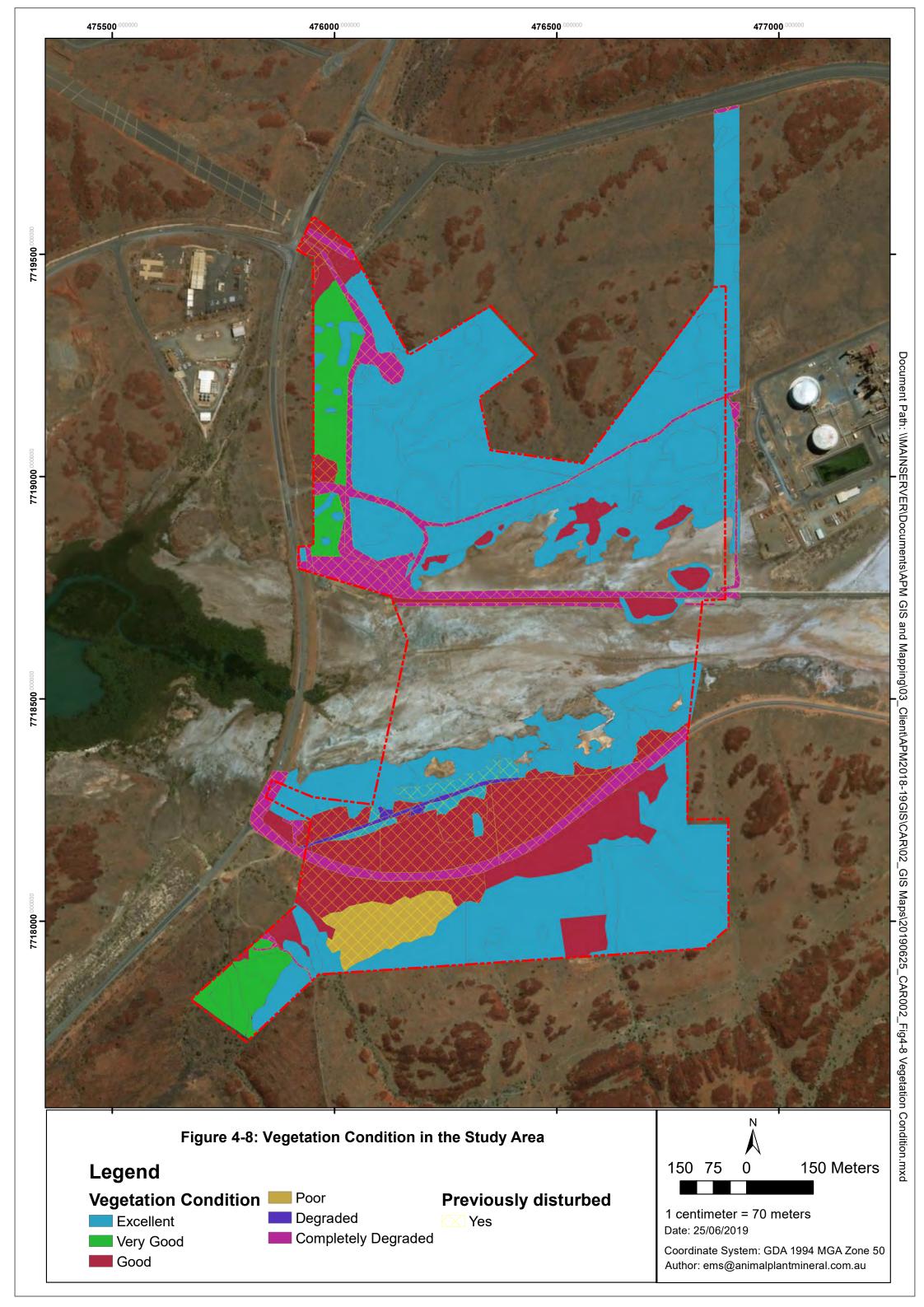
Table 4-7: Vegetation Associations that Occur in the Study Area that May Have Local Conservation Significance according to the Classification System devised by M. E. Trudgen & Associates (2002)

APM 2018 vegetation mapping code	Association Description	M. E. Trudgen & Associates (2002) Significance Rating
TaTsRm	Triodia angusta (BF) Triodia epactia grassland with Tephrosia aff. supina (MET 12,375) herbland and Rhyncosia cf. minima lianes	Red 1 occurrence
AbCgTe	Acacia bivenosa, Cassia glutinosa open shrubland to shrubland over Triodia epactia (BF), *Cenchrus ciliaris grassland	Dark Orange 2 to 4 occurrences
ChAbSg	Corymbia hamersleyana low open woodland over Acacia bivenosa high open shrubland over Dichrostachys spicata scattered shrubs over Stemodia grossa low shrubland to low open heath over Triodia epactia (Burrup form) hummock grassland	Dark Orange 2 to 4 occurrences
Ev*CcTe	Eucalyptus victrix low open woodland to low woodland over (Pittosporum phylliraeoides var. phylliraeoides, Rhagodia eremaea high shrubs to shrubs) over *Cenchrus ciliaris, Triodia epactia (BF) tussock/hummock grassland	Dark Orange 2 to 4 occurrences
EvAa	Eucalyptus victrix low woodland over Acacia ampliceps open heath over Cyperus vaginatus, Eriachne tenuiculmis, Triodia angusta (Burrup form) sedgeland and tussock/hummock grassland	Light Orange 5 to 9 occurrences
AbImTe	Acacia bivenosa high open shrubland to high shrubland over Indigofera monophylla (BF) scattered low shrubs to low open shrubland over Triodia epactia (BF) hummock grassland to closed hummock grassland	Light Orange 5 to 9 occurrences
AbTa	Acacia bivenosa high open shrubs over Triodia angusta (BF) hummock grassland	Light Orange 5 to 9 occurrences
ChImTe	Corymbia hamersleyana scattered low trees to low open woodland over (Acacia bivenosa, Acacia coriaceae subsp. coriaceae) scattered tall shrubs over (Dichrostachys spicata) scattered shrubs over Indigofera monophylla (BF)	Yellow 10 to 24 occurrences
EvDsTa	Eucalyptus victrix scattered low trees to low open woodland over Dichrostachys spicata, (Acacia coriaceae subsp. coriaceae) tall scattered shrubs to low open shrubland over Triodia angusta (BF) hummock grassland	Yellow 10 to 24 occurrences
GpCwTe	Grevillea pyramidalis subsp. pyramidalis open heath over Corchorus walcottii scattered low shrubs to low open heath over Triodia epactia (BF) hummock grassland	Yellow 10 to 24 occurrences
TcEtSe	Terminalia circumulata low woodland over Eriachne tenuiculmis, Triodia epactia (BF) grassland/hummock grassland with Sesbania cannabina herbland	Yellow 10 to 24 occurrences

Additionally, the area mapped by APM as AbHlCwTe contains *Dolichandrone occidentalis* (formerly *occidentalis*). Astron Environmental (2005) notes that this locality is the only known occurrence of *Dolichandrone occidentalis* on the Burrup Peninsula. The densest population areas lie to the north west of the APM mapped area and are not within the Study Area. The density of *Dolichandrone occidentalis* within the APM mapped area is scattered shrubs, whereas in the areas outside of the Study Area the species is a canopy dominant. The species also has a large distribution across the tropical regions to the east and north (Atlas of Living Australia, 2018). The Burrup Peninsula is close to the westernmost distribution of this species. The most western occurrence of the species is in the Barrow Island Class A Reserve (Atlas of Living Australia, 2018).

4.2.6 Vegetation Condition

Vegetation ranges from Excellent condition to Completely Degraded. Vegetation condition is displayed in Figure 4-8. Areas classified as completely degraded contain roads and infrastructure and are maintained in a vegetation free state. One narrow area in the south western part of the Study Area has been classified as Degraded condition. This is a rehabilitated road that has not returned to a good cover or diversity of vegetation.



The area classified as in Poor condition in the south of the Study Area contains the vegetation association TeTh. This area is previously disturbed and rehabilitated and large shelly lens in close proximity to the surface has been exposed during the rehabilitation process which provides poor quality soil and has slowed the rehabilitation trajectory in this area. Although it has a reasonable abundance of *Triodia epactia* the cover and diversity of plants is lower than would be expected under undisturbed conditions. The time since rehabilitation indicates the area is unlikely to regain pre-disturbance structure without further intervention. There is also a presence of the aggressive weed *Cenchrus ciliaris.

A number of areas have been designated in Good condition. These are distributed across the Study Area. The large areas to the south surrounding Hearson Cove Road are previously disturbed and rehabilitated and although there is also some poorer quality subsoils present at the surface, there is a reasonable diversity of species and a high abundance of plants in multiple strata. The introduced species *Cenchrus ciliaris and / or *Aerva javanica were found in these areas. Smaller areas designated Good condition are generally undisturbed or near to a disturbance (such as a road or pipeline corridor) and have significant infestations of the introduced species *Cenchrus ciliaris, *Aerva javanica and *Passiflora foetida.

Areas in the vegetation fringing the tidal inlet have been classified as Good Condition in par due to the presence of *Cenchrus ciliaris and *Aerva javanica but also due to the lower species diversity recorded there than by Astron (2005). Astron (2005) considered changes to the surface flow conditions caused by the pipeline infrastructure to be impacting the health of the vegetation in these areas, and the lower species diversity recorded by APM confirm this.

Areas designated in Very Good condition have vehicle tracks or other infrastructure nearby that are causing some level of disturbance to the continuity of the landscape but are otherwise not disturbed. All other areas are in Excellent condition and displayed no signs of disturbance.

A large amount of dust was noted on the foliage of shrubs and trees across the entire survey area during the dry season. A large number of shrubs were noted to have died in many areas across the Study Area however it is difficult to speculate on the cause of death differing from expected senescence of short-lived perennial shrub species common on the Burrup Peninsula.

4.2.7 Conservation Significant Flora

Two flora of conservation significance were located in the Study Area (Table 4-8). *Rhynchosia bungarensis* is synonymous with *Rhynchosia* sp. Burrup listed as flora of conservation significance by M. E. Trudgen & Associates (2002). Locations of the Priority flora located by APM are shown in Figure 4-7.

Table 4-8: Flora of Conservation Significance Recorded within the Study Area

Conservation Recorded in APM Recorded in APM No. 0

Species	Conservation Status	Recorded in APM Quadrat(s)	Recorded in APM Targeted Search(es)	No. of Individuals Recorded
Terminalia supranitifolia	Р3	3	OC6	4
Rhynchosia bungarensis	P4	40	OC29-1	2

Four *Terminalia supranitifolia* trees were recorded in the Study Area. *Terminalia supranitifolia* is typically found as a low spreading tree on rockpiles on the Burrup Peninsula. Rock pile vegetation communities, of which *Terminalia supranitifolia* is a component, have PEC status. ENV Australia (2006) recorded this species at four sites within the Pluto LNG 'Site B North' study area to the north east of the Study Area. It was found at rockpiles

and drainage lines, with one or "a few" individuals at each site. *Terminalia supranitifolia* has been discovered in scattered populations in the Chichester Ranges, leading to a reclassification from P1 to P3 in 2005.

Rhynchosia bungarensis (P4) was added to the Priority Flora List in 2009. It is reasonably widespread on the Burrup Peninsula although less common than Rhynchosia minima (M. E. Trudgen & Associates, 2002). It is frequently found along the more sheltered bases of rockpiles, along gully walls or in more dense vegetation where it is protected. The species occurs as scattered populations within the Pilbara.

Known populations of *Stackhousia clementii* (P3) to the east of the Study Area were visited in the Post Wet-Season survey and healthy individuals located. Extensive searching within suitable habitat of the Study Area did not locate the priority species.

4.2.8 Introduced Flora

Four introduced species were recorded in the Study Area. No Declared weeds or weeds with control categories under the BAM Act were located in the Study Area.

The introduced species *Cenchrus ciliaris (buffel grass) was scattered across the Study Area with the greatest abundances occurring in previously disturbed areas or in ephemeral creek lines under shady canopies.

- *Aerva javanica (kapok) occurs in highest abundances in the sandy swale areas adjacent to the tidal inlet and in disturbed areas particularly near roads. In undisturbed vegetation its presence is scattered and very low abundance.
- *Passiflora foetida var. foetida (stinking passionflower) is restricted to the riparian vegetation in the north west corner of the Study Area. Although the distribution is restricted, where it does occur it has a very aggressive infestation and is likely to cause significant decline to the quality of the vegetation in the near future if not controlled.
- *Malvastrum americanum, a naturalised herbaceous weed occurred as two individuals at one location.

The native species *Acacia ancistrocarpa* and *A. synchronicia* are common in the Pilbara but not common on the Burrup Peninsula. They were recorded as an opportunistic collection near Hearson Cove Road and are likely to have arrived in the area by transport of seed on vehicles (M. E. Trudgen & Associates, 2002).

5 TERRESTRIAL VERTEBRATE FAUNA RESULTS

5.1 DESKTOP SURVEY

Across the four online database searches (AoLA, NatureMap, DBCA, and the EPBC PMST), 214 terrestrial vertebrate fauna were identified as having the potential to occur, including 4 amphibians, 123 birds, 23 mammals, and 64 reptiles. The most extensive species list was the NatureMap database, with 146 species, followed by the AoLA database with 120. The DBCA Database and PMST databases both identified 42 species. An additional 35 species of marine mammals and reptiles were identified but are not further considered.

Worley Astron (2006) conducted a review of previous biological surveys carried out in the immediate vicinity and combined them in one collated database containing 305 species, including 14 non-volant mammals, 18 bats, 4 introduced mammals, 186 birds, 79 reptiles and 4 amphibians. Of these, 221 species were recorded in field surveys, providing an extensive species list, especially with additional online database searches conducted by APM for this study.

In total, 99 conservation significant species were identified across all database searches (Table 5-1). Of these, 98 were from database searches or the Worley Astron (2006) report, and one additional species was recorded during APM surveys that had not been recorded previously. For simplicity, all conservation significant fauna recorded during the APM surveys are also included in Table 5-1, but are discussed in more detail in Section 5.2.6. Refer to Appendix H for a discussion of the likelihood of occurrence of each of the identified conservation significant fauna and their habitat descriptions and requirements. Figure 5-1 shows the locations of conservation significant fauna in the vicinity of the Study Area identified by a DBCA database search.

Table 5-1: Conservation Significant Fauna Identified in the Database Searches and/or Recorded by APM (2018, 2019) or Worley Astron (2006)

		Cons.	Code		Database			Biological Surveys	
Species	Common Name	Cth	State	NatureMap (10 km buffer)	AoLA (10 km buffer)	DBCA (~25 km buffer)	EPBC (5 km buffer)	Worley Astron 2006	АРМ
Birds									
Accipiter fasciatus	Brown Goshawk	M ¹	-					х	х
Acrocephalus australis	Australian Reed Warbler	М	-		х				
Actitis hypoleucos	Common Sandpiper	IA ² , M	IA	х	х	х	х	х	
Anous stolidus	Common Noddy	IA, M	IA	Х	Х	х	Х		
Anthus novaeseelandiae	Australasian pipit	М	-		х			х	х
Apus pacificus	Fork-tailed Swift	IA, M	IA			х	Х	х	
Ardea alba	Great Egret	М	-				х	х	
Ardea ibis	Cattle Egret	М	-				Х		
Ardenna pacifica	Wedge-tailed Shearwater	IA, M	IA					х	
Arenaria interpres	Ruddy Turnstone	IA	IA	x	х	х		х	
Cacomantis pallidus	Pallid Cuckoo	М	-	х	х			х	х
Calidris acuminata	Sharp-Tailed Sandpiper	IA, M	IA		х	х	х	х	
Calidris alba	Sanderling	IA, M	IA			х		х	
Calidris canutus	Red Knot	EN, IA, M	EN			х	х	х	
Calidris ferruginea	Curlew Sandpiper	CR, IA, M	CR			х	х	х	
Calidris melanotos	Pectoral Sandpiper	IA, M	-				х		
Calidris ruficollis	Red-necked stint	IA, M	IA			х		х	х

¹ Listed as a Marine species under the *EPBC Act* (1999).

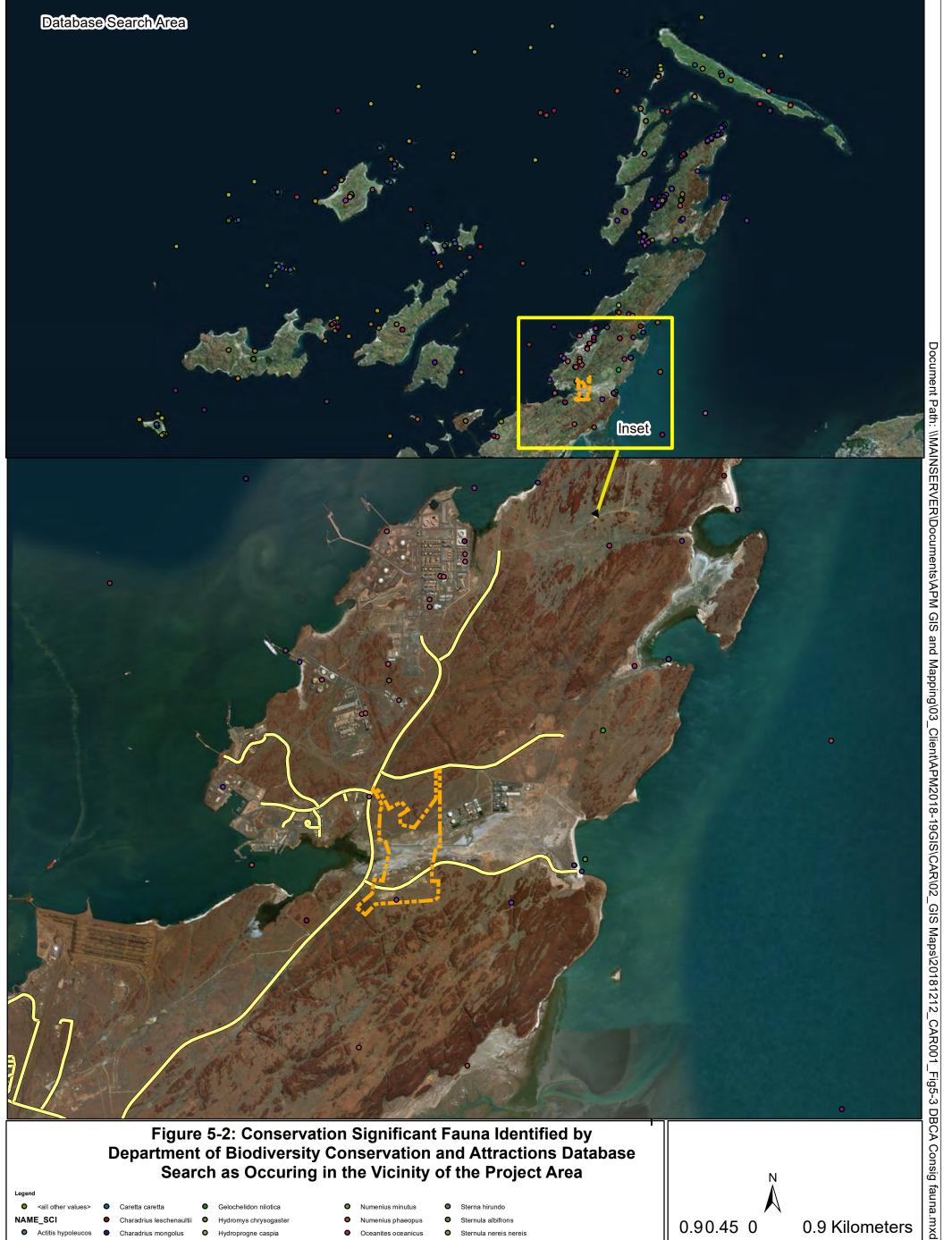
² Listed as a Migratory species under International Agreement under the *EPBC Act* (1999).

		Cons.	Code		Database		ı	Biological Surveys	
Species	Common Name	Cth	State	NatureMap (10 km buffer)	AoLA (10 km buffer)	DBCA (~25 km buffer)	EPBC (5 km buffer)	Worley Astron 2006	APM
Calidris subminuta	Long-toed Stint	IA, M	IA					x	
Calidris tenuirostris	Great knot	CR, IA, M	CR					х	
Calonectris leucomelas	Streaked Shearwater	IA, M	IA				Х		
Chalcites osculans	Black-eared Cuckoo	М	-				Х	x	х
Charadrius leschenaultii	Greater Sand Plover	VU, IA	VU, IA	Х		Х		х	
Charadrius mongolus	Lesser Sand Plover	EN, IA	EN, IA			Х		х	
Charadrius ruficapillus	Red-capped Plover	М	-	Х	х			х	х
Charadrius veredus	Oriental plover	IA, M	IA			Х	Х		
Chlidonias hybrida	Whiskered tern	М	-					х	х
Chlidonias leucopterus	White-winged Black Tern	IA, M	IA					х	
Chroicocephalus novaehollandiae	Silver Gull	М	-	х	х			х	х
Chrysococcyx basalis	Horsfield's Bronze-Cuckoo	М	-		х			х	
Circus approximans	Swamp harrier	М	-					х	
Coracina novaehollandiae	Black-faced Cuckoo-shrike	М	-	х	х			х	х
Egretta garzetta	Little Egret	М	-		х			х	х
Egretta sacra	Eastern Reef Egret	М	-		х			х	
Esacus Mgnirostris	Beach Stone-Curlew	М	-	х	х			х	
Eurostopodus argus	Spotted nightjar	М	-					х	
Falco cenchroides	Nankeen Kestrel	М	-	x	х			х	х
Falco peregrinus	Peregrine Falcon	-	OS	Х	Х	Х			
Fregata ariel	Lesser Frigatebird	IA, M	IA		Х	Х	Х	х	
Gelochelidon nilotica	Gull-Billed Tern	IA	IA	Х	Х			х	
Glareola Mldivarum	Oriental pratincole	IA, M	IA				Х		
Grallina cyanoleuca	Magpie-lark	М	-	Х	Х			х	х
Haliaeetus leucogaster	White-bellied Sea-Eagle	М	-	x	x		х	х	х

		Cons.	Code		Database			Biological Surveys	
Species	Common Name	Cth	State	NatureMap (10 km buffer)	AoLA (10 km buffer)	DBCA (~25 km buffer)	EPBC (5 km buffer)	Worley Astron 2006	АРМ
Haliastur indus	Brahminy Kite	M	-	х	x			x	х
Haliastur sphenurus	Whistling Kite	M	-	Х	x			x	х
Himantopus himamtopus	Black-winged Stilt	M	-					x	х
Hirundo neoxena	Welcome Swallow	М	=	X	x			x	х
Hirundo rustica	Barn swallow	IA, M	IA				Х		
Hydroprogne caspia	Caspian Tern	IA	IA		х	Х		x	х
Limicola falcinellus	Broad-billed Sandpiper	IA, M	-					х	
Limosa lapponica	Bar-tailed Godwit	IA, M	IA				Х		
Limosa lapponica baueri	Bar-tailed Godwit	VU, IA	VU, IA	Х	х	Х	х	х	
Limosa lapponica menzbieri	Northern Siberian Bar- tailed Godwit	CR, IA, M	CR, IA, M				x		
Limosa limosa	Black-tailed Godwit	IA	IA			Х		x	
Macronectes giganteus	Southern Giant-Petrel	EN, IA, M	IA				Х		
Merops ornatus	Rainbow Bee-eater	M	=	Х	х		Х		х
Motacilla cinerea	Grey Wagtail	IA, M	IA				Х		
Motacilla flava	Yellow Wagtail	IA, M	IA				Х		
Ninox novaeseelandiae	Southern boobook	M	=					x	
Numenius minutus	Little Whimbrel	CR, IA, M	IA		х	Х			
Numenius madagascariensis	Eastern Curlew	IA	CR	х	x	Х	Х	x	
Numenius phaeopus	Whimbrel	IA	IA	Х	х	Х		x	х
Nycticorax caledonicus	Nankeen night heron	М	=					x	
Oceanites oceanicus	Wilson's storm-petrel	IA	IA			Х			
Onychoprion anaethetus	Bridled Tern	IA	IA				Х		
Pandion cristatus	Eastern Osprey	IA, M	IA	Х	Х	Х		x	х
Pelecanus conspicillatus	Australian pelican	М	=					х	
Petrochelidon nigricans	Tree Mrtin	М	-	х	х			х	х

		Cons	. Code		Database			Biological Surveys	
Species	Common Name	Cth	State	NatureMap (10 km buffer)	AoLA (10 km buffer)	DBCA (~25 km buffer)	EPBC (5 km buffer)	Worley Astron 2006	АРМ
Pezoporus occidentalis	Night Parrot	EN	CR				х		
Phalaropus lobatus	Red-necked Phalarope	IA, M	=					x	
Pluvialis fulva	Pacific golden plover	IA, M	IA						х
Pluvialis squatarola	Grey plover	IA	IA			Х		x	
Recurvirostra novaehollandiae	Red-necked Avocet	М	-					x	
Rostratula australis	Australian Painted-Snipe	EN	EN				x		
Sterna dougallii	Roseate Tern	IA, M	IA		х	Х		х	
Sterna hirundo	Common Tern	IA	IA			Х		x	
Sternula albifrons	little tern	IA	IA			Х			
Sternula nereis nereis	Australian Fairy tern	VU	VU			Х	Х	х	
Stiltia isabella	Australian pratincole	М	-					х	
Sula leucogaster	Brown Booby	IA	IA		х	Х		х	
Thalasseus bengalensis	Lesser Crested Tern	М	-	х	х			х	х
Thalasseus bergii	Crested Tern	IA	IA	х	х	Х		х	
Todiramphus sanctus	Sacred Kingfisher	М	-	Х	х			х	
Tringa brevipes	Grey-tailed Tattler	IA	IA, P4	х	х	Х		х	х
Tringa glareola	wood sandpiper	IA	IA			Х			
Tringa nebularia	Common Greenshank	IA, M	IA	Х	х	Х	Х	х	х
Tringa stagnatilis	marsh sandpiper, little greenshank	IA	IA			x		х	
Tringa totanus	Common Redshank	IA, M	IA		х				
Xenus cinereus	Terek sandpiper	IA	IA			Х		х	
Reptile									
Ctenotus angusticeps	Northwestern Coastal Ctenotus	VU	Р3				х		
Liasis olivaceus subsp. barroni	Pilbara Olive Python	VU	VU	х		х	х		

		Cons	. Code		Database			Biological Surveys	
Species	Common Name	Cth	State	NatureMap (10 km buffer)	AoLA (10 km buffer)	DBCA (~25 km buffer)	EPBC (5 km buffer)	Worley Astron 2006	АРМ
Notoscincus butleri	Lined-soil Crevice Skink (Dampier)	-	P4					x	
Mammal									
Dasyurus hallucatus	Northern Quoll	EN	EN	Х		Х	Х	х	
Hydromys chrysogaster	Water-rat	-	P4			Х		х	
Macroderma gigas	Ghost Bat	VU	VU	Х		Х	Х		х
Macrotis lagotis	Greater Bilby	VU	VU				x		
Mormopterus cobourgianus	Northern Coastal Free- tailed Bat	-	P1	х		х		х	х
Petrogale lateralis	Rock-wallaby	EN	-					х	
Pseudomys chapmani	Western Pebble-mound Mouse		P4	х		х			
Rhinonicteris aurantia	Pilbara Leaf-Nosed Bat	VU	P4				х		



<all other values> Caretta caretta

NAME SCI

- 0

- Actitis hypoleucos
 Charadrius mongolus
 Hydroprogne caspia
- Calidris alba
 Dugong dugon
 Megaptera novaeangliae
- Calidris ferruginea Falco peregrinus Natator depressus
- Calidris ruficollis
 Fregata ariel
 Numenius madagascariensis

- Charadrius leschenaultii
 Hydromys chrysogaster
- Anous stolidus O Charadrius veredus O Liasis olivaceus barroni
- Apus pacificus
 Chelonia mydas
 Limosa lapponica
- Calidris acuminata Dasyurus hallucatus Macroderma gigas
 - Calidris canutus

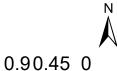
 Eretmochelys imbricata

 Mormopterus (Ozimops) cobourgianus

 Puffinus pacificus
- Numenius minutus
- Numenius phaeopus
- Oceanites oceanicus
- Onychoprion anaethetus Sula leucogaster
- Pandion cristatus
 Thalasseus bergii Pluvialis fulva
- Pluvialis squatarola
 Tringa glareola

Sterna dougallii

- Pseudomys chapmani
 Tringa nebularia
- Sternula albifrons
- Sternula nereis nereis
- Tringa brevipes
- - Tringa stagnatilis Xenus cinereus



0.9 Kilometers

1 centimeter = 493 meters

Date: 12/12/2018

Coordinate System: GDA 1994 MGA Zone 50 Author: ems@animalplantmineral.com.au

Of the 99 conservation significant species that have been recorded, or have the potential to occur, 88 are birds, many of which listed as migratory or marine under the EPBC Act. A range of threatened species also have the potential to occur. The Curlew Sandpiper (*Calidris ferruginea*), Great Knot (*Calidris tenuirostris*), and Eastern Curlew (*Numenius madagascariensis*) are all listed as Critically Endangered and have been recorded in previous surveys at neighbouring sites. The Northern Quoll (*Dasyurus hallucatus*) and the Black-footed rock wallaby (*Petrogale lateralis*) are both listed as Endangered and have been recorded in previous surveys in the vicinity. The Pilbara Olive Python (*Liasis olivaceus barroni*) and Ghost Bat (*Macroderma gigas*) are listed as Vulnerable, and while records exists for both species in the database searches, they were not recorded by Worley Astron (2006).

Introduced species identified by database searches as likely or potentially occurring at the Study Area, and / or recorded by Worley Astron (2006) and APM, are listed in Table 5-2.

Table 5-2: Introduced Fauna Identified in the Database Searches and/or Recorded by Worley Astron (2006), and APM (2018, 2019)

		Lis	ting		Datak	pase		Biological S	urveys
Species name	Common Name	Cth ³	State ⁴	DBCA (~25 km buffer)	NatureMap (10 km buffer)	AoLA (10 km buffer)	EPBC (5 km buffer)	Worley Astron (2006)	АРМ
Birds									
Columba livia	Domestic Pigeon	Int.	s11				х		
Passer domesticus	House Sparrow	Int.	s12, C1				х		
Passer montanus	Eurasian Tree Sparrow	Int.	s12, C1				x		
Mammals									
Canis lupis familiaris	Dog	Int.	s22, C3		х			х	Х
Equus caballus	Horse	Int.	s22, C3				х		
Felis catus	Cat	Int.	s11		х			x	Х
Mus musculus	House Mouse	Int.	s11					x	
Oryctolagus cuniculus	Rabbit	Int.	s22, C3				х		
Rattus rattus	Black Rat	Int.	s11					x	X
Vulpes vulpes	Red Fox	Int.	s22, C3		х			х	
Reptiles									
Hemidactylus frenatus	Asian House Gecko	Int.	s22, C3		х		х		
Ramphotyphlops braminus	Flowerpot Snake	Int.	s22				х		

³ Listed as Introduced under the *EPBC Act* (1999)

⁴ Declared Pest Status (BAM Act, 2007)

5.2 FIELD SURVEY

5.2.1 Survey Conditions

The post-wet season field survey followed the passage of Cyclone Veronica which crossed Karratha in March 2019. The Karratha Aero weather station (BOM station 00408310, 10 km to the south of the Survey Area) recorded 70 mm of rainfall associated with the passage of the cyclone. This rainfall created adequate post-wet season survey conditions. The overall sampling effort was assessed by applying a Species Accumulation Curve (Appendix L).

5.2.2 Birds

APM recorded 63 bird species across the pre-wet and post-wet season surveys (Table 5-3). In total, 150 bird species have been recorded on the Burrup Peninsula in surveys conducted in 1994, 1998, 2002, 2005 (Worley Astron, 2006) and the two surveys by APM (NB: the total of 186 bird species noted in section 5.1 included records off the Burrup Peninsula but in similar habitat). Six of the species recorded by APM were not recorded in previous surveys or database searches including the migratory species, the Pacific Golden Plover (*Pluvialis fulva*).

While survey timing was appropriate to target migratory species, late 2018 and early 2019 was an unseasonably dry period on the Burrup Peninsula. In the week leading up the March 2019 survey, a large cyclone in the region resulted in a moderate rainfall event (71 mm total). As such, the March survey represented a time where total seasonal rainfall was below average, but the recent cyclonic rainfall in March alone was above average. In addition, the recent rainfall had resulted in areas of available surface water on the floodplain areas (often due to raised earthworks for infrastructure stopping drainage). The availability of fresh water is likely to have increased the use of the site by migratory waders and shorebirds, therefore increasing the probability of being recorded during surveys.

Seven of the species recorded during APM surveys are listed as Migratory; the Caspian Tern (Hydroprogne caspia), Whimbrel (Numenius phaeopus), Grey-tailed Tattler (Tringa brevipes), which is also listed as Priority 4 at the state level, Red-necked Stint (Calidris ruficollis), Eastern Osprey (Pandion haliaetus), Pacific Golden Plover (Pluvialis fulva), and the Common Greenshank (Tringa nebularia).

The avifauna records from APM surveys, and the habitat types the records were made within, are listed in Table 5-3.

Table 5-3: APM Avifauna Survey Records and Associated Habitat Types

Order	Family	Species	Common Name	Mid-slope	Rocky Outcrop	Samphire
ANSERIFORMES	Anatidae	Anas gracilis	Grey Teal		х	х
CHARADRIIFORMES	Charadriidae	Charadruis ruficapillus	Red-capped Plover	х	х	х
		Pluvialis fulva	Pacific Golden Plover			x
CHARADRIIFORMES	Laridae	Chlidonias hybrida	Whiskered Tern	х	х	х
		Chroicocephalus novaehollandiae	Silver Gull			x
		Hydroprogne caspia	Caspian Tern			x
		Thalasseus bengalensis	Lesser Crested Tern		x	
	Recurvirostridae	Himantopus leucocephalus	Pied Stilt		x	x
	Scolopacidae	Calidris ruficollis	Red-Necked Stint			x
		Numenius phaeopus	Whimbrel			x
		Tringa brevipes	Grey-tailed Tattler		x	x
		Tringa nebularia	Common Greenshank	x	x	x
CICONIIFORMES	Ardeidae	Egretta garzetta	Little Egret	х	х	х
		Egretta novaehollandiae	White-faced Heron			x
COLUMBIFORMES	Columbidae	Geopelia cuneata	Diamond Dove	Х	х	
		Geopelia placida	Peaceful Dove	x		x
		Geophaps plumifera	Spinifex Pigeon	x	x	x
		Ocyphaps lophotes	Crested Pigeon	x	x	x
CORACIIFORMES	Alcedinidae	Todiramphus pyrrhopygius	Red-Backed Kingfisher	х	х	х
	Meropidae	Merops ornatus	Rainbow Bee-eater	x		
CUCULIFORMES	Cuculidae	Cacomantis pallidus	Pallid Cuckoo	Х	Х	
		Chalcites osculans	Black-Eared Cuckoo	х	x	
FALCONIFORMES	Accipitridae	Accipiter fasciatus	Brown Goshawk	Х		
		Aquila audax	Wedge-Tailed Eagle	x		
		Circus assimilis	Spotted Harrier	x		Х
		Elanus axillaris	Black-shouldered Kite	x	x	х
		Haliaeetus leucogaster	White-bellied Sea-Eagle		x	

Order	Family	Species	Common Name	Mid-slope	Rocky Outcrop	Samphire
		Haliastur indus	Brahminy Kite	х		х
		Haliastur sphenurus	Whistling Kite	x	x	x
		Pandion haliaetus	Eastern Osprey		x	
	Falconidae	Falco berigora	Brown Falcon	x	x	x
		Falco cenchroides	Nankeen Kestrel	x	x	x
		Milvus migrans	Black Kite		X	
GALLIFORMES	Phasianidae	Coturnix ypsilophora	Swamp Quail	x		
PASSERIFORMES	Acanthizidae	Smicrornis brevirostris	Weebill	x	x	
	Alaudidae	Mirafra javanica	Horsfield's Bushlark	x		
	Artamidae	Artamus cinereus	Black-faced Woodswallow	x	x	x
		Cracticus nigrogularis	Pied Butcherbird	x	x	x
	Campephagidae	Coracina papuensis	White-bellied Cuckooshrike	x	x	x
		Lalage tricolor	White-Winged Triller	x	x	
	Corvidae	Corvus orru	Torresian Crow	x	x	x
	Estrildidae	Emblema pictum	Painted Finch	x	x	x
		Neochmia ruficauda	Star Finch	x	x	
		Taeniopygia guttata	Zebra Finch	x	x	x
	Hirundininae	Hirundo neoxena	Welcome Swallow		x	x
		Petrochelidon ariel	Fairy Martin	x	x	
		Petrochelidon nigricans	Tree Martin			x
	Locustellidae	Megalurus mathewsi	Rufous Songlark	x	x	x
	Maluridae	Malurus leucopterus	White-Winged Fairy-wren	x		
	Meliphagidae	Epthianura tricolor	Crimson Chat	x	x	
		Gavicalis virescens	Singing Honeyeater	x	x	x
		Lichmera indistincta	Brown Honeyeater	x	x	x
		Manorina flavigula	Yellow-Throated Miner	x	x	x
		Ptilotula penicillata	White-Plumed Honeyeater	x	x	
	Monarchidae	Grallina cyanoleuca	Magpie-Lark		x	x

Order	Family	Species	Common Name	Mid-slope	Rocky Outcrop	Samphire
	Motacillidae	Anthus novaeseelandiae	Australasian Pipit	х	x	x
	Pardalotidae	Pardalotus rubricatus	Red-Browed Pardalote	x		
		Pardalotus striatus	Striated Pardalote	X	x	
	Rhipiduridae	Rhipidura leucophrys	Willie Wagtail	X	X	x
PELECANIFORMES	Phalacrocoracidae	Phalacrocorax varius	Pied Cormorant			x
PSITTACIFORMES	Cacatuidae	Cacatua sanguinea	Little Corella	X	x	x
		Eolophus roseicapilla	Galah	X	x	x
	Psittacidae	Melopsittacus undulatus	Budgerigar		x	
	_		Total	45	45	41

5.2.3 Mammals

APM recorded 15 mammal species over the two surveys (Table 5-4, Table 5-5); 7 non-volant mammals and 8 bat species. The mammal assemblage at the site is typical of many areas in the Pilbara region, with Euros (*Osphranter robustus*) being the largest and most common species, while various small and medium sized mammals are also present, including the Short-Beaked Echidna (*T. aculeatus*), Delicate Mouse (*Psuedomys delicatulus*) and Desert Mouse (*P. desertor*). A range of naturalised (i.e. Dingo/dog, *Canis familiaris*) and introduced (i.e. Feral cat, *Felis catus*; Black rat, *Rattus rattus*), were also recorded.

Table 5-4: Records of Non-volant Mammal Species across Two APM surveys

			Rec	ord T	уре			Rocky Outcrop Samphire 7 3 1 1		
Scientific name	Common Name	Camera	Scat	Cage	Elliot	Pit	Mid-slope		Samphire	
Osphranter robustus	Euro	23					13	7	3	
Pseudomys delicatulus	Delicate Mouse					1			1	
Pseudomys desertor	Desert Mouse				1				1	
Tachyglossus aculeatus	Echidna		1					1		
Canis familiaris	Dog/Dingo		1				1			
Felis catus	Cat	3	1	2			1	3	2	
Rattus rattus	Black Rat	1						1		

Table 5-5: Nights which Bat Species were Recorded in each Habitat

Scientific name	Common name	Mid-slope	Rocky Outcrop	Samphire
Austronomus australis	White-striped Free-tailed Bat		1	1
Chaerephon jobensis	Greater Northern Free-tailed Bat		1	2
Chalinolobus gouldii	Gould's Wattled Bat			1
Macroderma gigas	Ghost Bat	1	1	
Mormopterus cobourgianus	Northern Coastal Free-tailed Bat	6	14	7
Scotorepens greyii	Little Broad-nosed Bat	8	21	8
Taphozous georgianus	Common Sheath-tailed Bat	13	23	8
Vespadelus finlaysoni	Finlayson's Cave Bat	8	18	8

In total, 21 non-volant mammals have been recorded on the Burrup Peninsula, inclusive of APM and other published report survey results (years 1994-2002) (Worley Astron, 2006). Many of these species, however, are likely to inhabit the unique and diverse rocky outcrops present throughout the region (NB: the total of 32 native mammal species noted in section 5.1 included records off the Burrup Peninsula but in similar habitat). The APM surveys targeted areas that were likely to be disturbed by the proposed construction, which are on the midslope and samphire areas. *Psuedomys desertor* was recorded in the 2019 APM survey, but had not been recorded in either database searches, or during the Worley Astron (2006) survey.

Targeted spot surveys were conducted, looking for the Northern Quoll (*Dasyurus hallucatus*), Rock Wallaby (*Petrogale lateralis*), and Rothschild's rock wallaby (*Petrogale rothschildi*), in the rocky outcrops within, and

immediately adjacent to, the Study Area. These species were not recorded during APM surveys, however, have been recorded in the broader area (Worley Astron, 2006). The Northern Quoll is discussed in a later section.

While Rothschild's rock wallaby (*Petrogale rothschildi*) is present on islands of the Dampier Archipelago, any mainland populations south of Withnell Bay are now rare or completely absent (Pearson & Eldridge, 2008). At sites in the northern parts of the Burrup Peninsula, rock wallaby populations are recovering in response to fox baiting operations. While foraging habitat is present in creeklines containing diverse grasses and shrubs, the absence of deep caves required by this species for diurnal shelter make it highly unlikely that this species will be present in the Study Area (Department of Parks and Wildlife, 2013). Plains of small-sized rocks may represent appropriate habitat for the Western pebble-mound mouse (*Pseudomys chapmani*), however the species has not been recorded in the Study Area. Recent work has suggested that the species is only patchily distributed in the central and southern Pilbara (Western Wildlife, 2008). The outcrops within the Study Area are small and isolated, and likely to be less important than the larger outcrops to the south, which provide greater connectivity and opportunity for secure and productive habitat.

During the APM surveys, eight bat species were recorded on acoustic bat detectors, deployed throughout the Study Area (Table 5-5). The most common species, recorded on multiple occasions across all habitat types at the site, were the Northern Coastal Free-tailed Bat (*Mormopterus cobourgianus*), Little Broad-nosed Bat (*Scotorepens greyii*), Common Sheath-tailed Bat (*Taphozous georgianus*), and Finlaysons's Cave Bat (*Vespadelus finlayson's*). In addition, flying foxes (*Pteropus* sp.) have been observed in the mangroves to the west of the Study Area during the APM 2018 survey and in previous surveys (Worley Astron, 2006). The most frequent records were on detectors deployed in rocky outcrop habitats, suggesting that these areas, and the adjacent rockpiles, may provide important habitat for many bat species.

During the 2019 APM survey, Ghost Bats (*Macroderma gigas*) were detected on two nights in rocky outcrop and mid-slope habitats (Table 5-5). The Ghost Bat, in addition to the White-striped Free-tailed Bat (*Austronomus australis*), Greater Northern Free-tailed Bat (*Chaerephon jobensis*) and the Little Broad-nosed Bat (S. *greyii*) have not been recorded in database searches or previous surveys adjacent to the Study Area. This may reflect recent developments in sensitivity of technology used in modern bat detectors more than any lack of previous survey effort, or a shift in species occurrence.

5.2.4 Reptiles and Amphibians

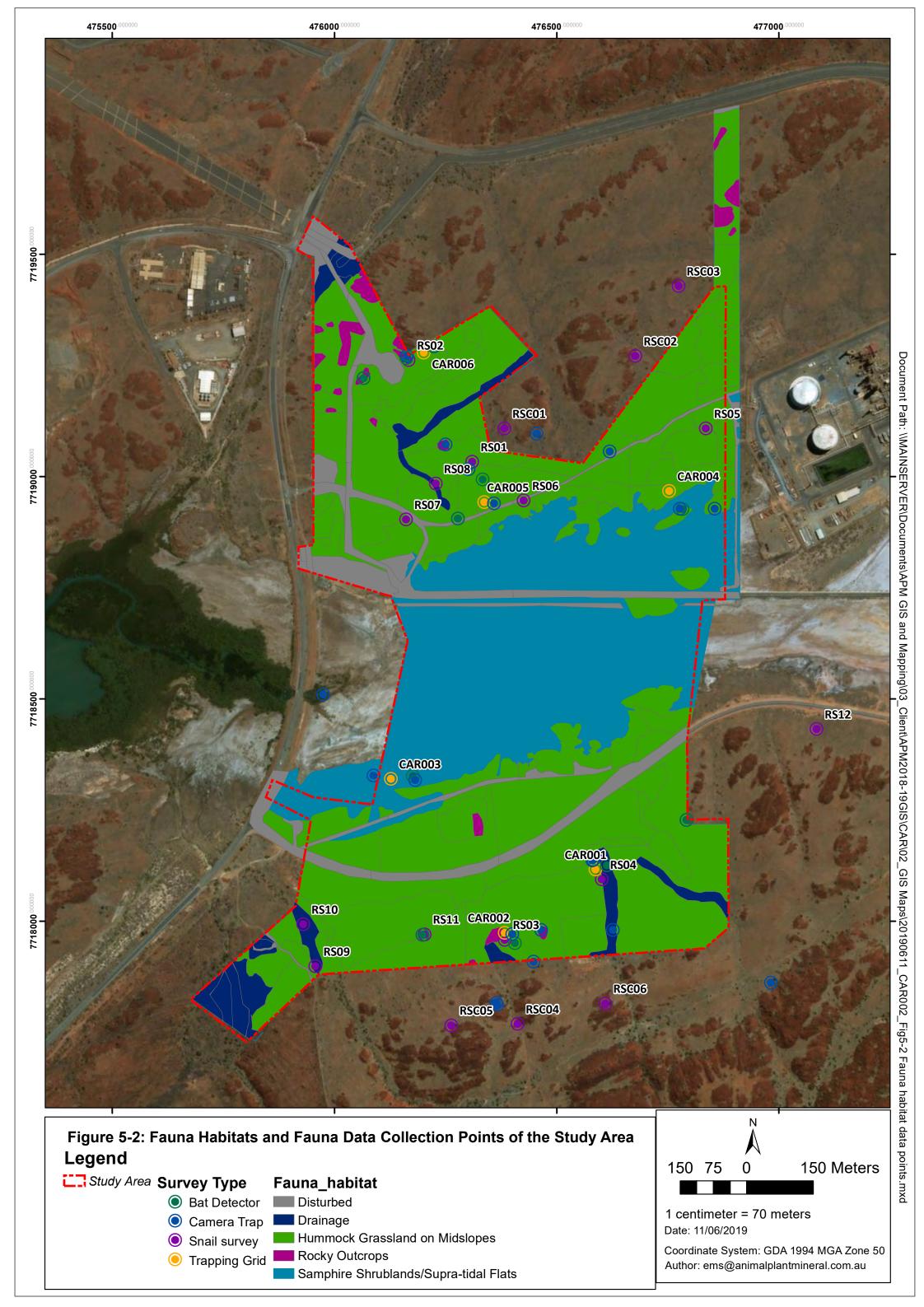
Twenty-eight species of reptiles and amphibians were recorded by APM, all of which during the post wet-season trapping survey (Table 5-6). Despite the low diversity and density of amphibians on the Burrup Peninsula (likely due to the absence of permanent fresh water), the Mains Burrowing Frog (*Cyclorana maini*) was recorded eight times, all on only 2 nights at the beginning of the survey, just after a major rainfall event.

Table 5-6. The number of records of reptile species during the 2019 APM survey, including the type of record, and the number of records across each habitat type.

Scientific name	Common Name		Red	ord Ty	уре			Habitat		
		Camera	Opp.	Elliot	Funnel	Pit	Mid-slope	Rocky Outcrop	Samphire	Total
Frog										
Cyclorana maini	Main's Frog				3	5	5	3		8
Gecko										
Gehyra punctata	Spotted Dtella		1		11		1	11		12
Strophorus elderi	Jewelled Gecko					1	1			1
Heteronotia binoei	Bynoe's Gecko				5			1	4	5
Skink										
Lerista bipes	North-Western Sandslider		1		10	26	21		16	37
Carlia tricantha	Desert rainbow-skink				2			2		2
Cryptoblepharus plagiocephalus	Péron's snake-eyed skink					1	1			1
Ctenotus leonhardii	Leonhards Ctenotus				5	2	5	1	1	7
Ctenotus rubicundus	Ruddy Ctenotus			1			1			1
Ctenotus saxatillis	Rock Ctenotus				44	6	12	23	15	50
Egernia depressa	Pygmy Spiny-tailed Monitor		2		1			1	2	3
Eremiascincus isolepis	Northern Bar-lipped Skink				1	2			3	3
Menetia surda	Western Dwarf Skink				5	4	2	2	5	9
Morethia ruficauda exquisita	Lined Firetail Skink		1		15	1	1	14	2	17
Pygopod										
Delma borea	Rusty-topped Delma				1		1			1
Delma pax	Peace Delma					1	1			1
Lialis burtonis	Burton's Legless Lizard				1	1	1		1	2
Dragon										
Ctenophorus caudicinctus	Ring-tailed Dragon				2	3	1		4	5
Ctenophorus isolepis isolepis	Central Military Dragon					1	1			1
Lophognathus gilbertii	Gilbert's Dragon					1			1	1
Pogona minor mitchelli	Western Bearded Dragon				4	3	7			7
Varanid										
Varanus acanthurus	Spiny-tailed Monitor				3	1		2	2	4
Varanus panoptes	Yellow-spotted Monitor	1						1		1
Snake										
Anilios ammodytes	Sand-diving Blind Snake				1	2		2	1	3
Anilios grypus	Long-beaked Blind Snake				1	1	1	1		2
Antaresia perthensis	Pygmy Snake		7					5	2	7
Pseudechis australis	Mulga Snake		1		1			2		2
Pseudonaja mengdeni	Western Brown Snake		1		1		2			2

The reptile assemblage on the Burrup Peninsula is generally consistent with the nearby mainland. The most common species were the North-western Sandslider (*Lerista bipes*), Rock Ctenotus (*Ctenotus saxatillis*), Spotted Dtella (*Gehyra punctata*), and Western Dwarf Skink (*Menetia surda*) (Table 5-6). Two of the species recorded by APM, the Pygmy spiny-tailed Skink (*Egernia depressa*) and Mitchell's Bearded Dragon (*Pogona minor mitchelli*), have not been recorded in previous surveys (Worley Astron, 2006) and were not present in database searches of the Study Area. Worley Astron (2006) recoded 50 reptile and two amphibian species in surveys adjacent to the Study Area.

Spotlight surveys were conducted during both APM surveys in rocky outcrop areas in an effort to record the Pilbara Olive Python (*Lialis olivaceus barroni*). However, this species was not sampled in either survey.



5.2.5 Fauna Habitats

Four fauna habitats were present within the Study Area: rocky outcrops, Hummock Grasslands on Mid-slopes, Samphire Shrublands/Saltplains, and Drainage Lines. Habitats and fauna data collection sites are shown in Figure 5-2.

Rocky Outcrops



Plate 5-1: Rocky Outcrop Habitat Trapping Sites

Characteristic of the Burrup Peninsula, the formation of Proterozoic igneous rock outcrops (Gidley Granophyre) within the Study Area, weathered over time and resistant to extensive erosion, produce aggregates of split boulder screes. The structural complexity of these landforms provides cover for reptiles and small terrestrial mammals, while caves may provide roosts for bats. The most common rocky outcrop species in the APM surveys were the Spotted Dtella (*G. punctata*), Lined Firetail Skink (*Morethia ruficauda exquisita*), and Pygmy Python (*Antaresia perthensis*). In addition, the four most commonly recorded bat species were all most frequent in the rocky outcrop habitat; Northern Coastal Free-tailed Bat (*M. cobourgianus*), Little Broad-nosed Bat (*S. greyii*), Common Sheath-tailed Bat (*T. georgianus*), and Finlaysons's Cave Bat (*V. finlayson's*). Echidna (*T. aculeatus*) scats were also frequently recorded on rockpiles within the Study Area. This habitat type is also suitable for the Pilbara Olive Python (*Liasis olivaceus barroni*), and though not recorded during APM surveys or previous adjacent surveys (Worley Astron 2006), it is likely this species will occur in the area.

This habitat type supports many of the conservation significant species that occur on the Burrup Peninsula, and is therefore of high importance. The Study Area contains some rocky outcrop areas (Figure 5-2). This habitat type is more abundant and of higher quality, however, in the areas immediately adjacent to the Study Area. Where possible, development of the Study Area should avoid disturbance of rocky outcrops.

Hummock Grasslands on Mid-slopes



Plate 5-2: Hummock Grasslands on Mid-slope Trapping Sites

The Study Area and wider Burrup Peninsula contain coastal and subcoastal plains with mixed savannah hummock and tussock grasslands, and scattered shrubs of *Acacia pyrifolia* and *Acacia inaequilatera*. The presence of hummock grasses and relatively deep soils within this habitat type provides important shelter for a range of small species such as Main's Frog (*C. maini*), Leonhard's Ctenotus (*Ctenotus leonhardii*) and the Western Bearded Dragon (*Pogona minor mitchelli*), as well as larger snake species, such as the Western Brown Snake (*Pseudonaja mengdeni*).

This habitat type will also provide foraging habitat for grazers; primarily Euros (*O. robustus*). These grasslands are also likely to support small rodents such as the Delicate Mouse (*Pseudomys delicatulus*), Sandy Inland Mouse (*P. hermannsburgensis*), and Desert Mouse (*P. desertor*) (Van Dyck & Strahan, 2008). While no rodents were recorded in the Mid-slope habitat during the 2019 APM survey, the low capture rate of small mammals in that survey suggests that these species were not present in high numbers at the time, possibly due to the dry conditions, and as a result did not occupy the full extent of potential habitat.

A range of bird species are likely to use this grassy habitat for both foraging and nesting, especially given the proximity of the grassland to the ephemeral drainage lines. These include the Star Finch (*Neochmia subclarascens*), Swamp Quail (*Coturnix ypsilophora*), Painted Finch (*Emblema pictum*), and Crimson Chat (*Epthianura tricolor*).

This habitat type is typical of the broader Pilbara region, but less common on the Burrup Peninsula, which is frequently dominated by rocky outcrops. This habitat type is well represented within the Study Area, and is likely to support fewer conservation significant species, and be less sensitive to disturbance, than other habitat types present.

Samphire Shrubland / Supra-tidal Flats



Plate 5-3: Samphire Shrubland / Supra-tidal Flat Trapping Sites

The Burrup Peninsula contains marine alluvial flats and river deltas that support Samphire and mangal ecosystems (mangroves). Although these areas are relatively small in a regional context, the intertidal flats around the Burrup are locally significant (DEC, 2013). Within the Study Area, supra-tidal flats exist in the middle of the area, draining westward into King Bay, and this area is fringed by Samphire Shrubland, consisting of low shrublands on sandy soils. The reptiles recorded most frequently within this habitat type were the Ring-tailed Dragon (*Ctenophorus caudicinctus*), Northern Bar-lipped Skink (*Eremiascincus isolepis*), and Bynoe's Gecko (*Heteronotia binoei*). The Delicate Mouse (*P. delicatulus*), Desert Mouse (*P. desertor*), Greater Northern Freetailed Bat (*Chaerephon jobensis*), and Gould's Wattled Bat (*Chalinolobus gouldii*) were all recorded within the Samphire Shrubland habitat type more frequently than other habitat types.

The supra-tidal flats area of this habitat type is subject to inundation, due to tidal surges, and also drainage from rainfall events. As such, this area supports a range of shorebirds and waders, including the Red-capped Plover (*Charadrius ruficapillus*), Grey-tailed tattler (*Tringa brevipes*), and Common Greenshank (*T. nebularia*), all of which were recorded frequently in the post wet-season survey. In turn, predatory species such as the Eastern Osprey (*Pandion haliaetus*) are likely to forage over these areas.



Plate 5-4: Examples of Mangrove Vegetation Adjacent to the Study Area, and Supra-tidal Habitat Present within the Study Area

Mangrove vegetation is present in association with King Bay, immediately outside the survey area to the West. These areas are likely to support a diverse range of fauna including many birds that may use the rich organic

marine sediment to forage and potentially nest, such as Brahminy Kite (*Haliastur indus*) and the Mangrove Golden Whistler (*Pachycephala melanura*). Mangrove vegetation may also support a range of mammal species, including the Rakali (*Hydromys chrysogaster*), Northern Coastal Free-tailed Bat (*O. cobourgianus*), and the Little Red Flying Fox (*Pteropus scapulatus*). The mangrove vegetation is outside the Study Area, and will not be directly disturbed by the proposed development.

The Samphire Shrubland / Supra-tidal Flats habitat type provides locally important foraging opportunities for a range of species, particularly migratory shorebirds and waders. Shallow tidal plains such as that within the Study Area are rare on the Burrup Peninsula. Where possible, development within the Study Area should avoid disturbance of this habitat type, and modification of any drainage that would alter the habitat, or the mangroves further downstream.

Drainage Lines



Plate 5-5: Drainage Line Habitat in the Southwest Corner of the Study Area

Weathering of the geology of the area has formed deeply incised narrow valleys amongst the exposed bedrock. These channels trend southwest to northeast and east to west throughout the Burrup Peninsula. The drainage channel present in the Study Area in the southwest corner is quite significant as this habitat type occurs infrequently on the Burrup Peninsula.

Throughout much of arid and semi-arid Australia, ephemeral drainage lines provide important habitat diversity and resources (i.e. water) for many species. Within the Study Area, Drainage Lines are likely to provide important habitat for reptiles, such as Pygmy Pythons (*A. perthensis*) and Yellow Spotted Monitors (*Varanus panoptes*). The large trees associated with these landforms may provide hollows suitable for birds such as the Galah (*Cacatua roseicapilla*) and Little Corella (*Cacatua sanguinea*). Similarly, this habitat provides roosting, nesting,

perching and foraging habitat for the Red-browed Pardalote (*Pardalotus rubricatus*), Red-backed Kingfisher (*Todiramphus pyrrhopygius*) and Black-faced Woodswallow (*Artamus cinereus*).

Trees containing hollows are likely to provide roosting habitat for the Northern Free-tailed Bat (*Chaerephon jobensis*), the Little Broad-nosed Bat (*S. greyii*), as well as foraging habitat for the Ghost bat (*M. gigas*).

Drainage line habitat is relatively limited within the Study Area, and is likely to be of high importance due to the associated tall trees and ephemeral freshwater. Particularly, the creekline in the south-west of the Study Area is unique within the Study Area. This creek line drains from the Murujuga National Park, an area likely to contain suitable roost sites for the Ghost Bat (*M. gigas*), which forages along drainage lines. Development of the Study Area should avoid disturbance to this habitat type.

5.2.6 Conservation Significant Fauna

A range of conservation significant fauna have the potential to occur at the site (Table 5-1). Of these 99 species, 28 have been recorded by APM within the Study Area (Table 5-7). 26 are Migratory or Marine birds, and many share common habitat preferences. These species are discussed in more detail below.

Two conservation significant mammal species were recorded during APM surveys, both of which are bats; the Ghost Bat (*M. gigas*), and the Northern Coastal Free-tailed Bat (*M. cobourgianus*). No conservation significant reptiles or amphibians were identified during the surveys. The Northern Quoll (*D. hallucatus*) and the Pilbara Olive Python (*Liasis olivaceus barroni*) were not recorded by APM, but have the potential to occur, and are important considerations for many developments in the Pilbara region.

Table 5-7: Conservation Significant Fauna recorded by APM, Showing the Number of Bird Individuals observed and the Number of Nights each Bat Species was Recorded

Species	Common Name	Conservation Status		APM Biological Surveys	
		Cth	State	2018 Pre-wet Season	2019 Post-wet Season
Birds					
Accipiter fasciatus	Brown Goshawk	М	-		1
Anthus novaeseelandiae	Australasian pipit	М	-	1	19
Cacomantis pallidus	Pallid Cuckoo	М	-		7
Calidris ruficollis	Red-necked stint	IA, M	IA, Schedule 5	1	
Chalcites osculans	Black-eared Cuckoo	М	-		7
Charadrius ruficapillus	Red-capped Plover	М	-	18	89
Chlidonias hybrida	Whiskered tern	М	-		21
Chroicocephalus novaehollandiae	Silver Gull	М	-	2	1
Coracina novaehollandiae	Black-faced Cuckoo-shrike	М	-	27	15
Egretta garzetta	Little Egret	М	-	2	18
Falco cenchroides	Nankeen Kestrel	М	-	11	17
Grallina cyanoleuca	Magpie-lark	М	-		4
Haliaeetus leucogaster	White-bellied Sea-Eagle	М	-		1
Haliastur indus	Brahminy Kite	М	-	4	1
Haliastur sphenurus	Whistling Kite	М	-	16	5
Himantopus himamtopus	Black-winged Stilt	М	-		13
Hirundo neoxena	Welcome Swallow	М	-		8
Hydroprogne caspia	Caspian Tern	IA	IA, Schedule 5		1
Merops ornatus	Rainbow Bee-eater	М	-	8	
Numenius phaeopus	Whimbrel	IA	IA, Schedule 5		5
Pandion cristatus	Eastern Osprey	IA, M	IA, Schedule 5	2	
Petrochelidon nigricans	Tree Martin	М	-		8

	Common Name	Conservation Status		APM Biological Surveys	
Species		Cth	State	2018 Pre-wet Season	2019 Post-wet Season
Pluvialis fulva	Pacific golden plover	IA, M	IA, Schedule 5		1
Thalasseus bengalensis	Lesser Crested Tern	М	-	1	
Tringa brevipes	Grey-tailed Tattler	IA	IA, Schedule 5, P4		57
Tringa nebularia	Common Greenshank	IA, M	IA, Schedule 5		37
Mammals					
Macroderma gigas	Ghost Bat	VU	VU, Schedule 3		2
Mormopterus cobourgianus	Northern Coastal Free- tailed Bat	-	P1	6	21

5.2.6.1 Migratory and Marine Birds

Of the 26 conservation significant species observed by APM during both surveys, 23 are listed as Marine and 7 are listed as Migratory (a species can be listed as both Marine and Migratory) and are covered under international agreements. None of the species present are listed as Threatened species (under federal or state legislation). The Grey-tailed Tattler (*Tringa brevipes*) is listed as Priority 4 under the BC Act, which means it is Rare or Near Threatened, but not qualifying of listing as Threatened.

The Study Area contains a broad salt plain, draining westwards towards King Bay, with some associated Mangrove vegetation outside the Study Area. As a result, the Study Area provides an important and relatively limited area suitable for migratory waders and shorebirds. Under the guidelines outlined by DoEE (2017), the area does not qualify as Nationally Important Habitat, as there are fewer than 15 migratory species, and less than 2,000 migratory shorebirds that regularly use the area. The Burrup Road, a busy road providing access to the many processing facilities and Port, is situated immediately to the west of the supra-tidal flats. As a result, this area is already subject to noise disturbance from traffic, and the species observed during APM surveys are present despite this disturbance. While further disturbance to this area should be minimised, it is unlikely to present a significant increase to that already created by the Burrup Road.

5.2.6.2 Ghost Bat – Macroderma gigas

The Ghost Bat is the largest microchiropteran bat in Australia and the second largest in the world (*Woinarski et al.* 2014; Richards *et al.* 2008). It is the only carnivorous bat in Australia (Michael & Lindenmayer, 2018) and the sole residing member of the family Megadermatidae (False Vampires) in Australia and is endemic to the continent (Woinarski *et al.* 2014; Richards *et al.* 2008). Originally widespread across mainland Australia, the species has experienced a range contraction, and now only persists in in the Pilbara and Kimberley regions and patchily along coastal Queensland and the northern extent of the Northern Territory (Michael and Lindenmayer, 2018; BHP, 2017; Woinarski *et al.* 2008).

The suitability of roost sites is the most influential and limiting factor for the distribution of these bats (BHP, 2017). While ghost bats have exploited abandoned mine shafts and underground pits and found these types of roost sites to be favourable, this species is particularly sensitive to disturbance and is unlikely to return to a site once it has been disturbed in any way (Michael and Lindenmayer, 2018; BHP, 2017; Woinarski *et al.* 2014).

While it is daytime, they roost in deep, complex natural cave systems and rock fissures with stable temperatures of 23°–28° and a relative humidity of 50-100% (Woinarski *et al.* 2014). Approximately 1 hour after sunset the bats will emerge from their roosts and commence hunting for a period of 2 hours (BHP, 2017). The Ghost Bat uses a surface foraging strategy in which it will perch on vegetation with vantage points to either ambush passing prey on the ground or in the air, or it will glean prey from the ground whilst in flight (Woinarski *et al.* 2014). Bats change viewpoints frequently during foraging activity and may move up to 360 metres between viewpoints

(Woinarski *et al.* 2014). Ghost Bats have an average foraging area of 61 ha, with individuals typically ranging as far out as 1.9 kilometres from their day roosts (Woinarski *et al.* 2014). This species is Australia's only truly carnivorous bat, preying on frogs, birds, mice, small lizards, insects and other bats (Michael and Lindenmayer, 2018; Woinarski *et al.* 2014). Ghost Bats typically fly low to the ground, around fence height, and are prone to collisions with wire fences. Due to low fecundity, even infrequent deaths on fences can have a moderate impact on populations (Woinarski *et al.* 2014).

Upon the commencement of mating season in July, Ghost Bats will concentrate upon relatively few roost sites. The gestation period takes three months from which the offspring are born during September to November. Juveniles hunt with their mothers until they become completely independent. Colony sizes range from a few individuals to greater than 100, although large colonies are now rare. In the Pilbara, colony sizes in natural roosts are generally much smaller, often consisting of just a few animals. It is during the time of breeding and rearing young that these bats are most sensitive to disturbance.

No suitable roosting caves were located within the Study Area during APM surveys, although Ghost Bats were detected on two occasions on the south side of the Study Area in close proximity to rocky outcrops. The creekline in the southwest of the Study Area contained large trees and is in close proximity to the rocky outcrops of Murujuga National Park, where roosting habitat may be present. Given the provision of tall trees as vantage points and the proximity to potential roosting habitat, this creekline is considered important Ghost Bat habitat.

5.2.6.3 Northern Coastal Free-tailed Bat - Mormopterus cobourgianus

The Northern Coastal Free-tailed Bat is listed as Priority 1 under the BC Act as it is a relatively little-known species. There are few published studies on this species, with most relying on general information about the Genus, or field guides. This species occurs in coastal areas of the Pilbara region in WA, and the Top End of the Northern Territory (Churchill, 2008). The Northern Coastal Free-tailed Bat is brown to grey-brown, with a paler belly that is greyish lemon. They roost in the upper dead branches of the Grey Mangrove (*Avicennia marina*), emerging in groups of up to 100 after sunset and dispersing to forage in pairs or alone (Churchill, 2008).

The Northern Coastal Free-tailed Bat generally forages in mangroves and associated monsoon forests and is known to use openings and linear clearings (such as roads or creeks) to navigate through the canopy (Churchill, 2008). Within the Study Area, this species was recorded throughout all habitats, and on many occasions. It is likely that this species may roost in the mangrove vegetation to the west of the Study Area.

5.2.6.4 Northern Quoll – *Dasyurus hallucatus*

The Northern Quoll is considered Endangered under both Commonwealth and State legislation. In addition to its conservation significance, the species is considered a keystone species in the Pilbara, and one of many 'critical-weight range' mammals under threat across Australia.

Northern Quolls are nocturnal, partially arboreal and omnivorous, primarily feeding on invertebrates, small mammals and reptiles (Schmitt *et al.* 1989). Once thought to have occupied almost the entire northern third of Australia, the distribution of Northern Quolls is suspected to have declined by over 75% (Braithwaite & Griffiths, 1994). The Northern Quoll is generally found in rocky and broken country within open Eucalypt forest, however is can occupy a variety of other habitats, including rainforests, sandy lowlands and beaches, shrubland, grasslands and desert. The Northern Quoll will usually den in hollow tree trunks (Hill & Ward, 2010) or in small caves and crevices in rocky outcrops. These areas can be found within deep drainage lines, steep hills and gorges on the island. Management of the Burrup Peninsula population of Northern Quoll is critical to maintain the mainland distribution. Researchers at DBCA have been strongly advising that predator control on the Burrup be increased in order to return the Peninsula to similar densities to that of the neighbouring islands. However, the number of stakeholders involved in in such management makes progress slow. Aerial deployment of predator baits have recently been conducted across the Burrup Peninsula (Department of Parks and Wildlife, 2017).

Northern Quoll have been recorded in close proximity to the Study Area. One record in 1990 is less than 1 km from the proposed site, and another at a similar time is approximately 2.2km away. The most recent record is from the northern point of King Bay which is approximately 2.7 km from the proposed site. Despite a concerted survey effort by APM during the 2018 and 2019 surveys, including cage and Elliot trapping, camera trapping, spotlight searches, and scat searches, Northern Quolls were not recorded. Given the low density of mainland populations of this species, and its cryptic nature, the lack of detections during APM surveys may not indicate the absence of this species from the area. However, the lack of detections does indicate that this species is rare in habitats at the Study Area.

Northern Quolls on the Burrup Peninsula are likely to inhabit complex landforms of rocky outcrops, which can afford greater cover from predators that more open areas. The current survey area does not include the well-developed and extensive rocky outcrops present immediately north and south of the site.

5.2.6.5 Pilbara Olive Python – *Liasis olivaceus barroni*

The Olive Python is endemic to Australia and only occurs within two distinct regions, giving rise to two distinct subspecies; *Liasis olivaceus olivaceus* which occurs from the Kimberley region to the Great Dividing Range in Queensland, and the Pilbara Olive Python (*Liasis olivaceus barroni*), largely restricted to the Hamersley Range and Dampier Archipelago of the Pilbara region. Other populations of the subspecies have also been recorded in Pannawonica, Tom Price, Millstream and also the Burrup Peninsula (Pearson, 2006).

The Pilbara Olive Python has been recorded in areas with gorges, escarpments in close proximity to water holes (Doughty *et al.* 2011). During the cooler months they will typically hide in caves, crevices and fissures away from water sources. However, in the warmer months they become active and tend to stay near rocky outcrops and water. Their preference for water holes is likely due to resulting abundance of prey, rather than a need for drinking water. This species readily swims in water holes to hunt prey. On the Burrup Peninsula, Olive Pythons have been found to prefer granophyre rock piles and occasionally are found in neighbouring spinifex grasslands.

The Breeding season commences from June through to August. The mating pair will isolate themselves in shelter for up to three weeks. The eggs are deposited around October after a gestation period of 3 months and hatch in January, after which the young disperse.

Introduced predators represent the main threats to the Pilbara Olive Python. Foxes and cats will prey upon juvenile pythons and compete with adults for prey (Carwardine *et al.* 2014). Within isolated areas, such as the Burrup Peninsula, development of mining infrastructure may also have adverse impacts on the Pilbara Olive Python. Further, mining development could alter the availability of prey and increase road deaths of this species.

Rocky outcrop areas inside and immediately adjacent to the Study Area were nocturnally searched during both APM surveys; no Pilbara Olive Pythons, however, were recorded. While the rainfall leading up to the 2019 postwet season survey was below average, the cyclone event in the preceding week resulted in some fresh water being available. The frequency with which Pygmy Pythons (*Anteresia perthensis*) were detected during the postwet season survey (5 individuals across 4 nights) suggested that conditions were appropriate for other python species during this survey.

This species is highly cryptic, and occupies complex rocky outcrops and fissures that make detection probability for this species low. As such, it is possible that Pilbara Olive Pythons will use the Study Area. The lack of detections during the APM survey, however, suggest it is infrequent if present. The current survey area does not include the well-developed and extensive rocky outcrops present immediately north and south of the site.

6 CONCLUSION

6.1 VEGETATION OF CONSERVATION SIGNIFICANCE IN THE STUDY AREA

Twenty-six locations in the Study Area have been classified by this assessment as the P1 Priority Ecological Community – Rockpiles of the Burrup Peninsula. These locations are not presently listed on the DBCA database.

Seven vegetation associations have been classified in this assessment to be synonymous with vegetation associations listed by M. E Trudgen & Associates (2002) as being of conservation significance because they have less than 10 occurrences across the Burrup Peninsula and Angel, Gidley and Dolphin Islands. A further 4 have been included as they were listed with 10 to 24 occurrences. Impact assessment on these vegetation types will need to consider the cumulative impact of prior developments.

The EPA (2001) noted that vegetation in the King Bay – Hearson Cove Valley has high conservation value and that part of the floristic variation appears to be uncommon elsewhere on the Peninsula (Trudgen *et al.*, 2001). The EPA (2001) stated that the King Bay – Hearson Cove valley appeared to be the only area on the Peninsula and islands where there is development of both an infrequently submerged littoral zone, an extensive area of samphires, and the littoral grass *Sporobolus virginicus*. It considered that more comparative information was required for the valley vegetation, and that subsequent development needed to incorporate the findings from such work into its planning. Astron Environmental (2005) mapped samphire vegetation in the valley, allowing a more detailed impact and cumulative impact assessment. Outback Ecology (2009) noted that the community mapped as Sm and described as Saline Inlet and Supra-tidal Flats by M. E. Trudgen & Associates (2002) had approximately 56% of this community's extent represented within the proposed Burrup Peninsula Conservation Reserve. Although not classified to the vegetation association level, M. E. Trudgen & Associates (2002) mapped 50 to 99 occurrences of Sm and 25 to 49 occurrences of the littoral grass *Sporobolus virginicus*.

The EPA (2001) noted that the valley is the only broad valley with gentle lower slopes and consequently had the best stands of a part of the range of vegetation structural / dominance units on the Burrup Peninsula (Trudgen, 2001). The Burrup Nitrates project along with other industrial developments in the valley have directly impacted vegetation assemblages considered significant and in general have fragmented the catena / topographic sequence on the northern side of the valley. However, the EPA recognises that the Burrup Peninsula Land Use Plan and Management Strategy (O'Brien Planning Consultants, 1996) set aside about 5,400 ha (62%) of the Burrup Peninsula for conservation, recreation and heritage protection, and that the valley has been set aside for industrial development. The EPA (2001) expects proponents to take reasonable measures to minimise impacts on the vegetation communities of highest importance as defined at a local and regional scale, having taken the available information on vegetation surveys into account when planning the footprint of their plants.

6.2 FLORA OF CONSERVATION SIGNIFICANCE IN THE STUDY AREA

Four flora of conservation significance occur inside the Study Area. Three *Terminalia supranitifolia* (P3) trees occur on rockpile vegetation in the south of the Study Area which are also classified as the P1 PEC - Rockpiles of the Burrup Peninsula. One specimen of *R. bungarensis* (P4) was collected from near the eastern boundary in a shallow drainage area. *T. supranitifolia* is found in other areas on the Burrup Peninsula, and other areas of the Pilbara, while *R. bungarensis* is widespread throughout the Burrup Peninsula. As such, development of the Study Area does not represent a significant loss of either of these species.

6.3 IMPACTS ON FLORA AND VEGETATION

The proposed Project Area as displayed in Figure ES-1 has been laid out to minimise the impact to conservation significant flora and vegetation whilst simultaneously considering the impact to fauna and heritage.

No Priority flora located during the field surveys will be impacted by the proposed layout. *Dolichandrone occidentalis* has been identified previously as being of local conservation significance as the distribution on the Burrup Peninsula is limited to one known area, despite it being widespread on the mainland. The Project Area intersects with small pockets of this species; however the greater part of its distribution is to the north of the Study Area and will not be impacted.

Three small rock outcrops that constitute the Priority 1 ecological community Rockpiles of the Burrup Peninsula are partially intersected by and will be impacted by the proposed layout. They contain the vegetation community BaAcIc: Open low woodland of *Brachychiton acuminatus* over mixed shrubland of *Acacia coriacea, Scaevola spinescens, Ipomoea costata* over herbs and very open grassland of *Triodia epactia* with *Cymbopogon ambiguus* and *Paspalidium clementii*. The Project Area intersects with 0.031 ha of BaAcIc. There are 21 Priority 1 ecological community Rockpiles of the Burrup Peninsula with the vegetation community BaAcIc in the Study Area ranging in size from 0.013 ha to 0.312 ha. In total the BaAcIc in the Study Area covers 1.656 ha and the impact of 0.031 ha will reduce that cover by 1.9%. The total cover of all Priority 1 ecological community Rockpiles of the Burrup Peninsula in the Study Area is 1.876 ha and the impact of 0.031 ha will reduce that cover by 1.7%. It is also noted that there are large, undisturbed areas of the Priority 1 ecological community Rockpiles of the Burrup Peninsula to the north and south of the Study Area, with a large proportion of the total area on the Burrup Peninsula occurring in Reserve areas. As such the proposed impact is not considered to have a significant effect on the overall sustainability of this vegetation type.

The Project Area intersects a number of vegetation associations identified in Trudgen and Associates (2002) as being of regional conservation significance. The area mapped as TaTsRm: *Triodia angusta, Triodia epactia* grassland with *Tephrosia supina* herbland and *Rhyncosia minima* lianes by Trudgen and Associates (2002) was recorded as a single occurrence and thus of high conservation significance. In this Biological Assessment, APM have retained the description given by Trudgen and Associates (2002) but note a much lower abundance of *Tephrosia supina* herbland and *Rhyncosia minima* lianes, likely due to the lower than average rainfall conditions. APM also note that this area is a very narrow (15 m wide) strip of area (both in 2002 and 2019) immediately adjacent to the disturbed and rehabilitated zones to the east. In the Cluster analysis, the site was grouped with other sites based on the presence of *Triodia angusta*, and in the present study this locality is one of the furthest occurrence of *T. angusta* from the inlet. The Project Area intersects 0.024 ha of this mapped vegetation association, or 10% of the total mapped 0.224 ha. Notably, where the Project Area intersects the vegetation association does not contain *T. angusta*, as the majority of the *T. angusta* occurs towards the centre of the mapped distribution.

The Project Area also intersects 0.405 ha (40% of the 1.015 ha in the Study Area) of the vegetation association described by Trudgen and Associates (2002) as ChAbSg *Corymbia hamersleyana* low open woodland over *Acacia bivenosa* high open shrubland over *Dichrostachys spicata* scattered shrubs over *Stemodia grossa* low shrubland to low open heath over *Triodia epactia* hummock grassland. In the current study APM have retained the description. Trudgen and Associates (2002) recorded 4 occurrences of this vegetation association, including one within the Reserved area, and identify it as regionally significant.

The Project Area also intersects three vegetation associations that were recorded by Trudgen and Associates (2002) as having 5 to 9 occurrences. 5.353 ha (65% of the 8.279 ha in the Study Area) of the vegetation association as AbImTe: *Acacia bivenosa* high open shrubland to high shrubland over *Indigofera monophylla* scattered low shrubs to low open shrubland over *Triodia epactia* hummock grassland to closed hummock grassland; 3.143 ha (37% of the 8.486 ha in the Study Area) of the vegetation AbTa: *Acacia bivenosa* high open shrubs over *Triodia angusta* hummock grassland and 0.018 ha (8% of the 0.232 ha in the Study Area) of the vegetation association EvAa: *Eucalyptus victrix* low woodland over *Acacia ampliceps* open heath over *Cyperus vaginatus*, *Eriachne tenuiculmis*, *Triodia angusta* sedgeland and tussock/hummock grassland.

The southwestern corner of the Study Area contains a number of vegetation associations regional conservation significance with between 2 and 10 occurrences. The area is a drainage feature and has a high diversity of flora and vegetation associations in a small area. This locality is of local conservation significance due to this localised diversity. The Project layout has been achieved so that this area will not be directly impacted by the Project.

The Project impact to the vegetation fringing the tidal inlet is restricted to the northern sector, where the vegetation is contained within the pipeline that runs from the north of the Study Area on the western side, then crosses the mudflat. Astron (2005) note that this pipeline interrupts the flow of water in the area and was at that time having a negative impact on the health of the vegetation. In this current biological survey APM recorded lower floristic and vegetative diversity in this area than Astron (2005). This is potentially a longer-term consequence of the disruption to water flows described by Astron (2005). In this current survey for the area within the Project layout, APM have retained the description of the sandy swale vegetation consistent with Trudgen and Associates (2002) who mapped over 100 occurrences of the association (Te)Sv; and retained the samphire description of Astron (2005) (updated to current nomenclature) ThtTil. Astron (2005) considered the condition of this vegetation to be impacted by the drainage issues of existing infrastructure to the extent that the proposed project at that time was unlikely to have significant further impact.

6.4 IMPACTS ON FAUNA OF CONSERVATION SIGNIFICANCE

In total, APM recorded 63 bird, 7 non-volant mammal, 8 bat, 27 reptile and 1 amphibian species during two surveys. Within this assemblage, one Threatened fauna species, the Ghost Bat (*M. gigas*), one Priority 4 species, the Northern Coastal Free-tailed Bat (*M. cobourgianus*), and 26 listed bird species were recorded.

Of the migratory and marine bird species recorded within the Study Area, the most numerous species were the Red-capped Plover (*C. ruficapillus*), Grey-tailed Tattler (*T. brevipes*), and Common Greenshank (*T. nebularia*). While the supra-tidal flats in the Study Area represent a locally important habitat type for migratory shorebirds, its importance on a regional scale is low. For example, an average of 19,800 Red-necked Stints (*C. ruficollis*) seasonally feed in Roebuck Bay (DoEE, 2018) where only one was recorded during the APM surveys. As such, the Study Area is not likely to be of key importance to migratory species. In addition, the area is already subject to disturbance from the busy Burrup road, and as a result any species that currently use the areas are likely to be relatively resilient to anthropogenic disturbance. The current design of the development within the Study Area largely avoids any disturbance to the supra-tidal flats or the surrounding Samphire Shrublands. As there is infrastructure being built on both the north and south sides of the supra-tidal flats, there will be a road across the supra-tidal flats to connect the two areas. This road has been designed with culverts to avoid restricting drainage. This will negate the potential for development to impact this supra-tidal flats habitat or the mangrove vegetation outside the Study Area.

A range of other bird species were recorded, especially in the post-wet season survey in March 2019, including 11 species of raptor. However, no threatened bird species were recorded during surveys. The Grey-tailed Tattler is a Priority 4 species, meaning it is considered near-threatened under the Western Australian state legislation. The lack of threatened bird species using the Study Area indicates that the proposed development is unlikely to reduce the availability of habitat for such species.

The Ghost Bat (*M. gigas*), listed as Vulnerable under both federal and state legislation, was recorded on two evenings in the southern section of the Study Area. This species requires well developed caves for roosting, and disturbance of these caves is one of the primary drivers of this species' decline. This species often forages along creeklines, using the taller trees as vantage points from which to spot prey. The creekline in the south west of the Study Area is likely to provide important foraging habitat for the Ghost Bat, especially given its close proximity to Murujuga National Park, which is likely to provide important roosting opportunities. Where

possible, development of the Study Area should avoid disturbance of this creekline, to avoid possible impacts to this species.

The Northern Coastal Free-tailed Bat (*M. cobourgianus*), listed as Priority 4 (poorly-known) in WA, was also recorded at numerous sites, on multiple occasions, throughout the Study Area. This species is known to roost in Grey Mangroves, which are likely to be present in the vicinity of King Bay to the west of the Study Area. It is unlikely that the Project will impact this species.

During both the pre-wet season, and post-wet season surveys, camera traps were deployed in rocky outcrop areas, and nightly spotlight searches were conducted, in an effort to record the Northern Quoll (*D. hallucatus*) and Pilbara Olive Python (*L. o. barroni*). Cage and Elliot trapping conducted in rocky outcrop sites as part of the broader post-wet season survey is also suitable for the Northern Quoll. Despite this survey effort, neither species was recorded during the APM surveys. While the survey design was appropriate, both species are cryptic and often inhabit complex landscapes where detection is difficult. As a result, the lack of records should not be interpreted as an absence of either species. Given the close proximity of recent records of both species, it is possible that both may be present, albeit infrequently within the Study Area.

The development of the Study Area may present a risk to some species via habitat fragmentation, particularly the Northern Quoll. While 4,913 ha of appropriate habitat has been protected in Murujuga National Park, resulting in 44% of the Burrup Peninsula land mass available for this species being protected from further disturbance, development of the Study Area will effectively separate the northern regions of the peninsula from the southern areas and mainland. This may cause significant fragmentation of the Burrup Peninsula Northern Quoll population. Development of the Study Area may also locally exacerbate the factors that have contributed to the decline of this species. Specifically, the development will not impact denning habitat but will decrease foraging habitat by land clearing and may increase the frequency of fires and the presence of introduced predators such as feral cats (*F. catus*) and red foxes (*V. vulpes*), disease and habitat fragmentation (Hill & Ward, 2010).

REFERENCES

Abrahams, H., Mulvaney, M., Glasco, D., & Bugg, A. (1995) Areas of Conservation Significance on Cape York Peninsula. Available online: http://www.environment.gov.au/archive/erin/cyplus/lup/index.html [accessed December 2018].

Atlas of Living Australia (2018) Atlas of Living Australia. Available online: https://www.ala.org.au/ [accessed December 2018]

Astron Environmental (2001a) Flora and Vegetation Survey of the Proposed Ammonia Plant. Unpublished report for Sinclair Knight Merz Pty Ltd.

Astron Environmental (2001b) Burrup Fertilisers Pty Ltd. Fauna of the Burrup Peninsula and the Proposed Ammonia Plant (Revised version). Unpublished report to Sinclair Knight Merz Pty Ltd

Astron Environmental (2005) *Pluto LNG Development Vegetation and Flora Survey Site A*. Unpublished report for Woodside Petroleum.

Beard, J. S. (1975). *Vegetation Survey of WA, 1:1,000,000 series, Pilbara Sheet and Explanatory Notes*. University of Western Australia Press.

BHP (2017) Mining Area C Southern Flank – Ghost Bat Research Plan, Western Australian Iron Ore. P. 6-9 http://www.epa.wa.gov.au/sites/default/files/Proponent response to submissions/Attachment%2010%20-%20Ghost%20Bat%20Research%20Plan.pdf

Blackwell and Cala (1979) *Vegetation and floristics of the Burrup Peninsula*. Report prepared for Woodside Petroleum.

Braithwaite, R. W. and Griffiths, A. D. (1994) *Demographic variation and range contraction in the northern quoll, Dasyurus hallucatus (Marsupialia : Dasyuridae)*. CSIRO Publishing, https://doi.org/10.1071/WR9940203.

Bureau of Meteorology (2019) *Climate Data Online*. Available online: http://www.bom.gov.au/climate/data/ [accessed May 2019].

Carwardine, J., S. Nicol, S. Van Leeuwen, B. Walters, J. Firn, A. Reeson, T.G. Martin & I. Chades (2014). *Priority Threat Management of Pilbara Species of Conservation Significance*. CSIRO Ecosystems Sciences, Brisbane. https://publications.csiro.au/rpr/pub?list=SEA&pid=csiro:EP14416.

Churchill, S., (2008) Australian Bats, Allen and Unwin, Crows Nest, Australia

Clarke RK and Gorley RN (2015) PRIMER v7: User Manual/Tutorial. PRIMER-E.

Department of Conservation and Land Management (1999) *Environmental Weed Strategy for Western Australia*. Available online: https://www.dpaw.wa.gov.au/images/documents/plants-animals/plants/weeds/environmental_weed_strategy_wa.pdf [accessed December 2018].

Department of the Environment (2012) *Interim Biogeographic Regionalisation for Australia (Regions - States and Territories)*v. 7. ESRI shapefile available online: http://intspat01.ris.environment.gov.au/fed/catalog/search/resource/details.page?uuid=%7BFB89EEC9-5ABE-4CCD-B50E-7D485A3BAA4C%7D [accessed December 2018].

Department of Environment and Conservation (2013) *Murujuga National Park Management Plan 78*. Available online: https://www.dpaw.wa.gov.au/images/documents/parks/management-plans/decarchive/murujuga-national-park-management-web-final.pdf [accessed December 2018].

Department of Mineral and Petroleum Resources (2002) *Vegetation Associations of the Burrup Peninsula, Western Australia. Coloured to show the frequency of occurrence in classes as a guide to the relative rarity within the Burrup Peninsula*. 1: 8,000; February 2002.

Department of Parks and Wildlife (2013). Recovery Plan for Five Species of Rock Wallabies. Available online: http://www.environment.gov.au/system/files/resources/a707e585-3f05-4540-bf3d-1b28ff57d455/files/rock-wallabies-recovery-plan.pdf [accessed December 2018]

Department of the Environment and Energy (2017). EPBC Act Policy Statement 3.21—Industry guidelines for avoiding, assessing and mitigating impacts on EPBC Act listed migratory shorebird species, Commonwealth of Australia 2017

Department of the Environment and Energy (2018) *Species Profile and Threats Database*. Available online: http://www.environment.gov.au/sprat [accessed November 2018]

Department of Water and Environmental Regulation (2018) *MapViewer*. Available online: https://cps.dwer.wa.gov.au [accessed December 2018].

Doughty, P., Rolfe, J. K., Burbidge, A. H., Pearson, D. J. and Kendrick, P. G. (2011) *Herpetological Assemblages of the Pilbara Biogeographic Region, Western Australia: Ecological Associations, Biogeographic Patterns and Conservation*. Records of the Western Australian Museum, Supplement 78:315–341

English, V. and Blyth, J. (1997). Identifying and Conserving Threatened Ecological Communities (TECS) in the South West Botanical Province. Department of Conservation and Land Management.

ENV Australia (2006) *Site B North Flora and Vegetation Assessment Survey.* Available online: http://www.epa.wa.gov.au/sites/default/files/PER_documentation/1632-PER-Technical%20Report%20-%20combined.pdf [accessewd December 2018]

Environmental Protection Authority of Western Australia (2000) Report and Recommendations of the Environmental Protection Authority: Proposewd Gas to Synthetic Hydrocarbons Plant, Burrup Peninsula, Western Australia. http://www.epa.wa.gov.au/sites/default/files/EPA Report/947 B985.pdf [accessed December 2018].

Environmental Protection Authority of Western Australia (2001) Report and Recommendations of the Environmental Protection Authority: Ammonia Plant, Burrup Peninsula. Available online: http://www.epa.wa.gov.au/sites/default/files/EPA_Report/998_B1036.pdf [accessed December 2018].

Environmental Protection Authority of Western Australia (2002) Report and Recommendations of the Environmental Protection Authority: Ammonia-Urea Plant, Burrup Peninsula. Available online: http://www.epa.wa.gov.au/sites/default/files/EPA Report/Bull 1065.pdf [accessed December 2018].

Environmental Protection Authority of Western Australia (2016a) *Technical Guidance: Flora and Vegetation Surveys* for Environmental Impact Assessment. Available online: http://www.epa.wa.gov.au/sites/default/files/Policies and Guidance/EPA%20Technical%20Guidance%20-%20Flora%20and%20Vegetation%20survey Dec13.pdf [accessed December 2018]

EPA (2016b) Environmental Factor Guideline: Flora and Vegetation. Available online: http://www.epa.wa.gov.au/sites/default/files/Policies and Guidance/Guideline-Flora-Vegetation-131216 4.pdf [accessed June 2019].

EPA (2016c) *Technical Guidance: Terrestrial Fauna Surveys.* Available online: http://www.epa.wa.gov.au/sites/default/files/Policies and Guidance/Tech%20guidance- %20Terrestrial%20Fauna%20Surveys-Dec-2016.pdf [accessed June 2019].

EPA (2016d) *Technical Guidance: Sampling methods for terrestrial vertebrate fauna*. Available online: http://www.epa.wa.gov.au/sites/default/files/Policies and Guidance/Tech%20guidance-%20Sampling-TV-fauna-Dec2016.pdf [accessed June 2019].

EPA (2016e) Environmental Factor Guideline: Terrestrial Fauna. Available online: http://www.epa.wa.gov.au/sites/default/files/Policies and Guidance/Guideline-Terrestrial-Fauna-131216 3.pdf [accessed June 2019].

Hickman, A.H. (1983) *Geology of the Pilbara Block and its Environs*. Geological Survey of Western Australia. Bulletin 127.

Hill B. M. and Ward S. J. (2010) *National Recovery Plan for the Northern Quoll Dasyurus hallucatus*. Department of Natural Resources, Environment, The Arts and Sport, Darwin.

Keighery (1994) *Vegetation Condition Scale adapted from Keighery 1994 and Trudgen 1988 as presented in the Technical Guidance for Flora and Vegetation Surveys for Environmental Impact Assessment*. Environmental Protection Authority. Government of Western Australia.

M.E. Trudgen & Associates (2002) A flora, vegetation and floristic survey of the Burrup Peninsula, some adjoining areas and part of the Dampier Archipelago, with comparisons to the floristics of areas on the adjoining mainland *Volume 1*. Vegetation survey prepared for Department of Mineral and Petroleum Resources.

McKenzie, N. L., May, J. E. and McKenna, S. (2003) *Bioregional Summary of the 2002 Biodiversity Audit for Western*Australia. Available online: https://www.dpaw.wa.gov.au/images/documents/about/science/projects/waaudit/2002 bio summary.pdf [accessed December 2018].

Michael, D. and Lindenmayer, D. (2018) *Rocky Outcrops in Australia: Ecology, Conservation and Management*. CSIRO

Publishing. <a href="https://books.google.com.au/books?hl=en&lr=&id=Y_9JDwAAQBAJ&oi=fnd&pg=PP1&dq=Conserving+Pilbara+olive+pythons+on+the+Burrup&ots=mwVc0P98N7&sig=c3Z1gmzllGWsynQ960qJrOCwZGY#v=onepage&q&f=false

O'Brien Planning Consultants (1996) Burrup Peninsula Land Use Plan and Management Strategy. Available online: https://www.landcorp.com.au/Documents/Projects/Industrial/Burrup%20SIA/Burrup-Strategic-Industrial-Area-Land-Use-Plan-and-Management-Strategy-LandCorp.pdf [accessed December 2018].

Outback Ecology (2009) Level 1 Flora Survey. Proposed Technical Ammonium Nitrate Production Facility site, Burrup Peninsula. Unpublished report prepared for ERM on behalf of Burrup Fertilisers Pty Ltd.

Pearson, D. J. (2006) Giant Pythons of the Pilbara, Landscope, vol. 19, pp. 32-39.

Pearson, D. J. and Eldridge, M. D. B. (2008) Rothschild's Rock wallaby Petrogale rothschildi. Pp.389-390 In S. van Dyck and R. Strahan (eds.) *The Mammals of Australia 3rd Edition*. Reed New Holland, Sydney.

Richards, G. C., Hand, S., Armstrong, K. A., & Hall, L. S. (2008). Ghost Bat Macroderma gigas. In *The Mammals of Australia*. Third Edition. (Eds S. Van Dyck & R. Strahan), pp. 449-450. Reed New Holland, Chatswood.

Schmitt, L.H., Bradley, A.J., Kemper, C.M., Kitchener, D.J., Humphreys, W.F., How, R.A., (1989) *Ecology and physiology of the northern quall, Dasyurus hallucatus (Marsupialia, Dasyuridae), at Mitchell Plateau, Kimberley, Western Australia*. Journal of Zoology 217, 539-558.

Thackway, R. and Cresswell, I. D. (1995) *An Interim Biogeographic Regionalisation for Australia*. Available online: https://www.environment.gov.au/system/files/resources/4263c26f-f2a7-4a07-9a29-b1a81ac85acc/files/ibra-framework-setting-priorities-nrs-cooperative-program.pdf [accessed September 2018].

Trudgen, M.E. (1988) A Report on the Flora and Vegetation of the Port Kennedy Area. Unpublished report prepared for Bowman Bishaw and Associates, West Perth.

Trudgen, M.E. and Griffin, E. A. (2001) Floristic analysis of vegetation site data from the Burrup Peninsula, Dolphin, Angel and Gidley Islands with data from Cape Preston the Chichester Ranges and other locations. A flora, vegetation and floristic survey of the Burrup Peninsula, some adjoining areas and part of the Dampier Archipelago, with comparisons to the floristics of areas on the adjoining mainland Volume 2. For the Department of Mineral and Petroleum Resources. Perth, WA.

Trudgen, M. E, Weston, A. and Long, V. (2001) *Burrup Vegetation Classification*. Unpublished Flora List of Burrup Peninsula.

Worley Astron (2006) Pluto LNG Development Desktop Fauna Report. Prepared for Sinclair Knight Merz.

van Dyck, S. and Strahan, R. (2008) The Mammals of Australia (3rd ed). New Holland Publishers, Sydney

van Vreeswyk, K. A., Payne, A. M. E., Leighton, A. L. and Hennig, P. (2004) *An inventory and condition survey of the Pilbara region, Western Australia*. Available online: https://researchlibrary.agric.wa.gov.au/cgi/viewcontent.cgi?article=1006&context=tech_bull [accessed December 2018].

Western Australian Herbarium (1998–) *FloraBase—the Western Australian Flora*. Available online: https://florabase.dpaw.wa.gov.au/ [accessed December 2018]

Western Wildlife (2008). *Phil's Creek Project Area: Fauna Survey*. Available online: http://www.environment.gov.au/epbc/notices/assessments/2009/5107/reconsider-additional-doc2.pdf [accessed December 2018]

Woinarski, J. C. Z., Burbidge, A. A., & Harrison, P. L. (2014). *The Action Plan for Australian Mammals 2012*. CSIRO Publishing, Collingwood.

Worley Astron (2006) *Pluto LNG Development Desktop Fauna Report 2006*. Unpublished report for Sinclair Knight Merz.

APPENDICES

APPENDIX A: DEPARTMENT OF BIODIVERSITY C	CONSERVATION AND ATTRACTIONS PROTECTED BIOTA CATEGORIES
	CATEGORIES





CONSERVATION CODES

For Western Australian Flora and Fauna

Specially protected fauna or flora¹ are species² which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such.

Categories of specially protected fauna and flora are:

T Threatened species

Published as Specially Protected under the *Wildlife Conservation Act 1950*, and listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.

Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR Critically endangered species

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EN Endangered species

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

VU Vulnerable species

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EX Presumed extinct species

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

IA Migratory birds protected under an international agreement

Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

CD Conservation dependent fauna

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

OS Other specially protected fauna

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

P Priority species

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna.

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

1 Priority 1: Poorly-known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

2 Priority 2: Poorly-known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

3 Priority 3: Poorly-known species

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

4 Priority 4: Rare, Near Threatened and other species in need of monitoring

- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

¹ The definition of flora includes algae, fungi and lichens

²Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).

APPENDIX B: DATABASE (2018) AND HISTORICAL SURVEY TERRESTRIAL FAUNA AND FLORA RECORDS

Taxon	Cons_Code	Latitude	Longitude	Date
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	1		115.1333333	3/08/1963
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	1		117.15	/08/1982
Atriplex lindleyi subsp. conduplicata	3			7/11/1996
Carpobrotus sp. Thevenard Island (M. White 050)	3		115.0196	24/08/1990
Carpobrotus sp. Thevenard Island (M. White 050)	3		115.0166667	23/06/1988
Corchorus congener Corchorus congener	3		115.3266667 115.4	21/11/1965 /10/1980
Corchorus congener	3		115.4	/10/1980
Corchorus congener	3			29/04/1964
Corchorus congener	3	-20.76666667	115.4	4/06/1991
Cucumis sp. Barrow Island (D.W. Goodall 1264)	2	-20.80199897	115.449625	1/10/2015
Cucumis sp. Barrow Island (D.W. Goodall 1264)	2		115.4	/10/1980
Cucumis sp. Barrow Island (D.W. Goodall 1264)	2		115.3333333	5/06/1991
Cucumis sp. Barrow Island (D.W. Goodall 1264)	2			/06/1964
Cucumis sp. Barrow Island (D.W. Goodall 1264) Eleocharis papillosa	3		115.3266667 114.979944	26/06/1964 14/03/2011
Eragrostis lanicaulis				/03/1921
Eragrostis lanicaulis	3			/03/1921
Eragrostis surreyana	3	-20.566933	116.823335	27/06/2000
Eragrostis surreyana	3		116.8237778	27/05/2009
Eragrostis surreyana	3		116.824	27/05/2009
Eremophila forrestii subsp. viridis	3			19/08/2009
Eremophila forrestii subsp. viridis Gomphrena cucullata	3		115.1116667 116.58295	28/08/1960 11/07/2004
Gomphrena leptophylla	3		116.58295	11/07/2004
Goodenia nuda	4		115.9935363	31/07/2002
Goodenia pallida	1	-20.83333333	116.5	11/08/1970
Gymnanthera cunninghamii	3	-20.59472222	116.6113889	13/06/1962
Gymnanthera cunninghamii	3		116.4833333	/02/1818
Gymnanthera cunninghamii	3		116.4833333	/02/1818
Gymnanthera cunninghamii	3		116.4833333	13/05/1982
Gymnanthera cunninghamii	3			2/09/1987
Helichrysum oligochaetum Helichrysum oligochaetum	1		117.18 117.1833333	// //
Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479)				21/08/2005
Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479)	3			21/08/2005
Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479)	3	3 -20.79114	116.79464	11/09/2004
Owenia acidula	3	-21.18333333	115.9833333	//
Owenia acidula	3		115.9833333	10/12/1949
Owenia acidula	3		115.9833333	10/12/1949
Owenia acidula	3		115.9833333	10/12/1949
Owenia acidula Owenia acidula	3		115.9833333 115.9816667	19/08/1966 5/03/1953
Pentalepis trichodesmoides subsp. hispida	2			8/10/1992
Rhynchosia bungarensis	-		116.835262	27/06/2000
Rhynchosia bungarensis	4		116.727778	30/11/2010
Rhynchosia bungarensis	4	-20.56552778	116.824	27/05/2009
Rhynchosia bungarensis	4		116.788	26/05/2009
Rhynchosia bungarensis	4		116.824	27/05/2009
Rhynchosia bungarensis	4			27/05/2009
Rhynchosia bungarensis Rhynchosia bungarensis	4		116.7592778 116.6113889	29/05/2009 14/06/1962
Rhynchosia bungarensis	4		116.84	5/06/1962
Rhynchosia bungarensis	4		116.6333333	9/11/1987
Rhynchosia bungarensis	4	-20.6	116.5166667	19/07/1980
Rhynchosia bungarensis	4	-20.530114	116.835262	27/06/2000
Rhynchosia bungarensis	4			29/05/2000
Rhynchosia bungarensis	4		116.835262	27/06/2000
Rhynchosia bungarensis	2		116.835262	27/06/2000
Rhynchosia bungarensis Rhynchosia bungarensis	2			29/05/2000 29/05/2000
Rhynchosia bungarensis				26/06/2000
Rhynchosia bungarensis	4		116.782273	22/05/2000
Rhynchosia bungarensis	4	-20.534969	116.819554	27/05/2000
Rhynchosia bungarensis	4			26/05/2000
Rhynchosia bungarensis	4			27/05/2000
Rhynchosia bungarensis	4			26/05/2000
Rhynchosia bungarensis Rhynchosia bungarensis	2		116.838079 116.838079	27/05/2000 27/05/2000
Rhynchosia bungarensis	-			5/06/2000
Rhynchosia bungarensis	4			25/05/2000
Rhynchosia bungarensis	4	-20.640271	116.777358	20/05/2000
Rhynchosia bungarensis	4	-20.546327	116.828242	25/05/2000
Rhynchosia bungarensis	4			20/05/2000
Rhynchosia bungarensis	4		116.745265	3/06/2000
Rhynchosia bungarensis	4			21/05/2000
Rhynchosia bungarensis Rhynchosia bungarensis	2		116.721464 116.759739	28/05/2000 21/05/2000
Rhynchosia bungarensis	-			5/06/2000
Rhynchosia bungarensis	4		116.837843	25/05/2000
Rhynchosia bungarensis	4	-20.78333333	116.7666667	21/09/1983
Rhynchosia bungarensis	4			7/06/2017
Schoenus punctatus	3			10/07/1999
Stackhousia clementii	3		116.784159	30/04/2002
Stackhousia clementii Stackhousia clementii	3		116.7560462 115.118028	24/02/2013 30/08/2011
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1			7/10/2007
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1			9/10/2007
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1		117.143611	10/03/2008
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1	-20.616417	117.150972	5/10/2007

Tanhyasia rassa yar Dart Hadland (A.C. Caarga 1114)	1	-20.62675509	117 1010421	4/09/2012
Tephrosia rosea var. Port Hedland (A.S. George 1114) Tephrosia rosea var. Port Hedland (A.S. George 1114)	1	-20.62675509	117.1810431 117.0941985	3/09/2012
Tephnosia rosea var. Port Hediand (A.S. George 1114)	1	-20.62334288	117.1491159	4/09/2012
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1	-20.6213672	117.1654401	3/09/2012
Tephnosia rosea var. Port Hediand (A.S. George 1114)	1	-20.62334288	117.1491159	4/09/2012
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1	-20.62972222	117.1897222	/08/1984
Tephnosia rosea var. Port Hedland (A.S. George 1114)	1	-20.63333333	117.1037222	8/10/1992
Terminalia supranitifolia	3	-20.66666667	116.7	/12/1986
Terminalia supranitifolia	3	-20.67040184	116.7569983	2/11/1998
Terminalia supranitifolia	3	-20.64153748	116.796257	12/11/1998
Terminalia supranitifolia	3	-20.6359749	116.7917049	15/11/1998
Terminalia supranitifolia	3	-20.63333333	116.75	6/12/1978
Terminalia supranitifolia	3	-20.63597546	116.7916969	15/11/1998
Terminalia supranitifolia	3	-20.64153102	116.7962525	12/11/1998
Terminalia supranitifolia	3	-20.67039265	116.7570029	2/11/1998
Terminalia supranitifolia	3	-20.63861588	116.7937555	10/11/1998
Terminalia supranitifolia	3	-20.64257507	116.7732557	26/11/1998
Terminalia supranitifolia	3	-20.65113121	116.7725423	26/11/1998
Terminalia supranitifolia	3	-20.63333333	116.8	11/03/1983
Terminalia supranitifolia	3	-20.63333333	116.8	11/03/1983
Terminalia supranitifolia	3	-20.63333333	116.8	11/03/1983
Terminalia supranitifolia	3	-20.78333333	116.7666667	10/02/1982
Terminalia supranitifolia	3	-20.66666667	116.75	21/07/2004
Terminalia supranitifolia	3	-20.66666667	116.7	/12/1971
Terminalia supranitifolia	3	-20.65430143	116.7784031	24/11/1998
Terminalia supranitifolia	3	-20.65839632	116.7796453	5/11/1998
Terminalia supranitifolia	3	-20.65611998	116.773226	24/11/1998
Terminalia supranitifolia	3	-20.64520398	116.7798082	22/11/1998
Terminalia supranitifolia	3	-20.64068437	116.7785477	22/11/1998
Terminalia supranitifolia	3	-20.66687903	116.764387	28/11/1998
Terminalia supranitifolia	3	-20.66859454	116.7634242	2/11/1998
Terminalia supranitifolia	3	-20.66073537	116.7717119	3/11/1998
Terminalia supranitifolia	3	-20.64303766	116.7677738	28/11/1998
Terminalia supranitifolia	3	-20.65870665	116.7750463	3/11/1998
Terminalia supranitifolia	3	-20.63536052	116.7993944	10/11/1998
Terminalia supranitifolia	3	-20.63333333	116.8	/05/1983
Terminalia supranitifolia	3	-20.65249621	116.7871513	8/11/1998
Terminalia supranitifolia	3	-20.65143609	116.7921831	8/11/1998
Terminalia supranitifolia	3	-20.63373596	116.7859391	20/11/1998
Terminalia supranitifolia	3	-20.64244207	116.78226	20/11/1998
Terminalia supranitifolia	3	-20.64676249	116.7832234	18/11/1998
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	3	-20.72916667	116.7622222	20/08/1992
Triumfetta echinata	3	-21.77707459	115.0853797	1/11/2009
Triumfetta echinata	3	-21.63805556	115.3438889	25/10/1980
Triumfetta echinata	3	-21.59972222	115.2938889	5/11/1996
Vigna triodiophila	3	-20.61416667	116.7752778	9/06/2011
Vigna triodiophila	3	-20.609139	116.782	21/05/2000
Vigna triodiophila	3	-20.648704	116.759173	21/05/2000
Vigna triodiophila	3	-20.58063	116.79481	22/05/2000
Vigna triodiophila	3	-20.64661469	116.7606137	29/05/2009
Vigna triodiophila	3	-20.68711287	117.0081136	26/05/2009
	3	-20.649002	116.75947	21/05/2000
Vigna triodiophila				

COM_NAME	STATE_CATG
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Burrup Peninsula rock pool communities	Priority
Burrup Peninsula rock pool communities	Priority

NAME_SCI	GENUS	SPECIES	NAME_COM	=	GDA_LAT	
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5	-20.5	1980
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5	-20.5	1983
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5	-20.5	1977
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5	-20.5	1981
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5872	-20.4689	1998
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.85	-20.45	2005
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.91	-20.41	0
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.8494	-20.4843	(
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.6283	-20.4564	(
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.6343	-20.5843	(
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5194	-20.6069	1983
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5194	-20.6069	1983
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5194	-20.6069	1984
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.6343	-20.5843	1984
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.8494	-20.4843	1990
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5194	-20.6069	1990
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.6343	-20.5843	1990
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.5872	-20.4689	1998
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.85	-20.45	2005
Actitis hypoleucos	Actitis	hypoleucos	common sandpiper	116.6283	-20.4564	(
Anous stolidus	Anous	stolidus	common noddy	116.7833	-20.5833	1988
Anous stolidus	Anous	stolidus	common noddy	116.6283	-20.4564	C
Anous stolidus	Anous	stolidus	common noddy	116.5381	-20.4778	1983
Anous stolidus	Anous	stolidus	common noddy	116.6254	-20.4528	1983
Anous stolidus	Anous	stolidus	common noddy	116.6283	-20.4564	(
Apus pacificus	Apus	pacificus	fork-tailed swift	116.5194	-20.6069	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5	-20.5	1981
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5	-20.5	1977
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5	-20.5	1974
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5	-20.5	1983
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5	-20.5	1966
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.58	-20.58	1979
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.58	-20.58	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5808	-20.4758	1999
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5872	-20.4689	1998
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6583	-20.525	1999
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.91	-20.41	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.7768	-20.5405	C
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8494	-20.4843	C
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6592	-20.6094	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6225	-20.4697	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5381	-20.4778	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6283	-20.4564	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6396	-20.4392	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5936	-20.4817	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6343	-20.5843	(
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8064	-20.4931	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8056	-20.3858	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.7768	-20.5405	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8494	-20.4843	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.4444	-20.6572	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6831	-20.6547	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6225	-20.4697	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5194	-20.6069	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8317	-20.3889	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5381	-20.4778	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8494	-20.4843	1982
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6283	-20.4564	1983
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6283	-20.4564	1983
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6283	-20.4564	1990
archana interpres	Arenalid	interpres	raday turnstone	110.0263	-20.4304	1391

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	DATE
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8494	-20.4843	1983
Arenaria interpres	Arenaria	interpres	•	116.8494	-20.4843	1983
Arenaria interpres	Arenaria	interpres		116.7768	-20.5405	1983
Arenaria interpres	Arenaria	interpres	•	116.5194	-20.6069 -20.5405	1983 1983
Arenaria interpres Arenaria interpres	Arenaria Arenaria	interpres interpres		116.7768 116.8317	-20.3403	1983
Arenaria interpres	Arenaria	interpres	· · · · · · · · · · · · · · · · · · ·	116.4444	-20.6572	1983
Arenaria interpres	Arenaria	interpres	•	116.6393	-20.4388	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5381	-20.4778	1983
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5194	-20.6069	1984
Arenaria interpres	Arenaria	interpres	•	116.8056	-20.3858	1984
Arenaria interpres	Arenaria	interpres		116.8064	-20.4931	1984
Arenaria interpres	Arenaria	interpres	-	116.5936	-20.4817	1984
Arenaria interpres	Arenaria Arenaria	interpres	ruddy turnstone ruddy turnstone	116.8317 116.6393	-20.3889 -20.4388	1984 1984
Arenaria interpres Arenaria interpres	Arenaria	interpres interpres		116.5936	-20.4366	1984
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5381	-20.4817	1984
Arenaria interpres	Arenaria	interpres		116.5936	-20.4817	1990
Arenaria interpres	Arenaria	interpres		116.6343	-20.5843	1990
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6583	-20.525	1999
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5808	-20.4758	1999
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5872	-20.4689	1998
Arenaria interpres	Arenaria	interpres	·	116.8494	-20.4843	1978
Arenaria interpres	Arenaria	interpres	· · · · · · · · · · · · · · · · · · ·	116.6225	-20.4697	1981
Arenaria interpres	Arenaria	interpres	•	116.8064	-20.4931	2014
Arenaria interpres Arenaria interpres	Arenaria Arenaria	interpres interpres		116.7768 116.6283	-20.5405 -20.4564	0
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.8317	-20.4304	0
Arenaria interpres	Arenaria	interpres		116.8806	-20.3881	1998
Arenaria interpres	Arenaria	interpres	•	116.8202	-20.5862	1999
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.6583	-20.525	1999
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5822	-20.4745	1999
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5885	-20.4676	1998
Arenaria interpres	Arenaria	interpres	·	116.7597	-20.6403	1999
Arenaria interpres	Arenaria	interpres	· · · · · · · · · · · · · · · · · · ·	116.7047	-20.6662	2010
Arenaria interpres	Arenaria	interpres	•	116.7972	-20.6331	1999
Arenaria interpres Arenaria interpres	Arenaria Arenaria	interpres interpres	ruddy turnstone ruddy turnstone	116.5013 116.918	-20.4987 -20.4153	1981 1980
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5847	-20.4133	1980
Arenaria interpres	Arenaria	interpres		116.5847	-20.4153	1980
Arenaria interpres	Arenaria	interpres	•	116.5847	-20.4153	1981
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.7513	-20.582	1981
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.7513	-20.582	1981
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5847	-20.582	1981
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5847	-20.4153	1978
Arenaria interpres	Arenaria	interpres	•	116.5013	-20.4987	1977
Arenaria interpres	Arenaria Arenaria	interpres	•	116.5847 116.5847	-20.582	1979
Arenaria interpres Arenaria interpres	Arenaria	interpres interpres		116.7513	-20.4153 -20.582	1979 1979
Arenaria interpres	Arenaria	interpres	ruddy turnstone	116.5013	-20.382	1980
Calidris acuminata	Calidris	acuminata	· · · · · · · · · · · · · · · · · · ·	116.5194	-20.6069	1984
Calidris acuminata	Calidris	acuminata	sharp-tailed sandpipe	116.4444	-20.6572	1990
Calidris acuminata	Calidris	acuminata	sharp-tailed sandpipe	116.5194	-20.6069	1990
Calidris acuminata	Calidris	acuminata	sharp-tailed sandpipe	116.7513	-20.582	1981
Calidris alba	Calidris	alba	sanderling	116.5	-20.5	1983
Calidris alba	Calidris	alba	sanderling	116.85	-20.45	2005
Calidris alba	Calidris	alba		116.8513	-20.4487	2005
Calidris alba Calidris alba	Calidris Calidris	alba alba	sanderling sanderling	116.8806 116.8513	-20.3881 -20.4487	1998 2005
Calidris alba	Calidris	alba	=	116.5013	-20.4487	1981
Calidris canutus	Calidris	canutus	red knot, knot	116.4444	-20.6572	1990
Calidris canutus	Calidris	canutus	red knot, knot	116.5	-20.5	1980
Calidris canutus	Calidris	canutus	red knot, knot	116.8494	-20.4843	1978
Calidris canutus	Calidris	canutus	red knot, knot	116.5013	-20.4987	1980
Calidris ferruginea	Calidris	ferruginea	curlew sandpiper	116.8494	-20.4843	1990
Calidris ferruginea	Calidris	ferruginea		116.5194	-20.6069	1990
Calidris ferruginea	Calidris	ferruginea	curlew sandpiper	116.5	-20.5	1977
Calidris formulainea	Calidris	ferruginea	curlew sandpiper	116.5 116.5013	-20.5 -20.4987	1966
Calidris ferruginea Calidris ruficollis	Calidris Calidris	ferruginea ruficollis		116.5936	-20.4987	1977 1984
Calidris ruficollis	Calidris	ruficollis		116.8494	-20.4817	1990
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5936	-20.4817	1990
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5	-20.5	1977
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5	-20.5	1983
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5	-20.5	1980
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5	-20.5	1981
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.85	-20.45	2005
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.8513	-20.4487	2005
Calidris ruficollis	Calidris	ruficollis		116.8513	-20.4487	2005
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Calidris ruficollis	Calidris	ruficollis		116.7972	-20.6331	1999
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5847	-20.4153	1978
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5013	-20.4987	1978
Calidris ruficollis	Calidris	ruficollis		116.5013	-20.4987	1977
Calidris ruficollis	Calidris	ruficollis	red-necked stint	116.5013	-20.4987	1980
Caretta caretta	Caretta	caretta	loggerhead turtle	116.917	-20.3999	2008
Caretta caretta	Caretta	caretta	loggerhead turtle	116.8317	-20.3889	1984
Caretta caretta	Caretta	caretta	loggerhead turtle	116.917	-20.3999	2008
Charadrius leschenaultii	Charadrius	leschenaultii	greater sand plover, li	116.6283	-20.4564	0

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Charadrius mongolia	Charadrius mongolus	Charadrius	mongolus	lesser sand plover	116.6283	-20.4564	1983
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT [DATE
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
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Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
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Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle green turtle	116.917	-20.3999 -20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia	mydas mydas	green turtle green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
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Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
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Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	DATE
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas	green turtle green turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Chelonia	mydas mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.5	-20.6	2010
Chelonia mydas	Chelonia	mydas	green turtle	116.675	-20.5178	1984
Chelonia mydas	Chelonia	mydas	green turtle	116.8597	-20.4044	1984
Chelonia mydas	Chelonia	mydas	green turtle	116.8317	-20.3889	1984
Chelonia mydas	Chelonia	mydas	green turtle	116.5389	-20.5356	1984
Chelonia mydas	Chelonia	mydas	green turtle	116.5936	-20.4817	2004
Chelonia mydas	Chelonia	mydas	green turtle	116.5936	-20.4817	2004
Chelonia mydas	Chelonia	mydas	green turtle	116.8064	-20.4931	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8119	-20.5735	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8494	-20.4843	0
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas	green turtle green turtle	116.4444 116.6831	-20.6572 -20.6547	0 0
Chelonia mydas Chelonia mydas	Chelonia	mydas mydas	green turtle	116.5194	-20.6069	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8211	-20.4486	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8806	-20.3881	0
Chelonia mydas	Chelonia	mydas	green turtle	116.5936	-20.4817	0
Chelonia mydas	Chelonia	mydas	green turtle	116.4444	-20.6572	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8211	-20.4486	0
Chelonia mydas	Chelonia	mydas	green turtle	116.5194	-20.6069	0
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Chelonia mydas	Chelonia	mydas	green turtle	116.8806	-20.3881	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8494	-20.4843	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8119	-20.5735	0
Chelonia mydas	Chelonia	mydas	green turtle	116.6831	-20.6547	0 0
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Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.8064	-20.4931	0
Chelonia mydas	Chelonia	mydas	green turtle	116.5936	-20.4817	0
Chelonia mydas	Chelonia	mydas	green turtle	116.8806	-20.3881	0
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
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Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas	green turtle green turtle	116.917	-20.3999 -20.3999	2008 2008
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Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle green turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle green turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT D	DATE
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle green turtle	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle green turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2008
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle green turtle	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas	green turtle green turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Chelonia	mydas mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle green turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas mydas	green turtle	116.917 116.917	-20.3999	2009 2009
Chelonia mydas Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle green turtle	116.917	-20.3999 -20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia	mydas mydas	green turtie green turtie	116.917	-20.3999 -20.3999	2009
Chelonia mydas Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.917	-20.3999	2009
Chelonia mydas	Chelonia	mydas	green turtle	116.5074	-20.6218	2013
Chelonia mydas	Chelonia Chelonia	mydas mydas	green turtle	116.5745 116.5074	-20.4629 -20.6218	2013 2013
Chelonia mydas	CHEIUIIId	mydas	green turtle	110.30/4	-20.0210	2013

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	DATE
Chelonia mydas	Chelonia	mydas	green turtle	116.5745	-20.4629	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1899
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1970
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.85	-20.4833	0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.85	-20.4833	0
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll northern quoll	116.8333 116.8333	-20.4833	1986 1986
Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus hallucatus	northern quoli	116.8333	-20.4833 -20.4833	1986
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyurus	hallucatus	northern quali	116.8333 116.8333	-20.4833	1986
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	116.85	-20.4833 -20.4833	1986 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.85	-20.4833	0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4833	1900
Dasyurus hallucatus	Dasyurus	hallucatus	northern quali	116.8333	-20.4833	1980
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll northern quoll	116.8333 116.748	-20.4833 -20.6227	1970 2015
Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus hallucatus	northern quoli	116.748	-20.6227	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8212	-20.5115	2012
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	116.8212 116.8212	-20.5115 -20.5115	2012 2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quali	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8349	-20.4854	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8332	-20.4876	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8344	-20.4842	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8345	-20.4839	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8347	-20.4837	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8332	-20.4876	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8345	-20.4839	2013
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	116.8332 116.8349	-20.4876 -20.4833	2013 2013
Dasyurus hallucatus	Dasyurus	hallucatus		116.8351	-20.4831	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8346	-20.4861	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8337	-20.4833	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8336	-20.4843	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8296	-20.4902	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.834	-20.4865	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8343	-20.4864	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8357	-20.4846	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8358	-20.4844	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus	hallucatus hallucatus	northern quoll northern quoll	116.8359	-20.4842 -20.4838	2014
Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus	northern quoli	116.8364 116.8365	-20.4836	2014 2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8361	-20.484	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quali	116.8357	-20.4846	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8334	-20.4839	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8361	-20.484	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8329	-20.4867	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8308	-20.4889	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8335	-20.4836	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quali	116.8807	-20.4282	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern qual	116.8803	-20.4284	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	116.8803 116.8812	-20.4284 -20.4275	2014 2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8824	-20.4275	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8828	-20.4267	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8763	-20.4345	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8798	-20.4334	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8827	-20.4264	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8791	-20.4337	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.882	-20.427	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333	-20.4816	2014

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT I	DATE
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8337	-20.4833	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8336	-20.4843	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8329	-20.4867	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8365	-20.4836	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8331	-20.4849	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8824	-20.4267	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8798	-20.4334	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8828	-20.4256	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8763	-20.4345	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8827	-20.4264	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.881	-20.4279	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8332	-20.4821	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8296	-20.4902	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8346	-20.4861	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8359	-20.4842	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.881	-20.4279	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8812	-20.4275	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.882	-20.427	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8786	-20.4337	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8828	-20.426	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8336	-20.4843	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8302	-20.4845	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoil	116.8332	-20.4899	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8332	-20.4875	2014
•	Dasyurus		•	116.8333		2014
Dasyurus hallucatus	•	hallucatus	northern quoli		-20.4874	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8315	-20.4882	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8763	-20.4345	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8844	-20.4825	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8825	-20.4825	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8812	-20.4275	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8004	-20.5705	1990
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.7723	-20.6376	1990
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.809	-20.5724	1990
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.7884	-20.638	1990
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8324	-20.4874	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8235	-20.5176	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8235	-20.5176	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8247	-20.5164	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8314	-20.4885	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8328	-20.4852	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.833	-20.4822	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8331	-20.4822	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8335	-20.4825	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8335	-20.4844	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8336	-20.4846	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8344	-20.4865	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8347	-20.4846	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.835	-20.4837	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.835	-20.4852	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8353	-20.4833	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8247	-20.5164	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.835	-20.4855	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8295	-20.4903	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8299	-20.49	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8307	-20.4891	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8329	-20.4883	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8351	-20.4848	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8702	-20.4373	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8726	-20.4366	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8697	-20.4392	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8727	-20.4374	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8702	-20.4373	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8699	-20.4383	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8726	-20.4366	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8734	-20.4351	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8295	-20.4903	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8333	-20.4818	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8336	-20.4843	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8336	-20.4846	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.835	-20.4837	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8351	-20.4848	2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8242	-20.5171	2015
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		AT DATE
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8699 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.872 -20.4	372 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8196 -20.5	163 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8734 -20.4	351 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8317 -20.4	881 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8336 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8339 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.834 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8242 -20.5	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8712 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8196 -20.5	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8702 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll		
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8196 -20.5	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8727 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8196 -20.5	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8306 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8337 -20.4	872 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.835 -20.4	856 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.835 -20.4	847 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.835 -20.4	837 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8359 -20.4	822 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8335 -20	484 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8336 -20	486 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8337 -20.4	872 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8348 -20	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8351 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8357 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll		
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8359 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8346 -20	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8302 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8326 -20	487 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8328 -20.4	852 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8316 -20.4	883 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8329 -20.4	884 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8348 -20	484 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8362 -20.4	819 2015
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8361 -20	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8354 -20	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8333 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll		486 2016
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8297 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8328 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8301 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8376 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8304 -20.4	895 2016
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	843 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	843 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8 -	20.5 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.9 -	20.5 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	833 1986
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	833 1986
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.85 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.85 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus hallucatus	northern quoll	116.8333 -20.4 116.8333 -20.4	
Dasyurus hallucatus	Dasyurus		northern quoll		
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -	20.5 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	833 1970
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	833 1970
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.85 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8333 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	843 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	843 0
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	843 2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8494 -20.4	843 2012

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Department Immunication	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8525	-20.4493	2012
Decymon-s Pulmenter	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8217	-20.5118	2012
Degree of Inflictions	Dasyurus hallucatus	-		•			
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Desyntax hillactate Desyntax hillactate	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8347	-20.4846	2015
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Daysyman hallucatura Daysyman hallucatura	•	•					
Daysyner Jahlacitus Daysyner Jahlacitus	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8349	-20.4857	2015
Dasynus hilluctus Dasy	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8349	-20.4857	2015
Desynuts halluctus Desynut		-					
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Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.332 0.0.4804 2015 Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.8322 20.4.822 20.15 Dasynurs hillucturs Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.832 0.0.4552 20.15 Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.832 0.0.4852 20.15 Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.832 0.0.4882 20.15 Dasynurs hillucturs Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.832 0.0.4882 20.15 Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.842 0.0.4882 20.15 Dasynurs hillucturs Dasynurs hillucturs Dasynurs hillucturs hallucturs conthem quell 11.6.842 0.0.4755 20.31 Dasynurs hillucturs Dasynurs hillucturs hallucturs	•	-					
Dasyrurs hallucatus	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.833	-20.4822	2015
Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.812 20.4852 2015 Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.8126 20.487 2015 Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.8126 20.487 2015 Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.8126 20.4883 2015 Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.8126 20.4883 2015 Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.8126 20.4883 2015 Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.8126 20.4883 2015 Dasyrurs hillucatus Dasyrurs hallucatus northern quel 118.8126 20.4883 2015 Dasyrurs hallucatus Dasyrurs hallucatus northern quel 118.8126 20.4813 2015 Dasyrurs hallucatus Dasyrurs hallucatus northern quel 118.8126 20.4813 2015 Dasyrurs hallucatus Dasyrurs hallucatus northern quel 118.812 20.4813 2015 Dasyrurs hallucatus Dasyrurs hallucatus northern quel 118.812 20.4813 2015 Dasyrurs hallucatus Dasyrurs hallucatus northern quel 118.812 20.4875 2013 20.4814 20.4875 2013 20.4814 20.4875 20.4814 20.	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8324	-20.4874	2015
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Daymort sabluctatus Dasyurus Inalucatus northem quol 116.8316 20.4888 20.15 Daywuns halluctatus Dasyurus Pallucatus northem quol 116.831 -0.4884 20.15 Daywuns halluctatus Dasyurus hallucatus northem quol 116.838 20.484 20.15 Daywuns halluctatus Dasyurus hallucatus northem quol 116.832 20.4819 20.15 Daywuns halluctatus Dasyurus hallucatus northem quol 116.8421 -20.4755 20.13 Daywuns halluctatus Dasyurus hallucatus northem quol 116.6421 -20.4755 20.13 Daywuns halluctatus Dasyurus hallucatus northem quol 116.6421 -20.4755 20.13 Daywuns halluctatus Dasyurus halluctatus Dasyurus halluctatus northem quol 116.6421 -20.4755 20.13 Dayyurus halluctatus Dasyurus halluctatus Dasyurus halluctatus northem quol 116.6421 -20.4755 20.13 Dasyurus halluctatus Dasyurus hall		-					
Dasyruns hallucatus Dasyruns Allucatus Dasyruns hallucatus Dasyruns Dasyruns hallucatus Dasyruns Dasyruns hallucatus Dasyruns Dasyruns hallucatus Dasyruns Dasyruns	•	-					
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Dasyruss hallucatus Dasyruss hallucatus Dasyruss hallucatus Dasyruss hallucatus Dasyruss hallucatus Dasyruss hallucatus Dasyruss hallucatus Dasyruss hallucatus Dasyruss hallucatus Dasyrus hallucatus Dasyrus D	Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8361	-20.482	2015
Dasyruss hallucatus		-		•			
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Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus	northern quoll northern quoll	116.845	-20.5151	2013
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Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8346	-20.4861	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8361	-20.484	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8357	-20.4846	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8334	-20.4839	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8361	-20.484	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8329	-20.4867	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8308	-20.4889	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8335	-20.4836	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyurus	hallucatus	•	116.8807	-20.4282	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8803	-20.4284	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoll	116.8331	-20.4849	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8359	-20.4842	2014
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.8315	-20.4882	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus	hallucatus	northern qual	116.8844	-20.4825	2014
•	Dasyurus	hallucatus hallucatus	northern quoll northern quoll	116.8825 116.8494	-20.4825 -20.4843	2014 2016
Dasyurus hallucatus Dasyurus hallucatus	Dasyurus Dasyurus	hallucatus	northern quoli	116.8503	-20.4843	2016
Dasyurus hallucatus	Dasyurus	hallucatus	northern quoli	116.7713	-20.4987	0
Dasyurus hallucatus	Dasyurus	hallucatus		116.8508	-20.4987	0
Dugong dugon	Dugong	dugon	dugong	116.8333	-20.3833	0
Dugong dugon	Dugong	dugon	dugong	116.7568	-20.6047	2006
Dugong dugon	Dugong	dugon		116.6111	-20.4762	2012
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5194	-20.6069	1978
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5389	-20.5356	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.675	-20.5178	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	0
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2012
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5389	-20.5356	1992
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.8064	-20.4931	1990
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.8494	-20.4843	1990
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.4444	-20.6572	1990
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.6225	-20.4697	1990
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5194	-20.6069	1990
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5389	-20.5356	1990
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.675	-20.5178	1990
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	1990
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Eretmochelys			116.917		2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT D	ATE
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999 -20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999 -20.3999	2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	,	GDA_LAT I	DATE
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999 -20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917		2009 2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.9336	-20.4109	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.6225	-20.4697	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.675	-20.5178	1984
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.8317	-20.3889	1984
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5389	-20.5356	1984
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	2004
Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.5936	-20.4817	2004 0
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys			116.8494 116.4444	-20.4843 -20.6572	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.5479	-20.5372	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.6225	-20.3373	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5194	-20.6069	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.8211	-20.4486	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5389	-20.5356	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.8806	-20.3881	0
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5936	-20.4817	0
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.5389	-20.5356	0
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.8494	-20.4843	0
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.4444	-20.6572	0
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.8211	-20.4486	0
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.8806	-20.3881	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5194	-20.6069	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5479	-20.5379	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.6225	-20.4697	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5389	-20.5356	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.8494	-20.4843	0
Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle	116.4444	-20.6572	0
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.8211 116.8806	-20.4486 -20.3881	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5194	-20.6069	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.5936	-20.4817	0
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.862	-20.4621	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle	116.917 116.917	-20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT D	ATE
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle	116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle hawksbill turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2008
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	DATE
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys	imbricata	hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle hawksbill turtle	116.917	-20.3999 -20.3999	2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys Eretmochelys		hawksbill turtle	116.917 116.917	-20.3999	2009 2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata	Eretmochelys		hawksbill turtle	116.917	-20.3999	2009
Eretmochelys imbricata Eretmochelys imbricata	Eretmochelys			116.9336	-20.3333	2009
Eretmochelys imbricata	Eretmochelys			116.5905	-20.4846	2017
Falco peregrinus	Falco	peregrinus		116.8022	-20.5909	2006
Falco peregrinus	Falco	peregrinus		116.8013	-20.6153	2000
Falco peregrinus	Falco	peregrinus		116.7513	-20.582	1980
Falco peregrinus	Falco	peregrinus	. 9	116.5013	-20.4987	1977
Falco peregrinus	Falco	peregrinus	· -	116.7513	-20.582	1979
Fregata ariel	Fregata	ariel		116.8056	-20.3858	0
Fregata ariel	Fregata	ariel	=	116.7768	-20.5405	0
Fregata ariel	Fregata	ariel		116.8494	-20.4843	0
Fregata ariel	Fregata	ariel	lesser frigatebird	116.6225	-20.4697	0
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5194	-20.6069	0
Fregata ariel	Fregata	ariel	lesser frigatebird	116.6283	-20.4564	0
Fregata ariel	Fregata	ariel	lesser frigatebird	116.6943	-20.5202	0
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5936	-20.4817	0
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5936	-20.4817	1982
Fregata ariel	Fregata	ariel	lesser frigatebird	116.8064	-20.4931	1982
Fregata ariel	Fregata	ariel	lesser frigatebird	116.6225	-20.4697	1983
Fregata ariel	Fregata	ariel	lesser frigatebird	116.8056	-20.3858	1983
Fregata ariel	Fregata	ariel	lesser frigatebird	116.6283	-20.4564	1983
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5936	-20.4817	1984
Fregata ariel	Fregata	ariel	lesser frigatebird	116.8806	-20.3881	1984
Fregata ariel	Fregata	ariel	=	116.4444	-20.6572	1984
Fregata ariel	Fregata	ariel	_	116.8075	-20.3877	1984
Fregata ariel	Fregata	ariel	9	116.6943	-20.5202	1983
Fregata ariel	Fregata	ariel	=	116.7768	-20.5405	1983
Fregata ariel	Fregata	ariel	9	116.5194	-20.6069	0
Fregata ariel	Fregata	ariel		116.5808	-20.4758	1999
Fregata ariel	Fregata	ariel		116.6675	-20.5203	2002
Fregata ariel	Fregata	ariel		116.6675	-20.5203	2002
Fregata ariel	Fregata	ariel	=	116.6667	-20.5194	2000
Fregata ariel	Fregata	ariel	=	116.6943 116.7768	-20.5202 -20.5405	0
Fregata ariel	Fregata	ariel	9	116.7768	-20.5405 -20.4697	0 0
Fregata ariel Fregata ariel	Fregata Fregata	ariel ariel	9	116.6225	-20.4697 -20.4564	0
Fregata ariel	Fregata	ariel		116.8806	-20.4564	1998
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5	-20.5	1974
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5	-20.5	1981
Fregata ariel	Fregata	ariel	lesser frigatebird	116.53	-20.55	1962
Fregata ariel	Fregata	ariel	lesser frigatebird	116.58	-20.58	0
Fregata ariel	Fregata	ariel	lesser frigatebird	116.58	-20.58	1977
Fregata ariel	Fregata	ariel		116.5808	-20.4758	1999
Fregata ariel	Fregata	ariel		116.6667	-20.5194	2000
Fregata ariel	Fregata	ariel	=	116.6675	-20.5203	2002
Fregata ariel	Fregata	ariel	lesser frigatebird	116.91	-20.41	0
Fregata ariel	Fregata	ariel	=	116.5822	-20.4745	1999
Fregata ariel	Fregata	ariel		116.6675	-20.5203	2002
Fregata ariel	Fregata	ariel	lesser frigatebird	116.6675	-20.5203	2002
Fregata ariel	Fregata	ariel	lesser frigatebird	116.668	-20.5181	2000
Fregata ariel	Fregata	ariel	lesser frigatebird	116.918	-20.4153	1980
Fregata ariel	Fregata	ariel	lesser frigatebird	116.7513	-20.582	1980
Fregata ariel	Fregata	ariel		116.5847	-20.4153	1980
Fregata ariel	Fregata	ariel	=	116.7513	-20.582	1980
Fregata ariel	Fregata	ariel	=	116.7513	-20.582	1981
Fregata ariel	Fregata	ariel	=	116.5847	-20.4153	1981
Fregata ariel	Fregata	ariel	=	116.7513	-20.582	1981
Fregata ariel	Fregata	ariel	=	116.5847	-20.4153	1978
Fregata ariel	Fregata	ariel	=	116.5847	-20.4153	1977
Fregata ariel	Fregata	ariel		116.5847	-20.582	1977
Fregata ariel	Fregata	ariel	=	116.5847	-20.582	1979
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5847	-20.582	1979

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT	DATE
Fregata ariel	Fregata	ariel	lesser frigatebird	116.5013	-20.4987	1980
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.8056	-20.3858	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.5936	-20.4817	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.8069	-20.3845	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.5949	-20.4803	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.8597	-20.4044	1984
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.8597	-20.4044	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.5936	-20.4817	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.8597	-20.4044	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.8073	-20.3847	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.7713	-20.6087	1997
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.5953	-20.4807	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.8069	-20.3845	0
Hydromys chrysogaster	Hydromys	chrysogaster	water-rat, rakali	116.5949	-20.4803	0
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8314	-20.3889	1987
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8314	-20.3889	1983
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.8314	-20.3889	1991
Hydroprogne caspia			Caspian tern	116.6292	-20.4571	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6939	-20.5202	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5946	-20.4797	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5204	-20.6007	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4449	-20.6588	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5204	-20.6007	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5204	-20.6007	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4449	-20.6588	1983
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.8044 116.777	-20.3856	0
Hydroprogne caspia	Hydroprogne Hydroprogne		Caspian tern		-20.5399 -20.5399	1982
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.777 116.5	-20.5399	1982
Hydroprogne caspia	Hydroprogne	•	Caspian tern			1974
Hydroprogne caspia Hydroprogne caspia	Hydroprogne		Caspian tern Caspian tern	116.5 116.5	-20.5 -20.5	1978
		caspia	Caspian tern	116.5747	-20.5	2008
Hydroprogne caspia Hydroprogne caspia	Hydroprogne Hydroprogne		Caspian tern	116.5747	-20.5951	2008
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5872	-20.36	1998
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.63	-20.4089	1901
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6583	-20.525	1999
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6667	-20.525	2000
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.6675	-20.5203	2000
Hydroprogne caspia			Caspian tern	116.85	-20.3203	2002
Hydroprogne caspia		•	Caspian tern	116.8519	-20.43	2003
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.8875	-20.3917	2000
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.91	-20.41	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8056	-20.3858	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.7768	-20.5405	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4444	-20.6572	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5194	-20.6069	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6943	-20.5202	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5936	-20.4817	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8317	-20.3889	1987
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8064	-20.4931	2000
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.7768	-20.5405	1982
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.4444	-20.6572	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.5194	-20.6069	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8317	-20.3889	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8317	-20.3889	1991
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6283	-20.4564	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6169	-20.4441	0
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8056	-20.3858	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.7768	-20.5405	1982
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8494	-20.4843	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4444	-20.6572	1983
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5194	-20.6069	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.8317	-20.3889	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8317	-20.3889	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5381	-20.4778	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6283	-20.4564	1983
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.675 116.6943	-20.5178 -20.5202	1983 0
Hydroprogne caspia	Hydroprogne		Caspian tern		-20.5202	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6737 116.6732	-20.4485	0
Hydroprogne caspia Hydroprogne caspia	Hydroprogne Hydroprogne		Caspian tern Caspian tern	116.5079	-20.4312	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5936	-20.4993	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6149	-20.5694	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.6343	-20.5843	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.6169	-20.3843	1990
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8494	-20.4843	1990
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5389	-20.5356	1990
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.7768	-20.5405	1982
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5381	-20.4778	1990
Hydroprogne caspia	Hydroprogne		Caspian tern	116.675	-20.5178	1982
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5194	-20.6069	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4444	-20.6572	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6283	-20.4564	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.7754	-20.5404	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.5194	-20.6069	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6283	-20.4564	1983
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.584	-20.5753	1983
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5194	-20.6069	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.654	-20.5059	1983

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT [
Hydroprogne caspia Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.675 116.8332	-20.5178 -20.3806	1990 1983
Hydroprogne caspia	Hydroprogne Hydroprogne		Caspian tern Caspian tern	116.4513	-20.5600	1983
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.5079	-20.4995	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4487	-20.6526	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5936	-20.4817	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8336	-20.3834	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6737	-20.4485	1990
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6343	-20.5843	1984
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6149	-20.5694	1984
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.5194	-20.6069	1984
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8336	-20.3834	1984
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8056	-20.3858	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6737	-20.4485	1984
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6169	-20.4441	1984
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.5381	-20.4778	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5079	-20.4995	1990
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6343	-20.5843	1990
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4449	-20.6588	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5204	-20.6007	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6939	-20.5202	1093
Hydroprogne caspia Hydroprogne caspia	Hydroprogne		Caspian tern	116.6292 116.7768	-20.4571 -20.5405	1983 0
Hydroprogne caspia	Hydroprogne Hydroprogne		Caspian tern Caspian tern	116.6283	-20.4564	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.654	-20.5059	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4444	-20.5039	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8317	-20.3889	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8056	-20.3858	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.7768	-20.5405	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8494	-20.4843	0
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.5389	-20.5356	0
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.6737	-20.4485	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	0
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.5946	-20.4797	0
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8494	-20.4843	1978
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8064	-20.4931	2014
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8064	-20.4931	2000
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8056	-20.3858	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.7768	-20.5405	1983
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.4444	-20.6572	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4444	-20.6572	1983
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.5194	-20.6069	1983
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.5194	-20.6069	1984
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	1971
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8317	-20.3889	1991
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8317 116.8317	-20.3889 -20.3889	1983 1987
Hydroprogne caspia Hydroprogne caspia	Hydroprogne Hydroprogne	-	Caspian tern Caspian tern	116.6283	-20.3869	1987
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.6943	-20.4304	1971
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.5936	-20.3202	1983
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8597	-20.4044	1990
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.7768	-20.5405	1990
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.4313	-20.6537	1990
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	1990
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.8317	-20.3889	1990
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6283	-20.4564	1990
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.5936	-20.4817	1990
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6149	-20.5694	1990
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6943	-20.5202	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.7768	-20.5405	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.654	-20.5059	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6283	-20.4564	0
Hydroprogne caspia	Hydroprogne	-	Caspian tern	116.8317	-20.3889	0
Hydroprogne caspia	Hydroprogne	•	Caspian tern	116.4444	-20.6572	1084
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8317 116.8806	-20.3889	1984 2000
Hydroprogne caspia Hydroprogne caspia	Hydroprogne Hydroprogne	-	Caspian tern Caspian tern	116.8806	-20.3881 -20.5091	2000
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	1918
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4444	-20.6572	1918
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8056	-20.3858	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.7768	-20.5405	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.4444	-20.6572	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5194	-20.6069	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.8317	-20.3889	0
Hydroprogne caspia	Hydroprogne	caspia	Caspian tern	116.6283	-20.4564	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.6943	-20.5202	0
Hydroprogne caspia	Hydroprogne		Caspian tern	116.5936	-20.4817	0
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.8486	-20.4884	1993
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.752	-20.633	2004
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.7073	-20.6668	2005
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.767	-20.6571	2001
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.782	-20.593	2014
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.777	-20.599 -20.598	2015 2015
Liasis olivaceus barroni Liasis olivaceus barroni	Liasis Liasis	olivaceus olivaceus	Pilbara olive python Pilbara olive python	116.777 116.782	-20.598 -20.592	2015
Liasis olivaceus barroni Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.782	-20.592 -20.624	2015
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.7685	-20.624	2015
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.7785	-20.5949	2015
LIASIS Olivaceus Darrotti	Liasis	olivaceus	Pilbara olive python	116.7785	-20.5949	2015

NAME SCI	GENUS	SPECIES	NAME_COM	GDA_LONG	GDA_LAT	DATE
-			Pilbara olive python	116.778		
			Pilbara olive python	116.77		
			Pilbara olive python	116.77		
			Pilbara olive python	116.767		
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.77	9 -20.595	2017
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.76	8 -20.613	2017
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.761	9 -20.6086	2018
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.772	7 -20.6113	2018
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.849	4 -20.4843	1990
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.634	3 -20.5843	1990
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.848	6 -20.4884	1993
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.849		0
Liasis olivaceus barroni	Liasis	olivaceus	Pilbara olive python	116.811		
Liasis olivaceus barroni			Pilbara olive python	116.849	4 -20.4843	0
· ·			bar-tailed godwit	116.8		
**			bar-tailed godwit	116.849		
**			bar-tailed godwit	116.444		
**			bar-tailed godwit	116.849		
**			bar-tailed godwit	116.806		
**		• •	bar-tailed godwit	116.849		
**		• •	bar-tailed godwit	116.444		
**		• •	bar-tailed godwit	116.8		
**			bar-tailed godwit	116.849		
**		• •	bar-tailed godwit	116.758		
**		• •	bar-tailed godwit	116.810		
**			bar-tailed godwit	116.810 116.759		
**			bar-tailed godwit bar-tailed godwit			
**			bar-tailed godwit	116.851 116.798		
**			bar-tailed godwit	116.704		
**			bar-tailed godwit	116.797		
**			bar-tailed godwit	116.591		
			bar-tailed godwit	116.90		
			bar-tailed godwit	116.751		
**			bar-tailed godwit	116.501		
			bar-tailed godwit	116.501		
			bar-tailed godwit	116.501		
**			bar-tailed godwit	116.501		
			black-tailed godwit	116.501		
			ghost bat	116.802		
			humpback whale	116.801		
		_	humpback whale	116.926		
		_	humpback whale	116.926		
			humpback whale	116.926		
		novaeangliae	humpback whale	116.926	7 -20.3733	2014
		novaeangliae	humpback whale	116.913	3 -20.3725	2014
			humpback whale	116.86		
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.86	5 -20.3433	2014
		novaeangliae	humpback whale	116.86	5 -20.3433	2014
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.7	5 -20.35	2014
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.7	5 -20.35	2014
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.736	7 -20.4533	2014
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.733	3 -20.3667	2014
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.646	7 -20.3967	2014
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.6	9 -20.37	2014
Megaptera novaeangliae	Megaptera	novaeangliae	humpback whale	116.6	9 -20.37	2014
	Megaptera	_	humpback whale	116.6		
		_	humpback whale	116.6		
	Megaptera	_	humpback whale	116.6		
		_	humpback whale	116.6		
		_	humpback whale	116.6		
		=	humpback whale	116.6		
		_	humpback whale	116.5		
		_	humpback whale	116.5		
9.		=	humpback whale	116.5		
		•	humpback whale	116.		
= :		_	humpback whale	116.4		
		_	humpback whale humpback whale	116.4 116.4		
		(Ozimops) cobourgian				
· · · · · · · · · · · · · · · · · · ·		(Ozimops) cobourgian				
	Natator		flatback turtle	116.833		
•		·	flatback turtle	116.535		
•		•	flatback turtle	116.593		
•	Natator	·	flatback turtle	116.519		
•		·	flatback turtle	116.831		
		•	flatback turtle	116.880		
•	Natator	·	flatback turtle	116.91		
•		•	flatback turtle	116.91		
•			flatback turtle	116.91		
•	Natator	•	flatback turtle	116.91		
•		·	flatback turtle	116.91		
	Natator	•	flatback turtle	116.91		
Natator depressus	Natator	depressus	flatback turtle	116.91	7 -20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.91	7 -20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.91	7 -20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.91	7 -20.3999	2008
•	Natator	·	flatback turtle	116.91		
•	Natator	•	flatback turtle	116.91		
Natator depressus	Natator	depressus	flatback turtle	116.91	7 -20.3999	2008

NAME CCI	CENTIC	CDECIEC	NAME COM CDA LONG		CD4 14T	DATE
NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus Natator depressus	Natator Natator	depressus	flatback turtle	116.917	-20.3999 -20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus Natator depressus	Natator	depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Natator Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
·	Natator	•		116.917	-20.3999 -20.3999	
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917	-20.3999	2008 2008
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008

NAME CCI	CENTIC	CDECIEC	NAME COM CDA LONG		CD4 14T	DATE
NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT D	
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT D	ΔTF
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999 -20.3999	2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT D	ΔTF
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus depressus	flatback turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus Natator depressus	Natator Natator	depressus	flatback turtle flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999 -20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.9336	-20.4109	2009
Natator depressus	Natator	depressus	flatback turtle	116.5	-20.5	2009
Natator depressus	Natator	depressus	flatback turtle	116.5	-20.5	2006
Natator depressus	Natator	depressus	flatback turtle	116.5	-20.5	2007
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.5 116.8	-20.5 -20.4	2009 2009
Natator depressus	Natator	depressus	flatback turtle	116.8	-20.4	2009
Natator depressus	Natator	depressus	flatback turtle	116.8	-20.4	2008
Natator depressus	Natator	depressus	flatback turtle	116.8806	-20.3881	2009
Natator depressus	Natator	depressus	flatback turtle	116.8064	-20.4931	0
Natator depressus	Natator	depressus	flatback turtle	116.8119	-20.5735	0
Natator depressus	Natator	depressus	flatback turtle	116.7768	-20.5405	0
Natator depressus	Natator	depressus	flatback turtle	116.8494	-20.4843	0
Natator depressus	Natator	depressus	flatback turtle	116.4444	-20.6572	0
Natator depressus	Natator	depressus	flatback turtle	116.5479	-20.5379	0
Natator depressus	Natator	depressus	flatback turtle	116.6831	-20.6547	0
Natator depressus	Natator	depressus	flatback turtle	116.6225	-20.4697	0
Natator depressus	Natator Natator	depressus	flatback turtle	116.5194	-20.6069 -20.4486	0
Natator depressus Natator depressus	Natator	depressus depressus	flatback turtle flatback turtle	116.8211 116.5389	-20.4486 -20.5356	0
Natator depressus	Natator	depressus	flatback turtle	116.6461	-20.5536	0
Natator depressus	Natator	depressus	flatback turtle	116.8317	-20.33889	0
Natator depressus	Natator	depressus	flatback turtle	116.6283	-20.4564	0
Natator depressus	Natator	depressus	flatback turtle	116.8806	-20.3881	0
Natator depressus	Natator	depressus	flatback turtle	116.8222	-20.4231	0
Natator depressus	Natator	depressus	flatback turtle	116.8181	-20.4136	0
Natator depressus	Natator	depressus	flatback turtle	116.5936	-20.4817	0
Natator depressus	Natator	depressus	flatback turtle	116.5479	-20.5379	0
Natator depressus	Natator	depressus	flatback turtle	116.6225	-20.4697	0
Natator depressus	Natator	depressus	flatback turtle	116.5389	-20.5356	0
Natator depressus	Natator	depressus	flatback turtle	116.6461	-20.6533	0
Natator depressus	Natator	depressus	flatback turtle	116.6283	-20.4564	0
Natator depressus	Natator	depressus	flatback turtle	116.8119	-20.5735	0
Natator depressus	Natator	depressus	flatback turtle	116.8317	-20.3889	0
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.8222 116.8181	-20.4231 -20.4136	0
Natator depressus	Natator	depressus	flatback turtle	116.7768	-20.5405	0
Natator depressus	Natator	depressus	flatback turtle	116.8064	-20.4931	0
Natator depressus	Natator	depressus	flatback turtle	116.8211	-20.4486	0
Natator depressus	Natator	depressus	flatback turtle	116.4444	-20.6572	0
Natator depressus	Natator	depressus	flatback turtle	116.8806	-20.3881	0
Natator depressus	Natator	depressus	flatback turtle	116.5194	-20.6069	0
Natator depressus	Natator	depressus	flatback turtle	116.5936	-20.4817	0
Natator depressus	Natator	depressus	flatback turtle	116.6831	-20.6547	0
Natator depressus	Natator	depressus	flatback turtle	116.8494	-20.4843	0
Natator depressus	Natator	depressus	flatback turtle	116.5479	-20.5379	0
Natator depressus	Natator	depressus	flatback turtle	116.6225	-20.4697	0
Natator depressus	Natator	depressus	flatback turtle	116.5389	-20.5356	0
Natator depressus Natator depressus	Natator	depressus	flatback turtle flatback turtle	116.6461	-20.6533	0
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle	116.6283 116.8119	-20.4564 -20.5735	0
Natator depressus	Natator	depressus	flatback turtle	116.8317	-20.3889	0
Natator depressus	Natator	depressus	flatback turtle	116.8222	-20.4231	0
Natator depressus	Natator	depressus	flatback turtle	116.8181	-20.4136	0
Natator depressus	Natator	depressus	flatback turtle	116.7768	-20.5405	0
Natator depressus	Natator	depressus	flatback turtle	116.8064	-20.4931	0
Natator depressus	Natator	depressus	flatback turtle	116.8211	-20.4486	0
Natator depressus	Natator	depressus	flatback turtle	116.4444	-20.6572	0
Natator depressus	Natator	depressus	flatback turtle	116.8806	-20.3881	0
Natator depressus	Natator	depressus	flatback turtle	116.5194	-20.6069	0
Natator depressus	Natator	depressus	flatback turtle	116.5936	-20.4817	0
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917 116.917	-20.3999	2008 2008
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917	-20.3999 -20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008

NAME CCI	CENTIC	CDECIEC	NAME COM CDA LONG		CD4 14T	DATE
NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus Natator depressus	Natator Natator	depressus	flatback turtle	116.917	-20.3999 -20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
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NAME CCI	CENTIC	CDECIEC	NAME COM CDA LONG		CD4 14T	DATE
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Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
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NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT D	
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2008
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Hatatai depressus	racator	acpressus	naspack turne	110.91/	20.3333	2003

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT D	ΔTF
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus		depressus depressus	flatback turtle	116.917	-20.3999	2009 2009
Natator depressus Natator depressus	Natator Natator	depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999 -20.3999	2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG	(GDA_LAT D	ΔTF
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus depressus	flatback turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus Natator depressus	Natator Natator	depressus	flatback turtle flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus		depressus depressus	flatback turtle	116.917	-20.3999	2009 2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
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Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus Natator depressus	Natator Natator	depressus depressus	flatback turtle flatback turtle	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999 -20.3999	2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	DATE
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.917	-20.3999	2009
Natator depressus	Natator	depressus	flatback turtle	116.9336	-20.4109	2009
Numenius madagascariensis	Numenius	madagascariensis	eastern curlew	116.868	-20.6487	1966
Numenius madagascariensis	Numenius	madagascariensis	eastern curlew	116.868	-20.6487	1966
Numenius madagascariensis	Numenius	madagascariensis	eastern curlew	116.868	-20.6487 -20.6487	1966
Numenius madagascariensis Numenius madagascariensis	Numenius Numenius	madagascariensis madagascariensis	eastern curlew eastern curlew	116.868 116.6283	-20.4564	1966 1983
Numenius madagascariensis Numenius madagascariensis	Numenius	madagascariensis		116.8494	-20.4304	1984
Numenius madagascariensis	Numenius	madagascariensis		116.8494	-20.4843	1990
Numenius madagascariensis	Numenius	madagascariensis	eastern curlew	116.85	-20.45	2005
Numenius madagascariensis	Numenius	madagascariensis	eastern curlew	116.8494	-20.4843	1978
Numenius madagascariensis	Numenius	madagascariensis	eastern curlew	116.8513	-20.4487	2005
Numenius madagascariensis	Numenius	madagascariensis		116.7513	-20.582	1981
Numenius madagascariensis	Numenius	madagascariensis		116.5013	-20.4987	1978
Numenius madagascariensis	Numenius	madagascariensis		116.5013 116.5013	-20.4987	1977 1978
Numenius madagascariensis Numenius madagascariensis	Numenius Numenius	madagascariensis madagascariensis		116.5013	-20.4987 -20.4987	1978
Numenius minutus	Numenius	minutus		116.7105	-20.6551	2010
Numenius minutus	Numenius	minutus		116.7513	-20.582	1981
Numenius minutus	Numenius	minutus	little curlew, little whi	116.7513	-20.582	1981
Numenius minutus	Numenius	minutus	little curlew, little whi	116.7513	-20.582	1977
Numenius minutus	Numenius	minutus	little curlew, little whi	116.5013	-20.4987	1977
Numenius phaeopus	Numenius	phaeopus	whimbrel	116.85	-20.45	2005
Numenius phaeopus	Numenius	phaeopus		116.6169	-20.4441	0
Numenius phaeopus	Numenius Numenius	phaeopus		116.5194	-20.6069 -20.4485	0
Numenius phaeopus Numenius phaeopus	Numenius	phaeopus phaeopus		116.6737 116.6732	-20.4465	0
Numenius phaeopus	Numenius	phaeopus		116.8211	-20.4312	1982
Numenius phaeopus	Numenius	phaeopus		116.6283	-20.4564	1983
Numenius phaeopus	Numenius	phaeopus		116.5194	-20.6069	1983
Numenius phaeopus	Numenius	phaeopus		116.5194	-20.6069	1984
Numenius phaeopus	Numenius	phaeopus	whimbrel	116.5194	-20.6069	1984
Numenius phaeopus	Numenius	phaeopus	whimbrel	116.6737	-20.4485	1984
Numenius phaeopus	Numenius	phaeopus		116.6169	-20.4441	1984
Numenius phaeopus	Numenius	phaeopus		116.8064	-20.4931	1990
Numenius phaeopus	Numenius	phaeopus		116.6169	-20.4441	1990
Numenius phaeopus	Numenius	phaeopus		116.5194	-20.6069	1990
Numenius phaeopus Numenius phaeopus	Numenius Numenius	phaeopus phaeopus		116.8211 116.6283	-20.4486 -20.4564	1990 1990
Numenius phaeopus	Numenius	phaeopus		116.8806	-20.3881	1990
Numenius phaeopus	Numenius	phaeopus		116.6737	-20.4485	1990
Numenius phaeopus	Numenius	phaeopus		116.6343	-20.5843	1990
Numenius phaeopus	Numenius	phaeopus	whimbrel	116.8513	-20.4487	2005
Numenius phaeopus	Numenius	phaeopus		116.8494	-20.4843	1978
Numenius phaeopus	Numenius	phaeopus		116.8806	-20.3881	1998
Numenius phaeopus	Numenius	phaeopus		116.8265	-20.4836	2015
Numenius phaeopus	Numenius	phaeopus		116.8215	-20.5195	2015
Numenius phaeopus Numenius phaeopus	Numenius	phaeopus		116.8014	-20.5711 -20.6059	2001 1999
Numenius phaeopus	Numenius Numenius	phaeopus phaeopus		116.8105 116.7822	-20.6595	2004
Numenius phaeopus	Numenius	phaeopus		116.7597	-20.6403	1999
Numenius phaeopus	Numenius	phaeopus		116.7819	-20.5903	1999
Numenius phaeopus	Numenius	phaeopus	whimbrel	116.8513	-20.4487	2005
Numenius phaeopus	Numenius	phaeopus	whimbrel	116.7988	-20.6323	2010
Numenius phaeopus	Numenius	phaeopus		116.7972	-20.6331	1999
Numenius phaeopus	Numenius	phaeopus		116.5013	-20.4987	1981
Numenius phaeopus	Numenius	phaeopus		116.7513	-20.582	1980
Numenius phaeopus Numenius phaeopus	Numenius Numenius	phaeopus		116.7513 116.7513	-20.582 -20.582	1981 1981
Numenius phaeopus	Numenius	phaeopus phaeopus		116.7313	-20.382	1978
Numenius phaeopus	Numenius	phaeopus		116.5013	-20.4987	1977
Numenius phaeopus	Numenius	phaeopus		116.7513	-20.582	1978
Numenius phaeopus	Numenius	phaeopus	whimbrel	116.5013	-20.4987	1977
Numenius phaeopus	Numenius	phaeopus		116.5013	-20.4987	1979
Numenius phaeopus	Numenius	phaeopus		116.5013	-20.4987	1980
Oceanites oceanicus	Oceanites	oceanicus	Wilson's storm-petrel	116.5	-20.5	1974
Oceanites oceanicus Oceanites oceanicus	Oceanites Oceanites	oceanicus	Wilson's storm-petrel Wilson's storm-petrel	116.91 116.8494	-20.41 -20.4843	0
Oceanites oceanicus Oceanites oceanicus	Oceanites	oceanicus	•	116.8494	-20.4843	0
Oceanites oceanicus Oceanites oceanicus	Oceanites	oceanicus oceanicus		116.6343	-20.5843	1983
Oceanites oceanicus	Oceanites	oceanicus	•	116.6404	-20.4913	1983
Oceanites oceanicus	Oceanites	oceanicus	•	116.4444	-20.6572	1984
Oceanites oceanicus	Oceanites	oceanicus	•	116.8064	-20.4931	1984
Oceanites oceanicus	Oceanites	oceanicus	Wilson's storm-petrel	116.7408	-20.4168	1984
Oceanites oceanicus	Oceanites	oceanicus	•	116.5528	-20.4818	1984
Oceanites oceanicus	Oceanites	oceanicus	•	116.8494	-20.4843	0
Oceanites oceanicus	Oceanites	oceanicus	•	116.7322	-20.5958	2008
Oceanites oceanicus Pandion cristatus	Oceanites	oceanicus	Wilson's storm-petrel	116.918	-20.4153	1979
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre osprey, eastern ospre	116.5 116.5	-20.5 -20.5	1980 1981
Pandion cristatus Pandion cristatus	Pandion	cristatus	osprey, eastern ospre osprey, eastern ospre	116.5	-20.5 -20.5	1981 1974
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5	-20.5	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5	-20.5	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5	-20.5	1981
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5	-20.5	1977
Pandion cristatus	Pandion	cristatus		116.5747	-20.5931	2008
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.58	-20.58	1978
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.58	-20.58	1077
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.58	-20.58	1977

NAME SCI	CENTIC	CDECIES	NAME COM CDA LONG		CDA LAT	DATE
NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre	116.5808 116.5825	-20.4758 -20.585	1999 2008
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre osprey, eastern ospre	116.5872	-20.383	1998
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.561	-20.4089	1901
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.63	-20.58	1901
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.63	-20.58	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6583	-20.525	1999
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6667	-20.5194	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6675	-20.5203	2002
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.85	-20.45	2005
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8519	-20.4492	2002
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8875	-20.3917	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.91	-20.41	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.45	-20.666	1918
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5	-20.6	1918
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.616	-20.583	1901
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.866	-20.383	1918
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.866	-20.383	1918
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8064	-20.4931	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8064	-20.4931	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8494	-20.4843	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4444	-20.6572	1987
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4444	-20.6572	1983
Pandion cristatus Pandion cristatus	Pandion	cristatus	osprey, eastern ospre osprey, eastern ospre	116.5479 116.5194	-20.5379	1978
	Pandion	cristatus			-20.6069	1977 1987
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194 116.5194	-20.6069 -20.6069	1987
Pandion cristatus Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8317	-20.8089	1983
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre osprey, eastern ospre	116.6283	-20.3889	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6254	-20.4528	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	1978
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.675	-20.5178	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.675	-20.5178	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5946	-20.4797	1977
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	1978
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	1976
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	1978
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8064	-20.4931	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6169	-20.4441	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8494	-20.4843	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4444	-20.6572	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6592	-20.6094	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4313	-20.6537	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6225	-20.4697	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8211	-20.4486	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5389	-20.5356	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6796	-20.5419	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8317	-20.3889	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5381	-20.4778	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6283	-20.4564	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6283	-20.4564	1984
Pandion cristatus	Pandion Pandion	cristatus	osprey, eastern ospre	116.675 116.6396	-20.5178 -20.4392	0
Pandion cristatus Pandion cristatus	Pandion	cristatus cristatus	osprey, eastern ospre osprey, eastern ospre	116.6396	-20.4392 -20.4485	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6732	-20.4463	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5079	-20.4995	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4333	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6149	-20.5694	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8211	-20.4486	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5389	-20.5356	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6787	-20.5216	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5327	-20.5428	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5389	-20.5356	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6283	-20.4564	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6254	-20.4528	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6225	-20.4697	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.653	-20.5039	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6796	-20.5419	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8321	-20.3883	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8024	-20.385	1983
Pandion cristatus	Pandion Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1983
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre	116.5936 116.5194	-20.4817 -20.6069	1983 1983
Pandion cristatus Pandion cristatus	Pandion	cristatus	osprey, eastern ospre osprey, eastern ospre	116.5194	-20.5405	1983
	. auioii	3.300003		110.7700	20.5403	1703

NAME CCI	CENTIC	CDECIEC	NAME COM CDA LONG		CDA LAT	DATE
NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre	116.5194 116.6269	-20.6069 -20.4543	1983 1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre osprey, eastern ospre	116.6254	-20.4528	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5234	-20.4328	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6538	-20.5043	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8317	-20.3889	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8321	-20.3883	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4498	-20.6647	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.675	-20.5178	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5816	-20.579	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8024	-20.385	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4313	-20.6537	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5079	-20.4995	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5816	-20.579	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6786	-20.5218	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6149	-20.5694	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8317	-20.3889	1984
Pandion cristatus	Pandion Pandion	cristatus	osprey, eastern ospre	116.8056	-20.3858	1984
Pandion cristatus	Pandion Pandion	cristatus	osprey, eastern ospre	116.6737	-20.4485	1984
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre osprey, eastern ospre	116.6254 116.6169	-20.4528 -20.4441	1984 1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4441	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5381	-20.4817	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5389	-20.5356	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6149	-20.5694	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8505	-20.4796	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5204	-20.6007	1977
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6742	-20.5151	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8049	-20.4927	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6342	-20.5841	1976
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4449	-20.6588	1987
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.777	-20.5399	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6253	-20.4526	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6292	-20.4571	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8314	-20.3889	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6283	-20.4564	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6283	-20.4564	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.654	-20.5059	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4444	-20.6572	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8317	-20.3889	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8056	-20.3858	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6796	-20.5419	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.88	-20.3861	1977
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6943	-20.5202	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5473	-20.5379	1977
Pandion cristatus	Pandion Pandion	cristatus	osprey, eastern ospre	116.6343 116.5936	-20.5843 -20.4817	0
Pandion cristatus Pandion cristatus		cristatus	osprey, eastern ospre			
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre osprey, eastern ospre	116.8064 116.8494	-20.4931 -20.4843	0 0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6737	-20.4485	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6225	-20.4697	1981
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8494	-20.4843	1970
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8064	-20.4931	1970
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	1970
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	1978
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	1970
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5194	-20.6069	1970
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.5936	-20.4817	1970
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8064	-20.4931	1977
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8064	-20.4931	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.7768	-20.5405	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8494	-20.4843	1980
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4444	-20.6572	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4444	-20.6572	1987
Pandion cristatus	Pandion Pandion	cristatus	osprey, eastern ospre	116.5479	-20.5379	1982
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus	osprey, eastern ospre	116.5194 116.5194	-20.6069 -20.6069	1983 1977
Pandion cristatus Pandion cristatus	Pandion	cristatus cristatus	osprey, eastern ospre osprey, eastern ospre	116.5194	-20.6069	1977
Pandion cristatus Pandion cristatus	Pandion	cristatus	osprey, eastern ospre osprey, eastern ospre	116.8317	-20.8089	1984
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6254	-20.4528	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	1982
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	2000
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	1984

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.675	-20.5178	1977
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	osprey, eastern ospre osprey, eastern ospre	116.675 116.5936	-20.5178 -20.4817	1983 1976
Pandion cristatus	Pandion	cristatus	* **	116.5936	-20.4817	1977
Pandion cristatus	Pandion	cristatus		116.5936	-20.4817	1984
Pandion cristatus	Pandion	cristatus	* **	116.5936	-20.4817	1983
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	1976
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6343	-20.5843	1977
Pandion cristatus	Pandion	cristatus		116.6343	-20.5843	1984
Pandion cristatus	Pandion	cristatus	* **	116.8064	-20.4931	1990
Pandion cristatus	Pandion	cristatus		116.6169	-20.4441	1990
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	* **	116.8597 116.7768	-20.4044 -20.5405	1990 1990
Pandion cristatus	Pandion	cristatus	* **	116.7708	-20.3403	1990
Pandion cristatus	Pandion	cristatus		116.4444	-20.6572	1990
Pandion cristatus	Pandion	cristatus		116.6831	-20.6547	1990
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6225	-20.4697	1990
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4313	-20.6537	1990
Pandion cristatus	Pandion	cristatus		116.5194	-20.6069	1990
Pandion cristatus	Pandion	cristatus	* **	116.8211	-20.4486	1990
Pandion cristatus	Pandion	cristatus	* **	116.5389	-20.5356	1990
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus		116.6796 116.8317	-20.5419 -20.3889	1990 1990
Pandion cristatus	Pandion	cristatus		116.5381	-20.3889	1990
Pandion cristatus	Pandion	cristatus	* **	116.6283	-20.4564	1990
Pandion cristatus	Pandion	cristatus	* **	116.8806	-20.3881	1990
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.675	-20.5178	1990
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6943	-20.5202	1990
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6393	-20.4388	1990
Pandion cristatus	Pandion	cristatus		116.6393	-20.4388	1990
Pandion cristatus	Pandion	cristatus		116.5936	-20.4817	1990
Pandion cristatus	Pandion	cristatus	* **	116.6149	-20.5694	1990
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus		116.6343 116.6254	-20.5843 -20.4528	1990 0
Pandion cristatus	Pandion	cristatus		116.0234	-20.4328	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.654	-20.5059	0
Pandion cristatus	Pandion	cristatus		116.6796	-20.5419	0
Pandion cristatus	Pandion	cristatus		116.6283	-20.4564	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8317	-20.3889	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.4444	-20.6572	0
Pandion cristatus	Pandion	cristatus		116.8494	-20.4843	1978
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.675	-20.5178	1984
Pandion cristatus	Pandion	cristatus	* **	116.8317	-20.3889	1984
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	* **	116.5389 116.8806	-20.5356 -20.3881	1984 2000
Pandion cristatus	Pandion	cristatus	* **	116.5936	-20.4817	2004
Pandion cristatus	Pandion	cristatus	* **	116.8169	-20.5092	2015
Pandion cristatus	Pandion	cristatus	* **	116.8273	-20.5152	2015
Pandion cristatus	Pandion	cristatus		116.8347	-20.4846	2015
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8222	-20.4231	2015
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8181	-20.4136	2015
Pandion cristatus	Pandion	cristatus		116.8806	-20.3881	1918
Pandion cristatus	Pandion	cristatus	* **	116.4444	-20.6572	1918
Pandion cristatus	Pandion	cristatus	* **	116.8064	-20.4931	0
Pandion cristatus Pandion cristatus	Pandion Pandion	cristatus cristatus	* **	116.7768 116.8494	-20.5405 -20.4843	0
Pandion cristatus	Pandion	cristatus		116.4444	-20.4543	0
Pandion cristatus	Pandion	cristatus	* **	116.5479	-20.5379	0
Pandion cristatus	Pandion	cristatus		116.5194	-20.6069	0
Pandion cristatus	Pandion	cristatus	* **	116.8317	-20.3889	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6254	-20.4528	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.6283	-20.4564	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.8806	-20.3881	0
Pandion cristatus	Pandion	cristatus	osprey, eastern ospre	116.675	-20.5178	0
Pandion cristatus	Pandion	cristatus		116.5936	-20.4817	0
Pandion cristatus Pluvialis fulva	Pandion Pluvialis	cristatus fulva	osprey, eastern ospre Pacific golden plover	116.6343 116.5	-20.5843 -20.5	0 1980
Pluvialis fulva Pluvialis fulva	Pluvialis	fulva		116.5	-20.5	1980
Pluvialis fulva	Pluvialis	fulva	= :	116.7047	-20.4304	2010
Pluvialis fulva	Pluvialis	fulva		116.5013	-20.4987	1980
Pluvialis squatarola	Pluvialis	squatarola	grey plover	116.5	-20.5	1983
Pluvialis squatarola	Pluvialis	squatarola	= -:-	116.8494	-20.4843	1990
Pluvialis squatarola	Pluvialis	squatarola		116.4444	-20.6572	1990
Pluvialis squatarola	Pluvialis	squatarola		116.4485	-20.6657	1983
Pluvialis squatarola	Pluvialis	squatarola		116.7988	-20.6323	2010
Pluvialis squatarola Pseudomys chapmani	Pluvialis Pseudomys	squatarola		116.5013 116.8313	-20.4987 -20.5787	1981 1983
Pseudomys chapmani Pseudomys chapmani	Pseudomys	chapmani chapmani		116.8313	-20.5787	1983
Stenella longirostris	Stenella	longirostris		116.6633	-20.5342	2014
Sterna dougallii	Sterna	dougallii	roseate tern	116.538	-20.5352	0
Sterna dougallii	Sterna	dougallii		116.6737	-20.4482	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.5	-20.5	1974
Sterna dougallii	Sterna	dougallii	roseate tern	116.5	-20.5	1983
Sterna dougallii	Sterna	dougallii	roseate tern	116.58	-20.58	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.91	-20.41	0
Sterna dougallii	Sterna Sterna	dougallii		116.6732 116.5389	-20.4512 -20.5356	0 0
Sterna dougallii Sterna dougallii	Sterna	dougallii dougallii		116.5389	-20.5356	0
Sterna dougallii	Sterna	dougallii		116.8494	-20.4843	0
Sterna dougallii	Sterna	dougallii		116.6943	-20.5202	0

NAME CO.	CENTIC	CDECIEC	NAME COM CDA LONG		CDA LAT	DATE
NAME_SCI Storpa dougallii	GENUS	SPECIES	NAME_COM GDA_LONG roseate tern		GDA_LAT -20.4392	0
Sterna dougallii Sterna dougallii	Sterna Sterna	dougallii dougallii	roseate tern	116.6396 116.6737	-20.4392	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.6732	-20.4483	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.5079	-20.4312	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.5936	-20.4817	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.6343	-20.5843	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.8056	-20.3858	1990
Sterna dougallii	Sterna	dougallii	roseate tern	116.5381	-20.4778	1983
Sterna dougallii	Sterna	dougallii	roseate tern	116.5079	-20.4995	1984
Sterna dougallii	Sterna	dougallii	roseate tern	116.5079	-20.4995	1984
Sterna dougallii	Sterna	dougallii	roseate tern	116.8056	-20.3858	1984
Sterna dougallii	Sterna	dougallii	roseate tern	116.6737	-20.4485	1984
Sterna dougallii	Sterna	dougallii	roseate tern	116.6393	-20.4388	1984
Sterna dougallii	Sterna	dougallii	roseate tern	116.5936	-20.4817	1984
Sterna dougallii	Sterna	dougallii	roseate tern	116.8317	-20.3889	1990
Sterna dougallii	Sterna	dougallii	roseate tern	116.5381	-20.4778	1990
Sterna dougallii	Sterna	dougallii	roseate tern	116.6393	-20.4388	1990
Sterna dougallii	Sterna	dougallii	roseate tern	116.6737	-20.4485	1990
Sterna dougallii	Sterna	dougallii	roseate tern	116.5079	-20.4995	1990
Sterna dougallii	Sterna	dougallii	roseate tern	116.5936	-20.4817	1990
Sterna dougallii	Sterna	dougallii	roseate tern	116.6943	-20.5202	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.6343	-20.5843	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.5936 116.8494	-20.4817	0
Sterna dougallii Sterna dougallii	Sterna Sterna	dougallii dougallii	roseate tern roseate tern	116.8388	-20.4843 -20.416	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.538	-20.5352	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.6737	-20.3332	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.5389	-20.5356	1994
Sterna dougallii	Sterna	dougallii	roseate tern	116.6732	-20.3530	1994
Sterna dougallii	Sterna	dougallii	roseate tern	116.8806	-20.3881	1998
Sterna dougallii	Sterna	dougallii	roseate tern	116.5389	-20.5356	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.6732	-20.4512	0
Sterna dougallii	Sterna	dougallii	roseate tern	116.5013	-20.4987	1981
Sterna dougallii	Sterna	dougallii	roseate tern	116.5847	-20.582	1981
Sterna dougallii	Sterna	dougallii	roseate tern	116.7513	-20.582	1981
Sterna dougallii	Sterna	dougallii	roseate tern	116.7513	-20.4153	1981
Sterna dougallii	Sterna	dougallii	roseate tern	116.7513	-20.582	1979
Sterna dougallii	Sterna	dougallii	roseate tern	116.5847	-20.4153	1979
Sterna dougallii	Sterna	dougallii	roseate tern	116.5847	-20.582	1979
Sterna dougallii	Sterna	dougallii	roseate tern	116.7513	-20.582	1979
Sterna dougallii	Sterna	dougallii	roseate tern	116.918	-20.4153	1979
Sterna hirundo	Sterna	hirundo	Common Tern	116.4444	-20.6572	1990
Sterna hirundo	Sterna	hirundo	Common Tern	116.5194	-20.6069	1990
Sterna hirundo Sterna hirundo	Sterna	hirundo	Common Tern Common Tern	116.5389	-20.5356	1990 1990
Sterna hirundo	Sterna Sterna	hirundo hirundo		116.8317 116.6343	-20.3889 -20.5843	1990
Sterna hirundo	Sterna	hirundo	Common Tern Common Tern	116.4456	-20.5845	2000
Sterna hirundo	Sterna	hirundo	common tern	116.5758	-20.6397	2000
Sterna hirundo	Sterna	hirundo	common tern	116.4814	-20.6461	2000
Sterna hirundo	Sterna	hirundo	common tern	116.4456	-20.6489	2000
Sternula albifrons	Sternula	albifrons	little tern	116.58	-20.58	2010
Sternula albifrons	Sternula	albifrons	little tern	116.8064	-20.4931	2014
Sternula nereis nereis	Sternula	nereis	fairy tern	116.432	-20.6537	1991
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8044	-20.3856	0
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8044	-20.3856	1983
Sternula nereis nereis	Sternula	nereis	fairy tern	116.866	-20.383	1918
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5	-20.5	1974
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8056	-20.3858	0
Sternula nereis nereis	Sternula	nereis	fairy tern	116.4313	-20.6537	1991
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8056	-20.3858	1983
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8317	-20.3889	0
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5381	-20.4778	0
Sternula nereis nereis	Sternula	nereis	fairy tern	116.675	-20.5178 -20.4485	0
Sternula nereis nereis Sternula nereis nereis	Sternula Sternula	nereis nereis	fairy tern fairy tern	116.6737 116.6732	-20.4485 -20.4512	0
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5079	-20.4512	0
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5936	-20.4993	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.6149	-20.5694	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5936	-20.4817	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.6283	-20.4564	1983
Sternula nereis	Sternula	nereis	fairy tern	116.654	-20.5059	1983
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8056	-20.3858	1983
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8056	-20.3858	1983
Sternula nereis nereis	Sternula	nereis	fairy tern	116.4444	-20.6572	1983
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5381	-20.4778	1983
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5929	-20.5894	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5389	-20.5356	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5079	-20.4995	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5671	-20.4849	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5671	-20.4849	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.6149	-20.5694	1984
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5936	-20.4817	1984
Sternula nereis nereis Sternula nereis nereis	Sternula Sternula	nereis	fairy tern	116.5936 116.6737	-20.4817 -20.4485	1984 1979
Sternula nereis nereis	Sternula	nereis nereis	fairy tern fairy tern	116.6149	-20.4485	1979
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8064	-20.3034	1990
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8597	-20.4931	1990
Sternula nereis nereis	Sternula	nereis	fairy tern	116.8494	-20.4843	1990
Sternula nereis nereis	Sternula	nereis	fairy tern	116.4444	-20.6572	1990
Sternula nereis nereis	Sternula	nereis	fairy tern	116.5194	-20.6069	1990

Semula sensita men	NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	DATE
Semala personament Semala Semala Semala Semala Semala personament Semala Sema	-						
Semala centis centis Semala Semal	Sternula nereis nereis	Sternula	nereis	fairy tern	116.5381	-20.4778	1990
Semula nesta neres Semula Semula Semula Semula Semula nesta Semula Semula nesta	Sternula nereis nereis	Sternula	nereis	fairy tern	116.6283	-20.4564	1990
Semala serole serole Semala Semal			nereis				
Semant series Semant Sem							
Service neres Service							
Sermin promise promise Sermin Ser							
Service Serv				•			
Serumia serois monits Serumia							
Sermals protes Sermals	Sternula nereis nereis						0
Servals nestes nestes nestes nestes nestes nestes Servals review re	Sternula nereis nereis	Sternula	nereis	fairy tern	116.8597	-20.4044	1990
Service ameries nereis Service	Sternula nereis nereis	Sternula	nereis	fairy tern	116.4313	-20.6537	1990
Semail areas needs			nereis				
Sermals noverth creeris Sermals Sermals Geres Sermals Garly fem 16,6337 20,388 20,38							
Sermal neres neres Sermal neres							
Sermal nerein nerein nerein nerein nerein nerein Sermal ne							
Service Serv							
Service Serv							
Solis Social Secret Soli							
Solis Secregator Solis							
Sola Incognator Sola	Sula leucogaster	Sula			116.6737	-20.4485	1979
Sola	Sula leucogaster	Sula	leucogaster	brown booby	116.6732	-20.4512	1979
Souls	Sula leucogaster	Sula	leucogaster	brown booby	116.7273	-20.533	1983
Souls	=			•			
Sola Incognator Incognator Sola Incognator Sola Incognator Sola Inco				•			
Substance Subs	=		ū	•			
Substance Subs				•			
Sala Incognator Sala			_	•			
Substance Subs			_	•			
Sola lescognater Sola les lescognater Sola les les cognater Sola les les cognater Sola les les les cognater Sola les les les les cognater Sola les							
Substance- Subs				•			
Substance Subs	Sula leucogaster	Sula		brown booby	116.7513	-20.4153	1980
Subla leucogaster Subla such sublation 116,5587 20,4353 1978 Subla such pergia Thaliasseus bergia crested tern 115,5782 20,4352 1999 Thaliasseus bergii Thaliasseus bergii crested tern 118,6202 20,5962 1999 Thaliasseus bergii Thaliasseus bergii crested tern 118,6202 20,2032 1999 Thaliasseus bergii Thaliasseus bergii crested tern 118,6202 20,2032 1993 Thaliasseus bergii Thaliasseus bergii crested tern 118,6202 20,0326 1999 Thaliasseus bergii Thaliasseus bergii crested tern 118,6202 20,0326 1999 Thaliasseus bergii Thaliasseus bergii crested tern 118,6202 20,0459 1999 Thaliasseus bergii	Sula leucogaster	Sula	leucogaster	brown booby	116.7513	-20.582	1980
Substance Subs	Sula leucogaster	Sula	leucogaster	brown booby	116.7513	-20.582	1980
Substance Substance Substance Substance Substance Page Pag	Sula leucogaster		leucogaster	brown booby			
Thalasseus bergil Thalasseus bergil crested tern 116.8702 20.5862 20.991 20.5862 20.991 20.5862 20.991 20.5862 20.991 20.9862	=		_	•			
Thalasseus bergil	_			•			
Thalasseus bergil Thalasseus bergil Crested term 11.6.812 2.05.938 1.999 Thalasseus bergil Thalasseus bergil Crested term 11.6.652 2.04.78 1.999 Thalasseus bergil Thalasseus bergil crested term 11.6.6675 2.05.203 2002 Thalasseus bergil Thalasseus bergil crested term 11.6.837 2.06.533 2002 Thalasseus bergil Thalasseus bergil crested term 11.6.810 2.06.503 1999 Thalasseus bergil Thalasseus bergil crested term 11.6.810 2.06.059 1999 Thalasseus bergil Thalasseus bergil crested term 11.6.810 2.06.059 1999 Thalasseus bergil Thalasseus bergil crested term 11.6.813 2.04.697 1999 Thalasseus bergil Thalasseus bergil crested term 11.6.813 2.04.693 1991 Thalasseus bergil Thalasseus bergil Thalasseus bergil crested term 11.6.704 2.05							
Thalasseus bergil Thalasseus bergil Created tern 116.682 20.4748 30.90 Thalasseus bergil Thalasseus bergil created tern 116.667 20.503 30.00 Thalasseus bergil Thalasseus bergil created tern 116.667 20.503 300 Thalasseus bergil Thalasseus bergil created tern 116.6792 20.5203 300 Thalasseus bergil Thalasseus bergil created tern 116.6105 20.6059 1999 Thalasseus bergil Thalasseus bergil created tern 116.6105 20.6059 1999 Thalasseus bergil Thalasseus bergil created tern 116.6105 20.6059 1991 Thalasseus bergil Thalasseus bergil created tern 116.6381 20.4603 2011 Thalasseus bergil Thalasseus bergil created tern 116.6783 20.6331 1901 Thalasseus bergil Thalasseus bergil created tern 116.6783 20.6332 1901							
Thalasseus bergil Thalasseus bergil crested term 11.6.675 20.5203 2002 Thalasseus bergil Thalasseus bergil crested term 116.6874 20.5203 2002 Thalasseus bergil Thalasseus bergil crested term 116.6874 20.6533 2002 Thalasseus bergil Thalasseus bergil Crested term 116.800 20.6099 1999 Thalasseus bergil Thalasseus bergil Crested term 116.810 20.6099 1999 Thalasseus bergil Thalasseus bergil Crested term 116.810 20.6099 1999 Thalasseus bergil Thalasseus bergil Crested term 116.5847 20.6487 20.057 Thalasseus bergil Thalasseus bergil Crested term 116.6283 20.6333 20.11 Thalasseus bergil Thalasseus bergil Thalasseus bergil Crested term 116.6283 20.6331 20.91 Thalasseus bergil Thalasseus bergil Thalasseus bergil Crested term 116.5947 20.4532 188 Thalasseus bergil <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Palasseus bergil Thalasseus bergil crested tem 116.657 20.5203 2002 Palasseus bergil Thalasseus bergil crested tem 116.8347 20.055 1999 Palasseus bergil Thalasseus bergil crested tem 116.8102 20.059 1999 Palasseus bergil Thalasseus bergil Crested tem 116.8103 20.0599 1999 Palasseus bergil Thalasseus bergil Crested tem 116.8103 20.0599 1999 Palasseus bergil Thalasseus bergil Crested tem 116.5847 20.5833 2010 Palasseus bergil Thalasseus bergil Crested tem 116.5794 20.5833 2010 Palasseus bergil Thalasseus bergil Crested tem 116.7942 20.6331 2011 Palasseus bergil Thalasseus bergil Crested tem 116.75932 20.4603 2011 Palasseus bergil Thalasseus bergil Crested tem 116.75932 20.4533 1890 Palasseus bergil Thalasseus bergil Thalasseus bergil Thalasseus bergil <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Palasseus bergil Thalasseus bergil crested tem 11.6.347 20.5532 2002 Phalasseus bergil Thalasseus bergil crested tem 11.6.7922 20.5526 19.99 Phalasseus bergil Thalasseus bergil crested tem 11.6.800 20.6059 19.99 Phalasseus bergil Thalasseus bergil crested tem 11.6.810 20.6059 19.99 Phalasseus bergil Thalasseus bergil crested tem 11.6.5817 20.487 2005 Phalasseus bergil Thalasseus bergil Crested tem 11.6.6283 20.033 2010 Phalasseus bergil Thalasseus bergil crested tem 11.6.6283 20.633 2011 Phalasseus bergil Thalasseus bergil crested tem 11.6.6283 20.6331 2011 Phalasseus bergil Thalasseus bergil Crested tem 11.6.932 20.4331 19.80 Phalasseus bergil Thalasseus bergil Crested tem 11.6.913 20.4837 19.80 Phalasseus bergil Thalasseus bergil Crested tem 11.6.751							
Palasseus bergii Thalasseus bergii crested tern 11.8.810 20.059 1999 1991 1991 1891 1892 1892 1892 1892 1893 1							
Palasseus bergii Thalasseus bergii crested tern 11.8.810 20.697 1999 1998 1991 1898 1891 crested tern 11.8.813 20.4847 20.505 1991 1898 1892	Thalasseus bergii	Thalasseus		crested tern	116.7922	-20.5826	1999
Tablasseus bergii Tablasseus Dergii Crested tern 116.8531 a 20.4887 2005. Tablasseus bergii Tablasseus Dergii Crested tern 116.7047 - 20.6662 2010. Tablasseus bergii Crested tern 116.7047 - 20.6662 2011. Tablasseus bergii Crested tern 116.7047 - 20.6662 2011. Tablasseus bergii Tablasseus Dergii Crested tern 116.7048 20.6339 2011. Tablasseus bergii Tablasseus Dergii Crested tern 116.7083 - 20.6339 2011. Tablasseus bergii Tablasseus Dergii Crested tern 116.7083 - 20.6339 1993. Tablasseus bergii Tablasseus Dergii Crested tern 116.918 - 20.4153 1990. Tablasseus Dergii Crested tern 116.918 - 20.4153 1991. Tablasseus Dergii Crested tern 116.918 - 20.018 1991. Tablasseus Dergii Crested tern 116	Thalasseus bergii	Thalasseus	bergii	crested tern	116.8105	-20.6059	1999
Palasseus bergii Thalasseus Pergii Crested tern 116.5847 20.5833 20.10 Palasseus bergii Thalasseus Pergii Crested tern 116.704 70.6662 20.10 Palasseus bergii Thalasseus Pergii Crested tern 116.7283 20.4603 20.11 Palasseus bergii Thalasseus Pergii Crested tern 116.7283 20.4633 20.11 Palasseus bergii Thalasseus Pergii Crested tern 116.7283 20.4987 1393 Palasseus bergii Thalasseus Pergii Crested tern 116.5033 20.4987 1393 Palasseus bergii Thalasseus Pergii Crested tern 116.5033 20.4987 1393 Palasseus bergii Thalasseus Pergii Crested tern 116.5313 20.4153 1398 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1398 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.582 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.582 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.4153 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.582 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.582 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 20.582 1391 Palasseus bergii Thalasseus Pergii Crested tern 116.5347 2	Thalasseus bergii	Thalasseus	bergii	crested tern	116.8105	-20.6059	1999
Thalasseus bergii Thalasseus bergii crested tern 116.028 20.010 20.011			bergii				
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Tringa brevipesTringabrevipesgrey-tailed tattler116.6343-20.58430Tringa brevipesTringabrevipesgrey-tailed tattler116.7768-20.54051983Tringa brevipesTringabrevipesgrey-tailed tattler116.514-20.60691983Tringa brevipesTringabrevipesgrey-tailed tattler116.5417-20.53681983Tringa brevipesTringabrevipesgrey-tailed tattler116.654-20.50591983Tringa brevipesTringa brevipesgrey-tailed tattler116.654-20.48431983Tringa brevipesTringa brevipesgrey-tailed tattler116.594-20.48431983Tringa brevipesTringa brevipesgrey-tailed tattler116.594-20.60691983	=			= :			
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Tringa brevipesTringabrevipesgrey-tailed tattler116.5194-20.60691983Tringa brevipesTringabrevipesgrey-tailed tattler116.5417-20.53681983Tringa brevipesTringabrevipesgrey-tailed tattler116.654-20.50591983Tringa brevipesTringabrevipesgrey-tailed tattler116.8494-20.48431983Tringa brevipesTringabrevipesgrey-tailed tattler116.5194-20.60691983	=	-		= :			
Tringa brevipesTringabrevipesgrey-tailed tattler116.5417-20.53681983Tringa brevipesTringabrevipesgrey-tailed tattler116.654-20.50591983Tringa brevipesTringabrevipesgrey-tailed tattler116.8494-20.48431983Tringa brevipesTringabrevipesgrey-tailed tattler116.5194-20.60691983	=						
Tringa brevipesTringabrevipesgrey-tailed tattler116.8494-20.48431983Tringa brevipesTringabrevipesgrey-tailed tattler116.5194-20.60691983					116.5417	-20.5368	1983
Tringa brevipes Tringa brevipes grey-tailed tattler 116.5194 -20.6069 1983	Tringa brevipes		brevipes	grey-tailed tattler	116.654	-20.5059	1983
	=						
Tringa brevipes Tringa brevipes grey-tailed tattler 116.5194 -20.6069 1984	- · · · ·		•				
	Tringa brevipes	Tringa	previpes	grey-tailed tattler	116.5194	-20.6069	1984

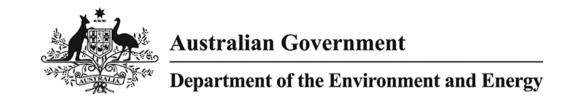
NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Tringa brevines	Tringa	brevipes	= :	116.5194	-20.6069	1984
Tringa brevipes Tringa brevipes	Tringa	brevipes brevipes		116.8056 116.8056	-20.3858 -20.3858	1984 1990
Tringa brevipes Tringa brevipes	Tringa Tringa	brevipes	= :	116.7768	-20.5405	1990
Tringa brevipes	Tringa	brevipes		116.8494	-20.4843	1990
Tringa brevipes	Tringa	brevipes	= :	116.5194	-20.6069	1990
Tringa brevipes	Tringa	brevipes	grey-tailed tattler	116.5389	-20.5356	1990
Tringa brevipes	Tringa	brevipes	grey-tailed tattler	116.8806	-20.3881	1990
Tringa brevipes	Tringa	brevipes	grey-tailed tattler	116.675	-20.5178	1990
Tringa brevipes	Tringa	brevipes	= :	116.6583	-20.525	1999
Tringa brevipes	Tringa	brevipes		116.6667	-20.5194	2000
Tringa brevipes Tringa brevipes	Tringa Tringa	brevipes brevipes	= :	116.8494 116.8064	-20.4843 -20.4931	1978 2014
Tringa brevipes	Tringa	brevipes	grey-tailed tattler	116.654	-20.5059	0
Tringa brevipes	Tringa	brevipes	= :	116.6283	-20.4564	0
Tringa brevipes	Tringa	brevipes	= :	116.8806	-20.3881	1998
Tringa glareola	Tringa	glareola	wood sandpiper	116.5	-20.5	1977
Tringa glareola	Tringa	glareola	wood sandpiper	116.5	-20.5	1977
Tringa glareola	Tringa	glareola		116.5013	-20.4987	1977
Tringa glareola	Tringa	glareola		116.5013	-20.4987	1977
Tringa nebularia Tringa nebularia	Tringa Tringa	nebularia nebularia	common greenshank, common greenshank,	116.5 116.5	-20.5 -20.5	1980 1966
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5	-20.5	1978
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5	-20.5	1977
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5	-20.5	1980
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5	-20.5	1981
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5	-20.5	1983
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5	-20.5	1977
Tringa nebularia	Tringa	nebularia	common greenshank,	116.58	-20.58	0
Tringa nebularia	Tringa	nebularia	common greenshank,	116.85	-20.45	2005
Tringa nebularia Tringa nebularia	Tringa	nebularia nebularia		116.6225 116.5194	-20.4697 -20.6069	0 1983
Tringa nebularia	Tringa Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.5194	-20.6069	1990
Tringa nebularia	Tringa	nebularia	5	116.5936	-20.4817	1990
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.6343	-20.5843	1990
Tringa nebularia	Tringa	nebularia		116.8494	-20.4843	1978
Tringa nebularia	Tringa	nebularia	common greenshank,	116.6225	-20.4697	1981
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.8806	-20.3881	1998
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.8347	-20.6653	2002
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.7597	-20.6403	1999
Tringa nebularia Tringa nebularia	Tringa Tringa	nebularia nebularia	- · · · · · · · · · · · · · · · · · · ·	116.7819 116.8513	-20.5903 -20.4487	1999 2005
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.7047	-20.6662	2010
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.5013	-20.4987	1981
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.5847	-20.582	1980
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5847	-20.4153	1980
Tringa nebularia	Tringa	nebularia	common greenshank,	116.7513	-20.582	1980
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.7513	-20.4153	1980
Tringa nebularia	Tringa	nebularia		116.5847	-20.4153	1981
Tringa nebularia	Tringa	nebularia	5	116.7513	-20.582	1981
Tringa nebularia Tringa nebularia	Tringa Tringa	nebularia nebularia	- · · · · · · · · · · · · · · · · · · ·	116.7513 116.5847	-20.582 -20.582	1981 1981
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.5013	-20.382	1978
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.5013	-20.4987	1977
Tringa nebularia	Tringa	nebularia	- · · · · · · · · · · · · · · · · · · ·	116.5013	-20.4987	1978
Tringa nebularia	Tringa	nebularia	common greenshank,	116.7513	-20.582	1979
Tringa nebularia	Tringa	nebularia	common greenshank,	116.5013	-20.4987	1977
Tringa nebularia	Tringa	nebularia		116.5013	-20.4987	1979
Tringa nebularia	Tringa	nebularia	5	116.7513	-20.582	1979
Tringa nebularia Tringa stagnatilis	Tringa	nebularia stagnatilis	common greenshank, marsh sandpiper, littli	116.5013 116.5	-20.4987 -20.5	1980 1980
Tringa stagnatilis Tringa stagnatilis	Tringa Tringa	stagnatilis	marsh sandpiper, little	116.5	-20.5	1977
Tringa stagnatilis	Tringa	stagnatilis	marsh sandpiper, little	116.5	-20.5	1980
Tringa stagnatilis	Tringa	stagnatilis	marsh sandpiper, little	116.5	-20.5	1966
Tringa stagnatilis	Tringa	stagnatilis	marsh sandpiper, little	116.5013	-20.4987	1980
Tringa stagnatilis	Tringa	stagnatilis		116.5013	-20.4987	1977
Tringa stagnatilis	Tringa	stagnatilis		116.5013	-20.4987	1979
Xenus cinereus	Xenus	cinereus	Terek sandpiper	116.5	-20.5	1977
Xenus cinereus	Xenus	cinereus	Terek sandpiper	116.5	-20.5	1981
Xenus cinereus Xenus cinereus	Xenus Xenus	cinereus cinereus		116.8268 116.8215	-20.4836 -20.5195	2015 2015
Chlidonias leucopterus	Chlidonias	leucopterus		116.5381	-20.4778	1983
Chlidonias leucopterus	Chlidonias	leucopterus	=	116.4593	-20.631	1983
Chlidonias leucopterus	Chlidonias	leucopterus	-	116.4814	-20.6461	2000
Chlidonias leucopterus	Chlidonias	leucopterus	white-winged black to	116.5013	-20.4987	1978
Chlidonias leucopterus	Chlidonias	leucopterus	-	116.5013	-20.4987	1977
Chlidonias leucopterus	Chlidonias	leucopterus		116.7513	-20.582	1978
Chlidonias leucopterus	Chlidonias	leucopterus		116.7513	-20.582	1979
Chlidonias leucopterus	Chlidonias	leucopterus		116.5013	-20.4987	1977
Chlidonias leucopterus Chlidonias leucopterus	Chlidonias Chlidonias	leucopterus leucopterus	-	116.7513 116.5013	-20.582 -20.4987	1979 1980
Gelochelidon nilotica		nilotica		116.8494	-20.4987	1980
Gelochelidon nilotica	Gelochelidon	nilotica	_	116.5194	-20.6069	1990
Gelochelidon nilotica	Gelochelidon		gull-billed tern	116.5	-20.5	1980
Onychoprion anaethetus	Onychoprion	anaethetus		116.6225	-20.4697	0
Onychoprion anaethetus		anaethetus		116.6247	-20.6665	1988
Onychoprion anaethetus	Onychoprion	anaethetus		116.5381	-20.4778	0
Onychoprion anaethetus	Onychoprion	anaethetus		116.6732	-20.4512	1081
Onychoprion anaethetus Onychoprion anaethetus	Onychoprion Onychoprion	anaethetus anaethetus		116.5936 116.6169	-20.4817 -20.4441	1981 1991
z., jzp.non anacinetas	,copiioii				20.4441	1331

NAME_SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	
Onychoprion anaethetus	Onychoprion			116.6225	-20.4697	1990
Onychoprion anaethetus Onychoprion anaethetus	Onychoprion Onychoprion			116.6225 116.5389	-20.4697 -20.5356	1991 1982
Onychoprion anaethetus	Onychoprion			116.5389	-20.5356	1992
Onychoprion anaethetus	Onychoprion			116.6247	-20.6665	1991
Onychoprion anaethetus	Onychoprion	anaethetus		116.5381	-20.4778	1991
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6283	-20.4564	1990
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6732	-20.4512	1991
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6225	-20.4697	1981
Onychoprion anaethetus	Onychoprion	anaethetus		116.5389	-20.5356	0
Onychoprion anaethetus	Onychoprion	anaethetus		116.6283	-20.4564	0
Onychoprion anaethetus	Onychoprion			116.6396	-20.4392	0
Onychoprion anaethetus	Onychoprion			116.6737	-20.4485	1980
Onychoprion anaethetus	Onychoprion Onychoprion			116.6732	-20.4512	1980
Onychoprion anaethetus Onychoprion anaethetus	Onychoprion			116.5079 116.5389	-20.4995 -20.5356	0 1982
Onychoprion anaethetus	Onychoprion			116.6283	-20.3550	1983
Onychoprion anaethetus	Onychoprion			116.5389	-20.5356	1983
Onychoprion anaethetus	Onychoprion			116.5389	-20.5356	1983
Onychoprion anaethetus	Onychoprion			116.5381	-20.4778	1983
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6283	-20.4564	1983
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6225	-20.4697	1983
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.8056	-20.3858	1983
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.5389	-20.5356	1984
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.5079	-20.4995	1984
Onychoprion anaethetus	Onychoprion			116.6737	-20.4485	1980
Onychoprion anaethetus	Onychoprion			116.6743	-20.4475	1984
Onychoprion anaethetus	Onychoprion			116.6393	-20.4388	1984
Onychoprion anaethetus	Onychoprion			116.8056	-20.3858	1990
Onychoprion anaethetus	Onychoprion			116.8597	-20.4044	1990
Onychoprion anaethetus	Onychoprion			116.8317	-20.3889	1990
Onychoprion anaethetus Onychoprion anaethetus	Onychoprion Onychoprion			116.6283 116.6393	-20.4564 -20.4388	1990 1990
Onychoprion anaethetus	Onychoprion			116.6737	-20.4386	1990
Onychoprion anaethetus	Onychoprion			116.5079	-20.4483	1990
Onychoprion anaethetus	Onychoprion			116.6737	-20.4485	0
Onychoprion anaethetus	Onychoprion			116.6225	-20.4697	1991
Onychoprion anaethetus	Onychoprion			116.6225	-20.4697	1981
Onychoprion anaethetus	Onychoprion			116.6225	-20.4697	1994
Onychoprion anaethetus	Onychoprion			116.6225	-20.4697	1984
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.5389	-20.5356	1994
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6247	-20.6665	1994
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6247	-20.6665	1988
Onychoprion anaethetus	Onychoprion			116.5381	-20.4778	1984
Onychoprion anaethetus	Onychoprion			116.6283	-20.4564	1990
Onychoprion anaethetus	Onychoprion			116.6732	-20.4512	1991
Onychoprion anaethetus	Onychoprion			116.6732	-20.4512	1983
Onychoprion anaethetus	Onychoprion			116.5936	-20.4817	1977 1991
Onychoprion anaethetus Onychoprion anaethetus	Onychoprion Onychoprion			116.6247 116.5389	-20.6665 -20.5356	1991
Onychoprion anaethetus	Onychoprion			116.5389	-20.5356	1990
Onychoprion anaethetus	Onychoprion			116.6225	-20.3530	1990
Onychoprion anaethetus	Onychoprion			116.5389	-20.5356	1990
Onychoprion anaethetus	Onychoprion			116.5381	-20.4778	1990
Onychoprion anaethetus	Onychoprion			116.6225	-20.4697	0
Onychoprion anaethetus	Onychoprion			116.6283	-20.4564	0
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.5389	-20.5356	1984
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.8806	-20.3881	1998
Onychoprion anaethetus	Onychoprion	anaethetus	bridled tern	116.6169	-20.4441	0
Onychoprion anaethetus	Onychoprion	anaethetus		116.6225	-20.4697	0
Onychoprion anaethetus	Onychoprion			116.5389	-20.5356	0
Onychoprion anaethetus	Onychoprion	anaethetus		116.6247	-20.6665	0
Onychoprion anaethetus	Onychoprion			116.5381	-20.4778	0
Onychoprion anaethetus	Onychoprion	anaethetus		116.6283 116.6732	-20.4564	0 0
Onychoprion anaethetus Onychoprion anaethetus	Onychoprion Onychoprion	anaethetus anaethetus		116.5732	-20.4512 -20.4817	0
Puffinus pacificus	Puffinus	pacificus		116.6251	-20.4817	1983
Puffinus pacificus	Puffinus	pacificus	=	116.6251	-20.4707	1990
Puffinus pacificus	Puffinus	pacificus	=	116.5379	-20.4785	1983
Puffinus pacificus	Puffinus	pacificus	=	116.5379	-20.4785	1983
Puffinus pacificus	Puffinus	pacificus	=	116.6292	-20.4571	1983
Puffinus pacificus	Puffinus	pacificus	-	116.6292	-20.4571	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.8044	-20.3856	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6168	-20.4438	1991
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5327	-20.5428	1983
Puffinus pacificus	Puffinus	pacificus	-	116.6742	-20.5151	0
Puffinus pacificus	Puffinus	pacificus	=	116.6742	-20.5151	1983
Puffinus pacificus	Puffinus	pacificus	=	116.6742	-20.5151	1983
Puffinus pacificus	Puffinus	pacificus	=	116.6742	-20.5151	1983
Puffinus pacificus	Puffinus	pacificus	-	116.5473	-20.5379	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.538	-20.5352	0
Puffinus pacificus	Puffinus	pacificus	-	116.6251	-20.4707	0 0
Puffinus pacificus Puffinus pacificus	Puffinus Puffinus	pacificus pacificus	=	116.6251 116.6742	-20.4707 -20.5151	0
Puffinus pacificus	Puffinus	pacificus		116.5742	-20.5151	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.538	-20.5352	0
Puffinus pacificus	Puffinus	pacificus	=	116.4449	-20.6588	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.538	-20.5352	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.538	-20.5352	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.777	-20.5399	0

NAME SCI	GENUS	SPECIES	NAME_COM GDA_LONG		GDA_LAT	DATE
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.777	-20.5399	1982
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.506	-20.5002	1974
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6667	-20.5194	2000
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.86	-20.38	1962
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6169	-20.4441	1991
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.7768	-20.5405	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.4444	-20.6572	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5479	-20.5379	1978
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5381	-20.4778	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5381	-20.4778	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6283	-20.4564	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1988
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6283	-20.4564	1983
Puffinus pacificus Puffinus pacificus	Puffinus Puffinus	pacificus	wedge-tailed shearwa wedge-tailed shearwa	116.8056 116.7768	-20.3858	1983
Puffinus pacificus	Puffinus	pacificus pacificus	wedge-tailed shearwa wedge-tailed shearwa	116.7768	-20.5405 -20.4697	1982 1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1991
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5327	-20.5428	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5381	-20.4778	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.7768	-20.5405	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.4444	-20.6572	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6796	-20.5419	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5381	-20.4778	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6283	-20.4564	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5079	-20.4995	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6283	-20.4564	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5327	-20.5428	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.7768	-20.5405	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6283	-20.4564	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.654	-20.5059	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.7768	-20.5405	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5381	-20.4778	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5079	-20.4995	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.8056	-20.3858 -20.5178	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675		1984 0
Puffinus pacificus Puffinus pacificus	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwa wedge-tailed shearwa	116.4449 116.538	-20.6588 -20.5352	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6742	-20.5352	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.777	-20.5399	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6251	-20.4707	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5379	-20.4785	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6292	-20.4571	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6168	-20.4438	1991
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5327	-20.5428	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6283	-20.4564	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6169	-20.4441	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.654	-20.5059	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5473	-20.5379	1977
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6169	-20.4441	1991
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.7768	-20.5405	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.4444	-20.6572	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5479	-20.5379	1978
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1994
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1994
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1983
Puffinus pacificus Puffinus pacificus	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwa wedge-tailed shearwa	116.5389 116.5389	-20.5356 -20.5356	1983 1984
Puffinus pacificus Puffinus pacificus	Puffinus Puffinus	pacificus	wedge-tailed shearwa wedge-tailed shearwa	116.5389	-20.5356 -20.4778	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5381	-20.4778	1983
Puffinus pacificus Puffinus pacificus	Puffinus Puffinus	pacificus	wedge-tailed shearwa wedge-tailed shearwa	116.5381	-20.4778 -20.4778	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6283	-20.4778	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.4304	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	1982
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.675	-20.5178	1983
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1992
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.5389	-20.5356	1978
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.8056	-20.3858	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.7768	-20.5405	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	116.6225	-20.4697	1990

NAME_SCI	GENUS	SPECIES	NAME_COM	GDA_LONG		GDA_LAT	DATE
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	:	116.5389	-20.5356	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	:	116.5381	-20.4778	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	:	116.6283	-20.4564	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.8806	-20.3881	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	:	116.675	-20.5178	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.5079	-20.4995	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.7768	-20.5405	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.654	-20.5059	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.6225	-20.4697	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.6796	-20.5419	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.6283	-20.4564	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.4444	-20.6572	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.675	-20.5178	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.5389	-20.5356	1984
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa		116.8806	-20.3881	1990
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.6169	-20.4441	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.8056	-20.3858	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.7768	-20.5405	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.4444	-20.6572	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.5479	-20.5379	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.6225	-20.4697	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.5327	-20.5428	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.5389	-20.5356	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.5381	-20.4778	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.6283	-20.4564	0
Puffinus pacificus	Puffinus	pacificus	wedge-tailed shearwa	!	116.675	-20.5178	0

APPENDIX C: PROTECTED MA	TTERS SEARCH TOOL	EPBC DATABASE F	RECORDS (100 KM &	5 KM BUFFERS)



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 13/11/18 16:13:09

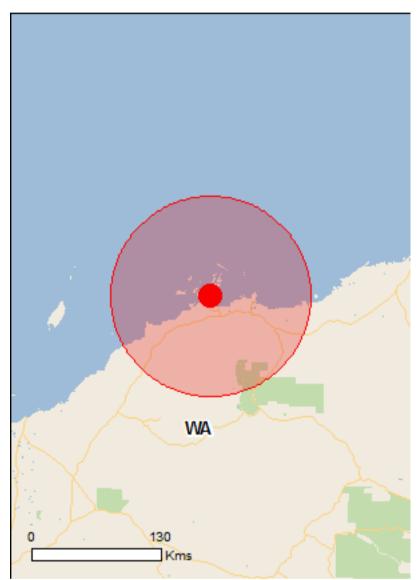
Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

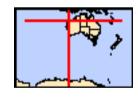
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 100.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	35
Listed Migratory Species:	66

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	2
Commonwealth Heritage Places:	None
Listed Marine Species:	113
Whales and Other Cetaceans:	16
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	4

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	9
Regional Forest Agreements:	None
Invasive Species:	19
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	1

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Indigenous		
Dampier Archipelago (including Burrup Peninsula)	WA	Listed place

Commonwealth Marine Area [Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Name

EEZ and Territorial Sea

Marine Regions [Resource Information]

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

Name

North-west

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
<u>Charadrius mongolus</u> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Limosa lapponica baueri Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
<u>Limosa Iapponica menzbieri</u> Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area

Name	Status	Type of Presence
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding known to occur within area
Mammals		
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat may occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Rhinonicteris aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat likely to occur within area
Reptiles		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Ctenotus angusticeps Northwestern Coastal Ctenotus, Airlie Island Ctenotus [25937]	Vulnerable	Species or species habitat likely to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area

Name	Status	Type of Presence
Lerista nevinae Nevin's Slider [85296]	Endangered	Species or species habitat known to occur within area
<u>Liasis olivaceus barroni</u> Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Listed Migratory Species * Species is listed under a different scientific name on Name	the EPBC Act - Threatened Threatened	[Resource Information] I Species list. Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna pacifica Wedge-tailed Shearwater [84292]		Breeding known to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Breeding likely to occur

Name	Threatened	Type of Presence within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat may occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Isurus oxyrinchus Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
Isurus paucus Longfin Mako [82947]		Species or species habitat likely to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat known to occur within area
<u>Tursiops aduncus (Arafura/Timor Sea populations)</u> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Migratory Terrestrial Species		
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Arenaria interpres Ruddy Turnstone [872]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris alba Sanderling [875]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Calidris subminuta Long-toed Stint [861]		Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur

Name	Threatened	Type of Presence
Charadrius Issahanaultii		within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
<u>Charadrius mongolus</u> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Charadrius veredus		
Oriental Plover, Oriental Dotterel [882]		Species or species habitat known to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat known to occur within area
<u>Limicola falcinellus</u> Broad-billed Sandpiper [842]		Species or species habitat known to occur within area
<u>Limosa lapponica</u>		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Limosa limosa</u> Black-tailed Godwit [845]		Species or species habitat known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius phaeopus		Consider an anasias habitat
Whimbrel [849]		Species or species habitat known to occur within area
Pandion haliaetus		
Osprey [952]		Breeding known to occur within area
Phalaropus lobatus Red-necked Phalarope [838]		Species or species habitat
Red-flecked i flalatope [000]		known to occur within area
Pluvialis fulva		On a size an en a size habitat
Pacific Golden Plover [25545]		Species or species habitat known to occur within area
Pluvialis squatarola		
Grey Plover [865]		Species or species habitat known to occur within area
Thalasseus bergii		Duo a dia a lua avva ta a a avva
Crested Tern [83000]		Breeding known to occur within area
Tringa brevipes Grey-tailed Tattler [851]		Species or species habitat
		known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat
		known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Species or species habitat
		known to occur within area
Tringa totanus Common Redshank, Redshank [835]		Species or species habitat known to occur within area
Xenus cinereus		
Terek Sandniner [50300]		Spaciae or epociae

Species or species

Terek Sandpiper [59300]

Name Threatened Type of Presence habitat known to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [Resource Information]

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name

Commonwealth Land -

Defence - KARRATHA TRAINING DEPOT

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific	name on the EPBC Act - Threa	tened Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known to occur within area

Anous stolidus

Common Noddy [825] Species or species habitat

may occur within area

Apus pacificus

Fork-tailed Swift [678] Species or species habitat

likely to occur within area

Ardea alba

Great Egret, White Egret [59541] Species or species habitat

known to occur within area

Ardea ibis

Cattle Egret [59542] Species or species habitat

may occur within area

Arenaria interpres

Ruddy Turnstone [872] Species or species habitat

known to occur within area

Calidris acuminata

Sharp-tailed Sandpiper [874] Species or species habitat

known to occur within area

Calidris alba

Sanderling [875] Species or species habitat

known to occur within area

Calidris canutus

Red Knot, Knot [855] Endangered Species or species

Name	Threatened	Type of Presence
Calidris ferruginea		habitat known to occur within area
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat known to occur within area
Calidris ruficollis		
Red-necked Stint [860]		Species or species habitat known to occur within area
Calidris subminuta		
Long-toed Stint [861]		Species or species habitat known to occur within area
Calidris tenuirostris		
Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Calonectris leucomelas		
Streaked Shearwater [1077]		Species or species habitat likely to occur within area
Creater Sand Disyar, Large Sand Disyar [977]	\/\ulparabla	Charles or angeles habitat
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius mongolus Legar Cand Dlayer, Mangalian Dlayer [970]	Endangered	Charles or angeles habitat
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Charadrius ruficapillus Ded carried Discon [201]		On a sing on an asing babitat
Red-capped Plover [881]		Species or species habitat known to occur within area
Charadrius veredus Oriental Player, Oriental Detteral [992]		Species or species habitat
Oriental Plover, Oriental Dotterel [882]		Species or species habitat known to occur within area
Chrysococcyx osculans Plack pared Cycles [705]		Species or species habitat
Black-eared Cuckoo [705]		Species or species habitat known to occur within area
Fregata ariel Lossor Frigatobird Loast Frigatobird [1012]		Species or species habitat
Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat
		may occur within area
Glareola maldivarum Oriental Pratincolo [840]		Species or species habitat
Oriental Pratincole [840]		Species or species habitat known to occur within area
Haliaeetus leucogaster White halling See Fagle [042]		Prooding known to coour
White-bellied Sea-Eagle [943] <u>Heteroscelus brevipes</u>		Breeding known to occur within area
Grey-tailed Tattler [59311]		Species or species habitat known to occur within area
Himantopus himantopus		
Pied Stilt, Black-winged Stilt [870]		Species or species habitat known to occur within area
Hirundo rustica		
Barn Swallow [662]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Larus novaehollandiae Silver Gull [810]		Breeding known to occur within area
Limicola falcinellus Broad-billed Sandpiper [842]		Species or species habitat known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Limosa limosa</u> Black-tailed Godwit [845]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius phaeopus Whimbrel [849]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Phalaropus lobatus Red-necked Phalarope [838]		Species or species habitat known to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area
Pluvialis squatarola Grey Plover [865]		Species or species habitat known to occur within area
Puffinus pacificus Wedge-tailed Shearwater [1027]		Breeding known to occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bergii Crested Tern [816] Sterna caspia		Breeding known to occur within area
Caspian Tern [59467]		Breeding known to occur

Name	Threatened Typ	e of Presence
	71	nin area
Sterna dougallii		
Roseate Tern [817]	Bre	eding likely to occur
		nin area
Sterna fuscata	_	
Sooty Tern [794]		eding known to occur
Ctorno norois	with	nin area
Sterna nereis Fairy Torn [706]	Dro	ading known to accur
Fairy Tern [796]		eding known to occur nin area
Stiltia isabella	VVIU	iiii aica
Australian Pratincole [818]	Spe	ecies or species habitat
	•	wn to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]	•	ecies or species habitat
	KNO	wn to occur within area
Tringa stagnatilis		
Marsh Sandpiper, Little Greenshank [833]	Spe	ecies or species habitat
	•	wn to occur within area
Tringa totanus		
Common Redshank, Redshank [835]	•	ecies or species habitat
	KNO	wn to occur within area
Xenus cinereus		
Terek Sandpiper [59300]	Spe	ecies or species habitat
	•	wn to occur within area
Fish		
Acentronura larsonae		
Helen's Pygmy Pipehorse [66186]	•	ecies or species habitat
	may	y occur within area
Bulbonaricus brauni		
Braun's Pughead Pipefish, Pug-headed Pipefish	Spe	ecies or species habitat
[66189]	•	y occur within area
Campichthys tricarinatus		
Three-keel Pipefish [66192]	•	ecies or species habitat
	IIIay	y occur within area
Choeroichthys brachysoma		
Pacific Short-bodied Pipefish, Short-bodied Pipefish	Spe	ecies or species habitat
[66194]	may	occur within area
Observation through the Combination		
Choeroichthys latispinosus	On a	. sia a su au a sia a la abitat
Muiron Island Pipefish [66196]	•	ecies or species habitat
	IIIay	y occur within area
Choeroichthys suillus		
Pig-snouted Pipefish [66198]	Spe	ecies or species habitat
	may	occur within area
Corythoichthys flavofasciatus	0.00	orton on an orton to the letter
Reticulate Pipefish, Yellow-banded Pipefish, Network	•	ecies or species habitat
Pipefish [66200]	шау	y occur within area
Cosmocampus banneri		
Roughridge Pipefish [66206]	Spe	ecies or species habitat
	•	y occur within area
Dominika mendanya ida ata Barata ana		
Doryrhamphus dactyliophorus Bandad Dinefiah Dinada Dinefiah (66240)	•	oloo or operios lestites
Banded Pipefish, Ringed Pipefish [66210]	•	ecies or species habitat
	may	y occur within area
Doryrhamphus excisus		
Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific	Spe	ecies or species habitat
Blue-stripe Pipefish [66211]	•	y occur within area
Demontrary to a few of		
Doryrhamphus janssi	•	
LIBOROR COMPANIES COMPANIES COMPANIES COMPANIES	• •	
Cleaner Pipefish, Janss' Pipefish [66212]	Spe	ecies or species

habitat may occur within area area area area area area area are	Name	Threatened	Type of Presence
Doryshamphus multianulatus Many-banded Pipefish [66717] Species or species habitat may occur within area Doryshamphus negrosensis Flagial Pipefish, Masthead Island Pipefish [66213] Species or species habitat may occur within area Festucalox scalaris Lacder Pipefish [66216] Species or species habitat may occur within area Filtrampus tigus Tigar Pipefish [66217] Species or species habitat may occur within area Halicampus brocki Brock's Pipefish [66219] Species or species habitat may occur within area Halicampus gravi Mud Pipefish. Gray's Pipefish [66221] Species or species habitat may occur within area Halicampus pravi Mud Pipefish. Gray's Pipefish [66221] Species or species habitat may occur within area Halicampus spinioratris Spiny-snout Pipefish [66225] Species or species habitat may occur within area Halicampus spinioratris Spiny-snout Pipefish [66225] Species or species habitat may occur within area Halicampus spinioratris Spiny-snout Pipefish [66225] Species or species habitat may occur within area Halicampus spinioratris Spiny-snout Pipefish [66231] Species or species habitat may occur within area Halicampus spinioratris Spiny-snout Pipefish [66231] Species or species habitat may occur within area Hippocampus angustus Western Spiny Scahorse, Narrow-bellied Seahorse [66236] Species or species habitat may occur within area Hippocampus shistrix Spiny Saahorse, Thorny Seahorse [66237] Species or species habitat may occur within area Hippocampus planifrons Flat-face Seahorse [66238] Species or species habitat may occur within area Hippocampus planifrons Flat-face Seahorse [66238] Species or species habitat may occur within area Hippocampus planifrons Flat-face Seahorse [66238] Species or species habitat may occur within area Hippocampus spinosissimus Hedgehog Seahorse (66238) Species or species habitat may occur within area Hippocampus spinosissimus Hedgehog Seahorse (66238) Species or species habitat may occur within area Hippocampus timaculatus Three-spot Seahorse (66238) Species or spec			•
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	•		Species or species habitat
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Name	Threatened	Type of Presence
		area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Reptiles		
Acalyptophis peronii		
Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii		
Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Aipysurus tenuis Brown-lined Seasnake [1121]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area
<u>Chelonia mydas</u> Green Turtle [1765]	Vulnerable	Breeding known to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrelaps darwiniensis Black-ringed Seasnake [1100]		Species or species habitat may occur within area
Hydrophis czeblukovi Fine-spined Seasnake [59233]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis mcdowelli null [25926]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat may occur within area
Delphinus delphis Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within

Name Status Type of Presence area Grampus griseus Risso's Dolphin, Grampus [64] Species or species habitat may occur within area Megaptera novaeangliae Humpback Whale [38] Vulnerable Species or species habitat known to occur within area Orcinus orca Killer Whale, Orca [46] Species or species habitat may occur within area Pseudorca crassidens False Killer Whale [48] Species or species habitat likely to occur within area Sousa chinensis Indo-Pacific Humpback Dolphin [50] Species or species habitat known to occur within area Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51] Species or species habitat may occur within area
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Spotted Dolphin, Pantropical Spotted Dolphin [51] Species or species habitat
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Turciono adunque
<u>Tursiops aduncus</u>
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Species or species habitat
Dolphin [68418] likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations)
Spotted Bottlenose Dolphin (Arafura/Timor Sea Species or species habitat
populations) [78900] known to occur within area
populations, [1 0000]
Tursiops truncatus s. str.
Bottlenose Dolphin [68417] Species or species habitat
may occur within area

Australian Marine Parks	[Resource Information]
Name	Label
Dampier	Habitat Protection Zone (IUCN IV)
Dampier	Multiple Use Zone (IUCN VI)
Dampier	National Park Zone (IUCN II)
Montebello	Multiple Use Zone (IUCN VI)

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Millstream Chichester	WA
Murujuga	WA
Unnamed WA36907	WA
Unnamed WA36909	WA
Unnamed WA36910	WA
Unnamed WA36913	WA
Unnamed WA36915	WA
Unnamed WA38287	WA
Unnamed WA40877	WA

Invasive Species		[Resource Information]
Weeds reported here are the 20 species of nation that are considered by the States and Territories to following feral animals are reported: Goat, Red Following Health Project, National Land and Ward Control of the Co	to pose a particularly si ox, Cat, Rabbit, Pig, Wa	ignificant threat to biodiversity. The ater Buffalo and Cane Toad. Maps from
Name	Status	Type of Presence
Birds		
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area

Birds	
Columba livia	
Rock Pigeon, Rock Dove, Domestic Pigeon [803]	Species or species habitat likely to occur within area
	•
Passer domesticus	
House Sparrow [405]	Species or species habitat likely to occur within area
Passer montanus	
Eurasian Tree Sparrow [406]	Species or species habitat likely to occur within area
Mammals	
Camelus dromedarius	
	Consider on an arian habitat
Dromedary, Camel [7]	Species or species habitat likely to occur within area
Canis lupus familiaris	
Domestic Dog [82654]	Species or species habitat
	likely to occur within area
Equus asinus	
Donkey, Ass [4]	Species or species habitat
Domey, Add [1]	likely to occur within area
Equus caballus	
Horse [5]	Species or species habitat
	likely to occur within area
Felis catus	
Cat, House Cat, Domestic Cat [19]	Species or species habitat
	likely to occur within area
Mus musculus	
House Mouse [120]	Species or species habitat
	likely to occur within area
Oryctolagus cuniculus	
Rabbit, European Rabbit [128]	Species or species habitat
	likely to occur within area
Rattus rattus	
Black Rat, Ship Rat [84]	Species or species habitat
	likely to occur within area
Vulpes vulpes	

Cat, House Cat, Domestic Cat [19]	Species or species habitat likely to occur within area
Mus musculus	
House Mouse [120]	Species or species habitat likely to occur within area
Oryctolagus cuniculus	
Rabbit, European Rabbit [128]	Species or species habitat likely to occur within area
Rattus rattus	
Black Rat, Ship Rat [84]	Species or species habitat likely to occur within area
Vulpes vulpes	
Red Fox, Fox [18]	Species or species habitat likely to occur within area
Plants	
Cenchrus ciliaris	
Buffel-grass, Black Buffel-grass [20213]	Species or species habitat likely to occur within area
Jatropha gossypifolia	
Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] Opuntia spp.	Species or species habitat likely to occur within area
Prickly Pears [82753]	Species or species habitat likely to occur within area
Parkinsonia aculeata	

Species or species habitat likely to occur

Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]

	within area
Prosopis spp.	
Mesquite, Algaroba [68407]	Species or species habitat likely to occur within area
Reptiles	
Hemidactylus frenatus	
Asian House Gecko [1708]	Species or species habitat likely to occur within area
Ramphotyphlops braminus	
Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]	Species or species habitat known to occur within area

Status

Key Ecological Features (Marine)

Name

[Resource Information]

Type of Presence

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name	Region
Glomar Shoals	North-west

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the gualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-20.62919 116.77412

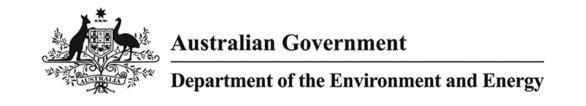
Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Office of Environment and Heritage, New South Wales
- -Department of Environment and Primary Industries, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment, Water and Natural Resources, South Australia
- -Department of Land and Resource Management, Northern Territory
- -Department of Environmental and Heritage Protection, Queensland
- -Department of Parks and Wildlife, Western Australia
- -Environment and Planning Directorate, ACT
- -Birdlife Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -South Australian Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- Forestry Corporation, NSW
- -Geoscience Australia
- -CSIRO
- -Australian Tropical Herbarium, Cairns
- -eBird Australia
- -Australian Government Australian Antarctic Data Centre
- -Museum and Art Gallery of the Northern Territory
- -Australian Government National Environmental Science Program
- -Australian Institute of Marine Science
- -Reef Life Survey Australia
- -American Museum of Natural History
- -Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
- -Tasmanian Museum and Art Gallery, Hobart, Tasmania
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

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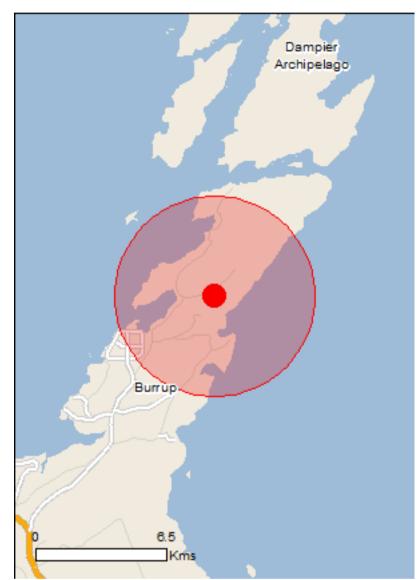
<u>Summary</u>

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 5.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	28
Listed Migratory Species:	39

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	75
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	1
Regional Forest Agreements:	None
Invasive Species:	16
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Indigenous		
Dampier Archipelago (including Burrup Peninsula)	WA	Listed place

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Limosa lapponica baueri Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding known to occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur

Name	Status	Type of Presence
		within area
Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Rhinonicteris aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat may occur within area
Reptiles		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Ctenotus angusticeps Northwestern Coastal Ctenotus, Airlie Island Ctenotus [25937]	Vulnerable	Species or species habitat may occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
<u>Liasis olivaceus barroni</u> Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442] Rhincodon typus	Vulnerable	Breeding likely to occur within area
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species * Species is listed under a different scientific name on t	the EDBC Act. Throateness	[Resource Information]
 * Species is listed under a different scientific name on t Name 	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas		
Streaked Shearwater [1077]		Species or species habitat may occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Macronectes giganteus		
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		within area
Anoxypristis cuspidata		
Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
		,
Carcharodon carcharias	Mada analala	O
White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
		.,
Caretta caretta	Endangered	Forgains fooding or related
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas	V / v la a va la la	Dura dia a lua avea ta a a avea
Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea		Within aroa
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<u>Dugong dugon</u>		William Grou
Dugong [28]		Species or species habitat
		known to occur within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur
Manta alfredi		within area
Reef Manta Ray, Coastal Manta Ray, Inshore Manta		Species or species habitat
Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		known to occur within area
Manta birostris		
Giant Manta Ray, Chevron Manta Ray, Pacific Manta		Species or species habitat
Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		likely to occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat
		known to occur within area
Natator depressus		
Flatback Turtle [59257]	Vulnerable	Breeding known to occur
Orcinus orce		within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat
· - / · L ·]		may occur within area

Name	Threatened	Type of Presence
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442] Rhincodon typus	Vulnerable	Breeding likely to occur within area
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
<u>Charadrius veredus</u> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
<u>Limosa Iapponica</u> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on t	he EPBC Act - Threatened	Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus		
Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba		
Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis		
Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Calonectris leucomelas		
Streaked Shearwater [1077]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Charadrius veredus		71
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Chrysococcyx osculans		
Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
Fregata ariel		
Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Glareola maldivarum		
Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster		
White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundo rustica		
Barn Swallow [662]		Species or species habitat may occur within area
Limosa lapponica		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus		
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus		
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna dougallii		
Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
Fish		
Bulbonaricus brauni Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
Campichthys tricarinatus Three-keel Pipefish [66192]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<u>Choeroichthys brachysoma</u>		
Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys suillus		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Doryrhamphus janssi		
Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Doryrhamphus negrosensis		
Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area
Festucalex scalaris		
Ladder Pipefish [66216]		Species or species habitat may occur within area
Filicampus tigris		
Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi		
Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus		
Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris		
Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus		
Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus		
Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus angustus		
Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus histrix		
Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda		
Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons		
Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus trimaculatus		
Three-spot Seahorse, Low-crowned Seahorse, Flat- faced Seahorse [66720]		Species or species habitat may occur within area
Micrognathus micronotopterus		
Tidepool Pipefish [66255]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Solegnathus hardwickii		
Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
<u>Trachyrhamphus longirostris</u> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Aipysurus tenuis Brown-lined Seasnake [1121]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrelaps darwiniensis Black-ringed Seasnake [1100]		Species or species habitat may occur within area
Hydrophis czeblukovi Fine-spined Seasnake [59233]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis mcdowelli null [25926]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<u>Delphinus delphis</u> Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within

Name	Status	Type of Presence
		area
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations)		
Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat likely to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Murujuga	WA

Invasive Species [Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus		
Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Mammals		
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus caballus		
Horse [5]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species

Name	Status	Type of Presence
	Otatao	habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus		
Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Vulpes vulpes		
Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Cenchrus ciliaris		
Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Jatropha gossypifolia		
Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Parkinsonia aculeata		On a sing on an acing habitat
Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Prosopis spp.		
Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus		
Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus		
Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the gualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-20.57361 116.815

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Office of Environment and Heritage, New South Wales
- -Department of Environment and Primary Industries, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment, Water and Natural Resources, South Australia
- -Department of Land and Resource Management, Northern Territory
- -Department of Environmental and Heritage Protection, Queensland
- -Department of Parks and Wildlife, Western Australia
- -Environment and Planning Directorate, ACT
- -Birdlife Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -South Australian Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- Forestry Corporation, NSW
- -Geoscience Australia
- -CSIRO
- -Australian Tropical Herbarium, Cairns
- -eBird Australia
- -Australian Government Australian Antarctic Data Centre
- -Museum and Art Gallery of the Northern Territory
- -Australian Government National Environmental Science Program
- -Australian Institute of Marine Science
- -Reef Life Survey Australia
- -American Museum of Natural History
- -Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
- -Tasmanian Museum and Art Gallery, Hobart, Tasmania
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

APPENDIX D: DEPARTMENT OF BIODIVERSITY CONSERVATION AND ATTRACTIONS DATABASE SEARCH RESULTS FOR THREATENED AND PRIORITY FLORA, ECOLOGICAL COMMUNITIES AND FAUNA

Taxon	Cons_Code Locality	Latitude	Longitude Date
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	1 1 km S of Onslow	-21.68333333	115.1333333 3/08/1963
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	1 Rear Roebourne Oval	-20.66666667	117.15 /08/1982
Atriplex lindleyi subsp. conduplicata Carpobrotus sp. Thevenard Island (M. White 050)	3 Ca 10 km WNW from Karratha Homestead, on main road reserve of Coastal Highway adjacent to circular regeneration pond Karratha Station 3 Thevenard Island between Saladin 4 and jetty area	-20.85055556 -21.46319444	116.5519444 7/11/1996 115.0196 24/08/1990
Carpobrotus sp. Thevenard Island (M. White 050)	3 Thevenard Island: 500 m Jeeween Saladini 4 and Jeruy area 3 Thevenard Island: 500 m from south beach Z50 m SW windsock	-21.46666667	115.0166667 23/06/1988
Corchorus congener	3 Barrow Island	-20.88305556	115.3266667 21/11/1965
Corchorus congener	3 Barrow Island	-20.76666667	115.4 /10/1980
Corchorus congener	3 Barrow Island	-20.76666667	115.4 /10/1980
Corchorus congener	3 Barrow Island	-20.88305556	115.3266667 29/04/1964
Corchorus congener	3 Between road and S84 cave on Barrow Island,	-20.76666667	115.4 4/06/1991
Cucumis sp. Barrow Island (D.W. Goodall 1264)	2 Barrow Island	-20.80199897	115.449625 1/10/2015
Cucumis sp. Barrow Island (D.W. Goodall 1264)	2 Barrow Island 2 75 m E of turnoff to R33 on S side of road on Barrow Island	-20.76666667 -20.78333333	115.4 /10/1980 115.3333333 5/06/1991
Cucumis sp. Barrow Island (D.W. Goodall 1264) Cucumis sp. Barrow Island (D.W. Goodall 1264)	2 /5 m E of turnoff to K33 on 5 side of road on Barrow Island 2 Barrow Island, off the MV coast	-20.78333333 -20.88305556	115.3333333 5/06/1991 115.3266667 /06/1964
Cucumis sp. Barrow Island (D.W. Goodall 1264)	2 Ballow Island, on the two Cobes 2 8,300 metres W of Campsite, Barrow Island	-20.88305556	115.3266667 26/06/1964
Eleocharis papillosa	3 Site: 567 BES622, 17.6 SSE of Onslow, 102 km W of Nanutarra Roadhouse and 124 km NW of Barradale Roadhouse	-21.738935	114.979944 14/03/2011
Eragrostis lanicaulis	3 Near Point Sampson [Samson]	-20.62972222	117.1897222 /03/1921
Eragrostis Ianicaulis	3 Near Point Sampson [Samson]	-20.62972222	117.1897222 /03/1921
Eragrostis surreyana	3 Site B233, Burrup Peninsula 5 km NE of North West Shelf Gasworks, Pilbara Bioregion	-20.566933	116.823335 27/06/2000
Eragrostis surreyana	3 Wetland above waterfall, Burrup Peninsula. (Trudgen & Associates Burrup Vegetation Survey Site B233)	-20.56538889	116.8237778 27/05/2009
Eragrostis surreyana	3 Waterhole above waterfall: Burrup Peninsula	-20.56552778	116.824 27/05/2009
Eremophila forrestii subsp. viridis	3 Ca 30 km SW of Onslow, Pilbara	-21.77557918	115.0539952 19/08/2009
Eremophila forrestii subsp. viridis	3 10 miles S of Onslow	-21.78277778	115.1116667 28/08/1960
Gomphrena cucullata	3 North West Coastal Highway, 35 km S of Karratha	-20.8619	116.58295 11/07/2004
Gomphrena leptophylla Goodenia nuda	3 North West Coastal Highway, 35 km S of Karratha 4 By side of management track on Mardie Station	-20.8619 -21.10981887	116.58295 11/07/2004 115.9935363 31/07/2002
Goodenia nuda Goodenia pallida	4 by size of management rack on martie station 1 127 miles from Onslow on Reebourne road.	-21.1098188/ -20.83333333	116.5 11/08/1970
Gymnanthera cunninghamii	3 West Lewis Island, Dampier Archicelago	-20.5333333	116.6113889 13/06/1962
Gymnanthera cunninghamii	3 Enderby's Island, Dampier Archipelago	-20.605	116.4833333 /02/1818
Gymnanthera cunninghamii	3 Enderby's Island, Dampier Archipelago	-20.605	116.4833333 /02/1818
Gymnanthera cunninghamii	3 Enderby Island, W end, near Rocky Headland	-20.605	116.4833333 13/05/1982
Gymnanthera cunninghamii	3 Enderby Island, S side, Fortescue Botanical District	-20.6	116.4833333 2/09/1987
Helichrysum oligochaetum	1 Port Walcott	-20.66	117.18 //
Helichrysum oligochaetum	1 Port Walcott, ca 10 km N of Roebourne	-20.65	117.1833333 //
Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479)	3 Site: DRW14, 6.4 km S of White Peak, 8.2 km N of Mt Regal, 8.7 km SSE of Dampier, Karratha Station, Pilbara IBRA	-20.74444	116.74772 21/08/2005
Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479)	3 Site: DRW16, 17.1 km ENE of Yerwararron Hill, 17.5 km WNW of Mt Regal, 18.8 km SW of Dampier, Karratha Station, Pilbara IBRA	-20.80192	116.58086 21/08/2005
Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479) Owenia acidula	3 Site: DRC13, 5.7 km NE of Mt Regal, 13.4 km SSE of White Peak, 8.1 km SW of Karratha, Pilbara IBRA 3 Mardi Station	-20.79114	116.79464 11/09/2004 115.9833333 //
Owenia acidula	3 Martie Station	-21.18333333 -21.18333333	115.9833333 //
Owenia acidula	3 Mardie Station	-21.18333333	115.9833333 10/12/1949
Owenia acidula	3 Mardie Station	-21.18333333	115.9833333 10/12/1949
Owenia acidula	3 Mardie Station	-21.18333333	115.9833333 19/08/1966
Owenia acidula	3 Mardie	-21.18666667	115.9816667 5/03/1953
Pentalepis trichodesmoides subsp. hispida	2 45 km peg, NW Gas Pipeline	-20.63333333	117.2 8/10/1992
Rhynchosia bungarensis	4 900 m SSW of the point near the centre of the NW of the Burrup Peninsula, Pilbara Bioregion, Site B082	-20.530114	116.835262 27/06/2000
Rhynchosia bungarensis	4 0.77 km WSW from the intersection of Cinders Road and Dampier Road, 3.54 km SSE of Dampier and 13.41 km NW of Karratha	-20.69025	116.727778 30/11/2010
Rhynchosia bungarensis	4 Waterhole above waterfall, Burrup Peninsula	-20.56552778	116.824 27/05/2009
Rhynchosia bungarensis	4 Deep Gorge, Burrup Peninsula, N of Karratha 4 Burrup Peninsula, waterhole above waterfall	-20.63722222 -20.56552778	116.788 26/05/2009 116.824 27/05/2009
Rhynchosia bungarensis Rhynchosia bungarensis	4 burrup Peninsula, Waternoie above Wateriali 4 Burrup Peninsula, dry creekbed crossing near waterfall area	-20.50552778 -20.57205556	116.824 27/05/2009
Rhynchosia bungarensis	4 Burlup Perinsala, un Creacouch Cosmignean waterian area 4 3.75 km along Burrup Road from Karratha - Dampier Road; ca 500 m in from road on top of rockpile	-20.57203330	116.7592778 29/05/2009
Rhynchosia bungarensis	4 West Lewis Island, Dampier Archipelago	-20.59472222	116.6113889 14/06/1962
Rhynchosia bungarensis	4 Dolphin Island, Dampier Archipilago	-20.50805556	116.84 5/06/1962
Rhynchosia bungarensis	4 One Shack Bay; East Lewis Island	-20.63333333	116.6333333 9/11/1987
Rhynchosia bungarensis	4 NE end of Enderby Island, Dampier Archipelago	-20.6	116.5166667 19/07/1980
Rhynchosia bungarensis	4 900 m SSW of the point near the centre of the NW of the Burrup Peninsula, Pilbara Bioregion, Site B082	-20.530114	116.835262 27/06/2000
Rhynchosia bungarensis	4 Site D013, 3.65 km NNE along the coast from the southern tip of Dolphin Island, Dampier Archipelago, Pilbara Bioregion	-20.487416	116.832863 29/05/2000
Rhynchosia bungarensis	4 900 m SSW of the point near the centre of the NW of the Burrup Peninsula, Pilbara Bioregion, Site B082	-20.530114	116.835262 27/06/2000
Rhynchosia bungarensis	4 900 m SSW of the point near the centre of the NW of the Burrup Peninsula, Pilbara Bioregion, Site B082	-20.530114	116.835262 27/06/2000
Rhynchosia bungarensis Rhynchosia bungarensis	4 1.9 km ENE of the SW tip of Dolphin Island and 300 m from the west coast, Site D088, Dampier Archipelago, Pilbara Bioregion 4 1.9 km ENE of the SW tip of Dolphin Island and 300 m from the west coast, Site D088, Dampier Archipelago, Pilbara Bioregion	-20.502672 -20.502672	116.826804 29/05/2000 116.826804 29/05/2000
Rhynchosia bungarensis Rhynchosia bungarensis	4 1.9 km ENE of the SW tip of Dolphin Island and 300 m from the west coast, site DUBB, Dampier Archipelago, Pilibara Bioregion 4 Site B235. 600 m E of the inner corner of Withhell Bay, Pilibara Bioregion	-20.5026/2 -20.574043	116.826804 29/05/2000 116.805097 26/06/2000
Rhynchosia bungarensis	4 3.c km Ne of the inner online of writine bay, runna Bioregion 4 2.c km Ne of the inner only of King Bay, Burrup Peninsula, Site B028, Pilbara Bioregion	-20.61269	116.782273 22/05/2000
Rhynchosia bungarensis	4 Site BO76, NW part of the Burrup Peninsula, 600 m NE of the N corner of Conzinc Bay	-20.534969	116.819554 27/05/2000
			,,

Taxon Rhynchosia bungarensis	Cons_Code Locality 4 Site BO64, Burrup Peninsula, Pilbara Bioregion, west coast, adjacent to Holden Beach, between Dampier Port and NW Shelf Gas Works	Latitude -20.606376	Longitude I 116.756965	Date 26/05/2000
Rhynchosia bungarensis Rhynchosia bungarensis	4 Site Boda, Burrup Perinsula, Priodra Bioregion, west coast, adjacent to noicen beach, between parinpier Port and NW Sheri Gas Works 4 Site Boda, No Gonzine Bay and 11.2 km ESG of the NW tip of the Burrup Peninsula, Pilibara Bioregion	-20.533712	116.750905	27/05/2000
Rhynchosia bungarensis	4 Site BBG2, 1.5 km almost due S of Holden Point between Dampier Port and North West Shelf Gas plant (on E side of road), Burrup Peninsula, Pilbara Bioregion	-20.615432	116.758045	26/05/2000
Rhynchosia bungarensis	4 Site B066, 1.2 km S of the point near the centre of the end of the Burrup Peninsula, Pilbara Bioregion	-20.533695	116.838079	27/05/2000
Rhynchosia bungarensis	4 Site B066, 1.2 km S of the point near the centre of the end of the Burrup Peninsula, Pilbara Bioregion	-20.533695	116.838079	27/05/2000
Rhynchosia bungarensis	4 Site B193, 2.5 km ENE of the inner end of Withnell Bay, Burrup Peninsula, Pilbara Bioregion	-20.566045		5/06/2000
Rhynchosia bungarensis Rhynchosia bungarensis	4 Site B052, 1.74 km ENE of Mt Burrup and 160 m from the E coast of the Burrup Peninsula, Pilbara Bioregion	-20.549081 -20.640271	116.844855 116.777358	25/05/2000
Rhynchosia bungarensis Rhynchosia bungarensis	4 Site B003, 1.6 km SW of the inner end of King Bay, Burrup Peninsula, Pilbara Bioregion 4 Site B040, 900 m slightly W of N of Mt Burrup, Burrup Peninsula, Pilbara Bioregion	-20.6402/1 -20.546327	116.7/7358	25/05/2000
Rhynchosia bungarensis	4 Site BOOT, 1.34 km WSW of the southern corner of Hearson Cove, Burrup Peninsula, Pilbara Bioregion	-20.638945	116.786661	20/05/2000
Rhynchosia bungarensis	4 Pistol Range ENE Of Telstra tower, Burrup Peninsula, Site B183, Pilbara Bioregion	-20.665256		3/06/2000
Rhynchosia bungarensis	4 Site BO20. 1.7 km SSE of inner end of King Bay, Burrup Peninsula, Pilbara Bioregion	-20.645762		21/05/2000
Rhynchosia bungarensis	4 Site B091, White Hill, Pilbara Bioregion S of Dampier Road, NW corner of Dampier Salt lease on W facing exposed slope	-20.69183	116.721464	28/05/2000
Rhynchosia bungarensis	4 1.94 km slightly W of the S of the inner end of King Bay, Site B017, Burrup Peninsula, Pilbara Bioregion	-20.648958	116.759739	21/05/2000
Rhynchosia bungarensis	4 Site B195, 2.25 km ENE of the SE corner of Withnell Bay and 1.5 km inland from the E coast of the Burrup Peninsula, Pilbara Bioregion	-20.566793	116.819181	5/06/2000
Rhynchosia bungarensis Rhynchosia bungarensis	4 Site B031, NE part of Burrup Peninsula, 3.7 km from NE point and 0.6 km from east coast (near Mt Burrup)	-20.548369 -20.78333333	116.837843 116.7666667	25/05/2000 21/09/1983
Rhynchosia bungarensis Rhynchosia bungarensis	Near quadrant on cutting along road to Con. camp; Burrup Peninsula Cape Preston	-20.78333333 -21.04651731	116.7000007	7/06/2017
Schoenus punctatus	3 Burrup Peninsula	-20.56589139		10/07/1999
Stackhousia clementii	3 King Bay - Hearson Cove tidal inlet, Burrup Peninsula	-20.63026737	116.784159	30/04/2002
Stackhousia clementii	3 On 7 Mile Flats, 8.4 km SE of Dampier, 9.4 km W of Karratha	-20.72520548	116.7560462	24/02/2013
Stackhousia clementii	3 5.4 km S of Onslow, 35.4 km NNE of Minderoo Homestead and 79.6 km W of Yarraloola Homestead	-21.68456	115.118028	30/08/2011
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1 32.1 km E-NE of Karratha town site	-20.652806	117.133444	7/10/2007
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1 34.9 km NE of Karratha town site	-20.621222		9/10/2007
Tephrosia rosea var. Port Hedland (A.S. George 1114) Tephrosia rosea var. Port Hedland (A.S. George 1114)	1 34.1 km NE of Karratha town site	-20.624361 -20.616417	117.143611	10/03/2008 5/10/2007
Tephrosia rosea var. Port Hediand (A.S. George 1114) Tephrosia rosea var. Port Hediand (A.S. George 1114)	1 33 km Nt C it karratha town sue 1 W of track to Sams Creek, c. 1.5 km W of Point Samson, c. 5 km NE of Wickham	-20.616417		4/09/2012
Tephrosia rosea var. Port Hediand (A.S. George 1114)	1 C. 2 km S of Anketell Point, c. 5 km NW of Wickham 1 C. 2 km S of Anketell Point, c. 5 km NW of Wickham	-20.64340538		3/09/2012
Tenhrosia rosea var. Port Hediand (A.S. George 1114)	1 C 2 5 km SW of Cane Lambert Port C 6 km N of Wickham	-20 62334288	117 1491159	4/09/2012
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1 C. 2.5 km S of Cape Lambert Port. C. 5.5 km NNE of Wickham	-20.6213672	117.1654401	3/09/2012
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1 Ca 2.5 km SW of Cape Lambert Port, ca 6 km N of Wickham	-20.62334288	117.1491159	4/09/2012
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1 Sams Creek, Point Samson	-20.62972222	117.1897222 /	
Tephrosia rosea var. Port Hedland (A.S. George 1114)	1 Pt Samson	-20.63333333	117.2	8/10/1992
Terminalia supranitifolia	3 Base hills right hand side Dampier Island, near right hand side of Dampier Salt Ltd lease.	-20.66666667		/12/1986
Terminalia supranitifolia Terminalia supranitifolia	Site 1, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road Site 12. Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.67040184 -20.64153748	116.7569983 116.796257	2/11/1998 12/11/1998
Terminalia supranitifolia	3 Site 12, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road 3 Site 13, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.64153748 -20.6359749	116.790257	15/11/1998
Terminalia supranitifolia	3 King Bay - Withnell Bay Road, peninsula between Dampier and Dolphin Island.	-20.63333333	116.75	6/12/1978
Terminalia supranitifolia	3 Burrup Peninsula, Pistol Ranges, S of Hearson Cove Road	-20.63597546	116.7916969	15/11/1998
Terminalia supranitifolia	3 Burrup Peninsula, Pistol Ranges, 5 of Hearson Cove Road	-20.64153102	116.7962525	12/11/1998
Terminalia supranitifolia	3 Burrup Peninsula, Pistol Ranges, S of Hearson Cove Road	-20.67039265	116.7570029	2/11/1998
Terminalia supranitifolia	3 Site 11, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.63861588	116.7937555	10/11/1998
Terminalia supranitifolia	3 Site 20, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.64257507	116.7732557	26/11/1998
Terminalia supranitifolia	3 Site 21, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.65113121	116.7725423	26/11/1998
Terminalia supranitifolia Terminalia supranitifolia	3 Hearson's cove beach	-20.63333333 -20.63333333	116.8	11/03/1983 11/03/1983
Terminalia supranitifolia Terminalia supranitifolia	3 Hearson's cove beach 3 Hearson's cove beach	-20.63333333 -20.63333333	116.8 116.8	11/03/1983
Terminalia supranitifolia	3 Brrup Penisula 3 Brrup Penisula	-20.03333333	116.7666667	10/02/1982
Terminalia supranitifolia	3 Near Dampier	-20.66666667	116.75	21/07/2004
Terminalia supranitifolia	3 1.8 miles from Dampier on road to Hearson Cove, Nickol Bay	-20.66666667		/12/1971
Terminalia supranitifolia	3 Site 18, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.65430143	116.7784031	24/11/1998
Terminalia supranitifolia	3 Site 6, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.65839632	116.7796453	5/11/1998
Terminalia supranitifolia	3 Site 19, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.65611998		24/11/1998
Terminalia supranitifolia Terminalia supranitifolia	3 Site 17, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road 3 Site 16. Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.64520398 -20.64068437	116.7798082	22/11/1998
Terminalia supranitifolia	3 Site 16. Burrup Peninsula, Pistol Ranges, South of Hearson's Cove Road 3 Site 5. Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.6408437 -20.66687903	116.7763477	28/11/1998
Terminalia supranitifolia	3 Site 2. Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.66859454	116.7634242	2/11/1998
Terminalia supranitifolia	3 Site 3, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.66073537	116.7717119	3/11/1998
Terminalia supranitifolia	3 Site 22, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.64303766	116.7677738	28/11/1998
Terminalia supranitifolia	3 Site 4, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.65870665	116.7750463	3/11/1998
Terminalia supranitifolia	3 Site 10, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.63536052	116.7993944	10/11/1998
Terminalia supranitifolia	3 Rear of beach, Hearson Cove	-20.63333333		/05/1983
Terminalia supranitifolia Terminalia supranitifolia	3 Site 7, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.65249621 -20.65143609	116.7871513 116.7921831	8/11/1998 8/11/1998
Terminalia supranitifolia	3 Site 9, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road 3 Site 15, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.63373596	116.7921831	20/11/1998
Terminalia supranitifolia	3 Site 14, Burrup Peninsula, Pisto Ranges, south of Hearism's Cove Road	-20.64244207	116.78226	20/11/1998
Terminalia supranitifolia	3 Site 8, Burrup Peninsula, Pistol Ranges, south of Hearson's Cove Road	-20.64676249	116.7832234	18/11/1998
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	3 10km W of Karratha on road to Dampier opp & Mile Railway sheds on E side of road	-20.72916667	116.7622222	20/08/1992
Triumfetta echinata	3 Ca 16 km S-SW of Onslow	-21.77707459	115.0853797	1/11/2009
Triumfetta echinata	3 20 km E of Onslow	-21.63805556	115.3438889	25/10/1980
Triumfetta echinata	3 Ca 35 km NW from Peedamulla Homestead and 0.5 km back from sea, Peedamulla Station	-21.59972222		5/11/1996
Vigna triodiophila	3 Burrup Road between MOF Road and NorthWest Shelf, opposite Pluto Site ca 500 m from Withnell Bay Road, E side Burrup - Burrup Peninsula 3 Site 8024 F of Burrup road at bend before North West Shelf as plant	-20.61416667 -20.609139	116.7752778	9/06/2011
Vigna triodiophila Vigna triodiophila	3 Site BOZ4, E of Burrup road at bend before North West Shelf gas plant 3 1.7 km SE of the centre of King Bay, Burrup Peninsula, Pilbara Bioregion, Site B016	-20.609139 -20.648704		21/05/2000
Vigna triodiophila	3 1.7 km Sc of the centre of king bay, burrup Peninsula, Pripara bioregion, sine 90.16 3 Site B025, Burrup Peninsula, ca 250 m indiand from the East coast of Withhell Bay	-20.58063	116.759173	22/05/2000
Vigna triodiophila Vigna triodiophila	3 3.75 km along Burrup Read from Karratha - Dampier Road; towards to go for ckpile ca 500 m in from road	-20.58063	116.7606137	29/05/2009
Vigna triodiophila	3 8.2 km along Cleaverville track from North West Coastal Highway, N of Karratha; Pilibara Biological Survey site BRC 11	-20.68711287	117.0081136	26/05/2009
Vigna triodiophila	3 Site B018. Burrup Peninsula, Pilbara Bioregion, 400 m SE of Burrup	-20.649002	116.75947	21/05/2000
Vigna triodiophila	3 On Pluto Lease, adjacent to and W side of Haul Road - Pluto (Burrup Industrial Area) Burrup Peninsula	-20.61074796	116.7630429	31/03/2011

COM_NAME	STATE_CATG COMM_CATG	S ID COUI FIRST S ID LAST	T_S_ID BUFFER B	DY_ID
Burrup Peninsula rock pile communities	Priority 1	1 P9	200	14928
Burrup Peninsula rock pile communities	Priority 1	1 P4	200	14923
Burrup Peninsula rock pile communities	Priority 1	1 P8	200	14927
Burrup Peninsula rock pile communities	Priority 1	1 P5	200	14924
Burrup Peninsula rock pile communities	Priority 1	1 P7	200	14926
Burrup Peninsula rock pile communities	Priority 1	1 P6	200	14925
Burrup Peninsula rock pile communities	Priority 1	1 P12	200	14930
Burrup Peninsula rock pile communities	Priority 1	1 P2	200	14921
Burrup Peninsula rock pile communities	Priority 1	1 P1	200	14920
Burrup Peninsula rock pile communities Burrup Peninsula rock pile communities	Priority 1 Priority 1	1 P38 1 P37(first)	200 200	14955 14953
Burrup Peninsula rock pile communities	Priority 1	1 P30	200	14933
Burrup Peninsula rock pile communities	Priority 1	1 P31	200	14947
Burrup Peninsula rock pile communities	Priority 1	1 P25	200	14941
Burrup Peninsula rock pile communities	Priority 1	1 P35	200	14951
Burrup Peninsula rock pile communities	Priority 1	1 P22	200	102670
Burrup Peninsula rock pile communities	Priority 1	1 P23	200	14939
Burrup Peninsula rock pile communities	Priority 1	1 P24	200	14940
Burrup Peninsula rock pile communities	Priority 1	1 P16	200	14934
Burrup Peninsula rock pile communities	Priority 1	1 P15	200	14933
Burrup Peninsula rock pile communities	Priority 1	1 P18	200	14936
Burrup Peninsula rock pile communities	Priority 1	1 P44	200	14961
Burrup Peninsula rock pile communities	Priority 1	1 P63	200	14981
Burrup Peninsula rock pile communities Burrup Peninsula rock pile communities	Priority 1 Priority 1	1 P59 1 P49	200 200	14977 14966
Burrup Peninsula rock pile communities	Priority 1	1 P50	200	14967
Burrup Peninsula rock pile communities	Priority 1	1 P58	200	14976
Burrup Peninsula rock pile communities	Priority 1	1 P60	200	14978
Burrup Peninsula rock pile communities	Priority 1	1 P61	200	14979
Burrup Peninsula rock pile communities	Priority 1	1 P51	200	14968
Burrup Peninsula rock pile communities	Priority 1	1 P56	200	14973
Burrup Peninsula rock pile communities	Priority 1	1 P52	200	14969
Burrup Peninsula rock pile communities	Priority 1	1 P53	200	14970
Burrup Peninsula rock pile communities	Priority 1	1 P54	200	14971
Burrup Peninsula rock pile communities	Priority 1	1 P41	200	14958
Burrup Peninsula rock pile communities	Priority 1	1 P10 1 P13	200 200	14929 14931
Burrup Peninsula rock pile communities Burrup Peninsula rock pile communities	Priority 1 Priority 1	1 P3	200	14931
Burrup Peninsula rock pile communities	Priority 1	1 P39	200	14956
Burrup Peninsula rock pile communities	Priority 1	1 P47	200	14964
Burrup Peninsula rock pile communities	Priority 1	1 P46	200	14963
Burrup Peninsula rock pile communities	Priority 1	1 P48	200	14965
Burrup Peninsula rock pile communities	Priority 1	1 P43	200	14960
Burrup Peninsula rock pile communities	Priority 1	1 P34	200	14950
Burrup Peninsula rock pile communities	Priority 1	1 P26	200	14942
Burrup Peninsula rock pile communities	Priority 1	1 P27	200	14943
Burrup Peninsula rock pile communities	Priority 1	1 P28	200	14944
Burrup Peninsula rock pile communities Burrup Peninsula rock pile communities	Priority 1	1 P36	200	14952
Burrup Peninsula rock pile communities	Priority 1 Priority 1	1 P37(second) 1 P32	200 200	14954 14948
Burrup Peninsula rock pile communities	Priority 1	1 P33	200	14949
Burrup Peninsula rock pile communities	Priority 1	1 P29	200	14945
Burrup Peninsula rock pile communities	Priority 1	1 P21	200	14938
Burrup Peninsula rock pile communities	Priority 1	1 P20	200	14937
Burrup Peninsula rock pile communities	Priority 1	1 P14	200	14932
Burrup Peninsula rock pile communities	Priority 1	1 P17	200	14935
Burrup Peninsula rock pile communities	Priority 1	1 P62	200	14980
Burrup Peninsula rock pile communities	Priority 1	1 P42	200	14959
Burrup Peninsula rock pile communities	Priority 1	1 P45	200	14962
Burrup Peninsula rock pile communities	Priority 1	1 P40	200	14957
Burrup Peninsula rock pile communities	Priority 1	1 BRPile2	500	0
Burrup Peninsula rock pile communities Burrup Peninsula rock pool communities	Priority 1 Priority 1	1 BRPile3 1 BRPool1	500 500	0 0
Burrup Peninsula rock pool communities Burrup Peninsula rock pool communities	Priority 1	1 BRPool2	500	0
Burrup Peninsula rock pool communities	Priority 1	1 BRPool3	500	0
	, -	55.5	230	J

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS_C	GDA_LONG	GDA_LAT	YEAR
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5	-20.5	1980
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5	-20.5	1983
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5	-20.5	1977
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5	-20.5	1981
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5872	-20.4689	1998
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.85	-20.45	2005
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.91	-20.41	0
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.8494	-20.4843	0
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.6283	-20.4564	
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.6343	-20.5843	0
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5194	-20.6069	1983
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5194	-20.6069	1983
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5194	-20.6069	1984
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.6343	-20.5843	1984
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.8494	-20.4843	1990
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5194	-20.6069	1990
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.6343	-20.5843	1990
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.5872	-20.4689	1998
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.85	-20.45	2005
Actitis hypoleucos	Scolopacidae	Actitis	hypoleucos	common sandpiper	BIRD	IA	116.7833	-20.4564	0
Anous stolidus	Laridae	Anous	stolidus	common noddy	BIRD	IA		-20.5833	1988
Anous stolidus	Laridae	Anous	stolidus	common noddy	BIRD	IA	116.6283	-20.4564	0
Anous stolidus	Laridae	Anous	stolidus	common noddy	BIRD	IA	116.5381	-20.4778	1983
Anous stolidus	Laridae	Anous	stolidus	common noddy	BIRD	IA	116.6254	-20.4528	1983
Anous stolidus	Laridae	Anous	stolidus	common noddy	BIRD	IA	116.6283	-20.4564	0
Apus pacificus	Apodidae	Apus	pacificus	fork-tailed swift	BIRD	IA	116.5194	-20.6069	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5	-20.5	1981
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5	-20.5	1977
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5	-20.5	1974
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5	-20.5	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5	-20.5	1966
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.58	-20.58	1979
Arenaria interpres Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone ruddy turnstone	BIRD BIRD	IA	116.58 116.5808	-20.58 -20.4758	0
Arenaria interpres	Scolopacidae Scolopacidae	Arenaria Arenaria	interpres interpres	ruddy turnstone	BIRD	IA IA	116.5872	-20.4689	1999 1998
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6583	-20.525	1999
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.91	-20.41	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7768	-20.5405	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8494	-20.4843	
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6592	-20.6094	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6225	-20.4697	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5381	-20.4778	
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6283	-20.4564	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6396	-20.4392	
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5936	-20.4817	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6343	-20.5843	
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8064	-20.4931	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8056	-20.3858	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7768	-20.5405	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8494	-20.4843	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.4444	-20.6572	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6831	-20.6547	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6225	-20.4697	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5194	-20.6069	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8317	-20.3889	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5381	-20.4778	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8494	-20.4843	1982
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6283	-20.4564	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6283	-20.4564	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6283	-20.4564	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8494	-20.4843	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8494	-20.4843	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7768	-20.5405	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5194	-20.6069	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7768	-20.5405	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8317	-20.3889	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.4444	-20.6572	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6393	-20.4388	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5381	-20.4778	1983
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5194	-20.6069	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8056	-20.3858	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8064	-20.4931	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5936	-20.4817	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8317	-20.3889	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6393	-20.4388	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5936	-20.4817	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5381	-20.4778	1984
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5936	-20.4817	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6343	-20.5843	1990
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6583	-20.525	1999
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5808	-20.4758	1999
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5872	-20.4689 -20.4843	1998
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8494	-20.4697	1978
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6225		1981
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8064	-20.4931	2014
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7768	-20.5405	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.6283	-20.4564	0
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.8317	-20.3889	
Arenaria interpres	Scolopacidae Scolopacidae	Arenaria Arenaria	interpres	ruddy turnstone	BIRD BIRD	IA IA	116.8806 116.8202	-20.3881 -20.5862	1998 1999
Arenaria interpres Arenaria interpres	Scolopacidae	Arenaria	interpres interpres	ruddy turnstone ruddy turnstone	BIRD	IA	116.6583	-20.525	1999
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5822	-20.4745	1999
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5885	-20.4676	1998
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7597	-20.6403	1999
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7047	-20.6662	2010
Arenaria interpres	Scolopacidae	Arenaria Arenaria	interpres	ruddy turnstone	BIRD BIRD	IA IA	116.7972 116.5013	-20.6331	1999
Arenaria interpres Arenaria interpres	Scolopacidae Scolopacidae	Arenaria	interpres interpres	ruddy turnstone ruddy turnstone	BIRD	IA IA	116.918	-20.4987 -20.4153 -20.582	1981 1980
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5847	-20.4153	1980
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5847		1980
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5847	-20.4153	1981
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7513	-20.582	1981
Arenaria interpres	Scolopacidae Scolopacidae	Arenaria Arenaria	interpres	ruddy turnstone	BIRD BIRD	IA IA	116.7513 116.5847	-20.582 -20.582	1981 1981
Arenaria interpres Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone ruddy turnstone	BIRD	IA	116.5847	-20.4153	1978
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5013	-20.4987	1977
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5847	-20.582	1979
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5847	-20.4153	1979
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.7513	-20.582	1979
Arenaria interpres	Scolopacidae	Arenaria	interpres	ruddy turnstone	BIRD	IA	116.5013	-20.4987	1980
Calidris acuminata	Scolopacidae	Calidris	acuminata	sharp-tailed sandpiper	BIRD	IA	116.5194	-20.6069	1984
Calidris acuminata	Scolopacidae	Calidris	acuminata	sharp-tailed sandpiper	BIRD	IA	116.4444	-20.6572	1990
Calidris acuminata	Scolopacidae	Calidris	acuminata	sharp-tailed sandpiper	BIRD	IA	116.5194	-20.6069	1990
Calidris acuminata	Scolopacidae	Calidris	acuminata	sharp-tailed sandpiper	BIRD	IA	116.7513	-20.582	1981
Calidris alba	Scolopacidae	Calidris	alba	sanderling	BIRD	IA	116.5	-20.5	1983
Calidris alba	Scolopacidae	Calidris	alba	sanderling	BIRD	IA	116.85	-20.45	2005
Calidris alba	Scolopacidae	Calidris	alba	sanderling	BIRD	IA	116.8513	-20.4487	2005
Calidris alba	Scolopacidae	Calidris	alba	sanderling	BIRD	IA	116.8806	-20.3881	1998
Calidris alba	Scolopacidae	Calidris	alba	sanderling	BIRD	IA	116.8513	-20.4487	2005
Calidris alba	Scolopacidae	Calidris	alba	sanderling	BIRD	IA	116.5013	-20.4987	1981
Calidris canutus	Scolopacidae	Calidris	canutus	red knot, knot	BIRD	IA (& VU	116.4444	-20.6572	1990
Calidris canutus	Scolopacidae	Calidris	canutus	red knot, knot	BIRD	IA (& VU	116.5	-20.5	1980
Calidris canutus	Scolopacidae	Calidris	canutus	red knot, knot	BIRD	IA (& VU		-20.4843	1978
Calidris canutus	Scolopacidae	Calidris	canutus	red knot, knot	BIRD	IA (& VU	116.5013	-20.4987	1980
Calidris ferruginea	Scolopacidae	Calidris	ferruginea	curlew sandpiper	BIRD	VU & IA	116.8494	-20.4843	1990
Calidris ferruginea	Scolopacidae	Calidris	ferruginea	curlew sandpiper	BIRD	VU & IA	116.5194	-20.6069	1990
Calidris ferruginea	Scolopacidae	Calidris	ferruginea	curlew sandpiper	BIRD	VU & IA	116.5	-20.5	1977
Calidris ferruginea	Scolopacidae	Calidris	ferruginea	curlew sandpiper	BIRD	VU & IA	116.5	-20.5	1966
Calidris ferruginea	Scolopacidae	Calidris	ferruginea	curlew sandpiper	BIRD	VU & IA	116.5013	-20.4987	1977
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5936	-20.4817	1984
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.8494	-20.4843	1990

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS C(G	DA_LONG	GDA LAT	YEAR
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5936	-20.4817	1990
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5	-20.5	1977
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5	-20.5	1983
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5	-20.5	1980
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD BIRD	IA IA	116.5	-20.5 -20.45	1981 2005
Calidris ruficollis Calidris ruficollis	Scolopacidae Scolopacidae	Calidris Calidris	ruficollis ruficollis	red-necked stint red-necked stint	BIRD	IA	116.85 116.8513	-20.4487	2005
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.8513	-20.4487	2005
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.7988	-20.6323	2010
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.7972	-20.6331	1999
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5013	-20.4987	1981
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5847	-20.4153	1978
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5013	-20.4987	1978
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5013	-20.4987	1977
Calidris ruficollis	Scolopacidae	Calidris	ruficollis	red-necked stint	BIRD	IA	116.5013	-20.4987	1980
Caretta caretta	Cheloniidae	Caretta	caretta	loggerhead turtle	REPTILE	EN	116.917	-20.3999	2008
Caretta caretta	Cheloniidae	Caretta	caretta	loggerhead turtle	REPTILE	FN	116.8317	-20.3889	1984
Caretta caretta Charadrius leschenaultii	Cheloniidae Charadriidae	Caretta Charadrius	caretta leschenaultii	loggerhead turtle greater sand plover, large san	REPTILE	EN IA (& VU	116.917 116.6283	-20.3999 -20.4564	2008
Charadrius leschenaultii Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar greater sand plover, large sar greater sand plover, large sar	BIRD	IA (& VU	116.8494	-20.4843	1990
Charadrius leschenaultii	Charadriidae Charadriidae	Charadrius Charadrius	leschenaultii leschenaultii	greater sand plover, large sar	BIRD	IA (& VU IA (& VU	116.5381 116.675	-20.4778 -20.5178	1990 1990
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar	BIRD	IA (& VU	116.6283	-20.4564	1983
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.675	-20.5178	1983
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.5	-20.5	1983
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.5	-20.5	1966
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.8064	-20.4931	2014
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.6283	-20.4564	0
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.8202	-20.5862	1999
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.8183	-20.5817	1999
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.7597	-20.6403	1999
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.7819	-20.5903	1999
Charadrius leschenaultii Charadrius leschenaultii	Charadriidae Charadriidae	Charadrius Charadrius	leschenaultii leschenaultii	greater sand plover, large sar greater sand plover, large sar greater sand plover, large sar	BIRD	IA (& VU IA (& VU	116.7988 116.7047	-20.6323 -20.6662	2010 2010
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar	BIRD	IA (& VU	116.7972	-20.6331	1999
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar	BIRD	IA (& VU	116.5013	-20.4987	1981
Charadrius leschenaultii	Charadriidae	Charadrius	leschenaultii	greater sand plover, large sar		IA (& VU	116.5847	-20.4153	1981
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.8494	-20.4843	1990
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.5194	-20.6069	1990
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.6283	-20.4564	1990
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.5936	-20.4817	1990
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.5936	-20.4817	1982
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.6283	-20.4564	1983
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.5194	-20.6069	1984
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.85	-20.45	2005
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.85	-20.45	2005
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.8494	-20.4843	1978
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.8806	-20.3881	1998
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.7988	-20.4487	2005
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA		-20.6323	2010
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.7513	-20.582	1977
Charadrius mongolus	Charadriidae	Charadrius	mongolus	lesser sand plover	BIRD	EN & IA	116.5847	-20.4153	1977
Charadrius veredus	Charadriidae	Charadrius	veredus	oriental plover	BIRD	IA	116.5194	-20.6069	1990
Charadrius veredus	Charadriidae	Charadrius	veredus	oriental plover	BIRD	IA	116.6283	-20.4564	1990
Charadrius veredus	Charadriidae	Charadrius	veredus	oriental plover	BIRD	IA	116.5194	-20.6069	1984
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.6623	-20.5327	2015
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5194	-20.6069	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5389	-20.5356	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.675	-20.5178	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5936	-20.4817	
Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.5194 116.5936	-20.6069 -20.4817	0 2012
Chelonia mydas Chelonia mydas	Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.5389	-20.5356	1992
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8064	-20.4931	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8056	-20.3858	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8494	-20.4843	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.4444	-20.6572	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5194	-20.6069	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5389	-20.5356	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8317	-20.3889	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.6283	-20.4564	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8806	-20.3881	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.675	-20.5178	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5936	-20.4817	1990
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.6343	-20.5843	1990
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917	-20.3999 -20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE		116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
	Jimade		.,				_10.31/	20.3333	_000

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NAME_SCI Chelonia mydas	FAMILY Cheloniidae	GENUS Chelonia	SPECIES mydas	NAME_COM green turtle	CLASS REPTILE	CONS_C(G	116.917	-20.3999	YEAR 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas Chelonia mydas	Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917	-20.3999 -20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas		REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE	VU VU	116.917	-20.3999 -20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE		116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917 116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5	-20.6	2010
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.675	-20.5178	1984
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8597	-20.4044	1984
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8317	-20.3889	1984
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5389	-20.5356	1984
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5936	-20.4817	2004
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5936	-20.4817	2004
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8064	-20.4931	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8119	-20.5735	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8494	-20.4843	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.4444	-20.6572	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.6831	-20.6547	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5194	-20.6069	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8211	-20.4486	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8806	-20.3881	
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.5936 116.4444	-20.4817 -20.6572	0
Chelonia mydas	Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.8211	-20.4486	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5194	-20.6069	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8064	-20.4931	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5936	-20.4817	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8806	-20.3881	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8494	-20.4843	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8119	-20.5735	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.6831	-20.6547	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.4444	-20.6572	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8211	-20.4486	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5194	-20.6069	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8064	-20.4931	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.5936	-20.4817	
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.8806	-20.3881	0
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE		116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008

NAME_SCI Chelonia mydas	FAMILY Cheloniidae	GENUS Chelonia	SPECIES mydas	NAME_COM green turtle	CLASS REPTILE	CONS_C(G	DA_LONG 116.917	GDA_LAT -20.3999	YEAR 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917	-20.3999	2008 2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917	-20.3999	2008 2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU VU	116.917 116.917	-20.3999	2008 2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.917	-20.3999 -20.3999	2008
Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas Chelonia mydas	Cheloniidae	Chelonia	mydas mydas	green turtle green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2008
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia Chelonia	mydas	green turtle green turtle	REPTILE	VU VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia	mydas mydas	green turtie green turtie	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE	VU	116.917	-20.3999	2009
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU VU	116.917 116.5074	-20.3999 -20.6218	2009 2013
Chelonia mydas	Cheloniidae	Chelonia	mydas	green turtle	REPTILE REPTILE	VU VU	116.5745	-20.4629 -20.6218	2013
Chelonia mydas Chelonia mydas	Cheloniidae Cheloniidae	Chelonia Chelonia	mydas mydas	green turtle green turtle	REPTILE REPTILE	VU	116.5074 116.5745	-20.6218 -20.4629	2013 2013
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8333 116.8333	-20.4833 -20.4833	1899 1970
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.85	-20.4833	0
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.85 116.8333	-20.4833 -20.4833	0 1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8333 116.8333	-20.4833 -20.4833	1986 1980
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8333 116.8333	-20.4833 -20.4833	1980 1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8333 116.8333	-20.4833 -20.4833	1980 1980
,	,			quon			0.0333	20.4033	1550

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	_C(GDA_LONG	GDA LAT	YEAR
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus		MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.85	-20.4833	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.85	-20.4833	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAI	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus Dasyurus	hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8333 116.8333	-20.4833 -20.4833	1980 1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1900
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1970
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.748	-20.6227	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4842	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5115	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4854	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8332	-20.4876	2013
Dasyurus hallucatus	Dasyuridae	Dasvurus	hallucatus	northern quoll	MAMMAL	EN	116.8344	-20.4842	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8345	-20.4839	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8347	-20.4837	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8332	-20.4876	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8345	-20.4839	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8332	-20.4876	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4833	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAI	EN	116.8351	-20.4831	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8346	-20.4861	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8337	-20.4833	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.4843	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8296	-20.4902	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.834	-20.4865	2014
Dasyurus hallucatus	Dasyuridae Dasvuridae	Dasyurus Dasyurus	hallucatus	northern quoll	MAMMAL MAMMAL	EN EN	116.8343 116.8357	-20.4864 -20.4846	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8358	-20.4844	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8359	-20.4842	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8364	-20.4838	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8365	-20.4836	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8361	-20.484	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8357	-20.4846	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8334	-20.4839	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8361	-20.484	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8329	-20.4867	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8308	-20.4889	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8335	-20.4836	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8807	-20.4282	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8803	-20.4284	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8803	-20.4284	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8812	-20.4275	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8824	-20.4267	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8828	-20.4256	2014
	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8763	-20.4345	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8798	-20.4334	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8827	-20.4264	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8791	-20.4337	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.882	-20.427	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4816	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8337	-20.4833	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.4843	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL MAMMAL	EN EN	116.8329	-20.4867 -20.4836	2014 2014
Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL	EN	116.8365 116.8331	-20.4849	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8824	-20.4267	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8798	-20.4334	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8828	-20.4256	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8763	-20.4345	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus	hallucatus hallucatus	northern quoll	MAMMAL MAMMAL	EN EN	116.8827 116.8769	-20.4264 -20.4343	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.881	-20.4279	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8332	-20.4821	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8296	-20.4902	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8346	-20.4861	2014
	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8359	-20.4842	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.881	-20.4279	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8812	-20.4275	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.882	-20.427	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8786	-20.4337	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8828	-20.426	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.4843	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8302	-20.4896	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8332	-20.4879	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8332	-20.4876	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4874	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8315	-20.4882	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8769	-20.4343	2014
Dasyurus hallucatus	Dasyuridae Dasyuridae Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8775	-20.4339	2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8763 116.8844	-20.4345 -20.4825	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8825	-20.4825	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8775	-20.4339	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8812	-20.4275	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8004	-20.5705	1990
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.7723	-20.6376	1990
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.809	-20.5724	1990
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL		116.7884	-20.638	1990
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8324	-20.4874	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8235	-20.5176	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8235	-20.5176	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8247	-20.5164	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8314	-20.4885	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8328	-20.4852	2015

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	_C(GDA_LONG	GDA LAT	YEAR
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.833	-20.4822	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus		MAMMAL	EN	116.8331	-20.4822	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8335 116.8335	-20.4825 -20.4844	2015 2015 2015
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.4846	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8344	-20.4865	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8347	-20.4846	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.835	-20.4837	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.835	-20.4852	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8353	-20.4833	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8247	-20.5164	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.835	-20.4855	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8295	-20.4903	2015
Dasyurus hallucatus	Dasyuridae	Dasvurus	hallucatus	northern quoll	MAMMAL	EN	116.8299	-20.49	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8307	-20.4891	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus		MAMMAL	EN	116.8329	-20.4883	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8351	-20.4848	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8702	-20.4373	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8726	-20.4366	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8697	-20.4392	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8727	-20.4374	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8702	-20.4373	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus hallucatus	northern quoll	MAMMAL MAMMAL	EN EN	116.8699 116.8726	-20.4383 -20.4366	2015 2015
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus	northern quoll northern quoll	MAMMAL	EN	116.8734	-20.4351	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8295	-20.4903	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4818	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.4843	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.4846	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.835	-20.4837	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus		MAMMAL	EN	116.8351	-20.4848	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8699	-20.4383	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.872	-20.4372	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8734	-20.4351	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8317	-20.4881	2015
Dasyurus hallucatus	Dasyuridae	Dasvurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4818	2015
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.4846	2015
Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8339 116.834	-20.4846 -20.4869	2015 2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8242	-20.5171	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8712	-20.4375	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8702	-20.4373	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8699	-20.4383	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8727	-20.4365	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4816	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8306	-20.4894	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8337	-20.4872	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.835	-20.4856	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.835	-20.4847	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.835	-20.4837	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8359	-20.4822	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8335	-20.484	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8336	-20.486	2015
Dasyurus hallucatus	Dasyuridae	Dasvurus	hallucatus	northern quoll	MAMMAL	EN	116.8337	-20.4872	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8348	-20.484	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8351	-20.4832	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8357	-20.4825	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8329	-20.4884	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8359	-20.4822	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8346	-20.486	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4875	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8302	-20.4896	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8326	-20.487	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoli	MAMMAL	EN	116.8328	-20.4852	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoli	MAMMAL	EN	116.8316	-20.4883	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8329	-20.4884	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8348	-20.484	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8362	-20.4819	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8361	-20.482	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4816	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8354	-20.483	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4816	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.486	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8297	-20.4902	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8328	-20.4886	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8301	-20.4897	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8376	-20.4801	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8304	-20.4895	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8494	-20.4843	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8494	-20.4843	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8	-20.5	
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.9	-20.5	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.85	-20.4833	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.85	-20.4833	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1900
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1970
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8494	-20.5	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1970
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1970
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.85	-20.4833	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.85	-20.4833	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1986
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4833	1980
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8494	-20.4843	1978
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus		MAMMAL	EN	116.8494	-20.4843	1970
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8494	-20.4843	0
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN	116.8494 116.8494	-20.4843 -20.4843	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8494	-20.4843	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5119	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8217	-20.5118	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8522	-20.4495	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoli	MAMMAL	EN	116.8525	-20.4493	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoli	MAMMAL	EN	116.8494	-20.4843	
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoli	MAMMAL	EN	116.8522	-20.4495	2012

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	_C(GDA_LONG	GDA LAT	YEAR
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8525	-20.4493	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8217	-20.5118	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus hallucatus	northern quoll	MAMMAL	EN	116.8212	-20.5119	2012
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8347	-20.4846	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus		northern quoll	MAMMAL	EN	116.835	-20.4855	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8307	-20.4891	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8339	-20.4846	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8333	-20.4818	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8727	-20.4365	2015
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8295 116.8336	-20.4903 -20.4846	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN EN	116.8347	-20.4846	2015 2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8347	-20.4846	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus		MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349 116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL	EN EN	116.8349	-20.4857 -20.4857	2015 2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8349	-20.4857	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8351	-20.4848	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8329	-20.4883	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.833	-20.4822	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8324	-20.4874	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8335	-20.4844	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8328	-20.4852	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8196	-20.5163	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8326	-20.487	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8328	-20.4852	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL		116.8316	-20.4883	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8329	-20.4884	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8316	-20.4883	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8348	-20.484	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8362	-20.4819	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll		EN	116.8361	-20.482	2015
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL MAMMAL	EN EN	116.8421 116.8421	-20.4755 -20.4755	2013
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL	EN	116.8421	-20.4755	2013 2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8207	-20.5126	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAI	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus	hallucatus hallucatus	northern quoll	MAMMAL MAMMAL	EN EN	116.845 116.845	-20.5151 -20.5151	2013 2013
Dasyurus hallucatus	Dasyuridae	Dasyurus Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL MAMMAI	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL	EN EN	116.845 116.845	-20.5151 -20.5151	2013 2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.845	-20.5151	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8421	-20.4755	2013
Dasyurus hallucatus	Dasyuridae	Dasyurus Dasyurus	hallucatus	northern quoll	MAMMAL	EN EN	116.8346	-20.4861	2014 2014
Dasyurus hallucatus Dasyurus hallucatus	Dasyuridae Dasyuridae	Dasyurus	hallucatus hallucatus	northern quoll northern quoll	MAMMAL MAMMAL	EN	116.8361 116.8357	-20.484 -20.4846	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8334	-20.4839	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8361	-20.484	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8329	-20.4867	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus		MAMMAL	EN	116.8308	-20.4889	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8335	-20.4836	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8815	-20.4271	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8807	-20.4282	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8803	-20.4284	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8331	-20.4849	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8359	-20.4842	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8315	-20.4882	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8844	-20.4825	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8825	-20.4825	2014
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8494	-20.4843	2016
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL	EN	116.8503	-20.4987	0
Dasyurus hallucatus	Dasyuridae	Dasyurus	hallucatus	northern quoll	MAMMAL MAMMAL	EN EN	116.7713	-20.6087	0
Dasyurus hallucatus Dugong dugon	Dasyuridae Dugongidae	Dasyurus Dugong	hallucatus dugon	northern quoll dugong	MAMMAL	OS	116.8508 116.8333	-20.4987 -20.3833	0
Dugong dugon	Dugongidae	Dugong	dugon	dugong	MAMMAL	OS	116.7568	-20.6047	2006
Dugong dugon	Dugongidae	Dugong	dugon	dugong	MAMMAL	OS	116.6111	-20.4762	2012
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5194	-20.6069	1978
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5389	-20.5356	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.675	-20.5178	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2012
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5389	-20.5356	1992
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8064	-20.4931	1990

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	_C(GDA_LONG	GDA LAT	YEAR
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8494	-20.4843	1990
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.4444	-20.6572	1990
Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU VU	116.6225 116.5194	-20.4697	1990 1990
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5389	-20.6069 -20.5356	1990
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.675	-20.5178	1990
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	1990
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata		REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae		imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata		REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle		VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle hawksbill turtle	REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	
Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE	VU	116.917 116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle	REPTILE REPTILE	VU	116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU VU	116.917	-20.3999 -20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917 116.917	-20.3999	2009 2009
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	VU	_CC GDA_LONG	GDA_LAT	YEAR
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.9336	-20.4109	2009
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE	VU VU	116.6225 116.675	-20.4697 -20.5178	0 1984
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8317	-20.3889	1984
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5389	-20.5356	1984
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.5936 116.5936	-20.4817 -20.4817	2004 2004
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	2004
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8494	-20.4843	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.4444	-20.6572	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5479	-20.5379	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.6225	-20.4697	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5194	-20.6069	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8211	-20.4486	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5389	-20.5356	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8806	-20.3881	
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.5936 116.5389	-20.4817 -20.5356	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8494	-20.4843	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.4444	-20.6572	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8211	-20.4486	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8806	-20.3881	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5194	-20.6069	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5936	-20.4817	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5479	-20.5379	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.6225	-20.4697	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5389	-20.5356	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8494	-20.4843	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.4444	-20.6572	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8211	-20.4486	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.8806	-20.3881	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5194	-20.6069	
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU VU	116.5936	-20.4817	0
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.862	-20.4621	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys	imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	C(GDA LONG	GDA LAT	YEAR
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917		2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU VU	116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE	VU	116.917 116.917	-20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2008
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys	imbricata	hawksbill turtle hawksbill turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata Eretmochelys imbricata	Cheloniidae Cheloniidae	Eretmochelys Eretmochelys	imbricata imbricata	hawksbill turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE		116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.917	-20.3999	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.9336	-20.4109	2009
Eretmochelys imbricata	Cheloniidae	Eretmochelys	imbricata	hawksbill turtle	REPTILE	VU	116.5905	-20.4846	2017
Falco peregrinus	Falconidae	Falco	peregrinus	peregrine falcon	BIRD	OS	116.8022	-20.5909	2006
Falco peregrinus	Falconidae	Falco	peregrinus	peregrine falcon	BIRD	OS	116.8013	-20.6153	2000
Falco peregrinus	Falconidae	Falco	peregrinus	peregrine falcon	BIRD	OS	116.7513	-20.582	1980
Falco peregrinus	Falconidae	Falco	peregrinus	peregrine falcon	BIRD	OS	116.5013	-20.4987	1977
Falco peregrinus	Falconidae	Falco	peregrinus	peregrine falcon	BIRD	OS	116.7513	-20.582	1979
Fregata ariel	Fregatidae Fregatidae	Fregata Fregata	ariel ariel	lesser frigatebird	BIRD BIRD	IA IA	116.8056 116.7768	-20.3858 -20.5405	0
Fregata ariel Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird lesser frigatebird	BIRD	IA	116.8494	-20.4843	ō
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6225	-20.4697	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5194	-20.6069	
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6283	-20.4564	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6943	-20.5202	
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5936	-20.4817	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5936	-20.4817	1982
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.8064	-20.4931	1982
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6225	-20.4697	1983
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.8056	-20.3858	1983
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6283	-20.4564	1983
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5936	-20.4817	1984
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.8806	-20.3881	1984
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.4444	-20.6572	1984
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.8075	-20.3877	1984
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6943	-20.5202	1983
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.7768	-20.5405	1983
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5194	-20.6069	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5808	-20.4758	1999
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6675	-20.5203	2002
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6675	-20.5203	2002
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6667	-20.5194	2000
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6943	-20.5202	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.7768	-20.5405	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6225	-20.4697	
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6283	-20.4564	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.8806	-20.3881	1998
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5	-20.5	1974
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5	-20.5	1981
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.53	-20.55	1962
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.58	-20.58	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.58	-20.58	1977
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5808	-20.4758	1999
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6667	-20.5194	2000
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6675	-20.5203	
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.91	-20.41	0
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5822	-20.4745	1999
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6675	-20.5203	2002
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.6675	-20.5203	2002
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.668	-20.5181	2000
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.918	-20.4153	1980
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.7513	-20.582	1980

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS CLG	DA_LONG	GDA LAT	YEAR
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5847	-20.4153	1980
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.7513	-20.582	1980
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.7513	-20.582	1981
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5847	-20.4153	1981
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.7513	-20.582	1981
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5847	-20.4153	1978
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5847	-20.4153	1977
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5847	-20.582	1977
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5847	-20.582	1979
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5847	-20.582	1979
Fregata ariel	Fregatidae	Fregata	ariel	lesser frigatebird	BIRD	IA	116.5013	-20.4987	1980
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.8056	-20.3858	0
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.5936	-20.4817	
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.8069	-20.3845	0
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.5949	-20.4803	
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4 P4	116.8597	-20.4044	1984
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.8597	-20.4044	0
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.5936	-20.4817	
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.8597	-20.4044	0
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.8073	-20.3847	
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.7713 116.5953	-20.6087	1997
Hydromys chrysogaster Hydromys chrysogaster	Muridae Muridae	Hydromys Hydromys	chrysogaster chrysogaster	water-rat, rakali water-rat, rakali	MAMMAL MAMMAL	P4 P4	116.8069	-20.4807 -20.3845	0
Hydromys chrysogaster	Muridae	Hydromys	chrysogaster	water-rat, rakali	MAMMAL	P4	116.5949	-20.4803	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8314	-20.3889	1987
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD BIRD	IA IA	116.8314 116.8314	-20.3889 -20.3889	1983 1991
Hydroprogne caspia Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD	IA	116.6292	-20.4571	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6939	-20.5202	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5946	-20.4797	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5204	-20.6007	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4449	-20.6588	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5204	-20.6007	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5204	-20.6007	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4449	-20.6588	1983
Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD BIRD	IA IA	116.8044 116.777	-20.3856 -20.5399	0
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.777	-20.5399	1982
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5	-20.5	1974
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5	-20.5	1978
Hydroprogne caspia	Laridae Laridae	Hydroprogne	caspia	Caspian tern	BIRD BIRD	IA IA	116.5 116.5747	-20.5 -20.5931	1981 2008
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD	IA	116.58	-20.58	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5872	-20.4689	1998
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.63	-20.58	1901
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6583	-20.525	1999
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6667	-20.5194	2000
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6675	-20.5203	2002
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.85	-20.45	2005
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8519	-20.4492	2002
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8875	-20.3917	2000
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.91	-20.41	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8056	-20.3858	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7768	-20.5405	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4444	-20.6572	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6943	-20.5202	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5936	-20.4817	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889	1987
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern Caspian tern	BIRD	IA	116.8064	-20.4931	2000
Hydroprogne caspia	Laridae	Hydroprogne	caspia		BIRD	IA	116.7768	-20.5405	1982
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4444	-20.6572	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889	1991
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6283	-20.4564	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6169	-20.4441	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8056	-20.3858	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7768	-20.5405	1982
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8494	-20.4843	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4444	-20.6572	1983
Hydroprogne caspia	Laridae Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA IA	116.5194	-20.6069	0 1983
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD BIRD	IA	116.8317	-20.3889 -20.3889	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5381	-20.4778	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6283	-20.4564	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.675	-20.5178	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6943	-20.5202	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6737	-20.4485	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6732	-20.4512	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5079	-20.4995	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5936	-20.4817	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6149	-20.5694	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6343	-20.5843	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6169	-20.4441	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8494	-20.4843	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5389	-20.5356	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7768	-20.5405	1982
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5381	-20.4778	1990 1982
Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD BIRD	IA IA	116.675 116.5194	-20.5178 -20.6069	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4444	-20.6572	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6283	-20.4564	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7754	-20.5404	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6283	-20.4564	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.584	-20.5753	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.654	-20.5059	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.675	-20.5178	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8332	-20.3806	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4513	-20.6649	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5079	-20.4995	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4487	-20.6526	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5936	-20.4817	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8336	-20.3834	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6737	-20.4485	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6343	-20.5843	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD BIRD	IA	116.6149 116.5194	-20.5694 -20.6069	1984 1984
Hydroprogne caspia Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD	IA IA	116.8336	-20.3834	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8056	-20.3858	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6737	-20.4485	1984
Hydroprogne caspia	Laridae Laridae	Hydroprogne	caspia	Caspian tern Caspian tern	BIRD BIRD	IA IA	116.6169 116.5381	-20.4441 -20.4778	1984 1984
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern	BIRD	IA	116.5079	-20.4995	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6343	-20.5843	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4449	-20.6588	0
Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia	Caspian tern Caspian tern	BIRD BIRD	IA IA	116.5204 116.6939	-20.6007 -20.5202	0
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne	caspia caspia	Caspian tern	BIRD	IA	116.6292	-20.4571	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7768	-20.5405	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6283	-20.4564	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.654	-20.5059	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4444	-20.6572	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8056	-20.3858	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7768	-20.5405	1983

NAME SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS_C(G	DA LONG	GDA LAT	YEAR
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8494	-20.4843	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5389	-20.5356	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6737 116.5194	-20.4485	0
Hydroprogne caspia Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD BIRD	IA IA	116.5946	-20.6069 -20.4797	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8494	-20.4843	1978
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8064	-20.4931	2014
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8064	-20.4931	2000
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8056	-20.3858	1983
Hydroprogne caspia	Laridae Laridae	Hydroprogne	caspia	Caspian tern	BIRD BIRD	IA IA	116.7768 116.4444	-20.5405 -20.6572	1983 1983
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD	IA	116.4444	-20.6572	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	1971
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889	1991
Hydroprogne caspia	Laridae Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889 -20.3889	1983
Hydroprogne caspia Hydroprogne caspia	Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD BIRD	IA IA	116.8317 116.6283	-20.4564	1987 1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6943	-20.5202	1971
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5936	-20.4817	1983
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8597	-20.4044	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7768	-20.5405	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD BIRD	IA	116.4313	-20.6537	1990 1990
Hydroprogne caspia Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD	IA IA	116.5194 116.8317	-20.6069 -20.3889	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6283	-20.4564	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5936	-20.4817	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6149	-20.5694	1990
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6943	-20.5202	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA IA	116.7768	-20.5405	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.654	-20.5059	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.6283	-20.4564	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4444	-20.6572	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8317	-20.3889	1984
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8806	-20.3881	2000
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA IA	116.8168 116.5194	-20.5091	2015 1918
Hydroprogne caspia Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD BIRD	IA	116.4444	-20.6069 -20.6572	1918
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.8056	-20.3858	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.7768	-20.5405	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.4444	-20.6572	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5194	-20.6069	
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD BIRD	IA IA	116.8317 116.6283	-20.3889 -20.4564	0
Hydroprogne caspia Hydroprogne caspia	Laridae Laridae	Hydroprogne Hydroprogne	caspia caspia	Caspian tern Caspian tern	BIRD	IA	116.6943	-20.5202	0
Hydroprogne caspia	Laridae	Hydroprogne	caspia	Caspian tern	BIRD	IA	116.5936	-20.4817	0
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.8486	-20.4884	1993
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.752	-20.633	2004
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.7073	-20.6668	2005
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.767	-20.6571	2001
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.782	-20.593	2014
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.777	-20.599	2015
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.777	-20.598	2015
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.782	-20.592	2015
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.7685	-20.624	2015
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.7712	-20.6065	2016
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.7785	-20.5949	2015
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.7785	-20.5949	2015
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.777	-20.599	2016
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.771	-20.589	2016
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.7675	-20.6131	2016
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.779	-20.595	2017
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.768	-20.613	2017
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU VU	116.7619	-20.6086	2018
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.7727	-20.6113	2018
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE		116.8494	-20.4843	1990
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.6343	-20.5843	1990
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.8486	-20.4884	1993
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.8494	-20.4843	0
Liasis olivaceus barroni	Boidae	Liasis	olivaceus	Pilbara olive python	REPTILE	VU	116.8119	-20.5735	
Liasis olivaceus barroni	Boidae Scolopacidae	Liasis Limosa	olivaceus	Pilbara olive python	REPTILE BIRD	VU IA (& VU	116.8494 116.85	-20.4843 -20.45	0 2005
Limosa lapponica Limosa lapponica	Scolopacidae	Limosa	lapponica lapponica	bar-tailed godwit bar-tailed godwit	BIRD	IA (& VU	116.8494	-20.4843	0
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.4444	-20.6572	1983
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.8494	-20.4843	1984
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.8064	-20.4931	1990
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.8494	-20.4843	1990
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.4444	-20.6572	1990
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.85	-20.45	2005
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.8494	-20.4843	1978
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.7588	-20.6062	1998
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.8105	-20.6059	1999
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.8105	-20.6059	1999
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.7597	-20.6403	1999
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.8513	-20.4487	2005
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.7988	-20.6323	2010
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.7047	-20.6662	2010
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.7972	-20.6331	1999
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.5013	-20.4987	1981
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.918	-20.4153	1980
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.7513	-20.582	1977
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.5013	-20.4987	1978
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.5013	-20.4987	1978
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.5013	-20.4987	1977
Limosa lapponica	Scolopacidae	Limosa	lapponica	bar-tailed godwit	BIRD	IA (& VU	116.5013	-20.4987	1980
Limosa limosa	Scolopacidae	Limosa	limosa	black-tailed godwit	BIRD	IA	116.5013	-20.4987	1981
Macroderma gigas	Megadermatidae	Macroderma	gigas	ghost bat	MAMMAL	VU	116.8022	-20.5909	2006
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.8013	-20.5653	1999
Megaptera novaeangliae	Balaenopteridae Balaenopteridae	Megaptera	novaeangliae novaeangliae	humpback whale humpback whale	MAMMAL MAMMAL	CD CD	116.9267 116.9267	-20.3733 -20.3733	2014 2014
Megaptera novaeangliae Megaptera novaeangliae	Balaenopteridae	Megaptera Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.9267	-20.3733	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.9267	-20.3733	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.9133	-20.3725	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.865	-20.3433	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.865	-20.3433	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.865	-20.3433	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.75	-20.35	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.75	-20.35	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.7367	-20.4533	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.7333	-20.3667	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.6467	-20.3967	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.69	-20.37	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.69	-20.37	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.69	-20.37	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL MAMMAL	CD CD	116.69	-20.37	2014 2014 2014
Megaptera novaeangliae Megaptera novaeangliae	Balaenopteridae Balaenopteridae	Megaptera Megaptera	novaeangliae novaeangliae	humpback whale humpback whale	MAMMAL	CD	116.61 116.61	-20.41 -20.41	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.61	-20.41	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.61	-20.41	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.52	-20.47	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.52	-20.47	2014
Megaptera novaeangliae Megaptera novaeangliae Megaptera novaeangliae	Balaenopteridae Balaenopteridae	Megaptera Megaptera	novaeangliae novaeangliae	humpback whale humpback whale	MAMMAL MAMMAL	CD CD	116.52 116.5	-20.47 -20.48	2014 2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.46	-20.52	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.46	-20.52	2014
Megaptera novaeangliae	Balaenopteridae	Megaptera	novaeangliae	humpback whale	MAMMAL	CD	116.46	-20.52	2014
Mormopterus (Ozimops) co Mormopterus (Ozimops) co		Mormopterus Mormopterus		north-western free-tailed bat north-western free-tailed bat		P1 P1	116.8022 116.8057	-20.5909 -20.6068	2006 2001
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.8333	-20.6167	0

NAME CO	FAMILY	CENTIC	CDECIEC	NAME COM	CLACC	CON		CDA LAT	VEAD
NAME_SCI Natator depressus	Cheloniidae	GENUS Natator	SPECIES depressus	NAME_COM flatback turtle	CLASS REPTILE	VU	5_C(GDA_LONG 116.5194	-20.6069	YEAR 1978
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.5936	-20.4817	2012
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.5194	-20.6069	1990
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.8317	-20.3889	1990
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.8806	-20.3881	1990
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008

NAME COL	FARMIN	CENTIC	CDECIEC	NAME COM	22.4.12	CON	C COA LONG	CDA LAT	VEAD
NAME_SCI Natator depressus	FAMILY Cheloniidae	GENUS Natator	SPECIES depressus	NAME_COM flatback turtle	CLASS REPTILE	VU	5_C(GDA_LONG 116.917	-20.3999	YEAR 2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus Natator depressus	Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus		REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus		REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917	-20.3999	2008 2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus Natator depressus	Cheloniidae	Natator	depressus depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009

NAME SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	_C(GDA_LONG	GDA LAT	YEAR
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917 116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917	-20.3999 -20.3999	2009 2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus		REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus Natator depressus	Cheloniidae	Natator	depressus depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus	flatback turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator		flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009

	NAME SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	_C(GDA_LONG	GDA LAT	YEAR
Marche Camerane Camerane Research Research Perfect Color 1,154,00 20,000	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Marche Charles Marche Charles Charle	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Marche department Challentine Marche department Marche	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Section of Communication Communication of Communicati										
Marcial Colorations	Natator depressus	Cheloniidae		depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	
Marcial Colonistics Colonistics Marcial Colonistics Marcia	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Section Components Conference Section Section Components Conference Section Confe	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Medical department										
Marcia Continued Marcia	Natator depressus							116.917		
Name Composition Controlled Name Composition Controlled Name Controlle	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Name	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Montany Components Controlled Montany Control										
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Mactor depresson Christolista Natural Compresson Indicata furths Martin Continues Martin Continu	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Medical references Orderection Medical company Medical control Medical con		Cheloniidae				REPTILE	VU	116.917		
Mactor depression Colonisida										
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National Compension October Oc	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Colonidade Col	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Nation depresso										
National Compressor Coloniside Maritario degressor Maritario degressor Coloniside Maritario degressor Colon										
Notation depression Coloriolides Master Martier Martier Coloriolides Master Coloriolid	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Martar depresson Coloriolate Martar depresson Inflances further EFFILE VI 11.13.27 20.3999 2009	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Matter depressor Celebrolide Nation C										
Mactation depression Confornition Mactation Generation Generation Mactation Generation Generation Mactation Generation Mactation Generation										
Natario depressor Celeminide Natario	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natural of pressure Chelonidae Natural of pressure Statusk turnle REFFIE VU 116.97 70.3999 2009	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Matator depressos Chelonidae Matator Genessos Rabbact turble REPTILE VU 11.6317 - 20.3399 2000 Matator depressos Chelonidae Matator Genessos Rabbact turble REPTILE VU 11.6317 - 20.3399 2000 Matator depressos Chelonidae Matator Genessos Rabbact turble REPTILE VU 11.6317 - 20.3399 2000 Matator depressos Chelonidae Matator Genessos Rabbact turble REPTILE VU 11.6317 - 20.3399 2000 Matator depressos Chelonidae Matator Genessos Rabbact turble REPTILE VU VI VI VI 11.6317 - 20.3399 2000 Matator depressos Chelonidae Matator Genessos Rabbact turble REPTILE VU VI VI VI VI VI VI VI										
Material depression Chelonidae Material depression Enthack turtle REFFILE VU 11697 203999 2009										
Matator depresson Chelonidae Matator	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
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Natator openessis Cholonicide Natator depressis Etaback turle REPTILE VU 116.97 2-0.3999 2009										
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Natator depressus Chelonidae Natator depressus flatback turtle REPTILE VU 116-917 20.3999 2009	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
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Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5389 -20.5356 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6281 -20.6553 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6283 -20.4564 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8282 -20.02735 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8311 -20.3889 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8312 -20.4221 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8313 -20.4136 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.7768 -20.5405 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8211 -20.4436 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8211 -20.4486 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8211 -20.4486 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8310 -20.3881 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8306 -20.3881 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8310 -20.6699 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8311 -20.6647 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8311 -20.6647 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8311 -20.6547 O Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.5479	-20.5379	0
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6461 -20.6533 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6283 -20.4564 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8219 -20.5735 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8179 -20.3889 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8222 -20.4231 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8281 -20.4136 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8181 -20.4136 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8064 -20.4931 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8064 -20.4931 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8011 -20.4486 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8011 -20.4866 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.806 -20.3881 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5906 -20.3881 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.511 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.511 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.511 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5311 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5311 -20.5379 0	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.5389	-20.5356	0
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8119 -20.5735 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8317 -20.3889 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8222 -20.4231 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.83181 -20.4136 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.83181 -20.4136 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8064 -20.4931 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8064 -20.4931 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8011 -20.4186 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8064 -20.4895 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8066 -20.3881 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5193 -20.4817 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5831 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5831 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8394 -20.4843 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8394 -20.55379 0										
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8222 -20.4231 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8181 -20.4136 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8768 -20.5405 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8064 -20.4931 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8011 -20.4486 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8011 -20.4865 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8064 -20.3881 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6381 -20.6647 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6394 -20.4843 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8394 -20.4843 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8394 -20.5657 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8394 -20.5657 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8394 -20.5397 0	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.8119	-20.5735	0
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.7768 -20.5405 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8004 -20.4931 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8211 -20.4486 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8211 -20.6486 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8006 -20.8811 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6831 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6894 -20.64817 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8904 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8904 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8904 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8904 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8909 -20.5379 0	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.8222	-20.4231	0
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8211 -20.4486 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8404 -20.6572 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.806 -20.3881 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5996 -20.4817 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6831 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6831 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8394 -20.4837 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8395 -20.5379 0	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.7768	-20.5405	0
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.4444 -20.6572 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8806 -20.3881 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5936 -20.4817 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5831 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8494 -20.4843 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8494 -20.5379 0										
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5194 -20.6069 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5396 -20.4817 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6831 -20.6647 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8494 -20.4843 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5799 -20.5379 0	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.4444	-20.6572	0
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.6831 -20.6547 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.8494 -20.4843 0 Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5479 -20.5379 0	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.5194	-20.6069	0
Natator depressus Cheloniidae Natator depressus flatback turtle REPTILE VU 116.5479 -20.5379 0	Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.6831	-20.6547	0
		Cheloniidae		depressus		REPTILE	VU			
		Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU		-20.4697	0

NAME CCI	FARMIN	CENTIC	CDECIEC	NAME COM	CLASS	CON		CDA LAT	VEAD
NAME_SCI Natator depressus	FAMILY Cheloniidae	GENUS Natator	SPECIES depressus	NAME_COM flatback turtle	CLASS REPTILE	VU	5_C(GDA_LONG 116.5389	-20.5356	YEAR 0
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.6461 116.6283	-20.6533 -20.4564	0
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU	116.8119 116.8317	-20.5735 -20.3889	0
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.8317	-20.3889 -20.4231	0
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.8181 116.7768	-20.4136 -20.5405	0
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.8064	-20.4931	0
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.8211 116.4444	-20.4486 -20.6572	0
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.8806	-20.3881	0
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.5194	-20.6069	0
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.5936	-20.4817	
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917	-20.3999	2008 2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus		Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	VU	5_C(GDA_LONG	GDA_LAT	YEAR
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus		REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2008 2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle		VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus		REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus		Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus Natator depressus	Cheloniidae	Natator Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999 -20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	VU	5_C(GDA_LONG	GDA_LAT	YEAR
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2008
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917	-20.3999	2009 2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917 116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917	-20.3999 -20.3999	2009 2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator		flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE REPTILE	VU	116.917 116.917	-20.3999 -20.3999	2009 2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE		116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	cons co	GDA_LONG	GDA LAT	YEAR
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus		REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus		REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999	2009
Natator depressus Natator depressus	Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE REPTILE	VU VU	116.917 116.917	-20.3999	2009 2009
Natator depressus Natator depressus	Cheloniidae Cheloniidae	Natator Natator	depressus depressus	flatback turtle flatback turtle	REPTILE	VU	116.917	-20.3999 -20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.917	-20.3999	2009
Natator depressus	Cheloniidae	Natator	depressus	flatback turtle	REPTILE	VU	116.9336	-20.4109	2009
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU	116.868	-20.6487	1966
Numenius madagascariensis	Scolopacidae	Numenius Numenius	madagascariensis	eastern curlew	BIRD	VU	116.868 116.868	-20.6487	1966
Numenius madagascariensis Numenius madagascariensis		Numenius	madagascariensis madagascariensis	eastern curlew eastern curlew	BIRD BIRD	IA IA	116.868	-20.6487 -20.6487	1966 1966
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.6283	-20.4564	1983
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.8494	-20.4843	1984
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.8494	-20.4843	1990
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.85	-20.45	2005
Numenius madagascariensis	Scolopacidae	Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.8494	-20.4843	1978
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.8513	-20.4487	2005
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.7513	-20.582	1981
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.5013	-20.4987	1978
Numenius madagascariensis		Numenius	madagascariensis	eastern curlew	BIRD	VU & IA	116.5013	-20.4987	1977
Numenius madagascariensis	Scolopacidae	Numenius	madagascariensis	eastern curlew eastern curlew	BIRD BIRD	VU & IA VU & IA	116.5013 116.5013	-20.4987 -20.4987	1978 1977
Numenius madagascariensis Numenius minutus	Scolopacidae	Numenius Numenius	madagascariensis minutus	little curlew, little whimbrel	BIRD	IA	116.7105	-20.6551	2010
Numenius minutus	Scolopacidae	Numenius	minutus	little curlew, little whimbrel	BIRD	IA	116.7513	-20.582	1981
Numenius minutus	Scolopacidae	Numenius	minutus	little curlew, little whimbrel	BIRD	IA	116.7513	-20.582	1981
Numenius minutus	Scolopacidae	Numenius	minutus	little curlew, little whimbrel	BIRD	IA	116.7513	-20.582	1977
Numenius minutus	Scolopacidae	Numenius	minutus	little curlew, little whimbrel	BIRD	IA	116.5013	-20.4987	1977
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.85	-20.45	2005
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6169	-20.4441	0
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5194	-20.6069	
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6737	-20.4485	0
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6732	-20.4512	
Numenius phaeopus	Scolopacidae Scolopacidae	Numenius Numenius	phaeopus	whimbrel whimbrel	BIRD BIRD	IA IA	116.8211 116.6283	-20.4486 -20.4564	1982 1983
Numenius phaeopus Numenius phaeopus	Scolopacidae	Numenius	phaeopus phaeopus	whimbrel	BIRD	IA	116.5194	-20.6069	1983
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5194	-20.6069	1984
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5194	-20.6069	1984
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6737	-20.4485	1984
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6169	-20.4441	1984
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8064	-20.4931	1990
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6169	-20.4441	1990
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5194	-20.6069	1990
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8211	-20.4486	1990
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6283	-20.4564	1990
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NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS_C	GDA_LONG	GDA_LAT	YEAR
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8806	-20.3881	1990
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6737	-20.4485	1990
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.6343	-20.5843	1990
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8513	-20.4487	2005
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8494	-20.4843	1978
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8806	-20.3881	1998
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8265	-20.4836	2015
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8215	-20.5195	2015
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8014	-20.5711	2001
Numenius phaeopus	Scolopacidae	Numenius		whimbrel	BIRD	IA	116.8105	-20.6059	1999
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7822	-20.6595	2004
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7597	-20.6403	1999
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7819	-20.5903	
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.8513	-20.4487	2005
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7988	-20.6323	2010
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7972	-20.6331	1999
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5013	-20.4987	1981
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7513	-20.582	1980
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7513	-20.582	1981
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7513	-20.582	1981
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5013	-20.4987	1978
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5013	-20.4987	1977
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.7513	-20.582	1978
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel	BIRD	IA	116.5013	-20.4987	1977
Numenius phaeopus	Scolopacidae	Numenius	phaeopus	whimbrel		IA	116.5013	-20.4987	1979
Numenius phaeopus	Scolopacidae Hydrobatidae	Numenius Oceanites	phaeopus	whimbrel	BIRD BIRD	IA IA	116.5013 116.5	-20.4987 -20.5	1980 1974
Oceanites oceanicus Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus oceanicus	Wilson's storm-petrel Wilson's storm-petrel	BIRD	IA	116.91	-20.41	0
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.8494	-20.4843	0
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.4444	-20.6572	
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.6343	-20.5843	1983
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.6404	-20.4913	1983
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.4444	-20.6572	1984
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.8064	-20.4931	1984
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.7408	-20.4168	1984
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.5528	-20.4818	1984
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.8494	-20.4843	0
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.7322	-20.5958	2008
Oceanites oceanicus	Hydrobatidae	Oceanites	oceanicus	Wilson's storm-petrel	BIRD	IA	116.918	-20.4153	1979
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.5	-20.5	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5	-20.5	1981
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5	-20.5	1974
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.5	-20.5	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5	-20.5	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5	-20.5	1981
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5	-20.5	1977
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5747	-20.5931	2008
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.58	-20.58	1978
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.58	-20.58	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.58	-20.58	1977
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5808	-20.4758	1999
Pandion cristatus Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD BIRD	IA IA	116.5825 116.5872	-20.585 -20.4689	2008 1998
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.61	-20.58	1901
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.63	-20.58	1901
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.63	-20.58	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6583	-20.525	1999
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6667	-20.5194	2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6675	-20.5203	2002
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.85	-20.45	2005
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8519	-20.4492	2002
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8875	-20.3917	2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.91	-20.41	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.45	-20.666	1918
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5	-20.6	1918
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.616	-20.583	1901
Pandion cristatus Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.866	-20.383	1918
	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.866	-20.383	1918
Pandion cristatus Pandion cristatus Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069 -20.3881	0
Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD BIRD	IA IA	116.8806 116.5936	-20.4817	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6343	-20.5843	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8064	-20.4931	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8064	-20.4931	2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8494	-20.4843	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	1987
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5479	-20.5379	1978
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1977
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA IA	116.5194 116.5194	-20.6069 -20.6069	1987 1983
Pandion cristatus Pandion cristatus Pandion cristatus	Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD BIRD	IA IA	116.8317 116.6283	-20.3889 -20.4564	1983 1983
Pandion cristatus	Accipitridae Accipitridae	Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.6254	-20.4528 -20.3881	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	1978
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806		2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675	-20.5178	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675	-20.5178	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5946	-20.4797	1977
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1978
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6343	-20.5843	1976
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6343	-20.5843	1978
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8064	-20.4931	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6169	-20.4441	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8494	-20.4843	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	1983
Pandion cristatus Pandion cristatus Pandion cristatus	Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD BIRD	IA IA	116.6592 116.4313	-20.6094 -20.6537	0
Pandion cristatus	Accipitridae Accipitridae	Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.6225	-20.4697	ō
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA IA	116.5194 116.8211	-20.6069 -20.4486	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5389	-20.5356	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6796	-20.5419	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8317	-20.3889	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5381	-20.4778	
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675	-20.5178	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6396	-20.4392	
Pandion cristatus Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD BIRD	IA IA	116.6737 116.6732	-20.4485 -20.4512	0
Pandion cristatus Pandion cristatus Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD BIRD	IA IA	116.5079 116.5936	-20.4995 -20.4817	0 1984
Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.6149	-20.5694	0
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA IA	116.6343 116.7768	-20.5843 -20.5405	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8211	-20.4486	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5389	-20.5356	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6787	-20.5216	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5327	-20.5428	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5389	-20.5356	1983
Pandion cristatus Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	1983
	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6254	-20.4528	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6225	-20.4697	1983

NAME SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	CC GDA_LONG	GDA LAT	YEAR
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.653	-20.5039	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6796	-20.5419	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.8321	-20.3883	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8024	-20.385	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6269	-20.4543	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6254	-20.4528	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5793	-20.5805	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6538	-20.5043	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8317	-20.3889	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.8321	-20.3883	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4498	-20.6647	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6343	-20.5843	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675	-20.5178	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5816	-20.579	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.8024	-20.385	1984
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.4313 116.5079	-20.6537 -20.4995	1984 1984
Pandion cristatus	Accipitridae	Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5816	-20.579	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6786	-20.5218	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6343	-20.5843	1984
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA IA	116.6149 116.5936	-20.5694 -20.4817	1984 1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8317	-20.3889	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8056	-20.3858	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6737	-20.4485	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.6254	-20.4528	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6169	-20.4441	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5381	-20.4778	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5389	-20.5356	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6149	-20.5694	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8505	-20.4796	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.5204	-20.6007	1977
Pandion cristatus Pandion cristatus	Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.6742 116.8049	-20.5151 -20.4927	1980 1980
Pandion cristatus	Accipitridae Accipitridae	Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.6342	-20.5841	1976
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4449	-20.6588	1987
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.777	-20.5399	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6253	-20.4526	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.6292	-20.4571	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8314	-20.3889	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.7768	-20.5405	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.654	-20.5059	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8317	-20.3889	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.8056	-20.3858	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6796	-20.5419	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.88	-20.3861	1977
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6943	-20.5202	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5473	-20.5379	1977
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA IA	116.6343 116.5936	-20.5843 -20.4817	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.8064 116.8494	-20.4931 -20.4843	0
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.6737	-20.4485	0
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA IA	116.7768 116.5194	-20.5405 -20.6069	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6225	-20.4697	1981
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8494	-20.4843	1970
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.8064 116.8806	-20.4931 -20.3881	1970 1970
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	1978
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6343	-20.5843	1970
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1970
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.5936	-20.4817	1970
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8064	-20.4931	1977
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8064	-20.4931	2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8494	-20.4843	1980
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	1987
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.5479	-20.5379	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1977
Pandion cristatus	Accipitridae Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.5194 116.8317	-20.6069	1984 1983
Pandion cristatus Pandion cristatus	Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey	BIRD	IA	116.6254	-20.3889 -20.4528	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	1982
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	2000
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey		IA	116.8806	-20.3881	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675	-20.5178	1977
Pandion cristatus	Accipitridae	Pandion	cristatus		BIRD	IA	116.675	-20.5178	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1976
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1977
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5936	-20.4817	1983
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6343	-20.5843	1976
Pandion cristatus Pandion cristatus	Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.6343 116.6343	-20.5843 -20.5843	1977 1984
Pandion cristatus	Accipitridae Accipitridae	Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.8064	-20.4931	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6169	-20.4441	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8597	-20.4044	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8494	-20.4843	1990
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.4444 116.6831	-20.6572 -20.6547	1990 1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.6225	-20.4697	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4313	-20.6537	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8211	-20.4486	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5389	-20.5356	1990
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA IA	116.6796 116.8317	-20.5419 -20.3889	1990 1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5381	-20.4778	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675	-20.5178	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6943	-20.5202	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6393	-20.4388	1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6393	-20.4388	1990
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus	osprey, eastern osprey	BIRD	IA IA	116.5936 116.6149	-20.4817 -20.5694	1990 1990
. anuion tristatus	Accibinings	ranululi	unstatus	osprey, eastern osprey	טאוט	IA	110.0149	-20.3094	1990

NAME_SCI Pandion cristatus	FAMILY Accipitridae	GENUS Pandion	SPECIES cristatus	NAME_COM osprey, eastern osprey	CLASS BIRD	CONS_C(G	116.6343	-20.5843	YEAR 1990
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6254	-20.4528	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.654	-20.5059	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6796	-20.5419	
Pandion cristatus Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	0
Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey	BIRD BIRD	IA IA	116.8317 116.4444	-20.3889 -20.6572	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8494	-20.4843	1978
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675	-20.5178	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8317	-20.3889	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5389	-20.5356	1984
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD BIRD	IA IA	116.8806	-20.3881	2000
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD	IA	116.5936 116.8169	-20.4817 -20.5092	2004 2015
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8273	-20.5152	2015
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8347	-20.4846	2015
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8222	-20.4231	2015
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8181	-20.4136	2015
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	1918
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	1918
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8064	-20.4931	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.7768	-20.5405	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8494	-20.4843	
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.4444	-20.6572	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5479	-20.5379	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.5194	-20.6069	
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8317	-20.3889	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6254	-20.4528	
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.6283	-20.4564	0
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.8806	-20.3881	
Pandion cristatus	Accipitridae	Pandion	cristatus	osprey, eastern osprey	BIRD	IA	116.675 116.5936	-20.5178	0
Pandion cristatus Pandion cristatus	Accipitridae Accipitridae	Pandion Pandion	cristatus cristatus	osprey, eastern osprey osprey, eastern osprey	BIRD BIRD	IA IA	116.6343	-20.4817 -20.5843	0
Pluvialis fulva	Charadriidae	Pluvialis	fulva	Pacific golden plover	BIRD	IA	116.5	-20.5	1980
Pluvialis fulva	Charadriidae	Pluvialis	fulva	Pacific golden plover	BIRD	IA	116.6283	-20.4564	1983
Pluvialis fulva	Charadriidae	Pluvialis	fulva	Pacific golden plover	BIRD	IA	116.7047	-20.6662	2010
Pluvialis fulva	Charadriidae	Pluvialis	fulva		BIRD	IA	116.5013	-20.4987	1980
Pluvialis squatarola	Charadriidae	Pluvialis	squatarola	Pacific golden plover grey plover	BIRD	IA	116.5	-20.5	1983
Pluvialis squatarola	Charadriidae	Pluvialis	squatarola	grey plover	BIRD	IA	116.8494	-20.4843	1990
Pluvialis squatarola	Charadriidae	Pluvialis	squatarola	grey plover	BIRD	IA	116.4444	-20.6572	1990
Pluvialis squatarola	Charadriidae	Pluvialis	squatarola	grey plover	BIRD	IA	116.4485	-20.6657	1983
Pluvialis squatarola	Charadriidae	Pluvialis	squatarola	grey plover	BIRD	IA	116.7988	-20.6323	2010
Pluvialis squatarola	Charadriidae	Pluvialis	squatarola	grey plover	BIRD	IA	116.5013	-20.4987	1981
Pseudomys chapmani	Muridae	Pseudomys	chapmani	western pebble-mound mous		P4	116.8313	-20.5787	1983
Pseudomys chapmani	Muridae	Pseudomys	chapmani	western pebble-mound mous		P4	116.7713	-20.6087	1994
Stenella longirostris	Delphinidae	Stenella	longirostris	spinner dolphin	MAMMAL	P4	116.6633	-20.5342	2014
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.538	-20.5352	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6737	-20.4482	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5	-20.5	1974
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5	-20.5	1983
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.58	-20.58	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.91	-20.41	
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6732	-20.4512	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5389	-20.5356	
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.8597	-20.4044	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.8494	-20.4843	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6943	-20.5202	
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6396	-20.4392	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6737	-20.4485	
Sterna dougallii Sterna dougallii	Laridae Laridae	Sterna Sterna	dougallii	roseate tern	BIRD BIRD	IA IA	116.6732 116.5079	-20.4512 -20.4995	0
Sterna dougallii	Laridae	Sterna	dougallii dougallii	roseate tern roseate tern	BIRD	IA	116.5936	-20.4817	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6343	-20.5843	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern		IA	116.8056	-20.3858	1990
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5381	-20.4778	1983
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5079	-20.4995	1984
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5079	-20.4995	1984
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.8056	-20.3858	1984
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6737	-20.4485	1984
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6393	-20.4388	1984
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5936	-20.4817	1984
Sterna dougallii	Laridae	Sterna Sterna	dougallii	roseate tern	BIRD BIRD	IA IA	116.8317	-20.3889 -20.4778	1990 1990
Sterna dougallii Sterna dougallii	Laridae Laridae	Sterna	dougallii dougallii	roseate tern roseate tern	BIRD	IA	116.5381 116.6393	-20.4388	1990
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6737	-20.4485	1990
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5079	-20.4995	1990
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5936	-20.4817	1990
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6943	-20.5202	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6343	-20.5843	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5936	-20.4817	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.8494	-20.4843	
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.8388	-20.416	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.538	-20.5352	
Sterna dougallii Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD BIRD	IA IA	116.6737	-20.4482 -20.5356	0 1994
Sterna dougallii	Laridae Laridae	Sterna Sterna	dougallii dougallii	roseate tern roseate tern	BIRD	IA	116.5389 116.6732	-20.4512	1994
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.8806	-20.3881	1998
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5389	-20.5356	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.6732	-20.4512	0
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5013	-20.4987	1981
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5847	-20.582	1981
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.7513	-20.582	1981
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.7513	-20.4153	1981
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.7513	-20.582	1979
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5847	-20.4153	1979
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.5847	-20.582	1979
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.7513	-20.582	1979
Sterna dougallii	Laridae	Sterna	dougallii	roseate tern	BIRD	IA	116.918	-20.4153	1979
Sterna hirundo	Laridae	Sterna	hirundo	Common Tern	BIRD	IA	116.4444	-20.6572	1990
Sterna hirundo	Laridae	Sterna	hirundo	Common Tern	BIRD	IA	116.5194	-20.6069	1990
Sterna hirundo	Laridae	Sterna	hirundo	Common Tern	BIRD	IA	116.5389	-20.5356	1990
Sterna hirundo	Laridae	Sterna	hirundo	Common Tern	BIRD	IA	116.8317	-20.3889	1990
Sterna hirundo	Laridae	Sterna	hirundo	Common Tern	BIRD	IA	116.6343	-20.5843	1990
Sterna hirundo	Laridae	Sterna	hirundo	Common Tern	BIRD	IA	116.4456	-20.6489	2000
Sterna hirundo	Laridae	Sterna	hirundo	common tern	BIRD	IA	116.5758	-20.6397	2000
Sterna hirundo	Laridae	Sterna	hirundo	common tern	BIRD	IA	116.4814	-20.6461	2000
Sterna hirundo	Laridae	Sterna	hirundo	common tern	BIRD	IA	116.4456	-20.6489	2000
Sternula albifrons	Laridae	Sternula	albifrons	little tern	BIRD	IA	116.58	-20.58	2010
Sternula albifrons	Laridae	Sternula	albifrons	little tern	BIRD	IA	116.8064	-20.4931	2014
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.432	-20.6537	1991
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8044	-20.3856	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8044	-20.3856	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.866	-20.383	1918
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU		-20.5	1974
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8056	-20.3858	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.4313	-20.6537	1991
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8056	-20.3858	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8317	-20.3889	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5381	-20.4778	
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.675	-20.5178	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6737	-20.4485	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6732	-20.4512	
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5079	-20.4995	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5936	-20.4817	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6149	-20.5694	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5936	-20.4817	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6283	-20.4564	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.654	-20.5059	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8056	-20.3858	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8056	-20.3858	1983

NAME_SCI Sternula nereis nereis	FAMILY Laridae	GENUS Sternula	SPECIES nereis	NAME_COM fairy tern	CLASS BIRD	CONS_CCG	116.4444	GDA_LAT -20.6572	YEAR 1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5381	-20.4778	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5929	-20.5894	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5389	-20.5356	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5079	-20.4995	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5671	-20.4849	1984
Sternula nereis nereis	Laridae Laridae	Sternula	nereis	fairy tern	BIRD	VU VU	116.5671	-20.4849	1984
Sternula nereis nereis Sternula nereis nereis	Laridae	Sternula Sternula	nereis nereis	fairy tern fairy tern	BIRD BIRD	VU	116.6149 116.5936	-20.5694 -20.4817	1984 1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5936	-20.4817	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6737	-20.4485	1979
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6149	-20.5694	1984
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8064	-20.4931	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8597	-20.4044	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8494	-20.4843	1990
Sternula nereis nereis	Laridae	Sternula	nereis		BIRD	VU	116.4444	-20.6572	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern fairy tern	BIRD	VU	116.5194	-20.6069	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5389	-20.5356	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5381	-20.4778	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6283	-20.4564 -20.5178	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5079	-20.5178	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU		-20.4995	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6343	-20.5843	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU		-20.6537	1991
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.654	-20.5059	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8317	-20.3889	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern		VU	116.8056	-20.3858	1983
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6737	-20.4485	0
Sternula nereis nereis	Laridae	Sternula	nereis		BIRD	VU	116.8597	-20.4044	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern fairy tern	BIRD	VU	116.4313	-20.6537	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5936	-20.4817	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.6149	-20.5694	1990
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.654	-20.5059	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8317	-20.3889	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.5936	-20.4817	2004
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.4444	-20.6572	1918
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.8056	-20.3858	0
Sternula nereis nereis	Laridae	Sternula	nereis	fairy tern	BIRD	VU	116.4313	-20.6537	0
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.8056	-20.3858	0
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby		IA	116.6737	-20.4485	1979
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA IA	116.6732	-20.4512	1979 1983
Sula leucogaster Sula leucogaster	Sulidae Sulidae	Sula Sula	leucogaster leucogaster	brown booby brown booby	BIRD BIRD	IA	116.7273 116.6861	-20.533 -20.5284	1983
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.6641	-20.5354	1983
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.6799	-20.617	1983
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.6737	-20.4485	1979
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.6737	-20.4485	1979
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.6737	-20.4485	1980
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.8075	-20.3877	1984
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.7454	-20.4188	1984
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.6737	-20.4485	0
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.7513	-20.4153	1980
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby		IA	116.7513	-20.582	1980
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA IA	116.7513	-20.582 -20.4153	1980 1981
Sula leucogaster Sula leucogaster	Sulidae Sulidae	Sula Sula	leucogaster leucogaster	brown booby brown booby	BIRD BIRD	IA	116.7513 116.5847	-20.4153	1981
Sula leucogaster	Sulidae	Sula	leucogaster	brown booby	BIRD	IA	116.5847	-20.4153	1979
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5758	-20.6397	2000
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.8202	-20.5862	1999
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.8124	-20.5903	1999
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5822	-20.4745	1999
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.6675	-20.5203	2002
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.6675	-20.5203	2002
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.8347	-20.6653	2002
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.7922	-20.5826	1999
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.8105	-20.6059	1999
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.8105	-20.6059	1999
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.8513	-20.4487	2005
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5847	-20.5833	2010
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.7047	-20.6662	2010
Thalasseus bergii	Laridae	Thalasseus		crested tern	BIRD	IA	116.6283	-20.4603	2011
Thalasseus bergii	Laridae	Thalasseus	bergii bergii	crested tern	BIRD	IA	116.7983	-20.6339	2011
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.7972	-20.6331	1999
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5013	-20.4987	1981
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.918	-20.4153	1980
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.8347	-20.4153	1980
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.7513	-20.582	1980
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5847	-20.582	1981
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.7513	-20.582	1981
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.7513	-20.4153	1981
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5847	-20.4153	1981
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.7513	-20.582	1981
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA IA	116.7513	-20.582	1981 1979
Thalasseus bergii Thalasseus bergii	Laridae Laridae	Thalasseus Thalasseus	bergii bergii	crested tern crested tern	BIRD BIRD	IA	116.5847 116.5847	-20.4153 -20.582	1979
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5847	-20.4153	1979
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5847	-20.582	1979
Thalasseus bergii	Laridae	Thalasseus	bergii	crested tern	BIRD	IA	116.5013	-20.4987	1980
Tringa brevipes Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5	-20.5	1977
	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5	-20.5	1966
Tringa brevipes Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5	-20.5	1974
	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5	-20.5	1983
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.58	-20.58	0
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.6583	-20.525	1999
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.6667	-20.5194	2000
Tringa brevipes Tringa brevipes	Scolopacidae Scolopacidae	Tringa Tringa	brevipes brevipes	grey-tailed tattler grey-tailed tattler	BIRD BIRD	IA & P4 IA & P4	116.8056 116.6592	-20.3858 -20.6094	0
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.6283	-20.4564	0
Tringa brevipes Tringa brevipes	Scolopacidae Scolopacidae	Tringa Tringa	brevipes brevipes	grey-tailed tattler grey-tailed tattler	BIRD BIRD	IA & P4 IA & P4	116.675 116.6343	-20.5178 -20.5843	0
Tringa brevipes Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD BIRD	IA & P4	116.7768	-20.5405	1983 1983
Tringa brevipes	Scolopacidae Scolopacidae	Tringa Tringa	brevipes brevipes	grey-tailed tattler grey-tailed tattler	BIRD	IA & P4 IA & P4	116.5194 116.5417	-20.6069 -20.5368	1983
Tringa brevipes Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.654	-20.5059	1983
	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8494	-20.4843	1983
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5194	-20.6069	1983
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5194	-20.6069	1984
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5194	-20.6069	1984
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8056	-20.3858	1984
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8056	-20.3858	1990
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.7768	-20.5405	1990
Tringa brevipes Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8494	-20.4843	1990
	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5194	-20.6069	1990
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.5389	-20.5356	1990
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8806	-20.3881	1990
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.675	-20.5178	1990
Tringa brevipes Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.6583	-20.525	1999
	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.6667	-20.5194	2000
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8494	-20.4843	1978
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8064	-20.4931	2014
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.654	-20.5059	0
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.6283	-20.4564	0
Tringa brevipes	Scolopacidae	Tringa	brevipes	grey-tailed tattler	BIRD	IA & P4	116.8806	-20.3881	1998
Tringa glareola	Scolopacidae	Tringa	glareola	wood sandpiper	BIRD	IA	116.5	-20.5	1977
Tringa glareola	Scolopacidae	Tringa	glareola	wood sandpiper	BIRD	IA	116.5	-20.5	1977
Tringa glareola	Scolopacidae	Tringa	glareola	wood sandpiper	BIRD	IA	116.5013	-20.4987	1977
Tringa glareola	Scolopacidae	Tringa	glareola	wood sandpiper	BIRD	IA	116.5013	-20.4987	1977
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5	-20.5	1980
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5	-20.5	1966
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.5	-20.5	1978
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5	-20.5	1977
	pucidat			or constraint, greetist			110.3	20.3	23.7

NAME CO	FAMILY	CENTIC	CDECIEC	NAME COM	CLASS	CONE C/ C	DA LONG	CDA LAT	YEAR
NAME_SCI Tringa nebularia	Scolopacidae	GENUS Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.5	-20.5	1980
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.5	-20.5	1981
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5	-20.5	1983
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5	-20.5	1977
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.58	-20.58	0
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.85	-20.45	2005
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.6225	-20.4697	0
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.5194	-20.6069	1983
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.5194	-20.6069	1990
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5936	-20.4817	1990
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.6343	-20.5843	1990
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.8494	-20.4843	1978
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.6225	-20.4697	1981
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.8806	-20.3881	1998
Tringa nebularia	Scolopacidae	Tringa	nebularia nebularia	common greenshank, greensh common greenshank, greensh	BIRD	IA	116.8347	-20.6653	2002
Tringa nebularia Tringa nebularia	Scolopacidae Scolopacidae	Tringa Tringa	nebularia	common greenshank, greensh	BIRD	IA IA	116.7597 116.7819	-20.6403 -20.5903	1999 1999
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.8513	-20.4487	2005
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.7047	-20.6662	2010
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5013	-20.4987	1981
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5847	-20.582	1980
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.5847	-20.4153	1980
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.7513	-20.582	1980
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.7513	-20.4153	1980
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5847	-20.4153	1981
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.7513	-20.582	1981
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.7513	-20.582	1981
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5847	-20.582	1981
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5013	-20.4987	1978
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5013	-20.4987	1977
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.5013	-20.4987	1978
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh	BIRD	IA	116.7513	-20.582	1979
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5013	-20.4987	1977
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5013	-20.4987	1979
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.7513	-20.582	1979
Tringa nebularia	Scolopacidae	Tringa	nebularia	common greenshank, greensh		IA	116.5013	-20.4987	1980
Tringa stagnatilis	Scolopacidae	Tringa	stagnatilis	marsh sandpiper, little greens		IA	116.5	-20.5	1980
Tringa stagnatilis	Scolopacidae	Tringa	stagnatilis	marsh sandpiper, little greens	BIRD	IA	116.5 116.5	-20.5	1977
Tringa stagnatilis Tringa stagnatilis	Scolopacidae Scolopacidae	Tringa Tringa	stagnatilis stagnatilis	marsh sandpiper, little greens marsh sandpiper, little greens	BIRD	IA IA	116.5	-20.5 -20.5	1980 1966
Tringa stagnatilis	Scolopacidae	Tringa	stagnatilis	marsh sandpiper, little greens		IA	116.5013	-20.4987	1980
Tringa stagnatilis	Scolopacidae	Tringa	stagnatilis	marsh sandpiper, little greens		IA	116.5013	-20.4987	1977
Tringa stagnatilis	Scolopacidae	Tringa	stagnatilis	marsh sandpiper, little greens	BIRD	IA	116.5013	-20.4987	1979
Xenus cinereus	Scolopacidae	Xenus	cinereus	Terek sandpiper	BIRD	IA	116.5	-20.5	1977
Xenus cinereus	Scolopacidae	Xenus	cinereus	Terek sandpiper	BIRD	IA	116.5	-20.5	1981
Xenus cinereus	Scolopacidae	Xenus	cinereus		BIRD	IA	116.8268	-20.4836	2015
Xenus cinereus	Scolopacidae	Xenus	cinereus	Terek sandpiper	BIRD	IA	116.8215	-20.5195	2015
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit		IA	116.5381	-20.4778	1983
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit		IA	116.4593	-20.631	1983
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit		IA	116.4814	-20.6461	2000
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit		IA	116.5013	-20.4987	1978
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit	BIRD	IA	116.5013	-20.4987	1977
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit		IA	116.7513	-20.582	1978
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit	BIRD	IA	116.7513	-20.582	1979
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit	BIRD	IA	116.5013	-20.4987	1977
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit		IA	116.7513	-20.582	1979
Chlidonias leucopterus	Laridae	Chlidonias	leucopterus	white-winged black tern, whit gull-billed tern	BIRD	IA	116.5013	-20.4987	1980
Gelochelidon nilotica	Laridae	Gelochelidon	nilotica		BIRD	IA	116.8494	-20.4843	1990
Gelochelidon nilotica	Laridae	Gelochelidon	nilotica		BIRD	IA	116.5194	-20.6069	1990
Gelochelidon nilotica	Laridae	Gelochelidon	nilotica		BIRD	IA	116.5	-20.5	1980
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion	anaethetus anaethetus	bridled tern	BIRD BIRD	IA IA	116.6225 116.6247	-20.4697 -20.6665	0 1988
Onychoprion anaethetus	Laridae	Onychoprion Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5381	-20.4778	0
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6732	-20.4512	0
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.5936	-20.4817	1981
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6169	-20.4441	1991
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6225	-20.4697	1990
Onychoprion anaethetus	Laridae Laridae	Onychoprion	anaethetus	bridled tern	BIRD BIRD	IA	116.6225	-20.4697	1991 1982
Onychoprion anaethetus Onychoprion anaethetus	Laridae	Onychoprion Onychoprion	anaethetus anaethetus	bridled tern	BIRD	IA IA	116.5389 116.5389	-20.5356 -20.5356	1992
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6247	-20.6665	1991
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.5381	-20.4778	1991
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6283	-20.4564	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6732	-20.4512	1991
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6225	-20.4697	1981
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.5389	-20.5356	0
Onychoprion anaethetus	Laridae Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.6283	-20.4564	0
Onychoprion anaethetus Onychoprion anaethetus	Laridae	Onychoprion Onychoprion	anaethetus anaethetus	bridled tern	BIRD BIRD	IA IA	116.6396 116.6737	-20.4392 -20.4485	0 1980
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6732	-20.4512	1980
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.5079	-20.4995	0
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion Onychoprion	anaethetus anaethetus		BIRD BIRD	IA IA	116.5389	-20.5356 -20.4564	1982 1983
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion	anaethetus anaethetus	bridled tern	BIRD BIRD	IA IA	116.5389 116.5389	-20.5356 -20.5356	1983 1983
Onychoprion anaethetus	Laridae	Onychoprion Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5381	-20.4778	1983
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6283	-20.4564	1983
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6225	-20.4697	1983
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.8056	-20.3858	1983
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.5389	-20.5356	1984
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.5079	-20.4995	1984
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6737	-20.4485	1980
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.6743	-20.4475	1984
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.6393	-20.4388	1984
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.8056	-20.3858	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.8597	-20.4044	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.8317	-20.3889	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6283	-20.4564	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6393	-20.4388	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.6737	-20.4485	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5079	-20.4995	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6737	-20.4485	0
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6225	-20.4697	1991
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6225	-20.4697	1981
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6225	-20.4697	1994
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6225	-20.4697	1984
Onychoprion anaethetus	Laridae Laridae	Onychoprion Onychoprion	anaethetus anaethetus	bridled tern	BIRD BIRD	IA IA	116.5389 116.6247	-20.5356 -20.6665	1994 1994
Onychoprion anaethetus Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.6247	-20.6665	1988
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5381	-20.4778	1984
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6283	-20.4564	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6732	-20.4512	1991
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6732	-20.4512	1983
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5936	-20.4817	1977
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.6247	-20.6665	1991
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD BIRD	IA	116.5389	-20.5356	1988
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion Onychoprion	anaethetus anaethetus	bridled tern	BIRD	IA IA	116.5389 116.6225	-20.5356 -20.4697	1990 1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5389	-20.5356	1990
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.5381	-20.4778	1990
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion Onychoprion	anaethetus anaethetus	bridled tern	BIRD BIRD	IA IA	116.6225 116.6283	-20.4697 -20.4564	0
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5389	-20.5356	1984
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus		BIRD	IA	116.8806	-20.3881	1998
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.6169	-20.4441	0
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion Onychoprion	anaethetus anaethetus	bridled tern	BIRD BIRD	IA IA	116.6225 116.5389	-20.4697 -20.5356	0
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion Onychoprion	anaethetus anaethetus		BIRD BIRD	IA IA	116.6247 116.5381	-20.6665 -20.4778	0
Onychoprion anaethetus Onychoprion anaethetus	Laridae Laridae	Onychoprion Onychoprion	anaethetus anaethetus	bridled tern	BIRD BIRD	IA IA	116.6283 116.6732	-20.4564 -20.4512	0
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NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	CONS	_C(GDA_LONG	GDA_LAT	YEAR
Onychoprion anaethetus	Laridae	Onychoprion	anaethetus	bridled tern	BIRD	IA	116.5936	-20.4817	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6251	-20.4707	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6251	-20.4707	1990
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5379	-20.4785	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5379	-20.4785	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6292	-20.4571	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6292	-20.4571	1990
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.8044	-20.3856	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6168	-20.4438	1991
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5327	-20.5428	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6742	-20.5151	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6742	-20.5151	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6742	-20.5151	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6742	-20.5151	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5473	-20.5379	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.538	-20.5352	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6251	-20.4707	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6251	-20.4707	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6742	-20.5151	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5379	-20.4785	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.538	-20.5352	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.4449	-20.6588	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.538	-20.5352	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.538	-20.5352	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.777	-20.5399	0

NAME_SCI	FAMILY	GENUS	SPECIES	NAME_COM	CLASS	cons co	GDA LONG	GDA LAT	YEAR
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.777	-20.5399	1982
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.506 116.6667	-20.5002 -20.5194	1974 2000
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.86	-20.38	1962
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.6169 116.7768	-20.4441 -20.5405	1991 0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA IA	116.7768	-20.6572	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5479	-20.5379	1978
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.6225	-20.4697 -20.5356	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5389	-20.5356	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.5389 116.5381	-20.5356 -20.4778	0 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA IA	116.5381	-20.4778	1903
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6283	-20.4564	1990
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.675 116.675	-20.5178 -20.5178	0 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.675	-20.5178	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.675	-20.5178	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6225 116.5389	-20.4697 -20.5356	1990 1988
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6283	-20.4564	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.8056 116.7768	-20.3858	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6225	-20.5405 -20.4697	1982 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6225	-20.4697	1991
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.5327 116.5381	-20.5428 -20.4778	1983 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.675	-20.5178	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.7768	-20.5405	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.4444 116.6225	-20.6572 -20.4697	1983 0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5225	-20.4697	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6796	-20.5419	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.5381 116.6283	-20.4778 -20.4564	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.675	-20.5178	1984
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5079	-20.4995	1003
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6283 116.5389	-20.4564 -20.5356	1983 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5327	-20.5428	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5389	-20.5356	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6225 116.7768	-20.4697 -20.5405	1983 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6283	-20.4564	1983
Puffinus pacificus	Procellariidae Procellariidae	Puffinus	pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.654	-20.5059	1983
Puffinus pacificus Puffinus pacificus	Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater	BIRD	IA IA	116.7768 116.5381	-20.5405 -20.4778	1983 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5079	-20.4995	1984
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.8056 116.675	-20.3858 -20.5178	1984 1984
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.4449	-20.6588	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.538	-20.5352	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6742 116.777	-20.5151 -20.5399	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6251	-20.4707	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5379	-20.4785	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6292 116.6168	-20.4571 -20.4438	1983 1991
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5327	-20.5428	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6283	-20.4564	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6169 116.6225	-20.4441 -20.4697	1983 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.654	-20.5059	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.675 116.5473	-20.5178 -20.5379	0 1977
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6169	-20.4441	1991
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.7768	-20.5405	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.4444 116.5479	-20.6572 -20.5379	1983 1978
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6225	-20.4697	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6225	-20.4697	1994
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6225 116.5389	-20.4697 -20.5356	1984 1994
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5389	-20.5356	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.5389	-20.5356	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.5389 116.5381	-20.5356 -20.4778	1984 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5381	-20.4778	1983
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus	wedge-tailed shearwater	BIRD BIRD	IA IA	116.5381 116.6283	-20.4778 -20.4564	1984 1990
Puffinus pacificus	Procellariidae Procellariidae	Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.675	-20.4564 -20.5178	1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.675	-20.5178	1982
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.675 116.675	-20.5178 -20.5178	1984 1983
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5389	-20.5356	1992
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA IA	116.5389	-20.5356	1978 1990
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.8056 116.7768	-20.3858 -20.5405	1990 1990
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6225	-20.4697	1990
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.5389 116.5381	-20.5356 -20.4778	1990 1990
Puffinus pacificus Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.5381	-20.4778 -20.4564	1990
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.8806	-20.3881	1990
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.675 116.5079	-20.5178 -20.4995	1990 1990
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.5079	-20.4995 -20.5405	1990
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.654	-20.5059	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6225 116.6796	-20.4697 -20.5419	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6283	-20.4564	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.4444	-20.6572	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD	IA IA	116.675 116.5389	-20.5178 -20.5356	1984 1984
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.8806	-20.3881	1990
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.6169	-20.4441	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.8056 116.7768	-20.3858 -20.5405	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.4444	-20.6572	0
Puffinus pacificus	Procellariidae Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA IA	116.5479	-20.5379	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6225 116.5327	-20.4697 -20.5428	0
Puffinus pacificus	Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA	116.5389	-20.5356	0
Puffinus pacificus	Procellariidae Procellariidae	Puffinus	pacificus	wedge-tailed shearwater	BIRD	IA IA	116.5381	-20.4778	0
Puffinus pacificus Puffinus pacificus	Procellariidae Procellariidae	Puffinus Puffinus	pacificus pacificus	wedge-tailed shearwater wedge-tailed shearwater	BIRD BIRD	IA IA	116.6283 116.675	-20.4564 -20.5178	0

APPENDIX E: ATLAS OF LIVING AUSTRALIA 10 KM BUFFER DATABASE SEARCH RESULTS

• Appendix_X_Atlas of Living Australia Database Search (10km Search)

Species	Naturalised	Conservation Code	Endemic To Query Area
Amphibian			
Cyclorana maini			
Litoria rubella			
Bird			
Acrocephalus australis			
Acrocephalus australis			
Actitis hypoleucos			
Aegotheles cristatus			
Anhinga novaehollandiae			
Anous stolidus			
Anthus novaeseelandiae			
Apus pacificus			
Aquila audax			
Ardea modesta			
Ardenna pacifica			
Ardeotis australis			
Arenaria interpres			
Artamus minor			
Artamus cinereus			
Artamus leucorynchus			
Burhinus grallarius			
Butorides striatus			
Cacatua sanguinea			

Cacomantis pallidus		
Calidris acuminata		
Centropus phasianinus		
Charadrius ruficapillus		
Chroicocephalus novaehollandiae		
Chrysococcyx basalis		
Cincloramphus cruralis		
Circus assimilis		
Columba livia	Y	
Coracina novaehollandiae		
Corvus bennetti		
Corvus orru		
Cracticus nigrogularis		
Egretta garzetta		
Egretta novaehollandiae		
Egretta sacra		
Elanus axillaris		
Elseyornis melanops		
Emblema pictum		
Eolophus roseicapillus		
Ephippiorhynchus asiaticus		
Epthianura tricolor		
Erythrogonys cinctus		
Esacus magnirostris		
Falco berigora		
Falco cenchroides		

Falco longipennis		
Falco peregrinus		
Fregata ariel		
Gallirallus philippensis		
Gavicalis virescens		
Gelochelidon nilotica		
Geopelia cuneata		
Geopelia humeralis		
Geopelia striata		
Geophaps plumifera		
Gerygone tenebrosa		
Glareola maldivarum		
Grallina cyanoleuca		
Haematopus fuliginosus		
Haematopus longirostris		
Haematopus ostralegus		
Haliaeetus leucogaster		
Haliastur indus		
Haliastur sphenurus		
Hieraaetus morphnoides		
Himantopus himantopus		
Hirundo neoxena		
Hydroprogne caspia		
Lalage sueurii		
Lichmera indistincta		
Limosa lapponica		

Melopsittacus undulatus Merops ornatus Milvus migrans Mirafra javanica Neochmia ruficauda Neopsephotus bourkii Numenius madagascariensis Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Passer montanus Petrochelidon ariel Petrochelidon nigricans Phalacrocorax sulcirostris	Malurus leucopterus		
Merops ornatus Milvus migrans Mirafra javanica Neochmia ruficauda Neopsephotus bourkii Numenius madagascariensis Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon nigricans	Manorina flavigula		
Milvus migrans Mirafra javanica Neochmia ruficauda Neopsephotus bourkii Numenius madagascariensis Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Parser domesticus Y Passer montanus Y Pelecanus conspicillatus Petrochelidon nigricans	Melopsittacus undulatus		
Mirafra javanica Neochmia ruficauda Neopsephotus bourkii Numenius madagascariensis Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon nigricans	Merops ornatus		
Neochmia ruficauda Neopsephotus bourkii Numenius madagascariensis Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon nigricans	Milvus migrans		
Neopsephotus bourkii Numenius madagascariensis Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Passer montanus Y Pelecanus conspicillatus Petrochelidon nigricans	Mirafra javanica		
Numenius madagascariensis Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Passer montanus Petrochelidon ariel Petrochelidon nigricans	Neochmia ruficauda		
Numenius minutus Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon nigricans	Neopsephotus bourkii		
Numenius phaeopus Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Numenius madagascariensis		
Nymphicus hollandicus Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Numenius minutus		
Oceanites oceanicus Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Numenius phaeopus		
Ocyphaps lophotes Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Nymphicus hollandicus		
Pachycephala lanioides Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Passer montanus Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Oceanites oceanicus		
Pachycephala melanura Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Passer montanus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Ocyphaps lophotes		
Pachycephala rufiventris Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Passer montanus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Pachycephala lanioides		
Pandion cristatus Pardalotus rubricatus Pardalotus striatus Passer domesticus Y Passer montanus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Pachycephala melanura		
Pardalotus rubricatus Pardalotus striatus Passer domesticus Passer montanus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Pachycephala rufiventris		
Pardalotus striatus Passer domesticus Y Passer montanus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Pandion cristatus		
Passer domesticus Passer montanus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Pardalotus rubricatus		
Passer montanus Y Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Pardalotus striatus		
Pelecanus conspicillatus Petrochelidon ariel Petrochelidon nigricans	Passer domesticus	Y	
Petrochelidon ariel Petrochelidon nigricans	Passer montanus	Y	
Petrochelidon nigricans	Pelecanus conspicillatus		
	Petrochelidon ariel		
Phalacrocorax sulcirostris	Petrochelidon nigricans		
	Phalacrocorax sulcirostris		

Phalacrocorax varius		
Phaps chalcoptera		
Podargus strigoides		
Ptilonorhynchus guttatus		
Ptilotula keartlandi		
Ptilotula penicillata		
Rhipidura leucophrys		
Rhipidura phasiana		
Smicrornis brevirostris		
Sterna dougallii		
Sterna hirundo		
Sula leucogaster		
Taeniopygia guttata		
Thalasseus bengalensis		
Thalasseus bergii		
Threskiornis spinicollis		
Todiramphus chloris		
Todiramphus pyrrhopygius		
Todiramphus sanctus		
Tringa brevipes		
Tringa totanus		
Tringanebularia		
Turnix velox		
Tyto javanica		
Xenus cinereus		
Zosterops luteus		
Mammal		

Felis catus	Y	
Nyctophilus geoffroyi		
Osphranter robustus		
Pseudantechinus roryi		
Pseudantechinus woolleyae		
Pseudomys delicatulus		
Pseudomys hermannsburgensis		
Rattus rattus	Y	
Taphozous georgianus		
Vespadelus finlaysoni		
Vulpes vulpes	Y	
Zyzomys argurus		
Reptile		<u>l</u>
Acanthophis wellsei		
Anilios ammodytes		
Anilios grypus		
Antaresia perthensis		
Antaresia stimsoni		
Aspidites melanocephalus		
Carlia triacantha		
Crenadactylus horni		
Cryptoblepharus buchananii		
Cryptoblepharus ustulatus		
Ctenophorus caudicinctus		
Ctenophorus isolepis		
Ctenotus inornatus		
Ctenotus pantherinus		

Ctenotus rubicundus		
Ctenotus serventyi		
Cyclodomorphus melanops		
Delma pax		
Delma tincta		
Demansia rufescens		
Diplodactylus conspicillatus		
Diplodactylus galaxias		
Egernia pilbarensis		
Ephalophis greyi		
Eremiascincus isolepis		
Fordonia leucobalia		
Furina ornata		
Gehyra punctata		
Gehyra variegata		
Gowidon longirostris		
Hemidactylus frenatus	Y	
Heteronotia binoei		
Lerista bipes		
Lerista clara		
Lerista jacksoni		
Lerista muelleri		
Lialis burtonis		
Menetia greyii		
Menetia surda		
Morethia ruficauda		

Notoscincus ornatus		
Oedura fimbria		
Oedura marmorata		
Pseudechis australis		
Pseudonaja mengdeni		
Strophurus ciliaris		
Strophurus elderi		
Suta punctata		
Varanus eremius		
Varanus gouldii		

APPENDIX F: NATUREMAP DATABASE SEARCH (10 KM BUFFER)						

Species	Naturalised	Conservation Code	Endemic To Query Area
Amphibian			
Cyclorana australis			
Cyclorana maini			
Litoria rubella			
Notaden nichollsi			
Bird			
Actitis hypoleucos		IA	
Aegotheles cristatus			
Anous stolidus subsp. Pileatus		IA	
Arenaria interpres		IA	
Artamus cinereus			
Artamus leucorynchus			
Artamus leucorynchus subsp.			
leucopygialis			
Artamus minor			
Burhinus grallarius			
Butorides striata			
Cacatua sanguinea			
Cacomantis pallidus			
Centropus phasianinus			
Charadrius leschenaultii		IA	
Charadrius ruficapillus			
Chroicocephalus novaehollandiae			
Coracina novaehollandiae			

Cracticus nigrogularis		
Dromaius novaehollandiae		
Elseyornis melanops		
Emblema pictum		
Eolophus roseicapillus		
Esacus magnirostris		
Falco berigora		
Falco cenchroides		
Falco peregrinus	S	
Gelochelidon nilotica	IA	
Geopelia cuneata		
Geopelia humeralis		
Geopelia striata		
Geophaps plumifera		
Gerygone tenebrosa		
Grallina cyanoleuca		
Haematopus fuliginosus		
Haematopus longirostris		
Haliaeetus leucogaster		
Haliastur indus		
Haliastur sphenurus		
Hirundo neoxena		
Larus novaehollandiae		
Lichmera indistincta		
Limosa lapponica	IA	
Manorina flavigula		

Molonsittasus undulatus		
Melopsittacus undulatus		
Merops ornatus		
Milvus migrans		
Numenius madagascariensis	Т	
Numenius phaeopus	IA	
Ocyphaps lophotes		
Pandion cristatus	IA	
Pardalotus rubricatus subsp.		
Rubricatus		
Pardalotus striatus		
Petrochelidon ariel		
Petrochelidon nigricans		
Phalacrocorax varius		
Pitta moluccensis		
Podargus strigoides		
Podargus strigoides subsp.		
brachypterus		
Ptilonorhynchus guttatus		
Rhipidura leucophrys		
Taeniopygia guttata		
Thalasseus bengalensis		
Thalasseus bergii	IA	
Todiramphus pyrrhopygius		
Todiramphus sanctus		
Tringa brevipes	P4	
Tringa nebularia		
Zosterops luteus		
Mammal		

Canis familiaris Dasyurus hallucatus T Felis catus Macroderma gigas Macropus robustus Macropus robustus subsp. erubescens Macropus rufus Megaptera novaeangliae S Mormopterus (Ozimops) cobourgianus Ningaui timealeyi Petrogale rothschildi Planigale sp. nov. Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis Pteropus alecto	
Felis catus Macroderma gigas Macropus robustus Macropus robustus subsp. erubescens Macropus rufus Megaptera novaeangliae Mormopterus (Ozimops) cobourgianus Ningaui timealeyi Petrogale rothschildi Planigale sp. nov. Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	
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Mormopterus (Ozimops) cobourgianus Ningaui timealeyi Petrogale rothschildi Planigale sp. nov. Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	
Cobourgianus Ningaui timealeyi Petrogale rothschildi Planigale sp. nov. Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	
Ningaui timealeyi Petrogale rothschildi Planigale sp. nov. Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	
Petrogale rothschildi Planigale sp. nov. Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	ļ
Planigale sp. nov. Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	
Pseudantechinus roryi Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	
Pseudomys chapmani Pseudomys delicatulus Pseudomys hermannsburgensis	
Pseudomys delicatulus Pseudomys hermannsburgensis	
Pseudomys hermannsburgensis	
Pteropus alecto	
Tachyglossus aculeatus	
Vulpes vulpes	
Reptile	
Acanthophis wellsei	
Acanthophis wellsi	
Antaresia perthensis	
Antaresia stimsoni	
Antaresia stimsoni subsp. stimsoni	
Aspidites melanocephalus	

Carlia triacantha Chelonia mydas Crenadactylus ocellatus subsp. horni Cryptoblepharus buchananii	T	
Crenadactylus ocellatus subsp. horni Cryptoblepharus buchananii	Т	
Cryptoblepharus buchananii		
Countable de manda de contrato		
Cryptoblepharus plagiocephalus		
Cryptoblepharus ustulatus		
Ctenophorus caudicinctus subsp. caudicinctus		
Ctenotus leonhardii		
Ctenotus pantherinus subsp. ocellifer		
Ctenotus rubicundus		
Ctenotus saxatilis		
Ctenotus serventyi		
Cyclodomorphus melanops		
Cyclodomorphus melanops subsp. melanops		
Delma pax		
Demansia psammophis		
Demansia rufescens		
Diplodactylus conspicillatus		
Diplodactylus galaxias		
Diplodactylus savagei		
Ephalophis greyae		
Eremiascincus isolepis		
Eretmochelys imbricata subsp. bissa	Т	
Fordonia leucobalia		

Furina ornata			
Cobura nunctata			
Gehyra punctata			
Gehyra variegata			
Hemidactylus frenatus	Υ		
Heteronotia binoei			
Lerista bipes			
Lerista jacksoni			
Lerista muelleri			
Lialis burtonis			
Liasis olivaceus subsp. barroni		Т	
Lucasium stenodactylum			
Menetia greyii			
Menetia surda subsp. surda			
Morethia ruficauda subsp. exquisita			
Natator depressus		Т	
Notoscincus ornatus subsp. ornatus			
Oedura marmorata			
Pogona minor subsp. Minor			
Pseudechis australis			
Pseudonaja mengdeni			
Pseudonaja nuchalis			
Strophurus elderi			
Suta punctata			
Varanus acanthurus			
Varanus eremius			
Varanus giganteus			
	1	1	1

Varanus gouldii		
Varanus panoptes subsp. rubidus		
Varanus pilbarensis		
Varanus tristis subsp. tristis		

AIZOACEAE Trianthema portulacastrum

Trianthema turgidifolium

Aerva javanica

AMARANTHACEAE

Amaranthus undulatus

Gomphrena cunninghamii

Ptilotus nobilis

Ptilotus obovatus

APOCYNACEAE Cynanchum floribundum

ARALIACEAE Trachymene oleracea

Trachymene oleracea subsp. oleracea

ASTERACEAE Angianthus milnei

Bidens bipinnata

Conyza bonariensis

Pluchea rubelliflora

Pterocaulon sphaeranthoides

Sonchus oleraceus

Tridax procumbens

BORAGINACEAE Ehretia saligna var. saligna

BRASSICACEAE Lepidium pedicellosum

CAPPARACEAE Capparis spinosa subsp. nummularia

CELASTRACEAE Stackhousia clementii

CHENOPODIACEAE Neobassia astrocarpa

Rhagodia preissii subsp. obovata

Tecticornia halocnemoides

Tecticornia indica subsp. indica

CLEOMACEAE Cleome viscosa

COMBRETACEAE Terminalia supranitifolia

COMMELINACEAE Commelina ensifolia

CONVOLVULACEAE Bonamia pilbarensis

Evolvulus alsinoides var. villosicalyx

Ipomoea costata

CUCURBITACEAE Cucumis variabilis

CYPERACEAE Cyperus bifax

Cyperus blakeanus

Cyperus bulbosus

Cyperus vaginatus

Eleocharis geniculata

Fimbristylis dichotoma

Schoenoplectus subulatus

EUPHORBIACEAE Euphorbia australis

Euphorbia australis var. subtomentosa

Euphorbia biconvexa

Euphorbia careyi

Euphorbia tannensis subsp. Eremophila

Euphorbia trigonosperma

Euphorbia vaccaria

FABACEAE Acacia arida

Acacia colei var. colei

Acacia coriacea

Acacia coriacea subsp. coriacea

Acacia pyrifolia var. pyrifolia

Clitoria ternatea

Dichrostachys spicata

Indigofera monophylla

Leucaena leucocephala

Rhynchosia australis

Rhynchosia bungarensis

Rhynchosia minima

Stylosanthes hamata

Swainsona pterostylis

Tephrosia clementii

Tephrosia sp.

Tephrosia supina

Vigna triodiophila

GENTIANACEAE Centaurium erythraea

GOODENIACEAE Goodenia lamprosperma

Scaevola spinescens

LAMIACEAE Clerodendrum tomentosum

Clerodendrum tomentosum var. lanceolatum

LAURACEAE Cassytha capillaris

LYTHRACEAE Lawsonia inermis

MALVACEAE Abutilon fraseri

Brachychiton acuminatus

Corchorus elachocarpus

Corchorus trilocularis

Corchorus walcottii

Hibiscus sturtii

Malvastrum americanum

Sida fibulifera

Triumfetta appendiculata

MOLLUGINACEAE Trigastrotheca molluginea

MORACEAE Ficus aculeata var. indecora

MYRTACEAE Corymbia opaca

Eucalyptus victrix

NYCTAGINACEAE Boerhavia coccinea

Boerhavia gardneri

OLEACEAE Jasminum didymum subsp. Lineare

PASSIFLORACEAE Passiflora foetida

PHYLLANTHACEAE Flueggea virosa subsp. melanthesoides

PITTOSPORACEAE Pittosporum phillyreoides

PLANTAGINACEAE Stemodia grossa

POACEAE Aristida contorta

Cenchrus ciliaris

Cenchrus setaceus

Cenchrus setiger

Chrysopogon fallax

Cymbopogon ambiguus

Dactyloctenium radulans

Digitaria ctenantha

Enneapogon caerulescens

Enneapogon lindleyanus

Eriachne tenuiculmis

Paspalidium tabulatum

Sporobolus australasicus

Themeda sp.

Themeda triandra

Triodia angusta

Triodia epactia

	Triodia wiseana
	Whiteochloa airoides
PROTEACEAE	Grevillea pyramidalis subsp. pyramidalis
	Hakea lorea subsp. lorea
RHIZOPHORACEAE	Ceriops australis
	Rhizophora stylosa
SOLANACEAE	Physalis angulata
	Solanum horridum
	Solanum lasiophyllum
	Solanum nigrum
VIOLACEAE	Hybanthus aurantiacus
ZYGOPHYLLACEAE	Tribulus terrestris

Pre and Post-Wet Season Biological Survey Perdaman Urea Plant
APPENDIX G: SURVEY SITE DETAILS

Site	1	Soil Type	Sandy clay loam	
Date	19/11/18 & 11/05/19	Soil Colour	Brown	
Aspect	WSW	Landform	Shallow gully	
Seasonal Condition	Dry and Wet season	Rock Type	Granite	
Fire Age	No evidence	Rock Cover	90	
Vegetation Code	AbHITe	Surface Rock Size and Shape	0.2 – 0.5L blocky angular to weathered smooth	
Vegetation Association	Tall shrubland of <i>Acacia bi</i> over open shrubland of <i>Ho</i> <i>lorea</i> , <i>Acacia colei</i> over hu grassland of <i>Triodia epacti</i> herbland.			
Condition	No Disturbances			
Site	2 Soil Type Sandy clay loam			
Date	19/11/18 & 11/05/19	Soil Colour	Brown	
Aspect	S	Landform	Undulating mid slope	
Seasonal Condition	Dry and Wet season	Rock Type	Granite	
Fire Age	No evidence	Rock Cover	90	
Vegetation Code	TeAb	TeAb Surface Rock Size and Shape		
Vegetation Association	Triodia epactia (Burrup Form) hummock grassland with scattered Acacia bivenosa shrubs			
Condition	Spinifex and shrubs. Culvert leakage caused some vegetation death			
Site	3	Soil Type	Sandy clay loam	
Date	19/11/18 & 11/05/19	Soil Colour	Brown	
Aspect	Flat	Landform	Rocky outcrop	
Seasonal Condition	Dry and wet season	Rock Type	90	
Fire Age	No evidence	Rock Cover	N/A	
Vegetation Code	BaAclc	Surface Rock Size and Shape	Blocky 0.5 m - 1 m ³	

Vegetation Association	Open low woodland of Brachychiton acuminatus over mixed shrubland of Acacia coriacea, Scaevola spinescens, Ipomoea costata over herbs and very open grassland of Triodia epactia with Cymbopogon ambiguus and Paspalidium clementii			
Condition	No disturbances			
Site	4	Soil Type		Sandy clay loam
Date	19/11/18 & 11/05/19	Soil Color	ur	Brown
Aspect	S	Landform	1	Shallow gully to incised channel
Seasonal Condition	Dry and wet season	Rock Typ	e	Granite
Fire Age	No evidence	Rock Cover		65
Vegetation Code	ChAbSg	Surface Rock Size		Large - medium
Vegetation Association	Corymbia hamersleyana low open woodland over Acacia bivenosa high open shrubland over Dichrostachys spicata scattered shrubs over Stemodia grossa low shrubland to low open heath over Triodia epactia (Burrup Form) hummock grassland			
Condition	Spinifex and shrubs. Culve	rt leakage	caused some vegetation death	
Site	5	Soil Type		Sandy clay loam
Date	19/11/18 & 11/05/19	Soil Color	ur	Brown
Aspect	S	Landform		Lowers slopes / flats
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cover		50
Vegetation Code	AbImTe	Surface R and Shap		0.2 – 0.5L blocky angular to weathered smooth
Vegetation Association	Acacia bivenosa high open shrubland to high shrubland over Indigofera monophylla scattered low shrubs to low open shrubland over Triodia epactia hummock grassland to closed hummock grassland			

	Large dead area in the mid	dda likaly (culvert leaka	to caused vegetation
Condition	death	duie, likely (cuiveit ieakag	ge caused vegetation
Site	6 Soil Type		Sandy clay	
Date	19/11/18 & 11/05/19	Soil Colou	r	Brown
Aspect	S			Lowers slopes / flats with low boulder outcrops
Seasonal Condition	Dry and wet season	Rock Type	:	Granite
Fire Age	No evidence	Rock Cove	er	80
Vegetation Code	AbTa	Surface Ro and Shape		small rocks and boulders
Vegetation Association	Acacia bivenosa high open shrubs over Triodia angusta (Burrup Form) hummock grassland			
Condition	No disturbances			
Site	7 Soil Type Sand			
Date	19/11/18 & 11/05/19 Soil Colour		Light brown	
Aspect	S Landform		Riparian salty mudflat margin	
Seasonal Condition	Dry and wet season	Rock Type		Bluestone gravel
Fire Age	No evidence Rock Cover		90	
Vegetation Code	ThtTil Surface Rock Size and Shape		Bluestone gravel	
Vegetation Association	Dwarf open shrubland to heath (varies 2-10% to 20-40%) of Tecticornia halocnemoides with Tecticornia indica			
Condition	15% weed coverage. Vehicle tracks have dissected the vegetation and road building gravel has spilled onto it			
Site	8	Soil Type		Sand
Date	19/11/18 and 11/05/19	Soil Colou	ır	Light brown
Aspect	Flat	Landform	1	Riparian sand bank
Seasonal Condition	Dry and wet season	Rock Type	e	No rocks
Fire Age	No evidence	Rock Cov	er	0
Vegetation Code	(Te)Sv	Surface Rock Size		N/A

Vegetation Association	Grassland of Sporobolous virginicus, Eriachne mucronata and Paspalidium tabulatum (30-70%) with scattered Triodia epactia. *Cenchrus ciliaris and *Aerva javanica are common in wet season.			
Condition	No disturbances			
Site	9	Soil Type		Sandy clay loam
Date	19/11/18 & 13/05/19	Soil Colou	ır	Light brown
Aspect	N	Landform	1	Lower slopes
Seasonal Condition	Dry and wet season	Rock Type	e	Laterite and granite
Fire Age	No evidence	Rock Cov	er	40% gravel, 40% rock
Vegetation Code	AbTe*Cc	Surface R and Shap		2-20 cm
Vegetation Association	Previously disturbed and rehabilitated. <i>Acacia bivenosa</i> tall shrubland (30-70%, 2.5m) over Hummock Grassland of <i>Triodia epactia</i> (30-70%) with * <i>Cenchrus ciliaris</i>			
Condition	Previously disturbed and rehabilitated.			
Site	10	Soil Type		Loam
Date	19/11/18 & 13/05/19	Soil Colou	ır	Brown
Aspect	Flat	Landform		Rocky outcrop running north - south
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cov	er	100
Vegetation Code	FbBaTsSc	Surface R and Shap		Blocky 0.5 m - 1m ³
Vegetation Association	Open low woodland of Ficus brachypoda, Brachychiton acuminatus, Terminalia supranitifolia over mixed shrubland of Acacia coriacea, Scaevola spinescens, Rhagodia preissii subspobovate over open Cymbopogon ambiguus with Triodia epactia			
Condition	No disturbances			
Site	11	Soil Type		N/A
Date	20/11/18 & 12/11/19	Soil Colou	ır	N/A

	T		Daalii autara			
Aspect	Flat	Landform	Rocky outcrop running south-west			
Seasonal Condition	Dry and wet season	Rock Type	Granite			
Fire Age	No evidence	Rock Cover	100			
Vegetation Code	FbBaTsSc	Surface Rock Size and Shape	Large boulders			
	Open low woodland of Fig	•	:hiton acuminatus.			
Vegetation	Terminalia supranitifolia c	• • • • • • • • • • • • • • • • • • • •				
Association		godia preissii subsp obovate over open				
	Cymbopogon ambiguus w	ith <i>Triodia epactia</i>				
Condition	No disturbances		1			
Site	12	Soil Type	Sandy clay loam			
Date	20/11/18 & 12/05/19	Soil Colour	Brown			
Aspect	N	Landform	Lower slopes			
Seasonal Condition	Dry and wet season	Rock Type	Granite			
Fire Age	No evidence	Rock Cover	90			
Variation Code	TaTh	Surface Rock Size	Blocky – rounded, 0.2			
Vegetation Code	TeTh	and Shape	m -0.5 m ³			
Vegetation Association Condition	Triodia epactia, Themeda hummock/tussock grassla Garden waste pile in track	nd				
Site	13		N/A			
		Soil Type	·			
Date	20/11/18 & 12/05/19	Soil Colour	N/A			
Aspect	Flat	Landform	Rocky outcrop in south-west			
Seasonal Condition	Dry and wet season	Rock Type	Granite			
Fire Age	No evidence	Rock Cover	100			
Vegetation Code	FbBaTsSc	Surface Rock Size and Shape	Blocky – rounded, 0.2 m -0.5 m ³			
	Open low woodland of Fic	• • • • • • • • • • • • • • • • • • • •				
Vegetation	Terminalia supranitifolia over mixed shrubland of Acacia coriacea,					
Association	Scaevola spinescens, Rhagodia preissii subsp obovate over open					
Condition	Cymbopogon ambiguus with Triodia epactia					
Site	No disturbances 14	Soil Type Sandy clay loam				
Date	20/11/18 & 12/05/19	Soil Colour	Brown			
Aspect	N	Landform	Mid slopes/flats near drainage			
Seasonal Condition	Dry and wet season	Rock Type	Granite			
Fire Age	< 2 years	Rock Cover	70			

Vegetation Code	AbCgTe	Surface Ro		Small rocks
Vegetation Association	Acacia bivenosa, Cassia glutinosa open shrubland to shrubland over Triodia epactia (Burrup Form), *Cenchrus ciliaris grassland			
Condition	Acacia regrowth post fire			
Site	15	Soil Type		Sandy loam
Date	20/11/18 & 12/05/19	Soil Colou	ır	Brown
Aspect	N	Landform		Lower slopes/plains at bottom of rocky hills
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cover		70
Vegetation Code	GpCwTe	Surface Rock Size and Shape		0.2 - 0.5L blocky angular to weathered smooth
Vegetation Association	Grevillea pyramidalis subsp. pyramidalis open heath over Corchorus walcottii scattered low shrubs to low open heath over Triodia epactia (Burrup Form) hummock grassland			
Condition	No disturbance. Adjacent to camp area			
Site	16	Soil Type		Sandy loam
Date	20/11/18 & 12/05/19	Soil Colour		Brown
Aspect	N	Landform		Lower slopes/plains at bottom of rocky hills
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cove	er	70
Vegetation Code	EvDsTa	Surface Rock Size and Shape		0.2 - 0.5L blocky angular to weathered smooth

Vegetation Association	Eucalyptus victrix scattered trees to low open woodla Dichrostachys spicata, (Accoriaceae subsp. coriaceae scattered shrubs to low of shrubland over Triodia and hummock grassland	nd over cacia e) tall pen		
Condition	Small amount of *Cc			
Site	17	Soil Type		Sandy clay loam
Date	20/11/18 & 12/05/19	Soil Colou		Brown
Aspect	N	Landform		Lower slopes
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cove		60
Vegetation Code	TaTsRm	Surface Roand Shape		Mostly rounded. 0.2 - 2L
Vegetation Association	Triodia angusta, Triodia epactia grassland with Tephrosia supina herbland and Rhyncosia minima lianes			
Condition	Immediately adjacent to o	disturbed ri	pped rehab a	rea
Site	18	Soil Type		Sandy clay loam
Date	20/11/18 & 12/05/19	Soil Colour		Brown
Aspect	N	Landform		Lower slopes
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cove		40
Vegetation Code	TcEtSe	Surface Roand Shape		Mostly rounded. 0.2 - 2L
Vegetation Association	Terminalia canescens low woodland over Eriachne tenuiculmis, Triodia epactia grassland/hummock grassland with Sesbania cannabina herbland			
Condition	Shrubs and trees coated in thick dust			
Site	19 Soil Type		Sandy clay loam	
Date	20/11/18 & 12/05/19	Soil Colou	r	Brown

	T	T		
Aspect	N	Landform	Lower slopes/transition to flats	
Seasonal Condition	Dry and wet season	Rock Type	Granite	
Fire Age	No evidence	Rock Cover	0	
Vegetation Code	Ev*CcTe	Surface Rock Size and Shape	N/A	
Vegetation Association	Eucalyptus victrix over Pit phylliraeoides var. phyllira Rhagodia eremaea over * ciliaris / Triodia epactia	aeoides /	A Para	
Condition	Some clearing of understory and ground cover.			
Site	20	Soil Type	Sandy clay loam	
Date	20/11/18 & 12/05/19	Soil Colour	Brown	
Aspect	N	Landform	Lower slopes - plain	
Seasonal Condition	Dry and wet Season	Rock Type	Granite	
Fire Age	< 2 years	Rock Cover	60	
Vegetation Code	ChImTe	Surface Rock Size and Shape	Rounded 0.2 - 0.5L	
Vegetation Association	Corymbia hamersleyana scattered low trees to low open woodland over (Acacia bivenosa, Acacia coriaceae subsp. coriaceae) scattered tall shrubs over (Dichrostachys spicata) scattered shrubs over Indigofera monophylla			
Condition	One large Ch. Mostly small coppiced. Limited Te regrowth			
Site	21	Soil Type	Clay loam	
Date	20/11/18 & 13/05/19	Soil Colour	Brown	
Aspect	W	Landform	Rocky outcrop, slope	
Seasonal Condition	Dry and wet Season	Rock Type	Granite	
Fire Age	No evidence	Rock Cover	100	
Vegetation Code	BaAcIc	Surface Rock Size and Shape	Blocky rectangular 0.2 - 2 m ³	

	Open low woodland of			*
	Brachychiton acuminatus over			
	mixed shrubland of Acacia			
.,	coriacea, Scaevola spines			
Vegetation	Ipomoea costata over her			
Association	very open grassland of Tri			
	epactia with Cymbopogor			
	ambiguus and Paspalidiui	n		
	clementii			A BASE TO THE STATE OF THE STAT
Condition	N/A	1		<u> </u>
Site	22	Soil Type		Loam
Date	20/11/18 & 13/05/19	Soil Colou	ır	Brown
Aspect	Flat	Landform		Island inside creek
				bend. Accumulated silt
Seasonal Condition	Dry and wet Season	Rock Type		No rocks
Fire Age	No evidence	Rock Cove		0
Vegetation Code	EvAa	Surface R		N/A
_		and Shape	e T	
	Frankintus vietnis less va	ام ما ام		
	Eucalyptus victrix low woodland over Acacia ampliceps open heath			
Vegetation	over Cyperus vaginatus, Eriachne			
Association	tenuiculmis, Triodia angusta			
	(Burrup form) sedgeland and			
	tussock/hummock grassland			
Condition	Extensive passion vine we	ed cover E	leavy animal	traffic flow
Site	23	Soil Type		Sandy clay loam
Date	20/11/18 & 13/05/19	Soil Colou	ır	Light brown
Aspect	W / NW	Landform		Incised creek channel
Seasonal Condition	Dry and wet Season	Rock Type		Granite
Fire Age	No evidence	Rock Cove		15
		Surface R		
Vegetation Code	EvAbTa	and Shape		Small rocks
		,		
Vegetation	Eucalyptus victrix over Ac	acia		
Association	bivenosa over Triodia angusta (Burrup Form)			
Condition	passion vine weed cover.	Heavy anim	nal traffic flo	N
Site	24	Soil Type		Loam
Date	20/11/2018	Soil Colour		Brown
Aspect	NE	Landform		Rocky outcrop
		Landioiiii		

Seasonal Condition	Dry Season	Rock Type		Granite
Fire Age	No evidence	Rock Cover		100
Vegetation Code	BaAcIc	Surface Rock Size and Shape		Large blocky rock, infill areas with soil, 0.25 - 2 m³, infill 0.5 - 2L
Vegetation Association	Brachychiton acuminatus Acacia coriacea / Scaevolo spinescens / Ipomoea cos herbs / Triodia epactia / Cymbopogon ambiguus / Paspalidium clementii			
Condition	No disturbances			
Site	25	Soil Type		Clay loam
Date	21/11/2018	Soil Colou	r	Brown
Aspect	S/W	Landform		Upper slopes over a crest
Seasonal Condition	Dry Season	Rock Type		Granite
Fire Age	No evidence	Rock Cover		95
Vegetation Code	TeRm	Surface Rock Size and Shape		Block 2-250L
Vegetation Association	Triodia epactia hummock with Rhynchosia minima l	_		
Condition	Noise and light from processing plant			
Site	26	Soil Type		N/A
Date	21/11/2018	Soil Colou	r	N/A
Aspect	W	Landform		Rocky outcrop
Seasonal Condition	Dry season	Rock Type		Granite
Fire Age	No evidence	Rock Cove		100
Vegetation Code	BaAcIc	Surface Ro and Shape		Blocky 2L - 1.5m³
Vegetation Association	Open low woodland of Brachychiton acuminatus mixed shrubland of Acacic coriacea, Scaevola spinese Ipomoea costata over her very open grassland of Truepactia with Cymbopogor ambiguus and Paspalidium clementii	a cens, bs and iodia		

Condition	No disturbances			
Site	27	Soil Type	Clay loam	
Date	21/11/2018	Soil Colour	Brown	
Aspect	E	Landform	Eastern lower slope below small rocky outcrop	
Seasonal Condition	Dry season	Rock Type	Granite	
Fire Age	No evidence	Rock Cover	100	
Vegetation Code	TeCa	Surface Rock Size and Shape	Blocky 2L - 50L	
Vegetation Association	Triodia epactia, Cymbop ambiguus hummock/tuss grassland			
Condition	No disturbances	1		
Site	28	Soil Type	Clay loam	
Date	21/11/18 & 13/05/19	Soil Colour	Brown	
Aspect	S	Landform	Lower slopes/plains	
Seasonal Condition	Dry and wet season	Rock Type	Granite	
Fire Age	No evidence	Rock Cover	85	
Vegetation Code	Tw	Surface Rock Size and Shape	Blocky 0.1 - 0.25L	
Vegetation Association	Triodia wiseana hummoo grasslands	ck		
Condition	N/A	T	Г	
Site	29	Soil Type	Sand - loamy sand	
Date	21/11/18 & 13/05/19	Soil Colour	Pale Brown	
Aspect	Flat	Landform	Sandbank 1m deep above mudflats	
Seasonal Condition	Dry and wet season	Rock Type	No rocks	
Fire Age	No evidence	Rock Cover	0	
Vegetation Code	(Te)Sv	Surface Rock Size and Shape	N/A	

	1			
Vegetation Association	Grassland of Sporobolous virginicus, Eriachne mucronata and Paspalidium tabulatum (30-70%) with scattered Triodia epactia. Evidence that *Cenchrus ciliaris and *Aerva javanica are common in wet season.			
Condition	Kapok cover high in wet	season		
Site	30	Soil Type		Clay loam
Date	21/11/18 & 12/05/19	Soil Colou	r	Brown
Aspect	N	Landform		lower plains drop into samphire. Lateritic cliffs infront of mudflats
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cove		90
Vegetation Code	AbTa	Surface Ro and Shape		Blocky 50 - 100 mL
Vegetation Association	Acacia bivenosa high open shrubs over Triodia angusta hummock grassland			
Condition	Clearing and rehab to so condition, coated in dust		to vegetatio	n. Vegetation in poor
Site	31	Soil Type		Sandy, shell rich
Date	21/11/18 & 12/05/19	Soil Colou	r	Pale brown/grey
Aspect	Flat	Landform		Lower slopes/ plain rehab
Seasonal Condition	Dry and wet season	Rock Type		No rocks
Fire Age	No evidence	Rock Cove	r	0
Vegetation Code	AbTe*Cc	Surface Ro and Shape		Many shells and old coral
Vegetation Association	Previously disturbed and rehabilitated. <i>Acacia bive</i> shrubland (30-70%, 2.5m Hummock Grassland of <i>Tepactia</i> (30-70%) with * <i>Cciliaris</i>	enosa tall n) over Triodia Genchrus	Pust coati	ng on shruhs
Condition	Rehabilitated area. Dens	e weea cove	er. Dust coati	ng on snrubs.

Site	32	Soil Type		Clay loam
Date	21/11/18 &12/05/19	Soil Colour	•	Brown
Aspect	N	Landform		Mid slopes
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cove	<u>,</u>	90
THE Age	No evidence	Surface Ro		Mostly rounded 0.25 -
Vegetation Code	ChImTe	and Shape		0.5L
Vegetation Association	Corymbia hamersleyana low trees to low open wo over (Acacia bivenosa, Ac coriaceae subsp. coriacea scattered tall shrubs over (Dichrostachys spicata) so shrubs over Indigofera m	scattered odland vacia ve)		
Condition	Weeds present			
Site	33	Soil Type		Sandy clay loam
Date	21/11/18 & 15/05/19	Soil Colour	•	Brown
Aspect	N	Landform		Mid slopes
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cove	r	85
Vegetation Code	TeTh	Surface Ro and Shape		00.25 - 25L
Vegetation Association	Triodia epactia, Themedo hummock/tussock grassl	da triandra		
Condition	Rehabilitated			
Site	34	Soil Type		Clay loam / sand
Date	21/11/18 & 13/05/19	Soil Colour	•	Brown / white
Aspect	N	Landform		Flats between lower slopes and mudflats
Seasonal Condition	Dry and wet season	Rock Type		Granite and calcareous
Fire Age	No evidence	Rock Cove	r	20
Vegetation Code	AbTe*Cc	Surface Rock Size and Shape		0.25 - 25L

Vegetation Association	Previously disturbed and rehabilitated. <i>Acacia bivenosa</i> tall shrubland (30-70%, 2.5m) over Hummock Grassland of <i>Triodia epactia</i> (30-70%) with * <i>Cenchrus ciliaris</i>			
Condition	Rehabilitated. *Cc. Some	e shrubs cov	ered in dust	
Site	35	Soil Type		Clay loam - cracking clays
Date	22/11/18 & 13/05/19	Soil Colou	r	Pinkish
Aspect	Mounds and Channels	Landform		Road building bunds and drainage channels
Seasonal Condition	Dry and wet season	Rock Type		No rocks
Fire Age	No evidence	Rock Cove		0
Vegetation Code	(Te)Sv	Surface Ro and Shape		N/A
Vegetation Association	Grassland of Sporobolous virginicus, Eriachne mucronata and Paspalidium tabulatum (30-70%) with scattered Triodia epactia. Evidence that *Cenchrus ciliaris and *Aerva javanica are common in wet season.			
Condition	Disturbed. Spontaneous	regeneratio	n	
Site	36	Soil Type		Loam
Date	22/11/18 & 12/05/19	Soil Colou	r	Brown
Aspect	N	Landform		Gully, approximately 25 m in the mid-slopes
Seasonal Condition	Dry and wet season	Rock Type	1	Granite
Fire Age	No evidence	Rock Cove		85
Vegetation Code	ChAbTe	Surface Ro		Mostly rounded 0.025 - 0.5L
Vegetation Association	Corymbia hamersleyana scattered trees to low open woodland over Acacia bivenosa open shrubland over Triodia epactia open to closed hummock grassland			
Condition	Vehicle tracks through ce	entre	·	
Site	37	Soil Type		Clay loam

Date	22/11/18 & 12/05/19	Soil Colour	•	Brown
Aspect	N	Landform		Lower slope
Seasonal Condition	Dry and wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cover		40
Vegetation Code	*CcTs	Surface Ro and Shape		0.2 - 2L
Vegetation Association	*Cenchrus ciliaris, (Triodi (Triodia angusta) grassland/hummock gras Tephrosia supina, Rhynco minima herbland	a epactia),		
Condition	Previously disturbed. We	eds present		
Site	38	Soil Type		Loamy sand - sandy loam
Date	22/11/18 & 12/05/19	Soil Colour	•	Brown - pale grey
Aspect	N	Landform		Mid slope
Seasonal Condition	Dry and wet Season	Rock Type		Granite and calcareous
Fire Age	No evidence	Rock Cover		20
Vegetation Code	ChTh	Surface Ro and Shape		0.02 - 0.05L
Vegetation Association	low trees to low woodlar Acacia bivenosa, Acacia o scattered tall shrubs to lo shrubland over Indigofer monophylla over Triodia Themeda triandra	orymbia hamersleyana scattered ow trees to low woodland over cacia bivenosa, Acacia colei, cattered tall shrubs to low open orubland over Indigofera conophylla over Triodia epactia,		
Condition	dead Acacia shrubs likely		n thick dust o	
Site	39	Soil Type		Clay loam
Date	22/11/18 & 13/05/19	Soil Colour	•	Brown
Aspect	S	Landform		Lower slope, undulating large rocks
Seasonal Condition	Dry and wet Season	Rock Type		Granite
Fire Age	No evidence	Rock Cove		100
Vegetation Code	AbHlCwTe	Surface Ro and Shape		0.25 - 1m³

Vegetation Association	High shrubland of Acacia bivenosa with scattered Hakea lorea, Dolichandrone heterophylla, Grevillea pyramidalis over hummock grassland of Triodia epactia with occasional Triodia angusta			
Condition	N/A	T		
Site	40	Soil Type		Clay loam
Date	22/11/18 & 15/05/19	Soil Colou	r	Brown
Aspect	S Landform			Lower slope, shallow drainage line
Seasonal Condition	Dry and Wet Season	Rock Type	!	Granite
Fire Age	No evidence	Rock Cove	r	80
Vegetation Code	AiGpTe	Surface Ro and Shape		0.2 - 1L
Vegetation Association	Tall shrubland of Acacia inaequilatera and Grevillea pyramidalis over hummock grassland of Triodia epactia (Burrup Form) over herbland of Gomphrena cunninghamii, Abutilon lepidum, Trichodesma zeylanicum, Trachymene oleracea			
Condition	No disturbances		I	

Site	41	Soil Type	Clay loam
Date	14/05/2019	Soil Colour	Brown
Aspect	south	Landform	Low rocky rise
Seasonal Condition	Wet season	Rock Type	Granite
Fire Age	No evidence	Rock Cover	90
Vegetation Code	TeRm	Surface Rock Size and Shape	blocky 2L to 50L
Vegetation Association	Triodia epactia hummock with Rhynchosia minima l	S. 16 T A.	
Condition	No Disturbances	<u>.</u>	

Site	42	Soil Type		Sand/shells
Date	15/05/2019	Soil Color		White
Aspect	north	Landform		Sandbank
Seasonal Condition	Wet season	Rock Type		No rocks
Fire Age	No signs of fire	Rock Cov		- IND TOCKS
riie Age	_	Surface R		-
Vegetation Code	ThtTil	and Shap		-
Vegetation Association	Dwarf open shrubland to h (varies 2-10% to 20-40%) of Tecticornia halocnemoides Tecticornia indica	of		
Condition	Buffel grass on the margins, evidence of land clearing and some evidence of ripping			ing for road building
Site	43	Soil Type		Sand
Date	15/05/2019	Soil Color	ır	White
Aspect	north	Landform		Mudflat margins
Seasonal Condition	Wet season	Rock Type		Granite
Fire Age	No evidence	Rock Cover		70
Vegetation Code	Tht	Surface R and Shap		Blocky 0.1 – 0.25 L
Vegetation Association	Dwarf scattered (<2%) to o 10% <0.5m) shrubland of Tecticornia halocnemoides	open (2-		
Condition	No disturbances			
Site	54	Soil Type		Sand
Date	15/05/2019	Soil Color	ır	White
Aspect	north	Landform	1	Mudflat margins
Seasonal Condition	Wet season	Rock Typ	e	Granite
Fire Age	No evidence	Rock Cov	er	70
Vegetation Code	Tht	Surface Rock Size and Shape		Blocky 0.1 – 0.25 L

Vegetation Association	Dwarf scattered (<2%) to open (2- 10% <0.5m) shrubland of Tecticornia halocnemoides			
Condition	No disturbances			
Site	45	Soil Type		Sand
Date	15/05/2019	Soil Colo	ur	White
Aspect	north	Landforn	1	Mudflat margins
Seasonal Condition	Wet season	Rock Typ	е	Granite
Fire Age	No evidence	Rock Cov		75
Vegetation Code	Tht	Surface R and Shap		Blocky 0.1 – 0.25 L
Vegetation	Dwarf scattered (<2%) to open (2- 10% <0.5m) shrubland of Tecticornia halocnemoides			
Association	·	S		
_	·	S		
Association	Tecticornia halocnemoide	Soil Type		Sand/shell
Association Condition Site Date	Tecticornia halocnemoide: No disturbances	Soil Type Soil Colou		White
Association Condition Site Date Aspect	No disturbances 46 15/05/2019	Soil Type Soil Colou Landform		White sandbank
Association Condition Site Date Aspect Seasonal Condition	No disturbances 46 15/05/2019 - Wet season	Soil Type Soil Colou Landform Rock Type	e	White
Association Condition Site Date Aspect	No disturbances 46 15/05/2019	Soil Type Soil Colou Landform Rock Type Rock Cove	e er	White sandbank
Association Condition Site Date Aspect Seasonal Condition	No disturbances 46 15/05/2019 - Wet season	Soil Type Soil Colou Landform Rock Type	e er ock Size	White sandbank
Association Condition Site Date Aspect Seasonal Condition Fire Age	No disturbances 46 15/05/2019 - Wet season No evidence	Soil Type Soil Colou Landform Rock Type Rock Cove Surface R and Shape and and 0-70%) actia. ciliaris	e er ock Size	White sandbank
Association Condition Site Date Aspect Seasonal Condition Fire Age Vegetation Code	No disturbances 46 15/05/2019 - Wet season No evidence (Te)Sv Grassland of Sporobolous virginicus, Eriachne mucro Paspalidium tabulatum (3 with scattered Triodia epot Evidence that *Cenchrus cand *Aerva javanica are control of the season	Soil Type Soil Colou Landform Rock Type Rock Cove Surface R and Shape anata and 0-70%) actia. ciliaris ommon	e er ock Size e	White sandbank No rock
Condition Site Date Aspect Seasonal Condition Fire Age Vegetation Code Vegetation Association	No disturbances 46 15/05/2019 - Wet season No evidence (Te)Sv Grassland of Sporobolous virginicus, Eriachne mucro Paspalidium tabulatum (3 with scattered Triodia epo Evidence that *Cenchrus cand *Aerva javanica are cain wet season.	Soil Type Soil Colou Landform Rock Type Rock Cove Surface R and Shape anata and 0-70%) actia. ciliaris ommon	e er ock Size e	White sandbank No rock

Aspect	S	Landform	Lower slopes/flats
Seasonal Condition	Wet season	Rock Type	Granite
Fire Age	No evidence	Rock Cover	60
Vegetation Code	AbTa	Surface Rock Size and Shape	Rounded 0.2 to 5 L
Vegetation Association	Acacia bivenosa high open shrubs over Triodia angusta hummock grassland		
Condition	A few scattered Kapok	I	
Site	48	Soil Type	Sand
Date	15/05/2019	Soil Colour	White
Aspect	Flat	Landform	sand bank
Seasonal Condition	Wet season	Rock Type	No rocks
Fire Age	No evidence	Rock Cover	0
Vegetation Code	(Te)Sv	Surface Rock Size and Shape	N/A
Vegetation Association	Grassland of Sporobolous virginicus, Eriachne mucro Paspalidium tabulatum (3) with scattered Triodia epa Evidence that *Cenchrus c and *Aerva javanica are co in wet season.	0-70%) ectia. illiaris	
Condition	Kapok and Buffel grass cor	mmon	The state of the s
Site	49	Soil Type	clay loam
Date	15/05/2019	Soil Colour	brown
Aspect	S	Landform	Lower slopes
Seasonal Condition	Wet season	Rock Type	Granite
Fire Age	No evidence	Rock Cover	50
Vegetation Code	AbHlCwTe	Surface Rock Size and Shape	Blocky 2 L to 50 L
Vegetation Association	High shrubland of Acacia & with scattered Hakea lored Scaevola spinescens, Greve pyramidalis over open dw shrubland of Corchorus we over hummock grassland of epactia with occasional Trangusta. There are small g	a, illea arf alcottii of Triodia iodia	

	Dolichandrone heterophyl	la within	
	this association.		
Condition	A few scattered Kapok	T	
Site	50	Soil Type	Loam
Date	15/05/2019	Soil Colour	Brown
Aspect	S	Landform	Upper slopes
Seasonal Condition	Wet season	Rock Type	Granite
Fire Age	No evidence	Rock Cover	60
Vegetation Code	AiGpTe	Surface Rock Size and Shape	Blocky 0.2 to 10 L
Vegetation Association	Tall shrubland of Acacia inaequilatera and Grevilled pyramidalis over hummod grassland of Triodia epaction herbland of Gomphrena cunninghamii, Abutilon legarichodesma zeylanicum, Trachymene oleracea	ik ia over	
Condition	No disturbances	T	
Site	51	Soil Type	Loam
Date	15/05/2019	Soil Colour	Brown
Aspect	E	Landform	Below low outcrop
Seasonal Condition	Wet season	Rock Type	Granite
Fire Age	No evidence	Rock Cover	90
Vegetation Code	TeCa	Surface Rock Size and Shape	0.2 to 2 L
Vegetation Association	Triodia epactia, Cymbopog	<i>gon ambiguus</i> hummock	/Tussock grassland
Condition	No disturbances		
Site	52	Soil Type	Loam
Date	15/05/2019	Soil Colour	Brown
Aspect	E	Landform	Below low outcrop
Seasonal Condition	Wet season	Rock Type	Granite
Fire Age	No evidence	Rock Cover	90
Vegetation Code	TeCa	Surface Rock Size and Shape	0.2 to 2 L
Vegetation	Triodia epactia, Cymbopod	gon ambiauus hummock	/Tussock grassland
Association	, , , ,	gen anna.gada nammaak	, . 3000 on Brassiania
Condition	No disturbances	Call Tage	د العامل العامل
Site	53	Soil Type	Sand/shells
Date	15/05/2019	Soil Colour	white
Aspect	Flat	Landform	Sandbank
Seasonal Condition	Wet season	Rock Type	No rocks
Fire Age	No evidence	Rock Cover	-

Vegetation Code	ThtTil	Surface Rock Size and Shape	-		
Vegetation	Dwarf open shrubland to heath (varies 2-10% to 20-40%) of Tecticornia				
Association	halocnemoides with Tecti	cornia indica			
Condition	Some Kapok and Buffel grass on the landward margin				
Site	54	Soil Type loam			
Date	15/05/2019	Soil Colour	Brown		
Aspect	S	Landform	lower slopes		
Seasonal Condition	Wet season	Rock Type	Granite		
Fire Age	No evidence	Rock Cover	70		
Vegetation Code	TeRm	Surface Rock Size and Shape	0.2 to 2 L		
Vegetation Association	Triodia epactia hummock	grassland with Rhyncho	sia minima lianes		
Condition	No disturbances				
Site	55	Soil Type	Sandy		
Date	15/05/2019	Soil Colour	Light Brown		
Aspect	west	Landform	Drainage		
Seasonal Condition	Wet season	Rock Type	Granite		
Fire Age	No evidence	Rock Cover	80		
Vegetation Code	1999 4a	Surface Rock Size and Shape	0.2 - 0.2L weathered smooth		
Vegetation Association	Low Woodland-Forest B (of <i>Terminalia circumulata</i> <i>Eucalyptus victrix</i> with Low (10-30%, 1-1.5m) and Ope Grassland (10-30%)	and w Scrub B			
Condition	No disturbance but draina east and west.	age feature impeded by	infrastructure to the		
Site	56	Soil Type	Sand		
Date	15/05/2019	Soil Colour	white		
Aspect	S	Landform	Sandbank		
Seasonal Condition	Wet season	Rock Type	Granite		
Fire Age	No evidence	Rock Cover	20		
Vegetation Code	*Cc*AjTt	Surface Rock Size and Shape	gravel		

Vegetation Association	Disturbed not rehabilitate *Cenchrus ciliaris *Aerva j and Trianthema turgidifol								
Condition		Completely degraded, spontaneous growth of Kapok, Buffel grass and <i>T. turgidifolia</i> following disturbance for infrastructure.							
Site	57	Soil Type		clay loam					
Date	15/05/2019	Soil Colou	ır	Brown					
Aspect	S	Landform		Lower slopes					
Seasonal Condition	Wet season	Rock Type	e	Granite					
Fire Age	No evidence	Rock Cov		70					
Vegetation Code	AiGpTe	Surface R and Shap		2 – 50 L					
Vegetation Association	Tall shrubland of Acacia inaequilatera and Greville pyramidalis over hummod grassland of Triodia epact herbland of Gomphrena cunninghamii, Abutilon le Trichodesma zeylanicum, Trachymene oleracea	ck <i>ia</i> over							
Condition	Between gas pipeline and	road and c	leared area,	otherwise no disturb.					
Site	58	Soil Type		loam					
Date	15/05/2019	Soil Colou	ır	Red/brown					
Aspect	S	Landform	1	Lower slopes					
Seasonal Condition	Wet season	Rock Type	e	Granite					
Fire Age	No evidence	Rock Cove	er	70					
Vegetation Code	Те	Surface R and Shap		2-50 L					
Vegetation Association	Triodia epactia hummock grassland. Associated spe- include Grevillea pyramid subsp. pyramidalis and Inc monophyla.	cies alis							
Condition	Between gas pipeline and road, otherwise no disturb.								
Site	59	Soil Type	e Clay loam						
Date	15/05/2019	Soil Colou	ır	Brown					

Aspect	west	Landform	Mid slopes
Seasonal Condition	Wet season	Rock Type	Granite
Fire Age	No evidence	Rock Cover	65
Vegetation Code	TeAb	Surface Rock Size and Shape	0.2 – 10L
Vegetation Association	<i>Triodia epactia</i> hummock with scattered <i>Acacia biv</i> shrubs		
Condition	Between gas pipeline and	I road, otherwise no dis	turb.

SEARCHES AN	D DURING FIELD S	URVEY(S)	

	Common	Cons.	Code	Habitat	Likelihood	Habitat	
Species	Name	Cth	WA		of Occurrence	Requirements	Comments
Birds							
Accipiter fasciatus	Brown Goshawk	M^1	-	Hunts over forest and woodland, dry scrub and farmland. Feeds on small birds and ground-dwelling rodents and mammals, catching them in flight or on the ground. This species is common and sedentary.	Recorded	Yes	This species has been recorded historically recorded within the Burrup Peninsula (Worley Astron, 2006). Suitable foraging and nesting habitat exists in the Project Area for this species, though was not recorded during the pre-wet season survey. Recorded in Worley Astron (2006).
Acrocephalus australis	Australian Reed-Warbler	М	-	A common migrant. This species inhabits dense reedbeds alongside water but can utilise tall crops and bamboo thickets as well.	Low	No	No suitable habitat exists in the Project Area. The species has been recorded in near-coastal wetland areas in scattered locations within Dampier and the Burrup Peninsula.
Actitis hypoleucos	Common Sandpiper	M, IA ²	IA	Though typically associated with estuaries, mangroves and creeks, this species is known to occupy small river pools, areas of inundation and flooding, particularly as water recedes. It is also commonly observed on artificial water bodies, such as sewage ponds. Across its distribution it is widespread in small numbers.	Low	Yes	This species has been recorded in the Dampier region on the Roly Rock islet and other islets in the archipelago (DBCA, 2018). Records indicate the species prefers the mangroves and intertidal pools present on many of the islands in the archipelago. Recorded in Worley Astron, 2006.

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¹ Listed as a Marine species under the *EPBC Act* (1999).

² Listed as a Migratory species under International Agreement under the *EPBC Act* (1999).

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Anous stolidus	Common Noddy	M, IA	IA	Resides and breeds within coastal waters near island colonies during migration.	Low	No	This species has been recorded at Withnell Bay, west of Project Area (DBCA, 2018). Only one bird was recorded. The species can form large colonies on some islands utilising seaweed and other plant material to build a nest on the ground or dense coastal shrubbery. This species is a short-term visitor between May and October, and potential breeding habitat is not expected to be impacted by the Project.
Anthus novaeseelandiae	Australasian Pipit	М	-	Inhabits grasslands, forest clearings, grassy woodlands, semi-open scrub, beaches and hind-dunes and grassy roadsides. Nests in depressions sheltered by rock or clumps of vegetation.	Recorded	Yes	This species was recorded during the prewet season survey. This species can be considered locally nomadic and common, and breeds between August and December. Given its widespread distribution, and broad availability of suitable and undisturbed habitat in the greater Pilbara, the Project is not expected to impact populations of this species.
Apus pacificus	Fork-tailed Swift	M, IA	IA	This species flies over inland plains but also occasionally foothills or coastal areas, such as beaches and islands and well out to sea. They occur over dry or open habitats comprising of riparian woodland, low scrub, heathland or saltmarsh, also grasslands and sandplains with spinifex (Morcombe, 2011).	Low	Yes	This species has been historically recorded in the Dampier region on Enderby Island (DBCA, 2018). There are scattered records along the coast from south-west Pilbara to the north and east Kimberley. This species is almost exclusively aerial and has a wide range of suitable habitats for foraging. The species nests on island cliff faces and would not be reliant on any habitat within the Project Area. Recorded in Worley Astron 2006.
Ardea alba	Great Egret	M	-	Inhabits floodwaters, rivers, shallows of wetlands and intertidal mudflats.	Low	Yes	Common and widespread in any suitable permanent or temporary habitat. Recorded in Worley Astron 2006.

	Common	Cons.	Code	Habitat	Likelihood	Habitat	
Species	Name	Cth	WA		of Occurrence	Requirements	Comments
Ardea ibis	Cattle Egret	М		Often congregates in flocks amongst cattle. It frequents moist pastures with tall grass, open and shallow wetlands and mudflats. Species is common across northern Australia.	Moderate	Yes	This species was identified in the EPBC PMST. The species may use the temporarily flooded mudflats present in the Project Area during the wet season. The species has not been recorded during any surveys in the area before.
Ardenna pacifica	Wedge-tailed Shearwater	M, IA	IA	Frequents pelagic oceans, feeding across the surface, especially where deep water meets inshore water.	Low	No	This species has been recorded on Quartermaine Island off Rosemary in the Dampier Archipelago (DBCA, 2018) and historically on the Burrup (Worley Astron, 2006). This species would not be likely to use any habitat in the Project Area, especially as breeding and foraging is undertaken on offshore islands.
Arenaria interpres	Ruddy Turnstone	M, IA	IA	Resides on ocean coasts with exposed rock, stony or shell beaches, but also mudflats and sometimes inland on shallow pools.	Moderate	Yes	This species has been recorded on Roly Rock, a small, distant island off the coast of Dampier, King Bay and Cowrie Cove on the Burrup Peninsula (DBCA, 2018). This species is common. Given their preference for foraging on exposed reefs and under beach stones and seaweed, this species is more likely to be reliant on coastal areas, which will not be directly impacted by the Project.
Cacomantis pallidus	Pallid Cuckoo	М	-	Forages on ground and foliage, feeding on large insects, even hairy caterpillars. Inhabits open areas, avoiding dense closed vegetation. Lays egg in other bird open cup nests, pushing out other bird's eggs/chicks.	Recorded	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006) and more recently by APM during the post-wet season survey. Suitable foraging and breeding habitat is present within the Project Area.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Calidris acuminata	Sharp-tailed Sandpiper	M, IA	IA	Scarce to moderately common. Widespread in coastal and interior wetlands. Mudflats in tidal zones, salt marshes or in fresh/saline/brackish inland water bodies.	Low	Yes	This species has been recorded in the Dampier region (DBCA, 2018) and historically on the Burrup (Worley Astron, 2006). The Project Area may provide some foraging habitat however, the species is widespread and has broad habitat requirements – it would not rely on the habitats present in the Project Area for the short time it is available during the wet season.
Calidris alba	Sanderling	M, IA	IA	Open, sandy beaches washed by ocean swells.	Low	No	This species has been recorded on Roly Rock, a small, distant island off the coast of Dampier (DBCA, 2018) and historically on the Burrup (Worley Astron, 2006). It is a regular migrant, and often seen in large flocks on favoured beaches, however it is rarely recorded using inland wetlands, saltponds and samphire flats. This species is unlikely to occur.
Calidris canutus	Red Knot	EN, M, IA	EN, IA	In close proximity to coastal waters such as mudflats and sandflats in estuaries. Also known to occur in salt ponds and salt lakes near the coast.	Moderate	Yes	This species has been recorded in the Dampier region (DBCA, 2018) and less recently on the Burrup Peninsula (Worley Astron, 2006). The species is known to follow tide edges when foraging, and can be seen with many other shore birds, such as the Red-necked Stint, which was recorded on site, within the samphire habitat. Given the proximity to Hearson's Cove, and the presence of open flats within the Project Area, this species may use the area for both foraging and roosting. This species was not recorded on either of APM's surveys.

	Common	Cons.	Code		Likelihood	Habitat	Comments
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	
Calidris ferruginea	Curlew Sandpiper	CR, M, IA	CR, IA	Known to occupy drying near-coastal freshwater lakes and swamps. Predominantly occurring in the shallows of estuaries and attracted to near-coastal water bodies, such as salt ponds, salt lakes, sewage ponds, beaches and freshwater swamps and lakes.	Moderate	Yes	This species has been recorded in the Dampier region (DBCA, 2018) and historically on the Burrup (Worley Astron, 2006). This species may use the Project Area during the wet season, though records suggest that the species prefers undisturbed islands and islets.
Calidris melanotos	Pectoral Sandpiper	M, IA	IA	Utilises fresh and saline coastal wetlands, and also inland permanent or temporary wetlands. Prefers mudflats with fringing vegetation or swamps with heavy overgrowth of vegetation.	Low	Yes	Regular but uncommon in Australia, and generally occurs in the southeast. Though the habitat for this species is suitable in the Project Area, the mudflats are very open and there are no true dense swampy areas. This species preferred habitat is not present.
Calidris ruficollis	Red-necked Stint	M, IA	IA	Inhabits a diverse range of habitats, both tidal and inland, mudflats, salt marshes, beaches, salt fields, temporary floodwaters. Is a very common migrant in areas that are most favoured and scattered elsewhere.	Recorded	Yes	This species was recorded during the prewet season survey. This species is not likely to use the Project Area exclusively, especially given the nearest major and favoured feeding area is Roebuck Bay, 600 km north of the Burrup Peninsula.
Calidris subminuta	Long-toed Stint	M, IA	IA	Appears in pairs, singularly or in flocks within favoured sites. Uses shallow fresh water, brackish swamps, lakes with muddy edges. Prefers low vegetation rather than open mudflats. Scarcely seen.	Low	No	This species has been historically recorded on the Burrup (Worley Astron, 2006). It is unlikely that this species would use the open mudflats present in the Project Area.
Calidris tenuirostris	Great Knot	CR, M, IA	CR, IA	Often seen in large flocks of hundreds to thousands of birds. Forages over inter-tidal flats. Will reside in sheltered coastal mudflats of estuaries, lagoons and mangrove swamps. Sometimes uses salt lakes but rarely inland waters.	Low	No	This species has been historically recorded on the Burrup Peninsula (Worley Astron, 2006). It was not recorded during either of APM's surveys. The samphire/mudflat habitat is likely too open for this species, and it does not that contain the mangrove swamps it prefers.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Calonectris leucomelas	Streaked Shearwater	M, IA	IA	Frequents pelagic oceans, shelf waters and edges and follows fishing boats. Very rarely inhabits inshore areas.	Low	No	This species was identified as a migrant within the area according to the EPBC PMST. It is not likely to utilise any habitats present in the Project Area.
Chalcites osculans	Black-eared Cuckoo	М	-	Inhabit dry habitats such as open woodland, mulga and mallee, sparse and open arid areas with spinifex, grassland or salt marsh and lines of vegetation along watercourses. Present across most of northern Australia.	Recorded	Yes	A solitary and inconspicuous species. This species breeds in the south east after rain in rain semi-arid regions. This species is a transitory visitor to site. Recorded in Worley Astron 2006 and APM
Charadrius leschenaultii	Greater Sand Plover	VU, M, IA	VU, IA	Resides in large mixed-species flocks on coastal, intertidal mudflats and sandbanks of sheltered bays. Less common on coastal salt marshes and brackish or freshwater wetlands.	Moderate	Yes	This species has been recorded northeast of Rosemary Island on an islet called Lady Nora within the Dampier archipelago and Hearson's Cove. This species is a regular migrant between August and May and is most common in northern Australia. The species is not expected to be reliant on the Project Area habitats given it prefers sheltered bays and intertidal mudflats.
Charadrius mongolus	Lesser Sand Plover	EN, M, IA	EN, IA	Inhabits intertidal sandflats and mudflats, beaches and sandbars and reef flats.	Low	Yes	This species has been historically recorded on Dolphin Island in the Dampier region. This species sometimes overwinters in northern Australia. It is abundant in Queensland, and uncommon elsewhere in Australia. This species is not expected to rely on habitats present in the Project Area, especially as this species does not breed in Australia.

	Common	Cons.	Code	Habitat	Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Charadrius ruficapillus	Red-capped Plover	М	-	Inhabits coastal, sheltered estuaries, salt marsh lagoons, and inland areas consisting of salty edges of waterways, brackish pools and claypans. Highest numbers can occur on inland salt lakes.	Recorded	Yes	This species was recorded during the prewet and post-wet season surveys. It is one of the most common shorebirds, and it breeds within northern Australia between September and December, where they create nests on beach or beside claypans or salt lakes. This species is not dependent on specific habitat types and is not expected to be impacted locally or regionally by the Project development. No nests were recorded.
Charadrius veredus	Oriental Plover	M, IA	IA	This species prefers samphire vegetation and other sparse grassy flats.	Low	Yes	This species has been recorded in the Dampier region on Enderby Island (DBCA, 2018). Suitable habitat is present in the Project Area, however, it was not recorded on either of the APM surveys.
Chlidonias hybrida	Whiskered Tern	М	-	An inland species that uses inland freshwater or permanent/temporary floodwater, claypans, sometimes estuaries or marine habitat. Occurs in flocks usually when foraging.	Recorded	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006) and more recently by APM during the post-wet season survey. The presence of this species is dependent on rainfall and flooding of wetlands. The species could utilise the samphire vegetation present in the Project Area for breeding. No evidence of breeding (presence of nests) was identified by APM.

	Common	Cons.	Code	Habitat	Likelihood	Habitat	
Species	Name	Cth	WA		of Occurrence	Requirements	Comments
Chlidonias leucopterus	White- winged Black Tern	M, IA	IA	Inhabits marine and freshwater coastal wetlands, including inundated floodplains and estuaries. A regular migrant to Australia, common in the Top End. They congregate in large flocks in preferred sites and at staging sites before northern migration (Alva Beach Queensland and Perron Island Northern Territory). Elsewhere they roost and forage in small flocks or can be seen in twos, threes or singularly (DoEE, 2018).	Moderate	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006). It was not recorded during the pre-wet season survey. This species could utilise the marshy habitat present within the samphire vegetation and claypans. If present, the species would only likely be in small numbers as the area is not a "staging site".
Chroicocephalus novaehollandiae	Silver Gull	М	-	Very common and widespread bird. Inhabits diverse habitat-types including beaches, temporary floodwaters, inland rivers etc.	Recorded	Yes	This species was recorded by APM during both surveys. The species is not limited to one habitat type and will not be impacted by the Project development.
Chrysococcyx basalis	Horsfield's Bronze- Cuckoo	M	-	A common bird across all of Australia. Its most commonly frequented habitat types include open forest, woodland and roadside trees.	Low	Yes	This species has been historically recorded on the Burrup (Worley Astron, 2006). Some suitable habitat exists in the Project Area, where the creek lines contain mature Eucalyptus victrix.
Circus approximans	Swamp Harrier	М		Forages over reed beds, open water of swamps and lakes, mangroves, salt marshes and temporary floodwaters. Builds nest within swamp or lake within dense reeds or other wetland plant material.	Low	Yes	This species has been recorded historically recorded within the Burrup Peninsula (Worley Astron, 2006). It was not recorded in the Project Area surveys.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Coracina novaehollandiae	Black-faced Cuckoo- shrike	M	-	Inhabits exceptionally diverse habitats from semi-desert scrub to tall, wet forests of the southeast and Tasmania. It is found almost throughout the entirety of Australia.	Recorded	Yes	This species was recorded during both APM surveys. Given the lack of many overstorey trees in the Project Area, aside from scattered Eucalypts, this species is not likely to rely on the area for breeding, though it is possible. The wide diversity of its habitats mean that the species is not limited to select few habitats, especially habitat present in the Project Area, which is widespread elsewhere.
Egretta garzetta	Little Egret	М	-	Inhabits fresh and marine wetlands. Forages in the shallows of swamps, floodplain pools, mudflats and mangrove channels.	Recorded	Yes	This species was recorded by APM during both surveys. It is a common species in northern Australia.
Egretta sacra	Eastern Reef Egret	М	-	Inhabits estuarine mudflats and inshore reefs. Nests in colonies on islands within mangroves or on ground or ledges among shrubs and rocks.	Low	No	This bird has been recorded in the area before according to Worley Astron, in 1994 (Butler) and by CALM in an unpublished report. This species may use the habitat present adjacent the Project Area for feeding (mangrove and King Bay estuary), though if present would be more likely to utilise shorelines containing mangroves.
Esacus magnirostris	Beach Stone- curlew	М	-	Confined to marine tidal zone containing mudflats, mangroves, sandy stony and rocky shores.	Low	No	This species was recorded in 1994 (Worley Astron, 2006). This species is known to be shy and wary and avoids disturbed areas. If it were to occur, it would likely be in the islands that are largely undisturbed and contain mangrove swamps, north of Burrup and far off the coast of Dampier.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Eurostopodus argus	Spotted Nightjar	М	-	Inhabits open, dry country with stony ground and litter of yellow/ochre coloured leaves. Open habitats such as spinifex, mallee, eucalypt, acacia and mulga. Species favours stony ridges.	Moderate	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006). It was not recorded during either of APM's surveys. The presence of rocky outcrops and open spinifex grasslands and scattered eucalypts make the Project Area quite suitable for this species.
Falco cenchroides	Nankeen Kestrel	М	-	Inhabits open habitats, woodlands, grasslands, sparse scrub, heath, farms, roadsides and coastal dunes. Common on the mainland.	Recorded	Yes	This species was recorded by APM during both surveys. The species breeds in the north between August and January. This species could use the area given the combination of large open areas for foraging, and tall Eucalyptus trees for nesting.
Falco peregrinus	Peregrine Falcon	-	OS	Very diverse habitat ranging from arid scrub, coastal heath and rainforest. Often hunts over offshore islands and estuaries.	Moderate	Yes	This species has been recorded at Burrup in 2006 and Hearson's Cove (DBCA, 2018). The Project Area could provide foraging habitat, though it would not provide adequate nesting habitat given the lack of undisturbed, tall cliff faces with sheltered ledges.
Fregata ariel	Lesser Frigatebird	M, IA	IA	Flies over shelf waters, open sea, close inshore and inland over continental coasts and perches on trees.	Low	Yes	This species has been recorded in the Dampier region on Cohen island (DBCA, 2018). This species is predominantly aerial and marine. It breeds between May and December and colonies are often found on islands. If it were present in the Project Area, it would be transitory, flying over the area.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Gelochelidon nilotica	Gull-Billed Tern	M, IA	IA	Occurs over inland and rarely over ocean. Nests on inland waters both fresh and saline. Uses water on mudflats, claypans, saltpans, salt marsh and areas of shallow flooding. Prefers lagoons and salt marshes near the coast when not breeding, and when breeding uses small islands.	low	Yes	This species has been recorded on Dolphin Island on the Dampier Archipelago (DBCA, 2018). This species may use the Project Area for foraging, though it is unlikely given its preferred habitat is coastal and intertidal areas.
Glareola maldivarum	Oriental Pratincole	M, IA	IA	Inhabits mudflats, beaches and shallow water areas such as margins of wetlands and lakes where large clouds of insects group.	Low	Yes	Dispersive and nomadic, the species ranges widely to locate the most productive sites. Is a temporary visitor to northern Australia. The species is known to rest on flat areas of ground which can be roads, airfields, paddocks and mudflats. Suitable habitat is widespread for this species.
Grallina cyanoleuca	Magpie-lark	М	-	Has diverse range of suitable habitats from coastal to semi-dessert where water and trees occur. This species is well adapted to live in man-made environments, particularly where there is permanent water.	Recorded	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006) and more recently by APM in 2019. The species is a very common vagrant.
Haliaeetus leucogaster	White-bellied Sea-eagle	ОМ	-	Perches on high cliffs overlooking coastal and inland waters. Inhabits islands, reefs, bays, estuaries, mangroves, lagoons and floodplains along major rivers.	Recorded	Yes	This species may hunt over the Project Area and surrounds, especially given the proximity of coastline surrounding the area, but would likely focus more on the offshore islands that contain extensive mangroves and pools. APM did record this species on the western side of the Project Area, flying over Burrup Road and the adjacent rocky outcrops.

Cursina	Species Common	Cons.	Code	Habitat	Likelihood of	Habitat	Community
Species	Name	Cth	WA		Occurrence	Requirements	Comments
Haliastur indus	Brahminy Kite	М	-	Along shorelines, shallows, mangroves and mudflats. Prefers coasts with islands, mangroves, estuaries, mud-flats, harbours and coastal towns.	Recorded	Yes	This species was recorded during the prewet and post-wet season surveys. This species is known to scavenge for carrion along the shoreline and shallows and is also an opportunist hunting for fish, and reptiles and insects on land. The species likes to build its nests where mangroves meet the sea. The Project Area is not expected to provide ideal breeding habitat, though the species would use the area to forage. Extensive opportunities for feeding are present outside the Project Area.
Haliastur sphenurus	Whistling Kite	М	-	Often flies over wetlands, but also arid regions, open woodland and scrub.	Recorded	Yes	Is primarily an scavenger, locating carrion and roadkill. This species breeds in tall trees within a woodland, near or standing in water, creek or dam. The Project Area is likely to provide some suitable breeding and foraging habitat, given the presence of some tall Eucalypt woodlands in gullies, and the addition of roads and paths within and nearby the site, that the species could feed within. No nests were located.
Himantopus himantopus	Australian Pied Stilt	М	-	Inhabits shallow wetlands, interior claypans and salt lakes. Widespread and common. Breeds after substantial rain. The species builds a small platform nest of plant material within shallows of islet or beach.	Recorded	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006) and more recently by APM during the post-wet season survey. No nests were located in the Project Area.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Hirundo neoxena	Welcome Swallow	М	-	Typically occupy open habitats of woodland, grassland, wetland and farmland. Has adapted well to developed areas, and often utilises artificial habitats such as buildings and bridges that can offer sheltered sites for building mud nest. Nests can be made in mine shafts and under culverts as well. When not available, they use underside of cliffs and inside of large tree hollows.	Recorded	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006) and more recently by APM in 2019. This species could utilise the Project Area given the availability of nesting spots and foraging areas. It is a common vagrant species.
Hirundo nigricans	Tree Martin	М	-	Occupies open woodland and farmland containing trees not far from water. Uses small hollows in upper limbs of tall trees. Nomadic or migratory over most of its range and is common.	Recorded	Yes	This species has been recorded in 1994, 1995 and 2001 (Worley Astron, 2006), and more recently by APM during the post-wet season survey. The species would only use the area during the wet season when the gullies and channels within the Eucalyptus woodland are full of water.
Hirundo rustica	Barn Swallow	M, IA	IA	Visits northern Australia from September to March, in close proximity to towns and wetlands including salt ponds and swamps.	Moderate	Yes	This species may utilise artificial water bodies at the Project Area and natural areas containing the mudflats and clay pans.
Hydroprogne caspia	Caspian Tern	M, IA	IA	The species flies over the surf line and inshore waters. The species prefers sheltered estuaries, inlets, bays, harbours, lagoons with muddy or sandy shores. Will also utilise fresh and saltwater lakes and large rivers.	Recorded	Yes	This species has been recorded on Keast Island in the Dampier Archipelago (DBCA, 2018) and more recently by APM during the post-wet season survey. The species would be more inclined to use the undisturbed islets and islands off the archipelago and the individual recorded by APM was likely only an opportunistic visitor.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Hypotaenidia philippensis	Buff-banded Rail	М	-	Feeds at dawn before full sunlight and at dusk, on exposed mudflats and open marshy ground. Resides within damp and dense vegetation around swamps, lakes and tidal mudflats. Dense vegetation is required for nesting, though can be far away from water, but usually not.	Low	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006). It was not recorded during either of the APM surveys. This species could use the samphire vegetation and possibly the more-swampy areas after rain throughout the Project Area, however the vegetation is likely too sparse to provide adequate nesting habitat.
Limicola falcinellus	Broad-billed Sandpiper	M, IA	IA	Prefers sheltered coastal estuaries and soft inter-tidal mudflats, coastal creeks, swamps and sewage ponds and only occasionally reefs. Often seen with Rednecked Stints or Curlew Sandpipers. A migrant to Australia, during non-breeding season. They mostly occur on the Pilbara and Kimberley coasts between Onslow and Broome (DoEE, 2018).	Moderate	Yes	The largest population of these birds is seen at the Port Hedland Saltworks (around 6000 birds). Suitable habitat for this species does occur adjacent the Project Area, though is not expected to be impacted.
Limosa lapponica baueri	Bar-tailed Godwit	VU, M, IA	VU	This species forages over coastal dunes. Has been observed amongst sand and mud flats in estuarine and beach areas, as well as near-coastal salt ponds and salt lakes.	Moderate	Yes	This species has been recorded in the Dampier region on Dolphin Island and Hearson's Cove (DBCA, 2018). This species may forage over the salt ponds and mud flats present in the Project Area.
Limosa lapponica menzbieri	Northern Siberian Bar- tailed Godwit	CR, M, IA	CR	This species forages over coastal dunes. Has been observed amongst sand and mud flats in estuarine and beach areas, as well as near-coastal salt ponds and salt lakes.	Low	Yes	This species is present in the north and south of Western Australia. This species may forage over the salt ponds and mud flats present in the Project Area.
Limosa limosa	Black-tailed Godwit	M, IA	IA	Inhabits coastal areas such as sheltered bays, islets containing large inland lakes, tidal mudflats and sandbars.	Low	Yes	This species has been recorded in the Dampier region (DBCA, 2018), however it is most abundant on the east coast of Darwin.

	Common	Cons.	Code	Habitat	Likelihood	Habitat	Comments
Species	Name	Cth	WA		of Occurrence	Requirements	
Macronectes giganteus	Southern Giant-Petrel	EN, MM ³	MM	Occupies marine habitats, over open seas and inshore waters. It favours the edges of the continental shelf. Gathers in areas of carrion and sewage for foraging.	Low	No	This species is far more common in the southern parts of Australia. This species would be a transitory visitor flying over site, if present at all.
Merops ornatus	Rainbow Bee- eater	M	-	Common and widespread, this species likes open woodland, open forest, semi-arid scrub, grassland, clearings in heavier forest and farmland. The emphasis is on open areas, as the species pursues insects in the air.	Recorded	Yes	This species was recorded during the prewet season survey. The species breeds before and after the Wet season. It digs long and narrow tunnels in soft, loamy soil of flat ground or banks that extends to a wide chamber where it nests. The species is likely to use the area for foraging and breeding within the mangrove, clay pans/salt lakes and creeklines. However, beach and dune systems adjacent and outside the Project Area could also provide suitable foraging and breeding habitat and the mangrove habitat is outside the development area.
Motacilla cinerea	Grey Wagtail	M, IA	IA	If seen in Australia, will inhabit fresh streams, mown grass, ploughed land or sewage ponds.	Low	No	This species rarely reaches Australia during its winter migration south of the equator.
Motacilla flava	Yellow Wagtail	M, IA	IA	Visitor between May and September in Australia, but uncommon in the northern Pilbara. Inhabits fresh streams, mown grass, ploughed land or sewage ponds.	Low	No	Uncommon and vagrant visitor to northwest Australia.
Ninox novaeseelandiae	Southern Boobook	М	-	Inhabits anywhere containing open eucalypt forest and woodland. Preys on insects and arthropods, small birds and rodents (and similar sized mammals). Roosts in dense foliage during the day. Requires either tree hollows or old babbler nests or hollowed out cliff for nesting.	Low	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006). It was not recorded during the pre-wet season survey. The vegetation is likely too sparse for this species to roost, though areas suitable for foraging are present.

³ Listed as a Marine Migratory (of Australia only and not under International Agreement) under the *EPBC Act* 1999.

	Common	Cons.	Code		Likelihood	Habitat	Comments
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	
Numenius madagascariensis	Eastern Curlew	CR, M, IA	CR, IA	Predominately found in estuarine systems, saltmarshes, tidal mudflats and mangroves. Can be found in brackish or freshwater lakes.	Moderate	Yes	This species has been recorded at Nickol Bay (east coast of Burrup) (DBCA, 2018). This species is a common migrant to the north, northeast and southeast of Australia.
Numenius minutus	Little Curlew	M, IA	IA	This bird flocks in large numbers across extensive swamps and billabongs of the coastal black-soil plains of northern Australia. Inhabits dry grassland of clay and black soil plains, river floodplains, woodlands with a grassy understorey. Forages on recently burnt grassland or open woodland. These birds also like artificial habitat such as grassed fields and lawns, airfields/ aerodromes and pasture.	Low	Yes	This species has been recorded at the Hampton Oval sports complex in Dampier (DBCA, 2018). This species is abundant along the northern coastlines of Australia. As it is commonly recorded on open cleared fields in developed areas, it is unlikely this species would rely on the Project Area habitats.
Numenius phaeopus	Whimbrel	M, IA	IA	Inhabits mudflats of estuaries, lagoons containing mangroves. Less often in sandy beaches, reefs and salt lakes.	Recorded	Yes	This species has been recorded on Dolphin Island in Dampier, King Bay and Cowrie Cove within the Burrup Peninsula (DBCA, 2018) and more recently by APM during the post-wet season survey. This species would be an opportunist during the wet season and not likely to rely on suitable habitat in the Project Area.
Nycticorax caledonicus	Nankeen Night Heron	М	-	Secluded wetlands; flooded grassland, damp fields, mangroves, tidal channels. Prefers sites that contain some dense tree cover for protection when roosting.	Low	Yes	This species has been recorded historically recorded within the Burrup Peninsula (Worley Astron, 2006). The species breeds in the late Wet season (Feb- Apr). The Project Area does not contain the mangroves, and much dense vegetation that the species likes for protection.
Oceanites oceanicus	Wilson's Storm Petrel	M, IA	IA	Inhabits deep pelagic seas, shelf slopes and shallower shelf and inshore waters. Records are usually from edge of continental shelf.	Low	No	This species is widespread and abundant. It has been historically recorded on the Burrup (Worley Astron, 2006). It is not expected to use habitats present in the Project Area.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Onychoprion aneathetus	Bridled Tern	M, IA	IA	Inhabits areas often far from land, forages on open seas and frequents islands and reefs to breed, sometimes inshore waters.	Low	No	This species has been recorded on Quartermaine Island in the Dampier Archipelago (DBCA, 2018). This species would be unlikely to use any waters present in the Project Area.
Pandion cristatus	Eastern Osprey	M, IA	IA	Inhabits coastal waters and estuaries, islets and exposed reefs. The species follows major rivers inland and even to large pools and gorges in arid regions. More common across northern coasts along rocky shorelines, islands and reefs.	Recorded	Yes	This species has been recorded on Roly Rock islet in Dampier (DBCA, 2018) and more recently by APM during the post-wet season survey. The species would be a transitory visitor, foraging or flying over site and would be more inclined to forage over the vast undisturbed rocky islets and islands across the Dampier archipelago, north and northwest of the Burrup.
Pelecanus conspicillatus	Australian Pelican	М	-	Wide distribution and much available habitat; any large or small area of water from sheltered coastal bays and estuaries to temporary pools in the desert.	Moderate	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006). It was not recorded during either of the APM surveys.
Pezoporus occidentalis	Night Parrot	EN	CR	Thought to be associated with spinifex or samphire bushes on the margins of salt lakes. It nests in the dense clumps of spinifex.	Low	Yes	This species is exceptionally rare and in low numbers. This species is known to inhabit inland very arid areas.
Phalaropus lobatus	Red-necked Phalarope	M, IA	IA	Frequents seas that are rich in plankton but does occasionally blow inshore to shelter from gales on coastal wetlands. It infrequently comes to land. Feeds on sea surface. The species has been observed on brackish, saline or fresh water pools and muddy margins. The species is considered a rare vagrant and is present at sea during the nonbreeding season.	Low	Yes	The species is a seasonal or occasional visitor of the Burrup Peninsula (Worley Astron, 2006). It was not recorded on either of the APM surveys.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Pluvialis fulva	Pacific Golden Plover	M, IA	IA	Occupies coastal habitats in small flocks or large flocks within estuaries, intertidal mudflats, salt marshes. reefs and offshore islands. The species disperses around suitable habitat areas on the coast.	Recorded	Yes	This species has been recorded on Roly Rock islet within Dampier (DBCA, 2018) and more recently by APM during the postwet season survey. The species would be more inclined to inhabit the islands on the west side of Dampier and Burrup, where suitable habitat is vastly available, and especially where it is quieter, as the species is quite shy and wary. Only one individual was recorded by APM.
Pluvialis squatarola	Grey Plover	M, IA	IA	Inhabits coastal areas, marine shores of estuaries or lagoons, on broad open mudflats, sandbars, beaches, rock platforms, reef flats of rocky coasts. Also forages slightly inland near coast and on the margins of salt lakes or swamps.	Low	Yes	This species has been recorded on Roly Rock islet within Dampier (DBCA, 2018). Sometimes seen with Golden Plovers. This species is shy and tends to stay out far on shallows or flats. This species would likely inhabit the offshore islands and islets away from human development and where suitable habitat is abundant.
Recurvirostra novaehollandiae	Red-necked Avocet	М		Uses salt and freshwater wetlands. Large numbers reside on shallow salt lakes, especially as salinity rises during evaporation. They inhabit claypans and temporary flood waters. Breed after good rain.	Moderate	Yes	This species has been historically recorded within Burrup (Worley Astron, 2006). It was not recorded during either of APM's surveys.
Rostratula australis	Australian Painted-snipe	EN	EN	Resides within the dense vegetation of swamps, emerging during light of dawn and dusk. It prefers the surrounds of shallow wetlands that are well vegetated with dense low cover, typically swamps and flooded areas containing sedges and grasses. Breeds in inland southeast Australia amongst low samphire bushes.	Low	Yes	This species is very secretive and often not seen and therefore it is not well known. It is uncommon generally. Though the Project Area does contain large mudflat and clay pans with samphire, the majority of breeding records are from freshwater wetlands. It is not likely the area would provide preferred habitat, or that the species occurs in the area at all.

	Common	Cons.	Code	Habitat	Likelihood	Habitat	
Species	Name	Cth	WA		of Occurrence	Requirements	Comments
Sterna dougallii	Roseate Tern	M, IA	IA	Inhabits marine, coastal and often coral reefs, foraging over reefs, lagoons and surrounds. Usually avoids mainland shoreline but may use shallow water just offshore (100 m).	Low	No	This species has been recorded on Goodwyn island in the Dampier archipelago (DBCA, 201). This species would be unlikely to use the habitats within the Project Area, possibly only the shoreline within Hearsons cove.
Sterna hirundo	Common Tern	M, IA	IA	Inhabits marine environments, well offshore, sometimes coastal waters, bays, estuaries and ocean beaches. A moderately common species (<i>longipennis</i> race) in the north.	Low	No	This species has been recorded on Eaglehawk Island on the Dampier archipelago (DBCA, 2018). This species would be more inclined to use offshore islets and islands of the archipelago.
Sternula albifrons	Little Tern	M, IA	IA	Resides within shallow coastal waters such as estuaries, lagoons and channels around rivers and harbours. Often congregates within favoured islets.	Low	Yes	This species has been recorded on Enderby island on the Dampier archipelago (DBCA, 2018). May use harbours adjacent of Burrup, on the west side and river channels during the Wet season present in the Project Area.
Sternula nereis nereis	Australian Fairy Tern	VU	VU	Habitat includes sheltered coasts, bays, inlets, estuaries, coastal lagoons, ocean beaches and also inland salt ponds and lakes and wetlands near the coast. However, it favours sand spits of islets in river-mouth channels, where they can forage on the seaward side of reefs and islands.	Low	Yes	This species has been recorded on Egret Island on the Dampier archipelago (DBCA, 2018). This species would be more inclined to use the sheltered and undisturbed bays within the islands and islets of the archipelago.
Stiltia isabella	Australian Pratincole	М	-	Forages for insects and small prey within sparse wooded plains and grasslands, claypans and stony ground. Does not venture far from water. Breeds after rain and within stony ground.	Low	Yes	This species has been historically recorded within the Burrup Peninsula (Worley Astron, 2006). It was not recorded during either of APM's surveys. Suitable foraging and breeding habitat exist for this species, though its occurrence is unpredictable.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Sula leucogaster	Brown Booby	M, IA	-	Inhabits marine environs where it travels low over waves to forage in deep waters but also inshore shallows.	Low	No	This species has been recorded on Cohen Island on the Dampier Archipelago (DBCA, 2018). This species would use the offshore islands of the archipelago where foraging opportunity is high.
Thalasseus bengalensis	Lesser Crested Tern	М	-	Inhabits sandy beaches, coral cays, exposed reefs, islands and mudflats, estuaries and creek channels. Breeds in the northeast and northwest on offshore islands. Known to breed on Adele and Bedout islands.	Recorded	Yes	This species was recorded by APM during pre-wet season survey. The species is utilising mudflats and creeks present in the Project Area for foraging, though given the known breeding habitat is islands and rocky shorelines, the species may be more inclined to use undisturbed rocky islets present across the archipelago. APM recorded just one individual during dry conditions.
Thalasseus bergii	Crested Tern	M, IA	IA	This species is a common tern, especially of bays, harbours, boats and jetties. Inhabits beaches, offshore islands, deeper pelagic seas, inshore estuaries and only occasionally on salt ponds and saline lakes near the coast.	Moderate	Yes	This species has been recorded on the Dampier Archipelago and Hearson's Cove (DBCA, 2018). This species may utilise the Project Area for foraging over the salt clay pans during the wet season.
Todiramphus sanctus	Sacred Kingfisher	M	-	Occupies semi-arid scrubland, open forest, woodland and mangroves. Hunts on dry land for small reptiles and large insects. Sometimes uses wetlands.	Moderate	Yes	This species has been recorded in 1994, 1998 and 2004 (Worley Astron, 2006). Suitable habitat exists for this species though it has a wide known range.
Tringa brevipes	Grey-tailed Tattler	M, IA	IA	Coastal habitats including inter-tidal pools, shallows, soft surfaces of mudflats and sand beaches, but also rocky ledges and reefs.	Recorded	Yes	This species has been recorded on Roly Rock islet in the Dampier archipelago (DBCA, 2018) and more recently by APM during the post-wet season survey. This species utilises the mudflats present in the Project Area for foraging. Suitable habitat is vast outside of the Project Area.

Common	Cons.	Code	Habitat	Likelihood	Habitat	Community
Name	Cth	WA		Occurrence	Requirements	Comments
Wood Sandpiper	M, IA	IA	Resides within shallows of wooded lakes or swamps with trees where it forages among fallen trees and vegetation, only occasionally frequents mangroves and brackish waters.	Low	Yes	This species has been recorded on Roly Rock islet in the Dampier archipelago (DBCA, 2018). This species is an uncommon migrant. May possibly utilise the Eucalypt woodlands during the wet season when the channels have filled with water.
Common Greenshank	M, IA	IA	This species requires open swamps, and therefore may only use smaller water bodies opportunistically. However, records have been made in dams and sewage ponds. Typically associated with saltmarshes, estuaries and shallow waters such as clay pans and mudflats, it prefers wet and flooded mud and clay, rather than sandy ground.	Recorded	Yes	This species has been recorded on Roly Rock islet within Dampier and King Bay (DBCA, 2018) and more recently by APM during the post-wet season survey. This species diverse habitat usage means that it is likely to not be reliant on habitats present in the Project Area.
Marsh Sandpiper	M, IA	IA	Inhabits coastal and inland wetlands, beaches, mangrove mudflats, shallows of swamps, temporary flood waters and salt ponds.	Low	Yes	This species has been recorded on Roly Rock islet within Dampier (DBCA, 2018). While this species is more common in the far northern parts of Australia, suitable marshy habitat is present in the Dampier region and the Project Area.
Common Redshank	M, IA	IA	Frequents coastal wetlands inclusive of estuaries and lagoons that contain sandbars, mudflats and saltlakes. Uncommon visitor but is known to be a regular summer visitor in some sites around the coast.	Low	Yes	One occurrence of this species has been recorded within AoLA records, from 1994, on the expansive intertidal flats of Nickol Bay.
Terek Sandpiper	M, IA	IA	Resides in coastal mudflats, sheltered estuaries, lagoons and sandbars, reefs, coastal swamps and salt fields.	Low	Yes	This species has been recorded on Roly Rock islet within Dampier (DBCA, 2018). Common in the northern coasts of Australia and is concentrated (among other areas) in the area between Eighty Mile Beach and Broome.
	Wood Sandpiper Common Greenshank Marsh Sandpiper Common Redshank	Common M, IA Common Greenshank Marsh Sandpiper Common M, IA Marsh Sandpiper M, IA Common Redshank M, IA	Wood Sandpiper M, IA IA Common Greenshank M, IA IA Common Redshank M, IA IA Terek M, IA IA	Wood Sandpiper M, IA IA IA Resides within shallows of wooded lakes or swamps with trees where it forages among fallen trees and vegetation, only occasionally frequents mangroves and brackish waters. This species requires open swamps, and therefore may only use smaller water bodies opportunistically. However, records have been made in dams and sewage ponds. Typically associated with saltmarshes, estuaries and shallow waters such as clay pans and mudflats, it prefers wet and flooded mud and clay, rather than sandy ground. Marsh Sandpiper M, IA IA IA IA IA IA IA Prequents coastal wetlands inclusive of estuaries and lagoons that contain sandbars, mudflats and saltlakes. Uncommon visitor but is known to be a regular summer visitor in some sites around the coast. Terek Sandpiper M, IA IA Resides in coastal mudflats, sheltered estuaries, lagoons and sandbars, reefs,	Common Name Cth WA Habitat Of Occurrence	Common Name Cth WA Habitat of Occurrence Habitat Requirements Wood Sandpiper M, IA IA Resides within shallows of wooded lakes or swamps with trees where it forages among fallen trees and vegetation, only occasionally frequents mangroves and brackish waters. Low Yes Common Greenshank M, IA IA This species requires open swamps, and therefore may only use smaller water bodies opportunistically. However, records have been made in dams and sewage ponds. Typically associated with saltmarshes, estuaries and shallow waters such as clay pans and mudflats, it prefers wet and flooded mud and clay, rather than sandy ground. Recorded Yes Marsh Sandpiper M, IA IA Inhabits coastal and inland wetlands, beaches, mangrove mudflats, shallows of swamps, temporary flood waters and salt ponds. Low Yes Common Redshank M, IA IA Frequents coastal wetlands inclusive of estuaries and lagoons that contain sandbars, mudflats and saltlakes. Uncommon visitor but is known to be a regular summer visitor in some sites around the coast. Low Yes Terek Sandpiper M, IA IA Resides in coastal mudflats, sheltered estuaries, lagoons and sandbars, reefs, Low Yes

Species	Common Name	Cons. Code			Likelihood	Habitat	
		Cth	WA	Habitat	of Occurrence	Requirements	Comments
Dasyurus hallucatus	Northern Quoll	EN	EN	Inhabits rocky outcrops and mezzo- formations in areas with Eucalyptus woodlands.	Moderate	Yes	This species has been previously recorded on Dolphin Island in the Dampier region and on the Burrup Peninsula in various locations, including a sighting at the port area of King Bay warehouse.
Hydromys chrysogaster	Water-rat, Rakali	-	P4	Occurs in habitats with fresh, brackish or marine water. They require a permanent water source all year round. In the Pilbara, the species occurs along the coastline and offshore islands where they forage for a diverse range of aquatic and terrestrial creatures.	Low	No	This species has been recorded on the Burrup Peninsula (DBCA, 2018). If the species were present in the area, it would be most inclined to use the coastline of bays, most likely further north into Dolphin and Legendre Islands, and other islands further offshore in the archipelago where it is undisturbed and more vegetated than rocky.
Macroderma gigas	Ghost Bat	VU	VU	Inhabits arid spinifex hillsides, open savannah woodland, tall open forest etc. They roost in sandstone or limestone caves or under boulder piles and abandoned mines. They prefer to roost deep in the cave system and in a relatively open space in the cavity. This has to do with humidity and temperature in the microclimate that caves produce. Females roost with young preferentially in the large open cavity far from the cave entrance.	Recorded	Yes	This species has been recorded on the Burrup Peninsula about 4 km northeast of the Project Area (DBCA, 2018) and more recently by APM during the post-wet season survey. This species was once distributed over the entire north of Australia but is now restricted to pockets within tropical areas. This is partly due to the introduction of the Cane Toad, but also loss and disturbance of roost sites and loss of foraging habitat through inappropriate management and dramatic land-use change (DENR, 2016).
Macrotis lagotis	Greater Bilby	VU	VU	The former range of the Greater Bilby has declined dramatically, and the remaining populations of the Bilby reside within three main habitats; the open tussock grassland on uplands and hills, mulga woodland on ridges and rises and hummock grassland in plains and alluvial areas (DoE, 2016).	Low	Yes	The species is highly unlikely to occur in the Project Area due to the lack of appropriate burrowing substrate, and the presence of foxes.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Ozimops cobourgianus	Northern Coastal Free- tailed Bat	-	P1	Uses mangroves to roost, particularly crevices in dead upper branches of <i>Avicennia marina</i> . They are restricted to mangrove forests adjacent monsoon forest along large waterways and vine thickets. They like unobstructed corridors in the form of roads or creeklines when foraging for flying insects.	Recorded	Yes	This species has been recorded in the Burrup Peninsula and the Cowrie Cove (a bay just north of Hearson's Cove) in the mangrove habitat. Suitable habitat exists adjacent the Project Area but also is extensive elsewhere (mangroves) along the Burrup and its islands. This bat was recorded during both APM seasonal surveys, across multiple sites, indicating the Project Area is of suitable foraging habitat.
Petrogale lateralis lateralis	Black-footed Rock-Wallaby	EN	EN	This species was historically widespread, though is now only patchily distributed in protected parts of WA including Barrow Island and Cape Range National Park in the Pilbara (DPaW, 2013). The species no longer occurs within the Burrup and Dampier Peninsulas. This rock-wallaby shelters in deep rocky caves, cliffs, screes and rockpiles. They emerge at dusk to feed on grasses and shrubs not far from their shelter site, if food is available.	Low	Yes	The Black-footed Rock-wallaby (Petrogale lateralis lateralis) was recorded on the Burrup Peninsula in 1994 (Worley Astron, 2006; see Appendix B for a list of fauna), however it is not expected to currently occur on the Burrup Peninsula.
Pseudomys chapmani	Western Pebble- mound Mouse	-	P4	This species builds relatively high (up to 10 cm and more) mounds out of tiny pebbles found on the ground. They create intricate chambers underground at least 60 cm deep where they escape the heat of the day. They do continue to use their durable mound systems throughout generations (Anstee et al. 1997). The mouse forages in dry creek beds and mounds are usually created amongst hummock grassland of sandy and pebbly soils.	Low	Yes	This species has been historically recorded in the Burrup Peninsula within the Murajuga National Park (DBCA, 2018). The species has declined in its range, particularly along the Pilbara coasts, likely due to predation by foxes, though populations are still present in the Pilbara and Sandy Desert. The Project Area lies within the former extent of occurrence for the species, though suitable habitat is present within the Project Area.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Rhinonicteris aurantia	Pilbara Leaf- Nosed Bat	VU	VU	Inhabits tall open forest, open savannah woodland and spinifex-covered hills etc. Their roost cave requirements are very specific, requiring about 100% humidity and a very high temperature.	Low	Yes	This species may use the rocky outcrops that contain woodland creek lines running through, that may support cave systems deep enough to offer suitable microclimate conditions in both the dry and wet-seasons, though these caves are quite uncommon. The bat would be more likely to use the area for foraging, and potentially use shallower caves provided by the outcrops as a temporary refuge in the wet-season as they can forage several kilometres from their day-time roost sites. The species is predated quite heavily by Ghost Bats.
Ctenotus angusticeps	Northwestern Coastal Ctenotus	VU	P3	Inhabits salt marsh communities in samphire shrubland. Records exist in samphire sites close to tidal creeks. Strongly associated with <i>Tectornia halocnemoides</i> subsp. tenuis and Suaeda arbusculoides occurring on clayey soils and mixed herb and grass cover of Sporobolus virginicus and Muellerolimon salicorniaceum. The species appears to utilise crabholes for shelter and protection.	Low	Yes	Suitable habitat does exist for this species within the Project Area, though it is not known from the Burrup region. Biologic (2013) recorded the species 7 km East of Karratha at Lulu Creek in 2012. The species is threatened by Buffel Grass (<i>Cenchrus ciliaris</i>) which is present within the Project Area.
Reptiles							
Liasis olivaceus barroni	Olive Python	VU	VU	Occurs in a range of habitats from savannah woodlands to monsoonal forests. Typically, in areas of rocky hills, outcrops and ranges.	High	Yes	This species has been historically recorded on Dolphin Island in the Dampier region and in King Bay, Hearson's Cove and in many locations around the Karratha Gas Plant and Pluto LNG facility, particularly where artificial water sources occur(open water pit) It is often recorded around the built environment and highly disturbed areas. APM did not record the species on either of the surveys.

	Common	Cons.	Code		Likelihood	Habitat	
Species	Name	Cth	WA	Habitat	of Occurrence	Requirements	Comments
Notoscincus butleri	Lined-soil Crevice Skink (Dampier)	-	P4	Inhabits stony areas dominated by spinifex ground cover. Was originally only known from the Dampier Archipelago region of WA, but records from early 2000 have since increased the known range of the species.	Moderate	Yes	Historical record of the species within the Burrup Peninsula made by Biota in 2001 (Worley Astron, 2006) and other records exist on West Intercourse Island and several on the mainland extending into Millstream Chichester National Park, Pannawonica and west of Mount Sheila. It is possible this species may occur in the Project Area, given its preferred habitat however, targeted trapping and search effort would be required to eliminate uncertainty of the presence of this species.

Family	species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 23	3 24	25	26	27	28	29	30	31	32	33	34	35	36 3	7 3	3 39
AIZOACEAE	Trianthema turgidifolia					0.1	0.1	20	1.0	0.1																			(0.1				2				
	Trianthema triquetrum		0.1																											\neg								
AMARANTHACEAE	*Aerva javanica						0.1	0.1	50							0.1					0.1								20	\neg	0.1						0.	1
	Amaranthus undulatus																													П								
	Gomphrena leptoclada subsp. leptoclada		0.1			0.1						1		2								5								\neg		0.1	0.1		(0.1		
	Ptilotus exaltatus														1				\neg		0.1			1					0.1	0.1								
	Ptilotus fusiformis											0.1	0.1																	\neg								
APOCYNACEAE	Cynanchum floribundum	0.1	0.1																											\neg								
ARALIACEAE	Trachymene oleracea subsp. oleracea	0.1	0.1		0.1	1	0.1						0.1	1.0				0.1	0.1		0.1				0.1					\neg			1		(0.2	0.	1 0.1
ASTERACEAE	Pentalepis trichodesmoides																													\neg								
	Pterocaulon sphaeranthoides	0.1			0.1	1	0.1						0.1															0.1		\neg								
	Streptoglossa decurrens		0.1																											П								
BIGNONIACEAE	Dolichandrone occidentalis																													\neg								1
	Ehretia saligna var. saligna				0.1							1							\Box											\neg								
BORAGINACEAE	Heliotropium cunninghamii					0.1																								П								
	Heliotropium tenuifolium				Г														\neg											\neg								
	Trichodesma zeylanicum var. zeylanicum	0.1	0.1	0.1		0.1				0.1		0.1	0.1	0.1					\neg						0.1			0.1		0.1		0.1	0.1	0.1			0.	1 0.1
CHENOPODIACEAE	Atriplex codonocarpa							0.1											\Box											\neg								
	Dysphania sp.		0.1		Г														\neg											\neg								
	Enchylaena tomentosa var. tomentosa			0.1	0.1														\neg			1	0.	1		0.1				\neg		0.1		0.1				
	Neobassia astrocarpa							0.1	1										ヿ											\neg					1			
	Rhagodia eremaea	0.1		2	0.1								0.1	0.1		1	0.1		0.1	3	0.1									\neg		0.1		\Box	(0.1		
	Salsola australis				Г										0.1				\neg										0.1	\neg								
	Tecticornia auriculata																													\neg								
	Tecticornia halocnemoides							20	1										\Box											\neg								
	Tecticornia indica subsp. indica				Г			1.0									0.1		\neg											\neg				\Box	1.0			
	Threlkeldia diffusa				Г														\neg		0.2								0.1	\neg								
CLEOMACEAE	Cleome viscosa	0.1	0.1		Г	0.1					1.0	1.0	0.1	0.1					\neg		(0.1			0.1				0.1	\neg	0.1			0.1				0.1
COMBRETACEAE	Terminalia circumalata				Г												0.1		40											\neg								
	Terminalia supranitifolia (P3)										20	1.0		10																\exists								
COMMELINACEAE	Commelina ensifolia																		\dashv											\exists				\Box				
CONVOLVULACEAE	?Bonamia erecta																	0.1	\neg		0.1									\exists				\Box				
	Bonamia pilbarensis		Г								\Box						一		\exists		\neg									\exists				\Box		0	.1	
	Evolvulus alsinoides var. villosicalyx								\Box		一				0.1	0.1			0.1		0.1									コ				\Box			T	

Family	species	1	2	3	4	5	6	5 7	7 8	9	10) 1:	1 12	1	.3 1	14 15	16	17	18	3 19	20	21	22	23	24	25	26	27 2	8 2	9 3	0 3:	1 3	2 3	3 3	34	35 3	36 3	37 3	38	39
	Ipomoea costata			0.1							1	1.	0	1.	.0							1.0				0.1	0.1						0.	.1						
CUCURBITACEAE	Cucumis variabilis	0.1		10	0.1	0.1	L				1			0.	.1 0).1			0.:	1	0.1	-				0.1		0	.1					0	0.1					0.1
CYPERACEAE	Cyperus vaginatus																0.:	1	0.:	1			0.1	0.1															Т	
	Cyperus blakeanus				Г										T																	T						Т	Т	П
EUPHORBIACEAE	Adriana tomentosa var. tomentosa																							0.1								T							Т	
	Euphorbia coghlanii									0.	1										0.1	-							0	.1 0	.1	T							Т	
	Euphorbia tannensis subsp. eremophila														C).1			0.:	1	0.1	-																0).1	
FABACEAE	Acacia ampliceps										1.0	5											10	0.1											2 4	40			\top	
	Acacia ancistrocarpa																															T							Т	
	Acacia bivenosa	1	1		1.0	25	20	0		50			0.1	1	1	15 0.:	1 1	1		0.1	0.1	. 1		0.1		1			1	:	1 40	0 0	.1	7	40	0).1	1 :	1	1
	Acacia colei var. colei	0.1											0.1	1						0.1						0.1					0.	1							1	
	Acacia coriacea subsp. pendens	1		1	0.1	0.1	L	0	.1	0.	1 0.:	1 5		1	1		1		1	. 1		1	0.1	0.1		0.1				0	.1 0.	10	.1	C	0.1	0).1	0).1	
	Acacia inaequilatera				0.1	-																							1										\top	
	Acacia pyrifolia				Г		Г						1			1	0.1	1 0.1	1		0.1	_									0.	10	0.1 1	ī					T	
	Acacia synchronicia				Г																																		T	П
	Acacia trachycarpa																																						\top	
	Crotalaria medicaginea var. neglecta																													0	.1								\top	
	Crotalaria novae hollandiae subsp. novae hollandiae	0.1																														Ī							7	0.1
	Cullen badocanum																									0.1						T		T	\neg				T	
	Dichrostachys spicata		0.1		0.1	0.1	ı				1		0.1	1 5	5		1.0	0.1	1 0.:	1 0.1	0.1	0.1								0	.1 0.	10	.10	.10).1			0).1	
	Erythrina vespertilio																									0.1								T					T	
	Indigofera monophylla	0.1	0.1		0.1	. 2	1						0.1	1	C	0.1 0.1	1	0.1	1		1							0	.1	0	.1 0.	1	0.	.1		0	0.1	.1	1 (0.1
	Indigofera colutea		Г									0.	1												\Box							T			\neg				T	
	Indigofera trita																																						T	
	Rhynchosia bungarensis (P4)				Г																																		T	П
	Rhynchosia minima	0.1	0.1	0.1	0.1	0.5	0.	1			1.0	5		0.	.1											2		0	.2			T		С	0.1		0	.1 0).1	0.1
	Senna artemisioides subsp. oligophylla		Г																													T			\neg			T	T	П
	Senna glutinosa subsp. glutinosa				0.1	0.1	ı									1	0.:	1		0.1	0.1	L														0	0.1		\top	
	Sesbania cannabina		Г		Г											0.:	1																	С	0.1	1			\top	
	Swainsona formosa		Г		Г										T	0.:	1				0.1													T	\neg				\forall	
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)				1																							0	.1										7	
	<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)						0.	1																															7	0.1

Family	species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 2	3 24	25	26	27	28	29	30	31	32	33	34	35	36 3	37 3	38	39
	Tephrosia supina											0.1																								C	0.1	\neg	
GOODENIACEAE	Goodenia microptera														0.1															0.1								\neg	
	Goodenia lamprosperma																											П						\Box				\exists	
	Scaevola cunninghamii						Г																					П	0.1					\Box				\neg	
	Scaevola spinescens				1									0.1	0.1						0.1			1		0.1		П		0.1		0.1		\Box				\exists	
LAMIACEAE	lanceolatum	0.1			0.1	0.1				0.1		1	0.1	15		0.1	0.1			0.1								П				1.0	0.1					\neg	
LAURACEAE	Cassytha filiformis	0.1				0.1	0.2	1									1						1					0.1	0.1	0.1				\Box				\exists	
MALVACEAE	*Malvastrum americanum																				0.1							П						\Box				\neg	
	Abutilon fraseri																											П						\Box				\exists	
	Abutilon lepidum	0.1	0.1		0.1		0.1	1				0.1		0.1																								T	
	Brachychiton acuminatus		Г	5	Г						20	20		1.0		0.1				0.1		1		1				П						\Box			С	0.1	
	Corchorus incanus subsp. incanus	0.1																																				\exists	
	Corchorus incanus subsp. incanus									0.1			0.1		1.0	2		0.1	0.1		1							0.1		0.1	0.1	0.1	0.1	0.1		1 0).1 C).1	
	Corchorus walcottii																											П						\Box				T	
	Gossypium australe														0.1						0.1							П						\Box				7	0.1
	Hibiscus sturtii var. campochlamys					0.1	0.1	1				0.1	0.1		0.1											Г								\Box		С	0.1	7	0.1
	Lawrencia viridigrisea																									Г								\Box				\exists	
	Melhania oblongifolia																			0.3								П						\Box				\exists	
	Sida fibulifera						Г																			Г		0.1						\Box		С	0.1	\exists	
	Triumfetta appendiculata						Г					0.1		0.1	0.1	1		0.1	0.1		0.1				0.1			0.1		0.1	0.1	0.1		\Box		10	С	0.1	
	Waltheria indica												0.1		0.1		0.1											П						\Box				\exists	
MENISPERMACEAE	Tinospora smilacina			1	0.1		Г					0.1												0.	1	0.1		П						\Box				\exists	
	Tinospora smilacina			1							1.0																											7	0.1
MOLUGINACEAE	Trigastrotheca molluginea						Г																										0.1	\Box				\exists	
MORACEAE	Ficus brachypoda																					1.0				1		П						\Box				T	
MYRTACEAE	Corymbia hamersleyana				25		Г						5		0.1	1.0					25					Г		П			0.1	50		\Box		25	7	25	
	Eucalyptus victrix						Г										10		1.0	60			80 5	0		Г		П						\Box				\exists	
NYCTAGINACEAE	Boerhavia gardneri	0.1		0.1	0.1		Г					0.1			0.1													П						\Box				7	0.1
OLEACEAE	Jasminum didymum subsp. lineare	0.1			Т		Г							1						1.0	1.0					0.1		П				0.1		\Box	, I	0.1	1	T	
PASSIFLORACEAE	*Passiflora foetida var. foetida		Г		Г		Г								П								80 1	0		Г		П		\Box				\dashv				\forall	
PHYLLANTHACEAE	Flueggea virosa subsp. melanthesoides		Г		Г		Г							2					0.1							T								0.1	1	0.1		\forall	
	Notoleptopus decaisnei		Г		Г		Т			0.1					П											T		П		0.1				\exists		C	0.1	\forall	
	Phyllanthus maderaspatensis				Г		Г								П											T		П						\dashv		\top		\forall	
PITTOSPORACEAE	Pittosporum phillyreoides		П		Т		Г								0.1		0.1			5	0.1					Г		П				1		\neg		0.1		\dashv	

Family	species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
PLANTAGINACEAE	Stemodia grossa		Г		1	0.1									0.1	0.1					1.0		0.1	0.1	T									0.1	0.1	0.1	0.1		П	
POACEAE	*Cenchrus ciliaris		0.1		0.1	1	0.1	15		10	2	60	0.1	30	0.1	1	0.1	1	0.1	1			10	1	T					1	0.1	30	20		30	1.0	20	40	1	
	Chrysopogon fallax														0.1						0.1		П																	
	Cymbopogon ambiguus	0.1			0.1	0.1						0.1		0.1			1.0		0.1			2			1	0.1		10					20				0.1			
	Dactyloctenium radulans																																							
	Eragrostis falcata																																				П			
	Eriachne helmsii						0.1																																	
	Eriachne mucronata																													15				0.1		80				
	Eriachne obtusa					0.1	0.1																																	
	Eriachne tenuiculmis																1		30						Ì								5							
	Paspalidium tabulatum		Г																				П														\Box			
	Paspalidium clementii														0.1						0.1		П														\Box			
	Sporobolus virginicus								40																															
	Themeda triandra											0.1	0.1	0.1																	0.1		0.1							
	Triodia ? basedowii (sterile)																																	10						
	Triodia angusta						60								0.1		30	40					50	80							85									1
	Triodia epactia	40	60	40	50	30	20		1	40		20	30	30	10	40	30	20	40	40	15	40			25	90	70			15	1	15	15	75					30	85
	Triodia wiseana																												85											
PROTEACEAE	Grevillea pyramidalis subsp. pyramidalis	0.1	1		1					0.1					5	10					1					0.1	0.1		1				0.1	0.1			1			1
	Hakea lorea subsp. lorea	1				0.1									0.1			0.1			1					1														
SAPINDACEAE	Alectryon oleifolius subsp. oleifolius																0.1			3							0.1										П			
SOLANACEAE	Solanum diversiflorum															0.1					0.1																			
	Solanum horridum	0.1			0.1	0.1	0.1			0.1			0.1		0.1	0.1					0.1				0.1	0.1			0.1		0.1		0.1				0.1		0.1	
	Solanum lasiophyllum		0.1							0.1										0.1																	П			0.1
	Solanum phlomoides																																							
VIOLACEAE	Hybanthus aurantiacus	0.1				0.1							0.1																				0.1							
ZYGOPHYLLACEAE	Tribulus hirsutus						0.1							0.1	0.1																						0.1			

Family	species	40	41	54	42	43	44	45	46	47	48	49	50	51	52	53	55	56	57	58	59	00
AIZOACEAE	Trianthema turgidifolia				10		0.1		0.1	1	1					5		20				
	Trianthema triquetrum																					
AMARANTHACEAE	*Aerva javanica								20	3	30							20				Υ
	Amaranthus undulatus		0.1																			
	Gomphrena leptoclada subsp. leptoclada		0.1																	0.1		
	Ptilotus exaltatus	0.1																				
	Ptilotus fusiformis											0.1								0.1		
APOCYNACEAE	Cynanchum floribundum																					
ARALIACEAE	Trachymene oleracea subsp. oleracea		0.1	0.1									0.1						0.1	0.1		
ASTERACEAE	Pentalepis trichodesmoides																					Υ
	Pterocaulon sphaeranthoides									0.1												
	Streptoglossa decurrens	0.1								0.1												Υ
BIGNONIACEAE	Dolichandrone occidentalis											10										
	Ehretia saligna var. saligna																					Г
BORAGINACEAE	Heliotropium cunninghamii																					Г
	Heliotropium tenuifolium	0.1																				
	Trichodesma zeylanicum var. zeylanicum	0.1										0.1	1						0.1			
CHENOPODIACEAE	Atriplex codonocarpa																					
	Dysphania sp.																					
	Enchylaena tomentosa var. tomentosa												0.1									
	Neobassia astrocarpa				1				0.1							0.1						
	Rhagodia eremaea												0.1									
	Salsola australis								20		1.0											
	Tecticornia auriculata				25		0.1									20						
	Tecticornia halocnemoides				20	20	15	10								30						Г
	Tecticornia indica subsp. indica																					Г
	Threlkeldia diffusa								0.1													Г
CLEOMACEAE	Cleome viscosa		0.1	0.1					0.1		0.1		0.1							0.1		Г
COMBRETACEAE	Terminalia circumalata																40					Г
	Terminalia supranitifolia (P3)																					Υ
COMMELINACEAE	Commelina ensifolia																					Γ
CONVOLVULACEAE	?Bonamia erecta																					Γ
	Bonamia pilbarensis																					Γ
	Evolvulus alsinoides var. villosicalyx	П						T		0.1								T				Т

Family	species	40	41	54	42	43	44	45	46	47	48	49	50	51	52	53	55	56	57	58	59	00
	Ipomoea costata		0.1																	П		
CUCURBITACEAE	Cucumis variabilis	0.1	0.1	0.1									0.1									
CYPERACEAE	Cyperus vaginatus																1					
	Cyperus blakeanus											0.1										
EUPHORBIACEAE	Adriana tomentosa var. tomentosa																					
	Euphorbia coghlanii		0.1																			
	Euphorbia tannensis subsp. eremophila								0.1		0.1											
FABACEAE	Acacia ampliceps																					
	Acacia ancistrocarpa																					Υ
	Acacia bivenosa	0.1		0.1						10									0.1		5	
	Acacia colei var. colei	0.1										0.1										
	Acacia coriacea subsp. pendens			0.1									0.1				1					
	Acacia inaequilatera	30											15						5			
	Acacia pyrifolia																					
	Acacia synchronicia																					Υ
	Acacia trachycarpa																1					Υ
	Crotalaria medicaginea var. neglecta																					
	Crotalaria novae hollandiae subsp. novae hollandiae		0.1																			
	Cullen badocanum																					
	Dichrostachys spicata		0.1	0.1								0.1									0.1	
	Erythrina vespertilio																					
	Indigofera monophylla	0.1								0.1		0.1	0.1							0.1		
	Indigofera colutea																					
	Indigofera trita		0.1																			
	Rhynchosia bungarensis (P4)	0.1																				Υ
	Rhynchosia minima	0.1	2	2								0.1	0.1						0.1			Υ
	Senna artemisioides subsp. oligophylla																			П		Υ
	Senna glutinosa subsp. glutinosa	0.1																				
	Sesbania cannabina																					
	Swainsona formosa																					Υ
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)																					
	<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)		0.1										0.1									Υ

Family	species	40	41	54	42	43	44	45	46	47	48	49	50	51	52	53	55	56	57	58	59	OC
	Tephrosia supina	0.1																				
GOODENIACEAE	Goodenia microptera											0.1										
	Goodenia lamprosperma																					
	Scaevola cunninghamii								5		0.1											Υ
	Scaevola spinescens																					Υ
LAMIACEAE	lanceolatum	0.1											0.1									
LAURACEAE	Cassytha filiformis									0.1												
MALVACEAE	*Malvastrum americanum																					
	Abutilon fraseri																					Υ
	Abutilon lepidum																		0.1	0.1		
	Brachychiton acuminatus																					
	Corchorus incanus subsp. incanus																					
	Corchorus incanus subsp. incanus	0.1										0.1										
	Corchorus walcottii											3	0.1								2	
	Gossypium australe																					Υ
	Hibiscus sturtii var. campochlamys	0.1																				Υ
	Lawrencia viridigrisea																					Υ
	Melhania oblongifolia																					
	Sida fibulifera																					
	Triumfetta appendiculata	1										0.1	0.1						0.1	0.1	0.1	
	Waltheria indica																				0.1	
MENISPERMACEAE	Tinospora smilacina																					
	Tinospora smilacina																					
MOLUGINACEAE	Trigastrotheca molluginea											0.1										Υ
MORACEAE	Ficus brachypoda																					
MYRTACEAE	Corymbia hamersleyana																					
	Eucalyptus victrix																40					
NYCTAGINACEAE	Boerhavia gardneri											1	0.1						0.1			
OLEACEAE	Jasminum didymum subsp. lineare							Г														Υ
PASSIFLORACEAE	*Passiflora foetida var. foetida							Г									5					
PHYLLANTHACEAE	Flueggea virosa subsp. melanthesoides	T		Г																		
	Notoleptopus decaisnei	T																				Υ
	Phyllanthus maderaspatensis	T						Т					0.1	Т				Т				Г
PITTOSPORACEAE	Pittosporum phillyreoides	T																				Y

Family	species	40	41	54	42	43	44	45	46	47	48	49	50	51	52	53	55	56	57	58	59	00
PLANTAGINACEAE	Stemodia grossa																					
POACEAE	*Cenchrus ciliaris		0.1	0.1	10				1		0.1						15	20				Υ
	Chrysopogon fallax																					Γ
	Cymbopogon ambiguus	0.1	0.1									0.1	0.1	15	10				0.1			Γ
	Dactyloctenium radulans				0.1																	
	Eragrostis falcata				1																	
	Eriachne helmsii																					
	Eriachne mucronata																					Υ
	Eriachne obtusa											0.1										Υ
	Eriachne tenuiculmis									0.1												Γ
	Paspalidium tabulatum								0.1		15											Υ
	Paspalidium clementii																					
	Sporobolus virginicus								5		1.0											
	Themeda triandra																					Γ
	Triodia ? basedowii (sterile)																					Γ
	Triodia angusta									40												
	Triodia epactia	70	75	75					1	30	1	65	70	70	70				80	80	75	
	Triodia wiseana																					Γ
PROTEACEAE	Grevillea pyramidalis subsp. pyramidalis	10		0.1								2	3						10	0.1	0.1	
	Hakea lorea subsp. lorea																					
SAPINDACEAE	Alectryon oleifolius subsp. oleifolius																					Γ
SOLANACEAE	Solanum diversiflorum																					Γ
	Solanum horridum	0.1								0.1		0.1	0.1									
	Solanum lasiophyllum																					
	Solanum phlomoides	0.1								0.1			0.1									Γ
VIOLACEAE	Hybanthus aurantiacus																					Γ
ZYGOPHYLLACEAE	Tribulus hirsutus																					
		-	-	-				_	_	_		_	_		_							_

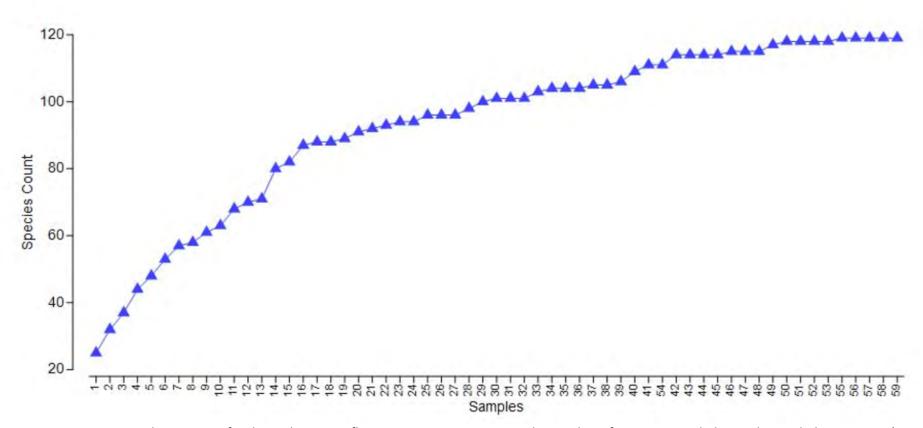


Figure I-1: Species Accumulation Curve for the multi-season flora survey. Species Count is the number of species recorded at each Detailed Survey Site (X axis: Samples) that had not been previously recorded in the APM Detailed Surveys. The species by site matrix used to derive the Species Accumulation Curve contained the full list of species recorded at each Detailed Survey Site over the multiple survey seasons.

APPENDIX J: BAT CALL IDENTIFICATION FROM THE BURRUP PENINSULA (SPECIALISED ZOOLOGICAL) (2018-2019)



Bat call identification from the Burrup Peninsula, WA

Type: Acoustic analysis

Prepared for: Animal Plant Mineral Pty Ltd

Date: 6 May 2019

Job No.: SZ474-489

Prepared by: Kyle Armstrong and Yuki Konishi

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This report should be included as an appendix in any larger submission to Government, and cited as:

Specialised Zoological (2019). Bat call identification from the Burrup Peninsula, WA. Acoustic analysis. Unpublished report by Specialised Zoological for Animal Plant Mineral Pty Ltd, 6 May 2019, Job number SZ474-489.

Summary

Bat identifications from acoustic recordings are provided from the Burrup Peninsula, near Dampier in the Pilbara region of Western Australia. The identification of bat species from full spectrum WAV-format recordings of their echolocation calls was based on measurements of characteristic frequency, observation of pulse shape, and the pattern of harmonics. Eight species of bat were identified unambiguously as being present (**Tables 1–3**). Attribution of call types to species was straightforward for this dataset. The presence of the Ghost Bat *Macroderma gigas* (Megadermatidae) was detected based on one echolocation call sequence (at 19:29 on 2019-03-30; unit 536887) and one social call (at 05:20 on 2019-04-02; unit 498038). Representative echolocation calls for each identified species are illustrated (**Figure 1**), as recommended by the Australasian Bat Society (ABS 2006). Further details are available should verification be required.

Methods

Data were recorded in full spectrum WAV format with Titley Scientific AnaBat Swift and Pettersson Elektronik D500X bat detectors (sampling rate 500 kHz, set to turn on automatically at sunset and off at sunrise).

A multi-step acoustic analysis procedure developed to process large full spectrum echolocation recording datasets from insectivorous bats (Armstrong and Aplin 2014; Armstrong et al. 2016) was applied to the recordings made on the survey. Firstly, the WAV files were scanned for bat echolocation calls using several parameter sets in the software SCAN'R version 1.8.3 (Binary Acoustic Technology), which also provides measurements (in "SCAN'R output") from each putative bat pulse. The output was then used to determine if putative bat pulses measured in SCAN'R could be identified to species. This was done using a custom [R] language script that performed three tasks: 1. undertook a Discriminant Function Analysis on training data from representative calls from the Pilbara region; 2. from the measurements of each putative bat pulse from SCAN'R, calculated values for the first two Discriminant Functions that could separate the echolocation call types derived from the analysis of training data, and plotted these resulting coordinates over confidence regions for the defined call types; and 3. facilitated an inspection in a spectrogram of multiple examples of each call type for each recording night by opening the original WAV files containing pulses of interest in Adobe Audition CS6 version 5.0.2. The [R] language script also included a separate process that repeated the above steps using training data that included signals from Pilbara cave roosting bat species to assist with the detection of echolocation calls of the Ghost Bat Macroderma gigas. Species were identified based on information in McKenzie



and Bullen (2009) and the author's own reference calls; and nomenclature follows Jackson and Groves (2015).

Limitations

The identifications presented in this report have been made within the following context:

- 1. The identifications made herein were based on the ultrasonic acoustic data recorded and provided by a 'third party' (the client named on the front of this report).
- 2. The scope of this report extended to providing information on the identification of bat species in bulk ultrasonic recordings. Further comment on these species and the possible impacts of a planned project on bat species were not part of the scope.
- 3. In the case of the present report, the recording equipment was set up and supplied by Specialised Zoological. The equipment was operated by the third party during the survey.
- 4. Other than the general locality of the study area, Specialised Zoological has not been provided with detailed information of the survey area, has not made a site visit to observe the habitats available for bats, nor have we visited the specific project areas on a previous occasion.
- 5. Specialised Zoological has had no input into the overall design of this bat survey, including its timing, recording site placement, nor degree of recording site replication.
- 6. While Specialised Zoological has made identifications to the best of our ability given the available materials, and reserves the right to re-examine the data and revise any identification following a query, it is the client's and / or proponent's responsibility to provide supporting evidence for any identification, which might require follow-up trapping effort or non-invasive methods such as video recordings. Specialised Zoological bears no liability for any follow-up work that may be required to support an identification based initially on the analysis of acoustic recordings undertaken and reported on here.
- 7. There are a variety of factors that affect the 'detectability' of each bat species, given the frequency, power and shape characteristics of their calls. Further information on the analysis and the various factors that can impinge on the reliability of identifications can be provided upon request.
- 8. The analysis of ultrasonic recordings is one of several methods that can be used to survey for bats, and comprehensive surveys typically employ more than one method. If an identification in the present report is ambiguous or in question, a trapping programme would help to resolve the presence of the possibilities in the project area.



References

- ABS (2006). Recommendations of the Australasian Bat Society Inc for reporting standards for insectivorous bat surveys using bat detectors. *The Australasian Bat Society Newsletter* 27: 6–9. [ISSN 1448-5877]
- Armstrong, K.N. and Aplin, K.P. (2014). Identifying bats in an unknown acoustic realm using a semi-automated approach to the analysis of large full spectrum datasets. Oral presentation at the 16th Australasian Bat Society Conference 22–25 April 2014, Townsville, Queensland. *The Australasian Bat Society Newsletter* 42: 35–36.
- Armstrong, K.N., Aplin, K.P. and Crotty, S. (2016). A pipeline and app for massive filtering, and assisted inspection of enormous acoustic datasets. Poster presentation at the 17th Australasian Bat Society Conference, 29 March-1 April 2016, Hobart, Tasmania, Australia. *The Australasian Bat Society Newsletter* 46: 51.
- Jackson, S.M. and Groves, C.P. (2015). *Taxonomy of Australian mammals*. CSIRO Publishing, Victoria.
- McKenzie, N.L. and Bullen, R.D. (2009). The echolocation calls, habitat relationships, foraging niches and communities of Pilbara microbats. *Records of the Western Australian Museum* Supplement 78: 123–155.

Table 1. Species identified in the present survey from all sites combined.

MEGADERMATIDAE	
Ghost Bat	Macroderma gigas
EMBALLONURIDAE	
Common Sheath-tailed Bat	Taphozous georgianus
VESPERTILIONIDAE	
Gould's Wattled Bat	Chalinolobus gouldii
Little Broad-nosed Bat	Scotorepens greyii
Finlayson's Cave Bat	Vespadelus finlaysoni
MOLOSSIDAE	
White-striped Free-tailed Bat	Austronomus (=Tadarida) australis
Greater Northern Free-tailed Bat	Chaerephon jobensis
Northern Coastal Free-tailed Bat	Ozimops (=Mormopterus) cobourgianus



Table 2. Species identifications, with the degree of confidence indicated by a code—survey in November 2018. Date and serial/unit number correlates with site; see **Table 1** for full species names.

	C. jobensis	O. cobourgianus	S. greyii	T. georgianus	V. finlaysoni
D500X 1009					
19/11/2018				*	_
D500X 1011					
19/11/2018	_	1		\	_
20/11/2018		*		*	_
21/11/2018	_			♦	_
22/11/2018		_	_	•	_
AnaBat Swift 450057					
19/11/2018	_	\	•	\	•
20/11/2018	•	*		*	_
21/11/2018				*	_
22/11/2018				*	
AnaBat Swift 450083					
19/11/2018	_	♦	♦	♦	♦
20/11/2018	_	•	•	•	_
21/11/2018	_	♦	♦	♦	_
22/11/2018	_	_	♦	•	_

Definition of confidence level codes:

- Not detected.
- ◆ Unambiguous identification of the species at the site based on measured call characteristics and comparison with available reference material. Greater confidence in this ID would come only after capture and supported by morphological measurements or a DNA sequence.
- **NC Needs Confirmation**. Either call quality was poor, or the species cannot be distinguished reliably from another that makes similar calls. Alternative identifications are indicated in the *Comments on identifications* section of this report. If this is a species of conservation significance, further survey work might be required to confirm the record.



Table 3. Species identifications, with the degree of confidence indicated by a code—survey in April 2019. Date and serial/unit number correlates with site; see Table 1 for full species names and Table 2 for an explanation of confidence level codes.

	A. australis	C. gouldii	C. jobensis	M. gigas	O. cobourgianus	S. greyii	T. georgianus	V. finlaysoni
AnaBat Swift 497962								
30/03/2019					•	•	♦	•
31/03/2019	_	•	_	_	•	♦	♦	•
1/04/2019	_	_	•	_	•	♦	♦	•
2/04/2019	•	_	_	_	♦	♦	♦	•
3/04/2019		_	_	_	_	♦	♦	•
4/04/2019		_	_	_	•	•	♦	•
5/04/2019	_	_	•	_	♦	•	♦	•
6/04/2019	_				•	•	♦	•
AnaBat Swift 498038								
30/03/2019	_	_		_	•	•	•	•
31/03/2019	_	_	_	_	_	*	♦	•
1/04/2019	_	_	_	•	•	*	♦	•
2/04/2019	_	_	_			*	♦	•
3/04/2019	_	_	_	_	•	*	♦	•
4/04/2019	_	_	_			*	♦	•
5/04/2019	_	_	_		•	*	♦	•
6/04/2019	_	_	_	_	•	*	♦	•
AnaBat Swift 536846								
30/03/2019	_	_	_	_	*	•	♦	•
31/03/2019	•					•	_	•
1/04/2019						•	♦	•
2/04/2019	_	_	_	_	_	♦	♦	•
3/04/2019					•	•	♦	•
4/04/2019	_	_	_	_	_	♦	♦	•
5/04/2019	_				•	•	♦	•
6/04/2019	_				*	•	♦	•
AnaBat Swift 536887								
30/03/2019	_	_	_	•	♦	♦	♦	•
31/03/2019	_	_	_	_	_	♦	♦	•
1/04/2019					♦	♦	♦	♦
2/04/2019	_	_	_	_	♦	♦	♦	•
3/04/2019					♦	♦	♦	•
4/04/2019	_	_	_	_	_	♦	♦	•
5/04/2019	_	_	_	_	♦	♦	♦	•
6/04/2019	_	_		_	_	♦	♦	•



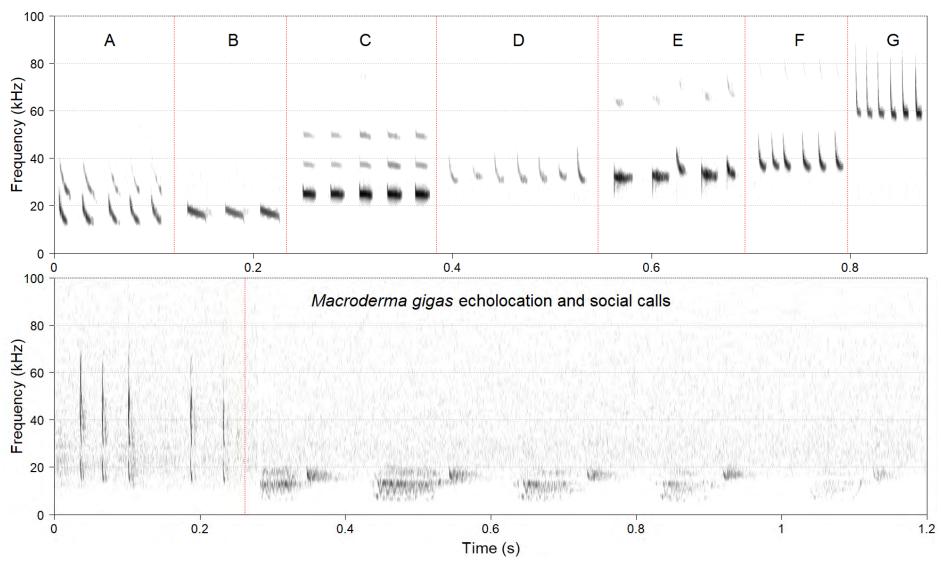


Figure 1. Representative call sequence portions of the species identified (**Top**: **A**: Austronomus australis; **B**: Chaerephon jobensis; **C**: Taphozous georgianus; **D**: Chalinolobus gouldii; **E**: Ozimops cobourgianus **F**: Scotorepens greyii; **G**: Vespadelus finlaysoni; time between pulses has been compressed).



APPENDIX K: BIRD CENSUS (APM, 2018-2019) RESULTS

	Pre Dry Season				Post Dry Season					
Species	19/11/2018	20/11/2018	21/11/2018	22/11/2018	1/04/2019	2/04/2019	3/04/2019	4/04/2019	5/04/2019	Grand Total
Australian Pipit				1	1	2	3	5	8	20
Black Kite							1			1
Black-eared Cuckoo							2	2	3	7
Black-faced Cuckoo-shrike	11		9	7	2	1	2	5	5	42
Black-faced Woodswallow	27	40	25	26	5	24	4	27	25	203
Black-shouldered Kite							1	1	4	6
Black-winged Stilt					1	3	9			13
Brahaminy Kite	3		1		1					5
Brown Falcon		3								3
Brown Goshawk							1			1
Brown Honeyeater			3		3		1	8	5	20
Brown Quail		2					2			4
Budgerigar					66					66
Caspian Tern									1	1
Common Greenshank					25	5	7			37
Crested Pigeon	12	3	17	4		2		4	8	50
Crimson Chat	1		2							3
Diamond Dove								2		2
Eastern Osprey	2									2
Fairy Martin			2		1			2		5
Galah		3	17	7		3		6		36
Grey Teal						1		2		3
Grey-tailed Tattler					36	15	6			57
Horsefield's Bushlark		2		1		1				4
Lesser Crested Tern	1									1
Little Corella	6	87	220	163						476
Little Egret	1			1	6	6	1	4	1	20
Magpie-lark							3		1	4
Nankeen Kestrel	2	5	2	2	5	2	2	3	5	28
Pacific Golden Plover					1					1
Painted Finch	46	22	36	14			6		6	130
Pallid Cuckoo					1			1	5	7
Peaceful Dove		3			3					6
Pied Butcherbird	1		5	2	8	11	12	6	15	60
Pied Cormorant							10			10
Rainbow Bee-eater		8								8
Red-backed Kingfisher		2	2	1	3			1	2	11
Red-browed Pardalote		2								2
Red-capped Plover		14		4	30	19	9	16	15	107
Red-necked Stint		1								1

Rufous Songlark		11	13	4	2	1	3	15	14	63
Silver Gull		2				1				3
Singing Honeyeater	43	57	40	30	27	17	13	29	28	284
Spinifex Pigeon	12	24	12	11	6	6		1	22	94
Spotted Harrier	1		1							2
Star Finch	8									8
Striated Pardalote					1	2	1	1		5
Torresian Crow	11	12	6	4		1	11	1		46
Tree Martin					8					8
Wedge-tailed Eagle				1						1
Weebill		6								6
Welcome Swallow					3		2		3	8
Whimbrel					2	1			2	5
Whiskered Tern					10	5	5	1		21
Whistling Kite	5	8	1	2		1	2	1	1	21
White-bellied Sea-eagle									1	1
White-faced Heron								1		1
White-plumed Honeyeater		15	27	9		19	10	12	9	101
White-winged Fairywren					4					4
White-winged Triller	4	10	7	1	5	3	3	9		42
Willie Wagtail	5	2	1	7	3	4	5	5	7	39
Yellow Throated Miner	26	35	20	8	26	10	10	20	35	190
Zebra Finch	15	164	71	58	82	14	13	21	29	467
Grand Total	243	543	540	368	377	180	160	212	260	2883

APPENDIX L: Species Accumulation Curve Memorandum

TO: CARDNO

DATE:

FROM:

Dr Eleanor Hoy

Att: Daniel Hunter

12 March 2020

Manager Environmental Approvals

Project: Perdaman Project, Burrup Peninsula, Western Australia.

Email: Daniel.Hunter@cardno.com.au

Ph: 08 6461 0739

Biological Sciences Manager



Animal Plant Mineral Pty Ltd

Phone (08): 6296 5155

Email: eleanor@animalplantmineral.com.au

RE: Species Accumulation Curve Memo for the Perdaman Project, Burrup Peninsula

Dear Daniel

A species accumulation curve (SAC) can be used to assess the effectiveness of sampling methods. This method of estimating species richness illustrates the accumulation of new species and plateaus when no new species are added to the assemblage. In other words, as the curve reaches an asymptote, it suggests that the majority of trappable species in the local assemblage have been sampled. More sampling effort is required to capture rare/cryptic species, and an accumulation curve can be used to interpret whether this is required (EPA, 2016).

1 METHODS

Data

The Perdaman Urea Plant Project (the **Project**) is located within the Burrup Strategic Industrial Area, on the Burrup Peninsula, approximately 13 km northwest of Karratha and 1,300 km north of Perth. To inform an Environmental Review, Animal Plant Mineral Pty Ltd (**APM**) was engaged to undertake: i) a Level 1 Biological Survey in the pre-wet season (19 – 22 November 2018); and ii) a Level 2 Biological Survey in the post-wet season (27 March – 5 April 2019).

Overall sampling effort was assessed using SACs. These analyses assume a standard sampling effort; therefore, avifauna consensus data from both surveys, and herpetofauna (reptiles and amphibians) and mammal fauna trapping data from the post-wet season survey were analysed. Given the restriction of the data, a subset of the fauna sampled were not represented in the estimates/curves (e.g. larger species captured on camera traps, or opportunistic recordings). Furthermore, as only four species of mammals were trapped, an SAC could not be estimated for the mammal fauna.

Analysis

A range of mean species richness estimates were generated using the software *EstimateS* (version 9; Colwell, 2013a). These include the Abundance Coverage-based Estimator of species richness (ACE); Incidence Coverage-based Estimator of species richness (ICE); classic forms of 'Chao1' and 'Chao2' estimators of species richness; first- (Jack 1) and second- (Jack 2) order jackknife estimators of species richness (incidence-based); Bootstrap estimator of species richness; and Michaelis-Menten estimator of species richness computed once for analytica rarefaction curve (MMMean). The methods/equations for estimating these values are reported in the *EstimateS* User Guide (Colwell, 2013b). Estimates were generated as sample-based incidence data, randomised across 100 permutations without replacement. The values represent theoretical maxima for the number of species present

within the sampled area. The ACE, ICE, Chao1, Chao2, and Jack1 methods estimate total species richness, including species not present in any sample (Colwell, 2013b). The Chao1 and 2 estimates are considered lower bounds of species richness and are more accurate with increased reference sample size (as with all estimators of species richness). While the MMMean method has previously been the most common method to estimate asymptotic species richness (and is, therefore, included in Table 1), it is considered by the developers of *EstimateS* as outdated as the data points are non-independent and serially correlated (Colwell, 2013b).

The observed species richness curve (**Sobs**, also known as Mao Tau) was calculated using the number of species in *t* pooled samples, given the reference sample. This curve along with a selection of the species richness methods (ACE, Chao1, and Jack1) were then plotted to create the SACs for the two fauna groups.

2 RESULTS AND DISCUSSION

The results of the mean species richness estimates are reported in Table 1, while the SACs for the avifauna and herpetofauna are illustrated in Figure 1 and Figure 2, respectively.

Table 1. Mean species richness estimates for the avifauna and herpetofauna survey data.

Species Richness	Avifauna	Herpetofauna
ACE	70.83	37.76
ICE	78.97	35.75
Chao-1	69.19	42.57
Chao-2	84.92	36.93
Jack-1	78.88	34.75
Jack-2	88.9	39.67
Bootstrap	69.61	29.92
MMMean	71.35	34.53
Observed	63	26

For the avifauna, the theoretical maximum number of species ranged from 69 to 89 species, compared to the 63 species observed (Table 1). This suggests that between 71 % and 91 % of avifauna were sampled, with an average of 14 species still unsampled (Figure 1).

For the herpetofauna, the theoretical maximum number of species ranged from 30 to 43 species, compared to the 26 species observed (Table 1). This suggests that between 61 % and 87 % of herpetofauna were sampled (Figure 2).

Additional species of both avi- and herpeto-fauna were recorded opportunistically or through other (non-systematic) capture methods, e.g. camera traps or spotlighting. These will likely help to provide a fuller representation of the true species richness at the Project area.

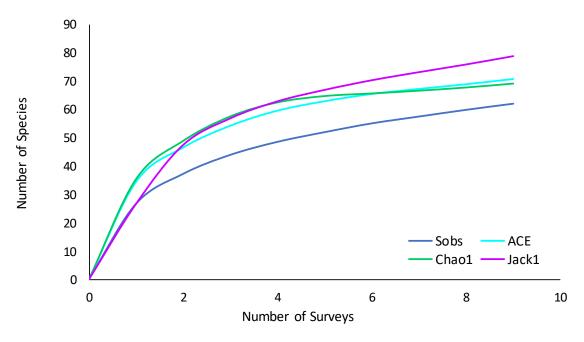


Figure 1. Species accumulation curve for avifauna.

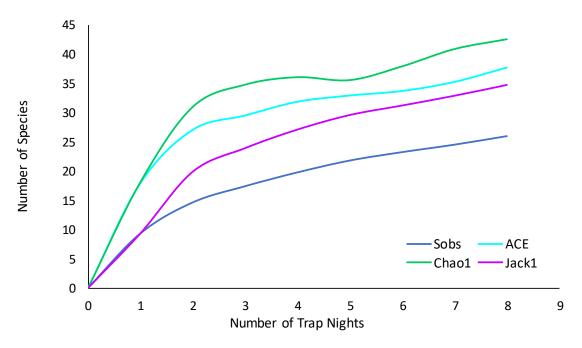


Figure 2. Species accumulation curve for herpetofauna.

REFERENCES

APM - MEMORANDUM

Colwell, R.K. (2013a). *EstimateS*: Statistical estimation of species richness and shared species from samples. Version 9. Persistent URL <purl.oclc.org/estimates>.

Colwell, R.K. (2013b). *EstimateS 9.1.0 User's Guide*. Available: http://viceroy.eeb.uconn.edu/estimateS/EstimateS Pages/EstSUsersGuide/EstimateSUsersGuide.htm

Environmental Protection Authority (EPA). (2016). *Technical Guide – Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment*. Eds. B.M. Hyder, J. Dell, and M.A. Cowan. Government of Western Australia, Perth, 57 pp. Available: http://www.epa.wa.gov.au/sites/default/files/Policies_and_Guidance/Tech%20 guidance-%20Sampling-TV-fauna-Dec2016.pdf