# DEVELOPMENT OF A BIODIVERSITY DATABASE FOR ASSESSING CONSERVATION VALUES KANGAROO ISLAND CASE STUDY



By
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Natural Resources Group
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

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1995

The views and opinions expressed in this report are those of the authors and do not reflect those of the Commonwealth Government, the Minister for the Environment, Sport and Territories, or the Director of the Australian Nature Conservation Agency

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#### CARTOGRAPHY AND DESIGN

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#### Cover Design

Compiled from the title screen graphics of the South Australian Biodiversity Database using COREL DRAW. The upper image is the underside of a leaf of the pale groundsel (Senecio hypoleucus) and the lower image is a tail feather of the Glossy Black Cockatoo (Calyptorhynchus lathami)

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### **Abstract**

In South Australia, databases which contain records of species of vascular plants and terrestrial vertebrate animals where the records are associated with an accurate geocode, are dispersed between a number of Government agencies including the Department of Environment and Natural Resources and the Department of Housing and Urban Development as well as the long term custodians of such data at the South Australian Museum and the State Herbarium. These databases have been developed for specialist uses tailored to the particular institution and they reside on a variety of hardware and software types. Common to all these databases is a basic core of information, namely a species name, date of collection or observation, a geocode and some type of record identifier.

This project set up a derived database based on this core data using a specialist biological databasing software package produced by Viridans Pty Ltd of Victoria. This software allows the development of such a derived database by using already established South Australian taxonomic databases for vascular plants and vertebrate fauna as the link that ties all these derived databases together.

In addition the Viridans package allows map coverages derived from the South Australian Geographic Information System in ARC/INFO format to be modified to an extent that allows them to run effectively on this PC-based system and then use them to produce distribution maps from the derived databases onto a variety of map bases.

The final aspect of the Viridans package provides the ability to link the database to scanned photographic images of both individual speceis of flora and fauna and to sample site photographs which are a part of the biological survey and pastoral management components of the derived database.

The project produced a complete pilot database for Kangaroo Island which included both Museum and Herbarium data while the total State coverage is at present confined to those databases derived from the Biological Survey of South Australia, the RAOU Bird Atlas, the Pastoral Assessment sites and a list of vertebrates from areas on the Register of the National Estate.

It is the first time that this range of databases have been brought together in South Australia.

Some preliminary biodiversity analysis has also been carried out on the Kangaroo Island sub-set of data using some of the standard analytical tools available in the Viridans software package.

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The data that comprises this database was collected by thousands of dedicated field biologists who, for over 100 years have been working, often in very difficult conditions, to collect, catalogue and describe the vascular plants and vertebrate fauna of South Australia.

We thank members of the State Herbarium who have supported this project, in particular, Dr Bill Barker, Dr John Jessop and Dr Laurie Haegi.

We thank members of the South Australian Museum who also supported the project, in particular, Dr Mark Hutchinson, Ms Lynette Queale and Dr Chris Watts.

We thank members of the Geographic Analysis and Research Group of the Department of Housing and Urban Development who are responsible for the South Australian Geographic Information System for their cooperation in providing ARC/INFO map layers in the correct formats to be incorporated into the Viridans software, in particular Mr Iain Malcolm and Mr David Goodwins.

The Pastoral Management group in the Department of Environment and Natural Resources helped with the development of the project, provided data from their pastoral lease assessments and greatly assisted with computing problems, we particularly thank Mr Ashleigh Coombs.

The Nature Conservation Society of South Australia, as recipients of a grant which enabled the development of the database of lists of vertebrate species from areas on the Register of the National Estate which provided another important source of data for this work. Thanks for the efforts of Ms Helen Owens, their project officer for this program.

The many photographers who over the years have contributed to the Biological Survey and Research Section photographic collection and also to Victorian photographers who have provided photographs to Viridans all contributed to the high quality of the images included in the final database.

DENR field staff on Kangaroo Island particularly Mr Fraser Vickery, Mr Robert Ellis and Mr Jodie Gates for their early enthusiastic support for the system to be trialed on the island, we consider that they will find the results a useful aid in conservation management.

Mr Brenton Grear, and consultant Mr Chris Prescott who are responsible for the development of the Protected Areas Management System being developed for the Natural Resources Group of DENR discussed ways of linking the Viridans database into the PAMS structure, avoiding duplication of data and began consideration of responsibilities for maintenance of particular components of these two databases.

Finally, thanks to the members of the Biological Survey Coordinating Committee for their support over the years of systematic biological survey of this State which has allowed this database to be as extensive and accurate as it is.

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### Introduction

#### **BACKGROUND AND AIMS**

For some years now the Biological Survey and Research Section, Resource Management Branch, Department of Environment and Natural Resources and the South Australian Museum have been carrying out a series of systematic surveys of the vegetation and vertebrate fauna of large regions of South Australia. Previous surveys have been conducted or are currently in progress for the States Offshore Islands (excluding Kangaroo Island) (1971 - 1982), the South-East Coast (1982 - 1983), Cooper Creek (1983, 1991), the Nullarbor Plain (1984), the Gawler Ranges (1985), the Yellabinna area (1987), Kangaroo Island (1989 - 1990), Strezelecki Dunefields (1988 - 1992), Murray Mallee (1990 -1991) Anangu Pitjantjatjara Lands (1991 -), the South Olary Plains (1991 - 1992), Diamantina River Area (1994), the Stony Deserts (1994 -) the North Olary Plains (1995-), the Grassy Woodlands of the South East (1995-) and the Grasslands of the Mount Lofty Block (1995-). With the exception of the Offshore Island surveys and the recent more specialised habitat oriented surveys, the regional boundaries of these surveys have been based on the Environmental Regions and the Environmental Associations described and mapped for South Australia (Laut, Heyligers, Keig, Loffler, Margules, Scott and Sullivan, 1977). In addition to these vegetation and vertebrate surveys, vegetation sampling, analysis and mapping only has been completed or is in progress for the following areas:- South Mount Lofty Ranges (1986), Tallaringa Area (1988), Murray Mallee (1990), South-East (1991), Western Murray Flats (1991), Mid-North (1992), Burra Hills (1994), Yorke Peninsula (1994), Southern Eyre Peninsula (1995-) and the South Australian Coast (1995-).

A relatively recent development in the biological survey programme differs somewhat from those listed above in that they have been carried out in response to a need for biological information relating to a particular

development proposal. The first of these development oriented biological surveys was carried out in 1994 at Messent Conservation Park in order to adequately assess the possible impacts of a surface water drain proposed to be cut across the south east corner of the park as part of the Upper South East Dryland Salinity and Flood Management Plan. In 1995 a survey of Yumbarra Conservation Park was completed in response to a mineral exploration proposal for the park. Although these surveys were related to particular developments with more intensive sampling than the regional surveys conducted previously, they utilised the standard sampling, analysis and presentation techniques developed as part of the Biological Survey of South Australia.

These surveys are planned by the South Australian Biological Survey Coordinating Committee which currently consists of the following representatives: Dr Tony Robinson, Chair, (Manager, Biological Survey and Research, Resource Management Branch, DENR), Mr Keith Casperson, (Scientific Officer, Biological Survey and Research Section, Resource Management Branch, DENR), Mr Peter Copley, (Scientific Officer, Biological Survey and Research Section, Resource Management Branch, DENR), Dr Karen Edyvane, (Leader, Environment and Conservation Program, South Australian Research and Development Institute), Mr Doug Fotheringham, (Senior Scientific Officer, Coastal Management, Resource Management Branch, DENR), Dr Laurie Haegi, (Assistant Director, Botanic Garden, DENR), Ms Leonie Heard, (Scientific Officer, Geographic Analysis and Research, Department of Housing and Urban Development), Dr Mark Hutchinson, (Curator of Reptiles and Amphibians, South Australian Museum), Dr Bob Inns, (Manager, Wildlife Management, Resource Management Branch, DENR), Mr David Maschmedt, (Land Evaluation Officer, Primary Industries South Australia), Mr Rodger Tynan, (Senior Rangelands Officer, Outback Management,

Resource Management Branch, DENR), Dr Chris Watts, (Chief Scientist, South Australian Museum).

Under the Australian Nature Conservation Agency (ANCA) National Reserves System Cooperative Program 1994/95 a grant of \$48 000 was made to the Biological Survey and Research Section, DENR for the 'Development of methodology applicable to ARC/INFO and biological databases to illustrate nature conservation values of designated areas. In March 1995 this project was re-negotiated with ANCA under the title 'Development of a biodiversity database for assessing conservation values - Kangaroo Island case study'. The project was to:

- 1 Establish a derived database and information retrieval system using commercially available software and taking into account SA Government computing standards
- 2 Incorporate into this software package a series of statewide biogeographic, topographic and selected land tenure coverage currently held in digital ARC/INFO format in the South Australian GIS.
- 3 Incorporate some more detailed coverage for Kangaroo Island ie:- floristic vegetation and NPWS reserve fire boundaries from the GIS.
- 4 Derive a read-only database on the vegetation and vertebrate fauna of Kangaroo Island from the following sources:
- a) The South Australian Biological Survey Database
- b) The South Australian Museum specimen databases for mammals, some birds, reptiles and amphibians
- c) The State Herbarium specimen databases for some plants
- d) The Vertebrate lists for areas of the National Estate developed by the Nature Conservation Society of S.A.
- e) The Protected Area Management System of DENR
- 5 Develop simple data transfer procedures from all these databases into the read-only software package to allow regular updating of the database and potential expansion to cover the whole State.

- 6 Establish this software at a series of selected locations, including the two NPWS District offices on Kangaroo Island the South Australian Museum, the State Herbarium and the Kensington offices of DENR and train selected staff in software use.
- 7 Use this integrated Kangaroo Island data set to develop and map indices of biodiversity and examine the existing conservation reserve and heritage agreement network to determine its representation of the island's biodiversity.
- 8 Comment on applicability of the method for broader use in the development of a National Reserve System.

Negotiations were begun through the Biological Survey Coordinating Committee to obtain access to appropriate data from Kangaroo Island held by the South Australian Museum, the State Herbarium, and the Pastoral Management Branch to add to biological survey and related data already held by the Biological Survey and Research Section. In addition appropriate maps were sourced from the South Australian Geographic Information System.

In June 1995 a specialist biological databasing company, Viridans Pty Ltd was contracted to establish a statewide biological database for vascular plants and terrestrial vertebrates of South Australia.

The specific aim of the consultancy was to use this statewide database as a framework for more intensive biodiversity study of Kangaroo Island.

In addition to items 1-8 above the consultancy was required:

To derive read-only files on the vegetation and / or vertebrate fauna of the whole State from the following sources:

- a) The South Australian Biological Survey Databases
- b) The Royal Australian Ornithological Association Bird Atlas database
- c) The property assessment files of the Pastoral Management Branch at DENR
- d) The rare plant database at DENR.

## **Methods**

#### **DATABASES**

Databases on the distribution of South Australian vascular plants and vertebrates were supplied by DENR in June 1995. In addition databases - for Kangaroo Island only - were provided by the South Australian Museum (reptiles, amphibians and terrestrial mammals), and the State Herbarium (vascular plants) The databases were transported to Melbourne on large-capacity, removable disk drives and were converted to Viridans database format (VDF) during June and July.

Twelve distribution databases were established in all and each was assigned a letter code. In addition the twelve were broken into two database sets - one for flora, one for fauna. These databases are as follows:

Table 1
Composition of the Flora databases at October 1995

DATABASE	NO. OF	NO. OF SPECIES
	SITES	RECORDS
DENR survey data	11 458	275 583
(letter code S)		
DENR opportune data	245	2 177
(letter code O)		
DENR rare plant records	794	1 284
(letter code R)		_
DENR non-rare plant	776	4 916
species associated with		
rare plants (letter code A)		
DENR pastoral lease	2 064	35 266
assessment plots		
(letter code L)		
Herbarium specimen	5 591	5 591
records (letter code H)		

Summary ten-minute grid data (incorporates all data from other databases into a grid system - letter code G)

Table 2
Composition of the Fauna databases at October 1995

DATABASE	NO. OF	NO. OF SPECIES
	SITES	RECORDS
DENR survey data	1 592	99 684
(letter code S)		'
DENR opportune data	6 015	10 362
(letter code O)		
NCSSA National Estate	291	14 622
lists	•	
(letter code P)		
RAOU Bird Atlas data	1 609	75 965
(letter code A)		<u></u>
Museum specimen records	1 981	1 981
(letter code M)		

Summary ten-minute grid data (incorporates all data from other databases into a grid system - letter code G)

Each of the database sets use a lookup table of scientific and common names which are referenced to the databases via a unique species code.

The flora lookup table consists of 6 098 taxa
The fauna lookup table consists of 2 381 taxa

Further details of the main databases that the Viridans databases were derived from are given below:

#### Biological Survey of South Australia

The standard database for all these surveys are held as part of the South Australian Geographic Information System (GIS) which is managed by the Geographic Analysis and Research Group (GAR) in the Department of Housing and Urban Development. They are held on a Hewlett Packard 900/847S with an HP-UNIX 9.04 operating system. Applications are currently written in POWERHOUSE but they are in the process of conversion to ORACLE.

#### South Australian Museum

The South Australian Museum has a large collection of mammals, birds, reptiles and amphibians from South Australia with collections dating back to the late 1800's. At present only the mammal, reptile and

amphibian collections are computerised and they are stored on a PC-based system using TITAN software. All voucher specimens collected as part of the Biological Survey of South Australia are lodged in the Museum collections. The Vertebrate Taxonomic database which is included in the SURVEY database has been developed by the appropriate curators and collection managers at the museum and this list is published periodically, the most recent edition being Watts (1990). The taxonomic list SAVERT which forms part of the present databasing project is an updated version of Watts (1990). It is closely similar to but not identical with the taxonomic list in the Museum's TITAN database.

#### State Herbarium

The State Herbarium of South Australia, like the museum, has a very large collection of South Australian vascular plant specimens numbering in the order of 400 000. All voucher specimens collected as part of the Biological Survey of South Australia are lodged in the Herbarium collections They currently have almost 60 000 specimens databased on a PC-based TITAN system. Groups on the database include, Eucalyptus, Casuarinaceae, Selected Grass Genera, Solanaceae (most), Malvaceae (most), Scrophulariaceae and Spyridium (part). The Vascular Plant Taxonomic database which is included in the SURVEY database has been developed by the appropriate taxonomists at the State Herbarium and this list is published

periodically, the most recent edition being Jessop (1993). The taxonomic list SAFLORA which forms part of the present databasing project is an updated version of Jessop (1993). It is closely similar to but not identical with the taxonomic list in the Herbarium's TITAN database.

#### Pastoral Management DENR

Since the early 1980's management advice to pastoral lessees in the rangeland cattle and sheep grazing areas of South Australia has been based on a land systems-based Rangeland Assessment process. Part of this approach involves setting up rangeland assessment sites at selected locations in each paddock of each property and collecting a standard set of data from each site. These sites are part of an ongoing monitoring programme to determine the affects of pastoral land management practices on natural vegetation. Plant species lists (sometimes for the perennial species only, sometimes including ephemeral species) are available for each of these sites. They are stored in an Microsoft ACCESS database. The taxonomic list in this database is similar to but not identical with SAFLORA. In the current project pastoral assessment site species list data was down-loaded from sites from pastoral, leases in the Kingoonya and Gawler Ranges Soil Conservation Districts

Royal Australian Ornithological Union Bird Atlas

From 1977 to 1981 the RAOU coordinated a large group of volunteer ornithologists from throughout Australia to visit and compile lists of bird species from every 1 degree latitude/longitude grid over Australia. In a large number of cases these records were recorded and stored in 10 minute latitude/longitude grid form. DENR has a set of RAOU Bird Atlas data available on the mainframe computer which is now part of the South Australian GIS in the Department of Housing and Urban Development. The present Viridans database utilises this RAOU Bird Atlas species records located by the centroids of the 10 minute grid

#### KANGAROO ISLAND DATABASE

As part of this project a separate flora and fauna database was established for Kangaroo Island. This is a model of the type of databases

that could in future be supplied to all regional offices of DENR. Table 3 shows the current status of the Kangaroo Island database.

Note that the Kangaroo Island offices were only supplied with the ten minute grid databases and not the site databases for the whole State.

In Table 3, the number of species registered for South Australia is determined from the standard species lists (SAFLORA and SAVERT), not the number recorded from sites in the total database, whereas the number recorded for Kangaroo Island is based on the survey data.

It should also be noted that since the Museum and Herbarium data was only from Kangaroo Island so the number of records for SA as a whole is not indicative of the Museum and Herbarium databases as a whole.

In addition, there is data from both of these institutions that have not been databased yet. For example, the museum records do not include any information on birds and there are still about 4 000 plant records from Kangaroo Island in the Herbarium which have not yet been added to their database.

Within these constraints then, the purpose of this table therefore is to demonstrate the relative contributions to the database so far from survey-based data compared with specimen-based data and how the Kangaroo Island database compares with that of the State as a whole.

Table 3

A comparison of site and species data from survey-based and specimen-based databases for South Australia and for Kangaroo Island

INFORMATION TYPE	SOUTH	KANGAROO
	AUSTRALIA	ISLAND
Total Number of Flora species	6 098	1 063
Total Number of Fauna species	2 3 1 8	317
Total Number of Flora sample sites	20 016	5 086
Total Number of Fauna sample sites	11 448	2 448
Number of Flora survey sites	15 478	548
Number of species from Flora surveys	3 616	844
Number of Herbarium specimen sites	5 086	5 086
Number of species from Herbarium specimens	862	862
Number of Fauna survey sites	9 984	944
Number of species from fauna survey	707	290
Number of Museum specimen sites	1 504	1 504
Number of species from Museum specimens	67	67

The distribution of these sample sites across South Australia and on Kangaroo Island are shown in Figures 1-4

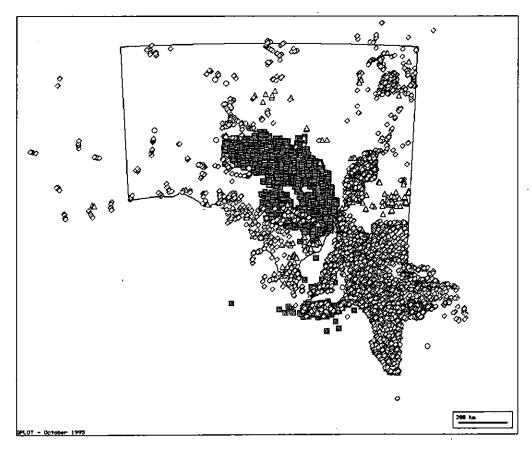


Figure 1
The location of site-based flora data in the database in October 1995. Databases H, L, O, R, A and S are represented and each is indicated with a different symbol

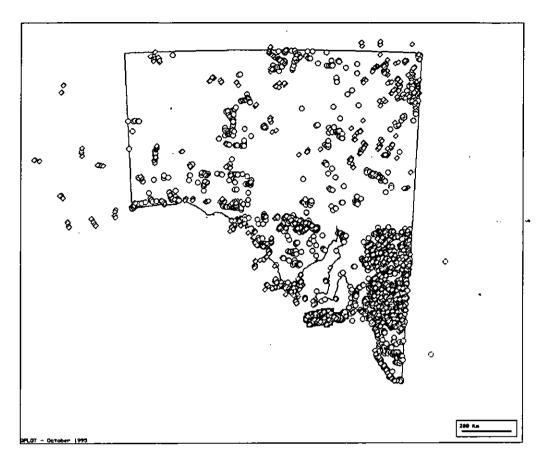


Figure 2
The location of site-based fauna data in the database on October 1995. Databases M, O and S are represented and each is indicated with a different symbol

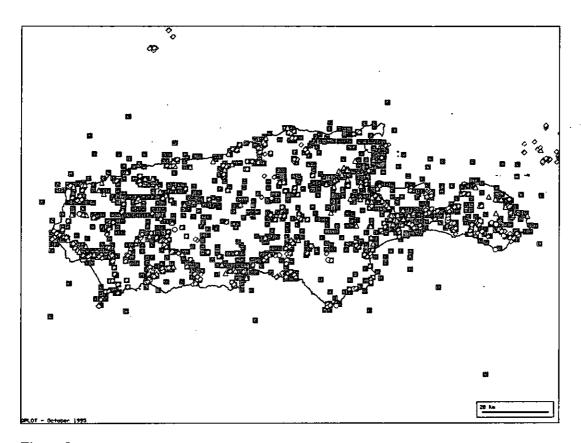


Figure 3
The location of site-based flora data for Kangaroo Island in the database on October 1995.
Databases H, O and R are represented and each is indicated with a different symbol

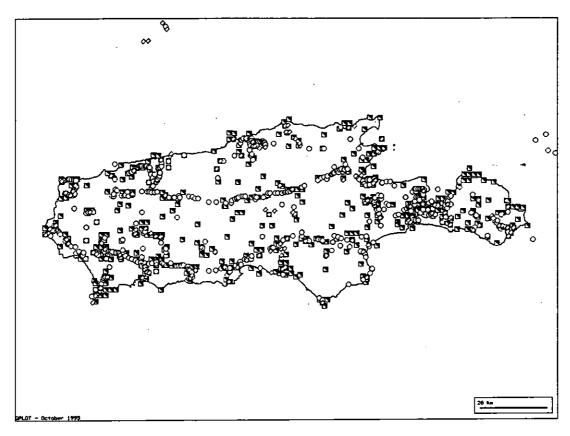


Figure 4
The location of site-based fauna data for Kangaroo Island in the database on October 1995.
Databases M, O and S are represented and each is indicated with a different symbol

#### MAP COVERAGE

Digital vegetation maps produced as part of the Biological Survey of South Australia are also part of the South Australian GIS and are held on ESRI ARC-INFO software.

Viridans provided a 1:1 000 000 map base for South Australia in digital form which has been set up to work in the Viridans system. This map includes coastline, state boundaries, rivers, lakes, roads, built-up areas, town names and topography. A printout of the high resolution version of this map with the topographic background is shown in Figure 5.

Viridans also digitised and provided 1: 1 000 000 cover of original vegetation and soil for South Australia. The vegetation map is shown in Figure 6.

The DHUD supplied Viridans with 1:50 000 scale digital data for Kangaroo Island in ARC/INFO format from the South Australian

GIS. Coverage included coastline, roads, rivers, lakes, park boundaries and heritage agreement area boundaries. Some editing was done on the detailed coverage such as rivers and contours to produce the final coverage. This was necessary as the Viridans package is PC-based and some large coverage's which work well on a mini-computer will be too slow on a PC.

#### PHOTOGRAPHIC IMAGES

#### Flora and Fauna

Part of the Viridans software is the facility to display descriptive illustrations of the flora and fauna in the database. Viridans has captured images of a number of South Australian species and these were incorporated into the database provided. In addition a large number of images of the flora and fauna of Kangaroo Island were provided by DENR for the project.

All Biological Survey of South Australia sample sites are photographed in a standard manner as are all Pastoral Management rangeland assessment sites. All vertebrate sampling sites and all rangeland assessment sites are also permanently marked in the field and located as accurately as possible with current technology. The set of these site photopoints for all sites on Kangaroo Island were digitised and included in the Viridans database using the same conventions as for the plant and animal images.

Selected slides were scanned by Kodak Australia Pty Ltd and transferred to Photo CD as a standard "16 Base" product. Using proprietary image processing software the 512x768 pixel, 24 Bit colour, PCD image was colour optimised and sharpened as required and converted to 24 Bit colour PCX format.

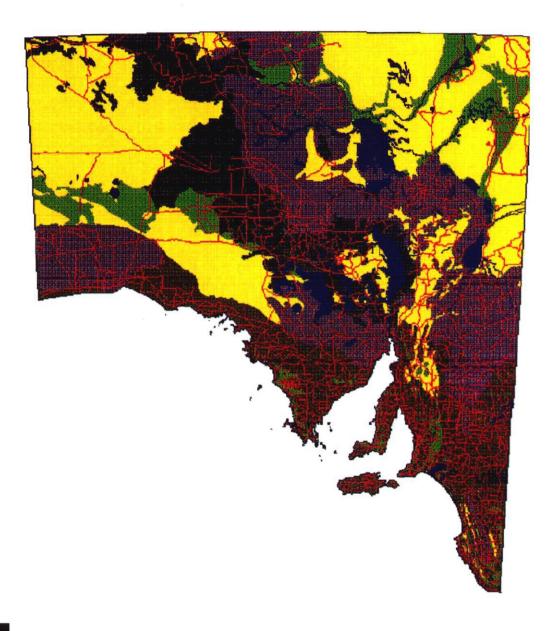
For photopoint images and full screen images for individual species, standard cut and paste techniques were used on the above images to produce a collage on a standard grey background. The final image was saved as a 800x600 pixel, 256 colour, PCX image. The images are stored for the Viridans database in this format to allow them to load quickly, look good on the computer screen and give acceptable quality when printed

For smaller pictures used to illustrate species on species lists an appropriate portion of the images were cut and saved as 160x120 pixel, 256 colour BMP images.

An example of an animal image using one of the Viridans standard retrievals is shown in Figure 7. A site photo, again using a standard Viridans retrieval is shown in Figure 8.

#### **DESCRIPTIVE TEXT**

In addition to the illustrations the Viridans software can incorporate descriptive text on the flora and fauna into the database. Those texts that have been completed for South Australian species are incorporated into the database (see Figure 7).



Forest
Hoodland
Tall Shrubland
Shrubland
Grassland
Coastal Succession

Figure 5. The vegetation coverage of South Australia in the database

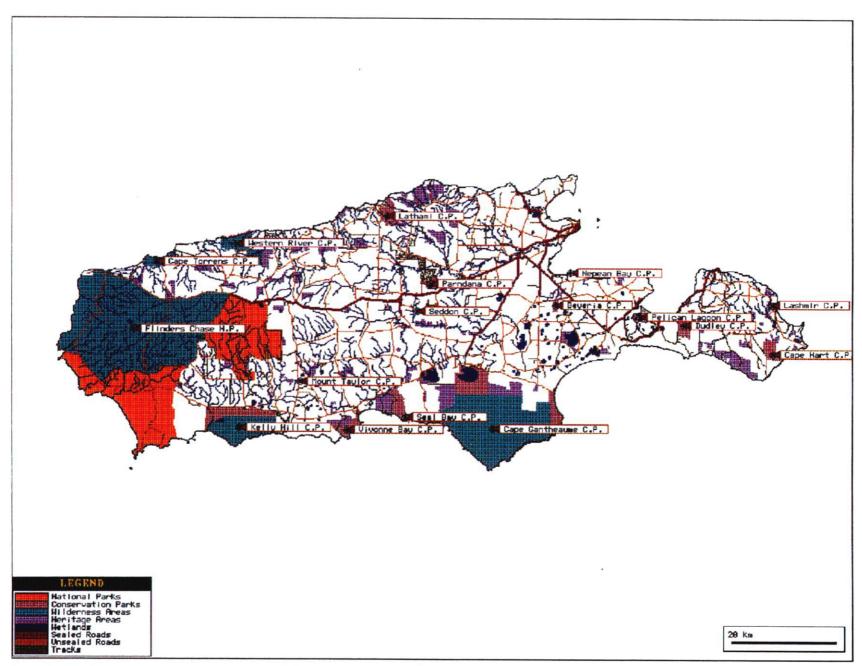


Figure 6. The high resolution map of Kangaroo Island showing conservation land types

# Cape Barren Goose

Cereops is novaehollandiae novaehollandiae

GENERAL APPEARANCE: A large, pale-grey goose with a short black and yellow bill.

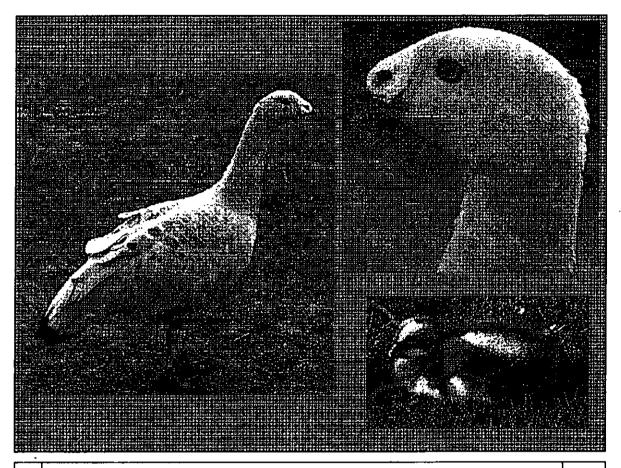
CALL: A load honk, usually utbered in flight or when disturbed.

DET: Grasses, sadges and herts found in the open grassy areas in which they graze.

NEST: A mat of grassy or sedgey material often arranged in a stight depression in the ground.

NOTES: This is one of the rarest species of goose whose population has decreased dramatically since European settlement of the native grasslands which formed its natural habitat. It is found most often in near-coastal grasslands (both native and non-native) in summer. It grazes in these areas but breads only on offshore fistands.

PHOTO CREDIT: Viridans Biological Databases



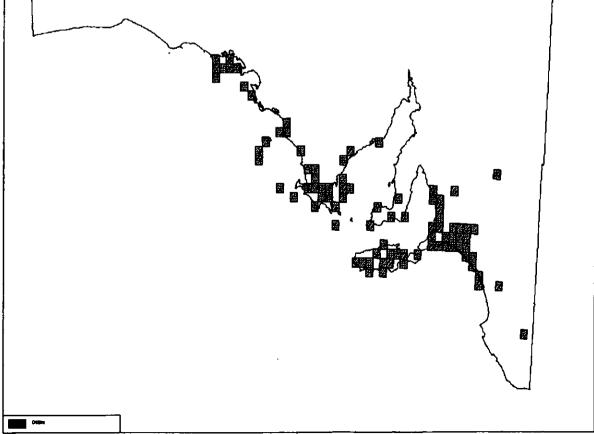
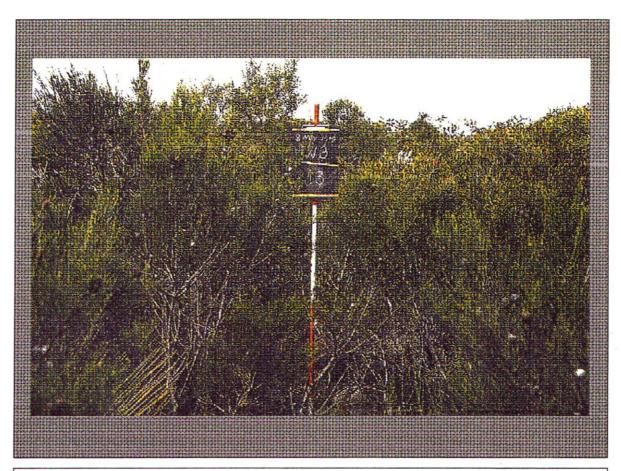


Figure 7. A standard printout of an animal image and associated information

Number of Spp: 17 Longitude: +136°34'02" Latitude: -35°52'32" Date: 08 Nov 1990 Vegetation: Altitude: 86 Collector: 015WB0130001



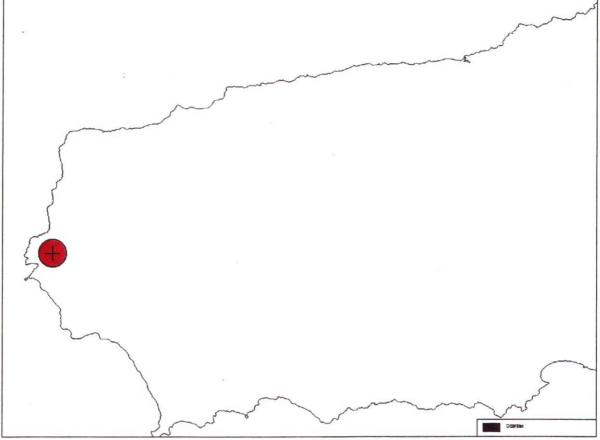


Figure 8. A standard printout of site location data

### Results

### BIODIVERSITY OF KANGAROO ISLAND

The Viridans software allows a number of analytical procedures to be run which produce standard outputs in the form of maps and text which can be readily transported and manipulated using MICROSOFT OFFICE software which is the current DENR standard. All illustrative material in this section has been produced in this way.

The biodiversity database for Kangaroo Island at present consists of 'sites' in four separate databases, DENR Flora Survey, DENR Fauna Survey, State Herbarium Records and SA Museum Records. Note that a single 'site' in the first two contains multiple species records while herbarium and museum 'sites' are a locality record for a single species. The sources of data in this analysis are shown in Figure 9

# SOURCE OF SITE DATA IN KANGAROO ISLAND BIODIVERSITY ANALYSIS

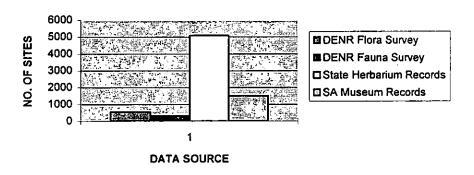


Figure 9.

The sources of site data used in the Kangaroo Island Biodiversity analysis

Representation on the basis of number of species from each source is shown in Figure 10

# SOURCE OF SPECIES DATA IN KANGAROO ISLAND BIODIVERSITY ANALYSIS

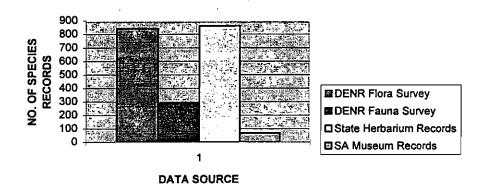


Figure 10.

The number of species from each source included in the Kangaroo Island biodiversity analysis.

In initial planning for this project it was proposed to use a biodiversity analysis for Kangaroo Island following procedures developed for East Gippsland in Cummings (1994). Unfortunately, this type of analysis required a digitised vegetation map and such a map was not available for Kangaroo Island before the deadline for completion of this project. An alternative approach was therefore used.

A 5 km grid was established over Kangaroo Island and the databases were searched for flora and fauna species richness for each grid cell. The results, divided into a series of eight classes are presented in Figures 11 and 12.

Any map layer coverage on Viridans can be isolated and used as a search polygon to derive species lists. An example of this type of search of the fauna part of the database is given below. Unfortunately, the floristic vegetation map ARC/INFO cover was not complete by the deadline for this project so the only Viridans digital map cover that could be included in this analysis was that of the various categories of conservation land use on Kangaroo Island. Viridans uses pixel counts on scaled maps to calculate the various colour coded polygon areas and these statistics for Kangaroo Island are shown in Table 4.

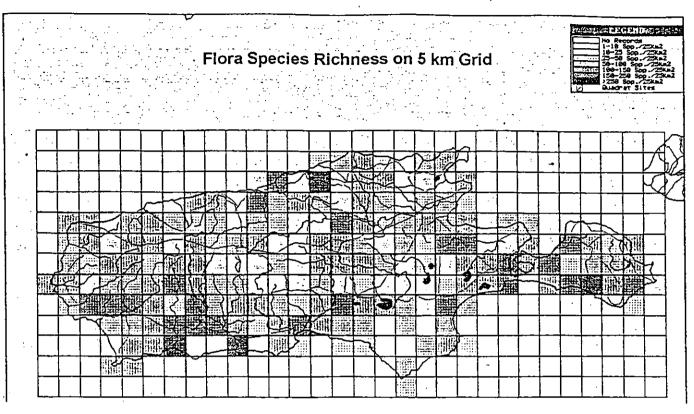


Figure 11
The kangaroo Island Biodiversity grid for flora.

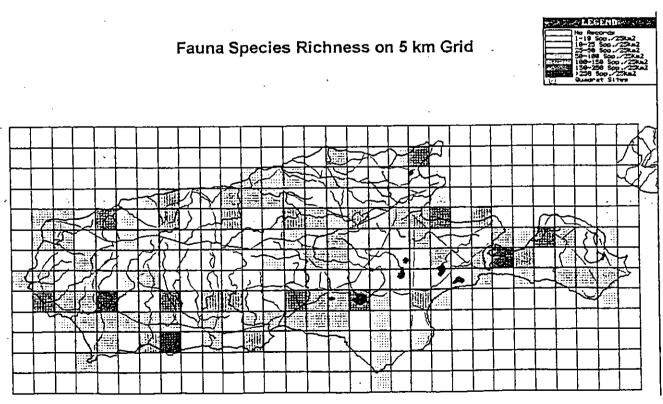


Figure 12
The Kangaroo Island Biodiversity grid for fauna

Table 4
Number of quadrats and the total area of the four mapped types of conservation land-use on Kangaroo Island

COLOUR	QUADRATS	• %	• AREA (km²)	• %	• FEATURE
118	350	11.9	707.5322	3.6	Wilderness Areas
179	104	3.5	242.5053	1.2	Heritage Areas
210	321	10.9	163.9223	0.8	Conservation Parks
241	288	9.8	331.413	1.7	National Parks
255	1871	63.8	18207.76	92.1	Other Land Use
TOTALS	2934		19762.95		

It is then possible to retrieve a file of all sites enclosed by each of these polygons representing different land uses. From this retrieval a graph was drawn showing the relative contribution of the three main databases to this analysis and this is shown in Figure 13.

## CONTRIBUTION OF DATA BY SITE ON KANGAROO ISLAND

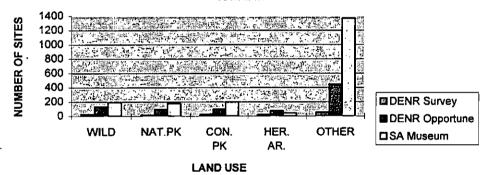


Figure 13.

The relative contributions of the various data sources for the different conservation land uses on Kangaroo Island.

Total species lists for Kangaroo Island from all the appropriate databases are provided in Appendix I (Flora) and Appendix II (Fauna).

The conservation land management polygon search described above can also be used to generate standard output species lists for the sites within that particular land management type. These lists can be presented in two ways, as a species frequency or as a taxonomically sorted species list. Examples for each of these types of lists, from the Conservation Parks of Kangaroo Island, are provided in Appendices III and IV.

Closer examination of the species lists produced by this analysis gives the results shown in Table 5

LAND USE	NUMBER OF SPECIES
WILDERNESS	124
NATIONAL. PK	103
CONS. PK	119
HERITAGE. AR.	98
OTHER	107
TOTAL SPECIES	169

Table 5
Number of fauna species recorded from each different conservation land use on Kangaroo Island

The relative contribution of each land use to the conservation of the 169 species of vertebrate fauna in the biodiversity database is shown in graph form in Figure 14.

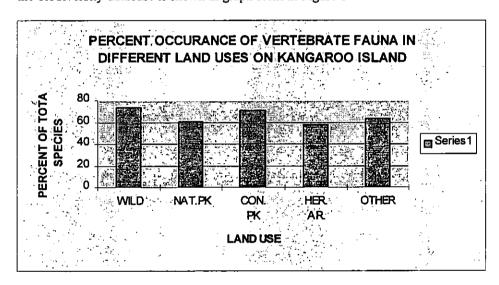


Figure 14.

The percent occurrence of the total vertebrate fauna recorded in the database on the different conservation land uses on Kangaroo Island

It is clear that all land uses individually are effective in the conservation of between 60 and 80 percent of the vertebrate fauna of Kangaroo Island. Another way of looking at this type of data is to examine the number of landuses that each species is conserved in and this is shown in Table 6 below:

SPECIES REPRESENTATION IN RANGE OF LAND USE					TOTAL	
LAND USE	ALL 5	4	3	2	l	
SPECIES	74	60	11	11	13	169
COUNT			<u> </u>			_

**Table 6.**The numbers of species recorded only for a particular range of conservation land uses.

Note that no species were found only on areas of the island in the non-conservation land use category of 'OTHER'. The eleven species represented in only two of the conservation land use categories included:

Cygnus atratus Black Swan
Oxyura australis Blue-billed Duck
Rallus pectoralis pectoralis Lewin's Rail

\*Alectura lathami lathami Australian Brush-turkey
Puffinus tenuirostris Short-tailed Shearwater
\*Pavo cristatus Indian (Blue) Peafowl

Neophema elegansElegant ParrotPorzana flumineaAustralian CrakeThreskiornis aethiopicusSacred (White) IbisIsoodon obesulusShort-nosed BandicootSminthopsis aitkeniSooty Dunnart

The 13 species represented in only one of the conservation land use categories included:

Lerista dorsalis Southern Four-toed Slider
Dacelo gigas Kookaburra

Dacelo gigas Kookaburra
Anas castanea Chestnut Teal

Anas gracilis gracilis

Pelecanus conspicillatus

Poliocephalus poliocephalus

Tachybaptus novaehollandiae

Pelagodroma marina

Australasian Grey

Hoary-headed Grebe

Australasian Grebe

White-faced Storm-Petrel

\*Streptopelia chinensis Spotted Turtle-dove

\*Turdus merula merula Blackbird

Glossopsitta concinna Musk Lorikeet
Porzana pusilla Baillon's (Marsh) Crake
Threskiornis spinicollis Straw-necked Ibis

These low frequency species in the database can also be detected in the total species list from examination of the frequency table in Appendix III. They are a mixture of specie that appear to be genuinely rare or difficult to observe such as *Sminthopsis aitkeni*, species that are poorly sampled through the survey techniques used as well as being poorly represented in Museum collections such as

water-birds and sea-birds, and recent arrivals on the island such as Blackbirds and Spotted Turtle-doves which are at present restricted to small discrete areas.

Identical analyses can be carried out on the vascular plants using the same retrievals in the Flora section of the Biodiversity database

# **Future Developments**

Like all these types of databases in Australia at present, the South Australian Biodiversity Database has many gaps. The programme of systematic site-based biological surveys in this State over the last ten years has however begun to fill in many of these gaps in our knowledge of the State's biodiversity. Where a systematic biological survey has been completed, such as for Kangaroo Island, the Viridans biodiversity database has allowed us, for the first time, to carry out the preliminary analysis of the vertebrate fauna biodiversity described above. The inclusion of specimen data from the SA Museum and the State Herbarium in this combined derived database is a first for South Australia, and probably for Australia as a whole. Even the Kangaroo Island coverage however is still incomplete since at the time of establishment of the present database there were still approximately 4000 Herbarium specimens from Kangaroo Island not in their TITAN database and hence unable to be included in the derived Viridans Biodiversity Database. Likewise, none of the bird collections from the South Australian Museum could be included as the task of setting up a TITAN database for their bird collections has just begun.

The Viridans software has provided an inexpensive, user-friendly, PC-based system which not only allows the data holding institutions to carry out plotting and data analysis functions that were not possible for them to do in-house before, but it has brought together a consistent basic derived database of all the significant collections of geo-coded information on the vascular plants and terrestrial vertebrate fauna of South Australia.

It is theoretically possible to network all these collections, in spite of the wide range of different software and database types that they are established on, but, given the range of variation even in the four basic fields derived from these institutional databases revealed by

the present project, such networking would, in reality pose considerable practical difficulties.

In addition the Viridans software provides a combination of databases, map and image files that to our knowledge is not available anywhere else in a single software package. It does not, and does not pretend to be a competitor with or substitute for the large and expensive packages such as ARC/INFO, but it does provide easy access to this large body of biological data.

This project has established that both databases stored on a variety of software can be converted to Viridans format and future downloads from the range of databases included in the present project will be carried out in-house by the Biological Survey and Research Section of DENR.

Specific map files in Viridans, although derived from ARC/INFO PCX files will still need to be set up, and in some cases edited by Viridans to run quickly and efficiently on this PC-based software.

All subsequent species and site photographs will be added to and maintained in the South Australian Viridans system in-house without any further involvement of Viridans Pty Ltd.

The system is established on three computers in DENR offices on Kangaroo Island and links will be developed to the PAMS software when it is set up on Kangaroo Island. These two complimentary systems will be trialed for a period to determine how field staff are using them but there is clearly a good possibility that the systems will be ultimately expanded to all DENR regional sites. In the case of the Biodiversity Database component this will require the development of ten or eleven regional sub-sets similar to the Kangaroo Island part of this project, to enable

appropriate region specific map bases to be developed.

There is clearly a considerable amount of extra work to obtain, digitise and add to the database high quality photos of a majority of species of vascular plants and terrestrial vertebrate fauna but a solid start has been made with the Kangaroo Island regional section of the database.

There is also an equally large task to incorporate all the site photos that exist for every Biological Survey site and each Pastoral Management Rangeland Assessment site in the State. A proportion of these photos are time sequences at a particular site. An exciting future prospect however, once this is complete will be to investigate innovative ways of incorporating the digital data comprising this extensive collection of photos of South Australian natural landscapes with their associated flora and fauna data, into a new sort of biogeographic analysis. There is no doubt that this systematic site-based photographic record with associated flora and fauna data is unique in the world and making use of this resource in the systematic understanding of variation and, ultimately, change through time at tens of thousands of sites spread across the State is an exciting prospect indeed.

The Viridans Biodiversity Database project for South Australia has already successfully demonstrated that it is a cost-effective way of making modern biological survey and more traditional taxonomic collection data available to answer ecological and management questions on an attractive, PC-based system that can be widely dispersed to interested biologists and wildlife managers without in any way compromising the integrity of the larger and much more complex main databases which will still continue to be the responsibility of the individual data custodians.

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# **Appendices**

#### Appendix I

TOTAL FLORA LIST FOR KANGAROO ISLAND FROM A GRID SEARCH OF THE DATABASE.

The details and map below show the grids searched for this retrieval.

Scientific Name	Common Name	Scientific Name	Common Name
Acacia acinacea	gold-dust wattle	Bromus diandrus	Kingston grass
Acacia brachybotrya Acacia calamifolia	grey mulga-bush wallowa	Bromus hordenceus ssp. hordenceus Bromus madritensis	soft brome Modrid brome
Acacia continua	thorn wattle	Bromus rigidus	rigid brome
Acacia cyclops	western coastal wattle hlack wattle	Bulbine semibarbata	annual bulbine-lity
Acacia dodonacifolia Acacia leiophylla	coast golden wattle	Burchardia umbellata Burnettia nigricans	milkmaids fire orchid
Acacia ligulata	dime wattle	Bursaria spinosa	South Australian Christmas bus
Acacia longifolia var. sophorae	coast sallow wattle Myrtle wattle	Calcile maritima asp. maritima	sea rocket
Acacia myrtifolia Acacia myrtifolia var.	myrile waitle	Caladenia carnea var. carnea Caladenia dilatata complex	pink fingers fringed spider-orchid
Acacia myrtifolia var. angustifolia	narrow-leaf myrtle wattle	Caladenia filamentosa var. filamentosa	daddy-long-legs
Acacia paradoxa	hedge wattle golden wattle	Caladenia filamentosa var. tentaculata Caladenia latifolia	wispy spider-orchid
Acacia pyenantha Acacia retinodes var. retinodes	gouzen wante silver wattle	Caladenia minor	broad-leaf caladenia pigmy caladenia
Acacin retinodes var. retinodes (bill form)		Caladenia ovata	Kangaroo Island spider-orchid
Acacia retinodes var. uncifolia Acacia rupicola	coast silver wattle balm wattle	Caladenia prolata Caladenia sp.	spider-orchid
Acacia sp.	· wattle	Caladenia valida	spice: «wcma
Acacia spinescens	spiny wattle	Calandrinia brevipedata	short-stalked pursione
Acacia triquetra Acacia verticillata	mallee wreath wattle prickly Moses	Calandrinia calyptrata Calandrinia corrigioloides	pink purslane strap purslane
Acaena novae-zelandise	bickly-blokly	Calandrinia sp.	•
Acaena x#anserovina Achnophora tatei	Kangaroo Island daisy	Callistemon rugulosus var. Callistemon rugulosus var. rugulosus	scarlet bottlebrush scarlet bottlebrush
Acianthus caudatus var.	Kangaroo isiana aasy	Callitris canescens	limestone cypress pine
Acianthus caudatus var. caudatus	mayfly orchid	Callitris preissii	Murray pine
Acianthus sp. Acrotriche affinis	mosquito orchid prickly honeypots	Callitris rhomboidea Calochilus robertsonii	Oyster Bay pine hrown-heard
Acretriche cordata	blunt-leaf ground-berry	Calytrix glaberrima	smooth fringe-myrtle
Acrotriche depressa	native currant	Calytrix smeatoniana	Kangaroo Island fringe-myrtle
Acrotriche fasciculiflora Acrotriche halmaturina	Mount Lofty ground-berry Kangaroo Island ground-berry	Calytrix tetragona Cardamine paucijuga	common fringe-myrtle
Acrotriche patula	prickly ground-herry	Carduus tenuiflorus	slender thistle
Acrotriche serrulata	cushion ground-berry Kangaroo Island gland-flower	Carex appressa	tall sedge
Adenanthos macropodiana Adenanthos terminalis	Kangaroo Island gland-flower yellow gland-flower	Carex breviculmis Carex fascicularis	tassel sedge
Adiantum aethiopicum	common maiden-hair	Carex sp.	•
Adriana klotzschii	coast hitterhush `annual blown-grass	Carpobrotus rossii Carthamus lanatus	Ross's noon-flower saffron thistle
Agrostis avenacea var. avenacea Agrostis billardieri var. billardieri	coast blown-grass	Cassinia uncata	sticky cassinia
Aira caryophyllea	silvery hair-grass	Cassytha glabella forma dispar	slender dodder-laurel
Aira cupaniana Aira elegantissima ssp. elegantissima	hair-grass delicate hair-grass	Cassytha melantha Cassytha peninsularis var. peninsularis	course dodder-laurel peninsula dodder-laurel
Allocasuarina muelleriana sap.	angled oak-bush	Cassytha pubescens	downy dodder-laurel
Allocasuarina muelleriana asp. notocolpica	Kangaroo Island oak-oush	Cassytha sp.	dodder laurel
Allocasuarina sp. Allocasuarina striata	sheoak/oak-bush small bull oak	Caustis pentandra Centaurium spicatum	thick twist-rush spike centaury
Allocasuarina verticillata	drooping sheoak	Centrolepis aristata	pointed centrolepis
Alyxia buxifolia	dysentery bush	Centrolepis cephaloformis ssp.	nuckion ourientania
Ammophila arenaria Amphibromus nervosus	marram graxs	Centrolepis cephaloformis ssp. murrayi Centrolepis fascicularis	cushion centrolepis tufted centrolepis
Anagailis arvensis	hlue pimpernel	Centrolenis polygyna	wiry centrolepis
Angianthus preissianus	common cup-flower fulse tobacco	Centrolepis sp. Centrolepis strigosa	hairy centrolepis
Apalochlamys spectabilis Aphelia gracilis	slender aphelia	Cerastium glomeratum	hroad-leaved mouse-ear chickwe
Aphelia pumilio	dwarf aphelia	Cerastium semidecandrum	small mouse-ear chickweed
Aphelia sp. Apium annuum	ammal celery	Chamaescilla corymbosa var. corymbosa Cheilanthes austrotenuifolia	blue squill rock fern
Apium prostratum ssp. prostratum var. filiforme	thinia terry	Cheiranthera volubilis	twining finger-flower
Apinm prostratum ssp. prostratum var. prostratum	an the	Chenopodium glaucum	glancous gousefoot
Arctotheca calendula Arenaria serpyllifolia	Cape dandelion thyme-leaved sandwart	Chenopodium sp. Choretrum glomeratum yar.	goosefoot sour-bush
Argentipallium obtusifolium	blunt everlasting	Choretrum giomeratum var. giomeratum	herry broombush
Arthropodium strictum	common chocolate-lily	Choretrum sp.	herry broombush
Asperula conferta Asperula euryphylla var. tetraphylla	common woodruff broad-leaved woodruff	Choretrum spicatum Chorizandra enodis	black bristle-rush
Asterolasia muricata	_	Chrysocephalum apiculatum	common everlasting
Astroloma conostephioides Astroloma humifusum	flame heath cranherry héath	Cirsium sp. Clematis microphylla	small-leaf clematis
Atriplex cinerea	coast salthush	Comesperma calymega	blue milkwort
Atriplex paludosa asp. cordata	<i>m</i> •	Comesperma volubile	love creeper
Avellinia michelii Avena barbata	avellinia bearded out	Conospermum patens Convolvulus sp.	slender conospermum
Avena sp.		Correa aemula	hairy correa
Baeckea crassifolia	desert baeckea	Corren decumbens	spreading correa
Baeckea ericaea Baeckea ramosissima ssp. ramosissima	mat baeckea rosy baeckea	Correa pulchella Correa reflexa	salmon correa
Baeckea sp.	•	Correa reflexa var. coriacea	thick-leaf correa
Banksia marginata Banksia ornata	dwarf honeysuckle ' desert banksia	Correa reflexa var. nummulariifolia Correa reflexa var. reflexa	Kangaroo Island correa common correa
Bauera rubioides	wiry bauera	Correa sp.	correu
Baumea arthrophylla	•	Correa sp. att. calycina	1.4 . 414
Baumea juncea Bertya rotundifolia	hare twig-rush Kangaroo Island bertya	Corybas sp. Cotula australis	helmet-orchid common cotula
Beyeria lechenaultii	felted wallahy-bush	Cotula coronopifolia	button weed
Beyeria subtecta	Kangaroo Island turpenine bus	Craspedia glauca Crassula closiana	hatchelor buttons stalked crassula
Billardiera bignoniacea Billardiera cymosa	orange bell-climher sweet apple-berry	Crassula decumbens var. decumbens	spreading crassula
Billardiera procumbens	white marianth	Crassula natans var. minus	floating crassula
Billardiera šp. Billardiera uniflora	apple-herry single-flower apple-berry	Crassula peduncularis Crassula sieberiana asp. tetramera	purple crassula Australian crassula
Billardiera versicolor	pale apple-herry	Critesion hystrix	Mediterranean harley-grass
Blechnum nudum	fishbone water-fern	Critesion marinum	sea harley
Blechnum wattsii Boronia coerulescens ssp. coerulescens	hard water-fern blue boronia	Critesion murinum ssp. glaucum Critesion murinum ssp. leporinum	northern harley-grass barley-grass
Boronia edwardsii	Edwards' boronia	Critesion sp.	was toy of their
Boronia filifolia	slender, horonia	Cruciferae sp.	مناه ويتمال والمناس المناس ويروي
Brachycome cuneifolia Brachycome exilis	stender daisy	Cryptandra hispidula Cryptandra leucophracta	rough cryptandra rusty poison
Brachycome uliginosa	daisy	Cryptandra sp.	-,
Brachyloma ericoides ssp.	brush heath	Cryptandra waterhousii	long-leaf cryptandra blue fairies
Brachyloma ericoides ssp. bicolor Brachyloma sp.	orusn neath	Cyanicula deformis Cynosurus echinatus	rough dog's-tail grass
Brachypodium distachyon	false brome	Cyperaceae sp.	V Q
Bracteantha bracteata	golden everlasting blowfly grass	Cyperus sp. Cyperus tenellus	tiny flat-sedge
Briza maxima Briza minor	lesser quaking-grass	Cyperus vaginatus	flat-sedge
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Eucalyptus odorata Eucalyptus oleosa Eucalyptus ovata Eucalyptus ovata Eucalyptus remota Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus viminalis ssp. cygnetensis Euchiton ensifer Euchiton ensifer Euchiton sphaericus Euphorbia paralias Euph	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus complobata Eucalyptus complylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus lansdowneana ssp. Eucalyptus lansdowneana ssp. Eucalyptus lensdowneana ssp. Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. megalocarpa	South Australian blue gum South Australian blue gum South Australian coast mailee congoo mailee congoo mailee por Lincoln gum narrow-leaf red mailee South Australian blue gum	Herb sp. Hibbertia acicularis Hibbertia aspera Hibbertia exutacies Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia glabriuscula Hibbertia riparia glabriuscula Hibbertia sericea var. Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sp. A Hibbertia sp. A Hibbertia sp. B Hibbertia sp. C	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower sitky guinea-flower rough-leaf guinea-flower sitky guinea-flower guinea-flower guinea-flower Port Lincoln guinea-flower scrambling guinea-flower round-leaf guinea-flower
Eucalyptus remota Kangaron Island mallee ash Eucalyptus regosa Kangaron Island mallee ash Eucalyptus sugosa Kangaron Island mallee ash Eucalyptus sugosa Kangaron Island mallee ash Eucalyptus sugosa Kangaron Island mallee ash Eucalyptus socialis Hydrocotyle canocarpa Hydrocotyle lassifora spreading pennywort Hydrocotyle intra hydrocotyle hirta hydrocotyle intra hydrocotyle intra hydrocotyle intra hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hypochoeris gabra Hypochoeris gabra Hypochoeris radicata flutweed Eutaxia microphylla var. Common canta legicas hallari Euxocarpos aphyllus Exocarpos aphyllus Common sea-heath Frankenia foliosa Frankenia foliosa Common sea-heath Frankenia sessilis small-leaf sea-heath Gabnia clarkei (ali saw-wedge lolepis polatycarpa lolepis indosa knobby club-rush knobby club-rush lolepis indosa knobby club-rush lolepis platycarpa	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus conglobata Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua	South Australian blue gum South Australian coast mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum South Australian blue gum South Australian blue gum South Australian blue gum large-fruit blue gum messmate messmate	Herb sp. Hibbertia acicularis Hibbertia aspera Hibbertia exutiacies Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sericea var. sericea Hibbertia sericea var. sericea Hibbertia sp. Hibbertia sp. Hibbertia sp. Hibbertia sp. C Hibbertia stricta Hibbertia stricta Hibbertia stricta	prickly guinea-flower prickly guinea-flower poinsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower silky guinea-flower silky guinea-flower guinea-flower Port Lincoln guinea-flower round-leed guinea-flower round-leed guinea-flower stalked guinea-flower
Eucalyptus regosa Eucalyptus socialis Eucalyptus yminalis ssp. cygnetensis Eucalyptus yminalis ssp. cygnetensis Eucalyptus yminalis ssp. cygnetensis Euchiton ensifer Euchiton ensifer Euchiton sphaericus Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia rollian ssp. tetragona Euphorbia rollian ssp. tetragona Eutaxia microphylla var. Exocarpos aphyllus Exocarpos aphyllus Exocarpos aphyllus Exocarpos cupressiformis Frankenia foliosa Frankenia foliosa Frankenia foliosa Frankenia pauciflora var. fruticulosa Frankenia pauciflora var. fruticulosa Frankenia deusta  limestone sun-sed-sedath Gabnia clarkei Gabnia deusta  Hydrocotyle caslicarpa Hydrocotyle crassiuscula Hydrocotyle loveolata Hydrocotyle loveolata Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle laxiflora Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle paralisa Hydrocotyle muscosa Hydrocotyle paralisa Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle paralisa Hydrocotyle paralisa Hydrocotyle muscosa Hydrocotyle paralisa Hydroc	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus complobata Eucalyptus complylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus lansdowneana ssp. Eucalyptus lansdowneana ssp. Eucalyptus lensdowneana ssp. Eucalyptus lensdowneana ssp. Eucalyptus lensdowneana ssp. Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. negalocarpa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua	Kangaroo Island narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum South Australian blue gum South Australian blue gum South Australian blue gum South Australian hlue gum South Australian hlue gum Large-fruit blue gum mexsmate mexsmate mexsmate	Herb sp. Hibbertia acicularis Hibbertia aspera Hibbertia exuitacies Hibbertia paenissularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sp. Hibbertia stricta	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower rough-leaf guinea-flower silky guinea-flower guinea-flower Part Lincoln guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower twiggy guinea-flower
Eucalyptus rugosa Eucalyptus socialis Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Euchiton ensifer Euchiton ensifer Euchiton sphaericus Euphorbia paralias Euphorbia paralias Euphorbia peplus Euphorbia peplus Euphorbia peplus Euphorbia peplus Euphorbia peplus Euphorbia sp. tetragona Eutaxia microphylla var. Eutaxia microphylla var. Eutaxia microphylla var. Exocarpos aphyllus Exocarpos cupressiformis Frankenia foliosa Frankenia foliosa Frankenia sessilis Gahnia clarkei Gahnia clarkei Gahnia clarkei Gahnia deusta  Kingscote mallee Hydrocotyle comocarpa Hydrocotyle foveolata Hydrocotyle laxiflora Hydrocotyle laxiflora Hydrocotyle laxiflora Hydrocotyle muscosa Hydrocotyle sp. Hydrocotyle muscosa Hydrocotyle sp. Hyd	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus conglobata Eucalyptus complylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. albopurpurea Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus oleoxa	Kangaroo Island narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum large-fruit blue gum large-fruit blue gum messmate messmate messmate mallee bux accorn mallee	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia axpera Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia glabriuscula Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sp. Hibbertia sp. A Hibbertia sp. C Hibbertia sp. C Hibbertia sp. C Hibbertia stricta	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower rough-leaf guinea-flower silky guinea-flower guinea-flower Port Lincoln guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower twiggy guinea-flower
Eucalyptus socialis Eucalyptus socialis Eucalyptus yellow pennywort Euchiton ensifer Euchiton ensifer Euchiton sphaericus Euphorbia paralias Euphorbia paralias Euphorbia peptus Euphorbia pertus Euphorbia peptus Euphorbia petus Euphorbia peptus Euphorbia peptus Euphorbia petus Euphorbia	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus concerifolia Eucalyptus conglobata Eucalyptus complylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus obliqua	South Australian blue gum South Australian coast mallee bog gum South Australian coast mallee congoo mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum arge-fruit blue gum mexsmate mexsmate mexmate secoru mallee sweung gum	Herb sp. Hibbertia acicularis Hibbertia aspera Hibbertia exutacies Hibbertia paenisularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia glabriuscula Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sericea var. sericea Hibbertia sp. Hibbertia sp. A Hibbertia sp. B Hibbertia sp. C Hibbertia sp. C Hibbertia stricta var. Hibbertia stricta var. Hibbertia stricta var.	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower rough-leaf guinea-flower guinea-flower guinea-flower Part Lincoln guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower twiggy guinea-flower Yorkshire fog
Euchiton ensifer Euchiton sphaericus Euphorbia paralias Euphorbia paralias Euphorbia pealus Euphorbia pealus Euphorbia spetts Euphorbia spettus Euphorbia paralias Euphorbia paralias Euphorbia spettus Euphorbia paralias Euphorbia petuscus Euphorbia paralias Euphorbia para	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyv Eucalyptus conciobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. albopurpurea Eucalyptus fansdowneana ssp. albopurpurea Eucalyptus feucoxylon Eucalyptus feucoxylon Eucalyptus feucoxylon Eucalyptus feucoxylon ssp. leucoxylon Eucalyptus feucoxylon ssp. leucoxylon Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus odorata Eucalyptus odorata Eucalyptus remota	Kangaroo Islandi narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee congoo mallee ill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum large-fruit blue gum mexsmate mexsmate mexsmate south australian halue gum large-fruit blue gum south Australian halue gum Kangaroo Island mallee assamp gum Kangaroo Island mallee assamp gum	Herb sp.  Hibbertia acicularis Hibbertia aspera Hibbertia exutiacies Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sericea var. sericea Hibbertia sp. Hibbertia sp. Hibbertia sp. Hibbertia sp. C Hibbertia stricta Hibbertia stricta Hibbertia stricta Holcus ianatus Holcus setosus Hydrocotyle callicarpa Hydrocotyle callicarpa Hydrocotyle comocarpa	prickly guinea-flower prickly guinea-flower pouinsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower silky guinea-flower silky guinea-flower guinea-flower fort Lincoln guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower furggy guinea-flower forkshire fog tiny pennywort
Euchiton ensifer Euchiton sphaericus Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia perlus Euphorbi	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalys Eucalyptus conciolia Eucalyptus conciobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus lansdowneana ssp. Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus odorata Eucalyptus odorata Eucalyptus rugosa Eucalyptus rugosa Eucalyptus rugosa Eucalyptus socialis	Kangaroo Islandi narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee congoo mallee ill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum large-fruit blue gum mexsmate mexsmate mexsmate south australian halue gum large-fruit blue gum south Australian halue gum Kangaroo Island mallee assamp gum Kangaroo Island mallee assamp gum	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenissularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. scricea Hibbertia sp. A Hibbertia sp. B Hibbertia sp. B Hibbertia sp. C Hibbertia stricta Hibbertia stricta Hibbertia stricta Hibbertia tricta Hibbertia stricta Hibbertia virgata Holcus ianatus Holcus setosus Hydrocotyle casilicarpa Hydrocotyle comocarpa Hydrocotyle comocarpa	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower rough-leaf guinea-flower guinea-flower guinea-flower Part Lincoln guinea-flower scrambling guinea-flower scrambling guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower forkshire fog tiny pennywsrt spreading pennywort
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Euphorbia paralias Euphorbia perius Euph	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus conglobata Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. Eucalyptus fansdowneana ssp. Eucalyptus lansdowneana ssp. Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. Eucalyptus leucoxylon ssp. Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus deucoxylon ssp. leucoxylon Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus oleosa Eucalyptus remota Eucalyptus remota Eucalyptus socialis Eucalyptus viminalis ssp. cygnetensis	Kangaroo Islandi narrow-leaf ma Port Lincoln mellee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum large-fruit blue gum messmale messmale messmale messmale messmale south australian dualee bux acuru mallee swump gum Kangaruo Island mallee ash Kingscote mallee	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenissularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sericea var. sericea Hibbertia sp. A Hibbertia sp. B Hibbertia sp. C Hibbertia sp. C Hibbertia stricta Hibertia stricta Hibbertia stricta	prickly guinea-flower prickly guinea-flower poinsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower guinea-flower fout Lincoln guinea-flower scrambling guinea-flower round-leaf guinea-flower round-leaf guinea-flower forgy guinea-flower Yorkshire fog liny pennywort spreading pennywort yzellow pennywort hairy pennywort
Euphrasia collina sp. tetragona petty spurge coast sybright Hypochoeris glabra flatweath flatwea	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalys Eucalyptus conglobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus lansdowneana ssp. Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus odorata Eucalyptus remota Eucalyptus secialis Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus viminalis ssp. cygnetensis Euchliton ensifer	Kangaroo Island narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Iarge-fruit blue gum messmale messmale messmale messmale messmale followers accur mallee swamp gum Kangaroo Island mallee ash Kingscote mallee beaked red mallee rough-bark manna gum	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia riparia Hibbertia riparia Hibbertia sericea var. major Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sp. Hibbertia stricta	prickly guinea-flower prickly guinea-flower poinsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower rough-leaf guinea-flower silky guinea-flower guinea-flower guinea-flower round-leaf guinea-flower scrambling guinea-flower round-leaf guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower yorkshire fog liny pennywort spreading pennywort pellow pennywort hairy pennywort sinking pennywort
Eutaxia microphylla var.  Eutaxia microphylla  Exocarpos sphyllus  Eutaxia microphylla  Eutaxia microphylla  Exocarpos sphyllus  Eutaxia microphylla var.  Eutaxia microphylla var.  Eutaxia microphylla	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalys Eucalyptus conglobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fentophylla Eucalyptus feucoxylon Eucalyptus feucoxylon Eucalyptus feucoxylon Eucalyptus feucoxylon ssp. leucoxylon Eucalyptus feucoxylon ssp. leucoxylon Eucalyptus oleucoxylon ssp. megalocarpa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus odorata Eucalyptus odorata Eucalyptus rugosa Eucalyptus socialis Eucalyptus syminalis ssp. cygnetensis Euchiton sphaericus Euchiton sphaericus Euphorbis paralias	Kangaroo Island narrow-leaf ma Port Lincoln mailee bog gum South Australian coast mailee congoo mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mailee South Australian blue gum Large-fruit blue gum mexsmate messmate messmate messmate messmate foresmate sea acorn mallee swump gum Kengaruo Island mallee ach Kingscote mallee beaked red mallee rough-bark manna gum Japanese cudweed sea spurge	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenisularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sp. A Hibbertia sp. B Hibbertia sp. B Hibbertia sp. B Hibbertia stricta Hibbert	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower scrambling guinea-flower scrambling guinea-flower stalked guinea-flower twiggy pennywort spreading pennywort stinking pennywort mossy pennywort mossy pennywort
Eutaxia microphylla var. microphylla var	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus conglobata Eucalyptus complylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. megalocarpa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus olossa Eucalyptus olossa Eucalyptus remota Eucalyptus remota Eucalyptus sp. Eucalyptus paralias Euchion sphaericus Euphorbia paralias	Kangaroo Islami narrow-leaf na Port Lincoln mellee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum large-fruit blue gum messmate messmate messmate messmate swamp gum Kangaroo Island mallee ash Kingscote mallee beaked red mallee rough-bark manna gum Japanese cudweed see spurge	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia exutiacies Hibbertia paenissularis Hibbertia prostrata Hibbertia riparia glabriuscula Hibbertia sirica var. major Hibbertia sericca var. major Hibbertia sericca var. scabrifolia Hibbertia sericca var. scabrifolia Hibbertia sp. Hibbertia sp. Hibbertia sp. A Hibbertia sp. C Hibbertia sp. C Hibbertia sp. C Hibbertia stricta Hibber	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower silky guinea-flower silky guinea-flower guinea-flower Part Lincoln guinea-flower scrambling guinea-flower scrambling guinea-flower round-leaf guinea-flower twiggy guinea-flower spreading pennywort spreading pennywort stitking pennywort mossy pennywort smouth catsear
Exocarpos apbyllus leafless balluri lypolepis rugosula rnukly gronint-fern Exocarpos cupressiformis cherry balluri lsolepis australiensis Frankenia foliosa leafy sea-heath solepis fundans floating club-rush Frankenia pauciflora var. fruticulosa common sea-heath solepis fluitans floating club-rush Frankenia seasilis small-leaf sea-heath solepis marginata coarse club-rush Gahnia clarkei limestone surveskee lolepis platycarpa	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalys Eucalyptus concisolia Eucalyptus consolphila Eucalyptus cosmophylla Eucalyptus diversisolia Eucalyptus diversisolia Eucalyptus diversisolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus lansdowneana ssp. Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus letecoxylon ssp. Eucalyptus letecoxylon Eucalyptus letecoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus deucoxylon ssp. leucoxylon Eucalyptus deucoxylon ssp. leucoxylon Eucalyptus deucoxylon ssp. megalocarpa Eucalyptus obliqua Eucalyptus odorata Eucalyptus odorata Eucalyptus ovata Eucalyptus ovata Eucalyptus ovata Eucalyptus socialis Eucalyptus socialis Eucalyptus isminalis ssp. cygnetensis Euchion ensifer Euchion sphaericus Euphorbia paralias Euphorbia penius	Kangaroo Islandi narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Marge-fruit blue gum large-fruit blue gum mexsmate mexmate mexmate mexmate see gum Kangaruo Island mallee ash Kingxote mullee beaked red mallee rough-bark manna gum Japanese cudweed see syntrge petty syntrge petty syntrge	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenissularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sp. A Hibbertia sp. B Hibbertia sp. C Hibbertia sp. C Hibbertia stricta Hibbertia stricta Hibbertia stricta Hibbertia virgata Holcus ianatus Holcus ianatus Holcus ianatus Hydrocotyle callicarpa Hydrocotyle comocarpa Hydrocotyle foresiuscula Hydrocotyle foresiuscula Hydrocotyle foresiuscula Hydrocotyle instra Hydrocotyle muscosa Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hypochoeris glabra Hypochoeris glabra Hypochoeris glabra	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower for Lincoln guinea-flower scrambling guinea-flower scrambling guinea-flower scrambling guinea-flower twiggy guinea-flower spreading pennywort schild guinea-flower twiggy pennywort stinking pennywort mossy pennywort smuth catsear flatweed
Exocarpos cupressiformis  Findheristylis sp.  Frankenia pauciflora var. fruticulosa  Frankenia sessilis  Gahnia clarkei  Gahnia deusta  Exocarpos cupressiformis  cherry hallart  Isolepis australiensis  Isolepis cerma  Isolepis fluitans  Isolepis hookeriana  Isolepis marginata  coarsa club-rush  Isolepis marginata  coarsa club-rush  Isolepis marginata  Isolepis marginata  Isolepis marginata  Isolepis platycarpa	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyy Eucalyptus conglobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. albopurpurea Eucalyptus lengocylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. megalocarpa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus ocorata Eucalyptus remota Eucalyptus remota Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus siminalis ssp. cygnetensis Euchiton sphaericus Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphrasia collina ssp. tetragona Eutaxia microphylla var.	Kangaroo Island narrow-leaf na Port Lincoln mellee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum large-fruit blue gum messmale messmale messmale messmale fuelee bux acurt mallee swump gum Kangaroo Island mallee rough-hark manna gum Japanese cudweed xea xpurge petty xpurge petty xpurge coast eyebright eggs-cud-hacon	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sp. Hibbertia sp. A Hibbertia sp. A Hibbertia sp. C Hibbertia sp. C Hibbertia stricta Hibertia stricta Hibbertia	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower rough-leaf guinea-flower guinea-flower Port Lincoln guinea-flower scrambling guinea-flower scrambling guinea-flower round-leaf guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower spreading pennywort spreading pennywort yellow pennywort sinking pennywort
Fimbristylis sp. Frankenia foliosa Frankenia paucillora var. fruticulosa Frankenia paucillora var. fruticulosa Frankenia seasilis Gahnia clarkei Gahnia deusta  Solepis ucerwa Isolepis hookeriana Isolepis marginata Isolepis	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus conglobata Eucalyptus conglobata Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fanciculosa Eucalyptus fanciculosa Eucalyptus fanciculosa Eucalyptus fansdowneana ssp. albopurpurea Eucalyptus leucoxylon ssp. eucalyptus leucoxylon Eucalyptus leucoxylon ssp. feucalyptus leucoxylon ssp. Eucalyptus leucoxylon ssp. Eucalyptus Eucalyptus specaryptus eucaylon ssp. Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus oleoxa Eucalyptus remota Eucalyptus sp. Eucalyptus pentalis Euchorbia paralis Euphorbia paralis Euphorbia penfus Euphorbia penfus Euphrasia collina ssp. tetragona Eutaxia microphylla var. microphylla	Kangaroo Island narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Marge-fruit blue gum arge-fruit blue gum mexsmate messmate messmate messmate messmate fruit south fruit gum messmate sea gum Aungaruo Island mallee ach Kingscote mallee fough-bark manna gum Japanese cudweed sea spurge petty spurge petty spurge coust eyebright eggs-cont-bacon common cutaxia leaftexs ballari	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenisularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. scricea Hibbertia sp. Hibbertia sp. Hibbertia sp. B Hibbertia sp. C Hibbertia stricta Hibertia stricta Hibbertia s	prickly guinea-flower prickly guinea-flower poinsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower guinea-flower Port Lincoln guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower twiggy guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower stalked guinea-flower twiggy guinea-flower twinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guine
Frankenia paucillora var. fruticulosa common sea-heath solepis hookeriana sessilis small-leaf sea-heath solepis marginata coarse club-rush solepis marginata coarse club-rush solepis marginata sessilis accorde solepis nodosa solepis nodosa solepis nodosa solepis platycarpa	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fanciculosa Eucalyptus fanciculosa Eucalyptus lansdowneana ssp. Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus oleoxa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus oleoxa Eucalyptus remota Eucalyptus remota Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus paralias Euchion sphaericus Euphorbia paralias Euphorbia pequis Euphrasia collina ssp. tetragona Eutaxia microphylla var. Eutaxia microphylla var. Eutaxia microphylla var. Eutaxia microphylla var. Eucacrpos aphyllus Exocarpos cupressiformis	Kangaroo Island narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Marge-fruit blue gum arge-fruit blue gum mexsmate messmate messmate messmate messmate fruit south fruit gum messmate sea gum Aungaruo Island mallee ach Kingscote mallee fough-bark manna gum Japanese cudweed sea spurge petty spurge petty spurge coust eyebright eggs-cont-bacon common cutaxia leaftexs ballari	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia apera Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sirica var. Hibbertia serica var. Hibbertia serica var. major Hibbertia serica var. scabrifolia Hibbertia serica var. scabrifolia Hibbertia sp. Hibbertia sp. Hibbertia sp. Hibbertia sp. C Hibbertia sp. C Hibbertia sp. C Hibbertia stricta Holcus setosus Holcus setosus Hodrocotyle comocarpa Hydrocotyle comocarpa Hydrocotyle foveolata Hydrocotyle foveolata Hydrocotyle first Hydrocotyle first Hydrocotyle muscosa Hydrocotyle muscosa Hydrocotyle sp. Hypochocris glabra Hypochocris radicata	prickly guinea-flower prickly guinea-flower poinsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower silky guinea-flower guinea-flower point-leaf guinea-flower scrambling guinea-flower round-leaf guinea-flower twiggy guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower stalked guinea-flower twiggy guinea-flower stalked guinea-flower twiggy g
Frankenia sessilis small-leaf seu-heath Isolepis marginata course club-rush Gahnia clarkei toll saw-sedge Isolepis nodosa knahby club-rush Gahnia deusta limestone saw-sedge Isolepis platycarpa	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyy Eucalyptus conciolia Eucalyptus conciobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus lansdowneana ssp. Eucalyptus lensodyneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus oleucoxylon ssp. negalocarpa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus odorata Eucalyptus odorata Eucalyptus rugosa Eucalyptus socialis Eucalyptus siminalis ssp. cygnetensis Euchion sphaericus Eupharbia paralias Euphorbia peplus Eupharbia collina ssp. tetragona Eutaxia microphylla var. Eimoristylis sp.	Kangaroo Islandi narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Marge-fruit blue gum Marge-fruit blue gum mexsmate messmate messmate messmate messmate south Australian blue gum Kangaruo Island mallee ash Kingxote mallee beaked red mallee rough-bark manna gum Japanese cudweed sea spurge petty spurge coast eyebright eggs-cout-bacon common cutaxia leafless ballart cherry ballart	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenissularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sp. A Hibbertia sp. B Hibbertia stricta Hydrocotyle camicarpa Hydrocotyle laxiflora Hydrocotyle laxiflora Hydrocotyle sp. Hypochoeris radicata Hypochoeris sp. Hypochoeris sp. Hypochoeris sp. Hypochoeris radicata Hypochoeris radicata Hypochoeris radicata Hypochoeris sp. Solepis australiensis Isolepis australiensis	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower Part Lincoln guinea-flower scrambling guinea-flower scrambling guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower forkshire fog tiny pennywort spreading pennywort yellow pennywort stinking pennywort stinking pennywort stinking pennywort smooth catsear floweed catsear tasset rope-risk ruddy ground-fern
Gahnia clarkei toli saw-sedge Isolepis nodosa knuhhy club-rush Gahnia deusta limestone saw-sedge Isolepis platycarpa	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyy Eucalyptus conglobata Eucalyptus cosmophylla Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. albopurpurea Eucalyptus lengocylon Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. megalocarpa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus orata Eucalyptus orata Eucalyptus remota Eucalyptus socialis Euchion sphaericus Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralis	Kangaroo Island narrow-leaf na Port Lincoln mellee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Mastralian blue gum messmale messmale messmale messmale messmale forge-fruit blue gum messmale messmale messmale messmale forge-fruit blue gum messmale messmale messmale messmale forge-fruit blue gum Japanese cach mallee forger blue forger petty spurge coast eyebright eggs-cund-hacon commun cutaxia leaffess ballart cherry ballart	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia appera Hibbertia paenisularis Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sp. C Hibbertia sp. C Hibbertia stricta Hibbe	prickly guinea-flower prickly guinea-flower peninsula guinea-flower bundled guinea-flower guinea-flower silky guinea-flower large guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower Part Lincoln guinea-flower scrambling guinea-flower scrambling guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower spreading pennywort spreading pennywort yellow pennywort stinking pennywort stinking pennywort stinking pennywort stinking pennywort smooth catsear flatweed catsear tassel rope-risk rudey ground-fern
Gabnia deusta limestone suw-sedge Isolepis platycarpa	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyx Eucalyptus conglobata Eucalyptus conglobata Eucalyptus conglobata Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fanciculosa Eucalyptus fanciculosa Eucalyptus fanciculosa Eucalyptus fanciculosa Eucalyptus fanciowneana ssp. albopurpurea Eucalyptus leucoxylon ssp. eucalyptus leucoxylon Eucalyptus leucoxylon ssp. feucalyptus feucaylon ssp. feucalyptus feucaylon ssp. feucalyptus feucaylon ssp. feucalyptus eleucaylon ssp. feucalyptus feucaylon ssp. feucalyptus feucaylon ssp. feucalyptus feucaylon ssp. feucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus oleosa Eucalyptus remota Eucalyptus remota Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus sp. Eucalyptus paralias Euphorbia paralias Euphorbia penfus Euphorbia politia ssp. tetragona Eataxia microphylla var. microphylla Exocarpos aphyllus Exocarpos cupressiformis Fimbristylis sp. Frankenia foliotaa Frankenia foliotaa	Kangaroo Island narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Marge-fruit blue gum mexsmate mexsmate mexsmate mexmate south australian blue gum Kangarus Island mallee bax acuri mallee swump gum Kangarus Island mallee ash Kangarus Island mallee ash Kangarus Island mallee rough-bark manna gum Japanese cudweed sea spurge petty spurge coust eyebright eggs-und-bacon common cuacral leaftess ballart leafy seu-heath common sea-heath	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenissularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. sericea Hibbertia sp. A Hibbertia sp. B Hibbertia sp. C Hibbertia sp. C Hibbertia stricta Hibbertia stricta Hibbertia stricta Hibbertia virgata Holcus ianatus Holcus ianatus Holcus ianatus Hydrocotyle callicarpa Hydrocotyle comocarpa Hydrocotyle comocarpa Hydrocotyle fariflora Hydrocotyle hiria Hydrocotyle hiria Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hydrocotyle sp. Hypochoeris radicata Hydrocotyle sp. Hypochoeris sp.	prickly guinea-flower prickly guinea-flower prickly guinea-flower bundled guinea-flower guinea-flower silky guinea-flower rough-leaf guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower spreading pennywort spreading pennywort spreading pennywort hairy pennywort sinking pennywort sinking pennywort sinking pennywort smath causear flaweed causear tauset rope-rush ruddy ground-fern floating club-rush coarse club-rush
Gabnia filum chaffy saw-scage Isolepis producta	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyv Eucalyptus conglobata Eucalyptus cosmophylla Eucalyptus domoshylla Eucalyptus domoshylla Eucalyptus domosh Eucalyptus domosh Eucalyptus domosh Eucalyptus lansdowneana ssp. Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus oleucoxylon ssp. megalocarpa Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus ootaa Eucalyptus ootaa Eucalyptus ootaa Eucalyptus socialis Euchiton sphaericus Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralias Euphorbia paralis	Kangaroo Islami narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum large-fruit blue gum messmate messmate messmate messmate south australian hilue gum large-fruit blue gum form australian blue gum Japanese communitee beaked red mallee rough-bark manna gum Japanese cudweed sea spurge petty spurge coast eyebright eggs-und-bacon common eucata leaftess ballart cherry ballart leaft sea-heath small-leaf sea-heath small-leaf sea-heath small-leaf sea-heath small-leaf sea-heath	Herb sp. Hibbertia acicularis Hibbertia apera Hibbertia paenisularis Hibbertia prostrata Hibbertia prostrata Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. major Hibbertia sericea var. major Hibbertia sericea var. sericea Hibbertia sericea var. sericea Hibbertia sp. Hibbertia stricta Hibe	prickly guinea-flower prickly guinea-flower prickly guinea-flower bundled guinea-flower guinea-flower silky guinea-flower rough-leaf guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower spreading pennywort spreading pennywort spreading pennywort hairy pennywort sinking pennywort sinking pennywort sinking pennywort smath causear flaweed causear tauset rope-rush ruddy ground-fern floating club-rush coarse club-rush
	Eucalyptus camaldulensis var. camaldulensis Eucalyptus cladocalyy Eucalyptus conglobata Eucalyptus cosmophylla Eucalyptus domophylla Eucalyptus domosa Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus diversifolia Eucalyptus fasciculosa Eucalyptus fansdowneana ssp. Eucalyptus lansdowneana ssp. albopurpurea Eucalyptus leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus leucoxylon ssp. leucoxylon Eucalyptus obliqua Eucalyptus obliqua Eucalyptus obliqua Eucalyptus odorata Eucalyptus odorata Eucalyptus odorata Eucalyptus socialis Eucalyptus semota Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus socialis Eucalyptus paralias Euphrobia paralias Euphorbia paralias Euphrobia faraliculos Eurobia paralias Euphrobia faraliculos Eurobia paralias Euphrobia faraliculos Eurobia paraliculos	Kangaroo Islandi narrow-leaf ma Port Lincoln mallee bog gum South Australian coast mallee congoo mallee hill gum Port Lincoln gum narrow-leaf red mallee South Australian blue gum Marge-fruit blue gum Marge-fruit blue gum Mexsmate mexsmate mexsmate mexsmate mexsmate sees accort mallee bax accort mallee sweump gum Kangaruo Island mallee ash Kingscote mallee beaked red mallee rough-bark manna gum Japanese cudweed see springt gegs-cutl-bacon common cutaxia leafless ballart cherry ballart leafs sea-heath common sea-heath small-leaf sea-heath ioli saw-sedge limestone suiv-sedge	Herb sp. Hibbertia acicularis Hibbertia acicularis Hibbertia aspera Hibbertia paenissularis Hibbertia paenissularis Hibbertia iparia Hibbertia riparia Hibbertia riparia Hibbertia sericea var. Hibbertia sericea var. Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sericea var. scabrifolia Hibbertia sp. A Hibbertia sp. A Hibbertia sp. B Hibbertia stricta Hydrocotyle callicarpa Hydrocotyle callicarpa Hydrocotyle comocarpa Hydrocotyle inxifiora Hydrocotyle inxifiora Hydrocotyle inxifiora Hydrocotyle sp. Hypochoeris sp. Hypochoeris sp. Hypochoeris sp. Hypochoeris sp. Hypochoeris sp. Hypochoeris radicata Hypochoeris radicata Hypochoeris radicata Hypochoeris radicata Hypochoeris sp. Hypo	prickly guinea-flower prickly guinea-flower prickly guinea-flower bundled guinea-flower guinea-flower silky guinea-flower rough-leaf guinea-flower guinea-flower guinea-flower guinea-flower guinea-flower scrambling guinea-flower round-leaf guinea-flower stalked guinea-flower twiggy guinea-flower twiggy guinea-flower twiggy guinea-flower spreading pennywort spreading pennywort spreading pennywort hairy pennywort sinking pennywort sinking pennywort sinking pennywort smath causear flaweed causear tauset rope-rush ruddy ground-fern floating club-rush coarse club-rush

Scientific Name	Common Name	Scientific Name	Common Name
Isolepis sp.		Mitrasacme paradoxa Montia australasica	wiry mitrewort
Isolepis stellata Isopogon ceratophyllus	star club-rush cane-bush	Moss sp.	montia
Ixiolaena supina	stalked ixiolaena	Muehlenbeckia adpressa	climbing lignum
Ixodia achillaeoides ssp. Ixodia achillaeoides ssp. achillaeoides	coast ixodia	Muchlenbeckia gunnii Myoporum brevipes	coastal climbing lignum
Ixodia achillaeoides ssp. alata	fireweed	Myoporum insulare	warty boohialla common boohialla
Juneus bulonius	toad rush	Myoporum viscosum	sticky boobiatla
Juncus capitatus Juncus effusus	capitate rush soft rush	Myosotis australis	austral forget-me-not
Juneus kraussii	sea rush	Myriophyllum integrifolium Myriophyllum muelleri	hooded water-milfoil
Juncus pallidus -	pale rush	Myriophyllum simulans	•
Juneus pauciflorus Juneus planifolius	loose-flower rush broad-leaf rush	Myriophyllum sp. Myrsiphyllum asparagoides	water-milfoil bridal creeper
Juneus procerus	minus-secy runn	Nitraria billardierei	Dillon bush
Juneus sp.		Olea europaea 18p. europaea	olive
Kennedia prostrata Kunzea pomifera	ruming postman muntries	Olearia axillaris Olearia ciliata var. ciliata	coast daisy-bush fringed daisy-bush
Lagenifera stipitata var. stipitata	blue bottle-daisy	Olearia ciliata var. ciliata Olearia ciliata var. squamifolia	jringed daisy-oush Kangaroo Island fringed daisy-
Lagurus ovatus	hares tail grass	Olearia microdisca	small-flower daisy-hush
Lasiopetalum baueri Lasiopetalum bekrii	slender velvet-hush pink velvet-hush	Olearia ramulosa Olearia rudis	twiggy daisy-bush azure daisy-bush
Lasiopetalum discolor	coast velvet-hush	Olearia teretifolia	<ul> <li>cypress daisy-bush</li> </ul>
Lasiopetalum schulzenii	drooping velvet-bush	Opercularia scabrida	stalked stinkweed
Lasiopetalum sp. 'Cordate-leaved'(H.P.Vonow 810) Lasiopetalum x tepperi		Opercularia turpis Opercularia varia	twiggy stinkweed variable stinkweed
Lavatera plebeia	Australian hollyhock	Orchidaceae sp.	THE MILE SHIPS TO BE
Lawrencia spicata	salt lawrencia	Orthoceras strictum	horned orchid
Laxmannia orientalis Lepidium foliosum	dwarf wire-lily	Orthrosanthus multiflorus Osteospermum sp.	Kangaroo Island iris
Lepidobolus drapetocoleus	leafy peppercress scale shedder	Ottelia ovalifolia	swamp lily
Lepidosperma canescens	hoary rapier-sedge	Oxalis corniculata ssp. corniculata	creeping oxalis
Lepidosperma carphoides Lepidosperma concavum	black rapier-sedge sand-hill sword-sedge	Oxalis perennans Oxalis pes-caprae	native sorrel Bermuda butteraup
Lepidosperma congestum	clustered sword-sedge	Ozothamnus retusus	notched bush-everlasting
Lepidosperma gladiatum	sandhill sword-sedge	Papaver aculeatum	bristle poppy
Lepidosperma laterale Lepidosperma semiteres	sharp sword-sedge wire rapier-sedge	Parahebe derwentiana Parapholis incurva	Derwent speedwell coast harh-grass
Lepidosperma sp.	sword-sedge	Parentucellia latifolia	common bartsia
Lepidosperma viscidum	sticky sword-sedge	Parietaria debilis	shade pellitory
Leporella fimbriata Leptocarpus tenax	fringed hare-orchid slender twine-rush	Patersonia fragilis Pelargonium australe	short purple-flag austral storks-bill
Leptomeria aphylia	leafless currant-bush	Pelargonium littorale	kopata
Leptorhynchos squamatus	scaly buttons	Petrophile multisects	Kangaroo Island conesticks
Leptospermum continentale	prickly tea-tree silky tea-tree	Petrorhagia velutina	hairy pink Kangaroo Island phehalium
Leptospermum lanigerum Leptospermum myrsinoides	heath tea-tree	Phebalium equestre Phyllanthus australis	Kungaroo isaana pnemunum pointed spurge
Lepyrodia valliculae	Kangaroo Island scale-rush	Phyllanthus sp.	
Leucophyta brownii	cushion-hush	Phyllogiossum drummondii Phyllota pleurandroides	pigmy clubmoxs heathy phyllota
Leucopogon concurvus Leucopogon costatus	scrambling beard-heath twiggy beard-heath	Phyllota remota	neamy pnytioia slender phyllota
Leucopogon hirsutus	hairy heard-heath	Pimelea flava ssp.	diosma riceflower
Leucopogon lanceolatus	lance heard-heath	Pimelea flava ssp. dichotoma	diosma riceflower
Leucopogon parviflorus Leucopogon rufus .	coast heard-heath ruddy heard-heath	Pimelea flava ssp. flava Pimelea glauca	yellow riceflower xmooth riceflower
Leucopogon sp.	heard-heath	Pimelea macrostegia	Kangaroo Island riceflower
Leucopogon woodsii	hrииm heard-heath	Pimelea micrantha	curved riceflower
Lichen sp. Liliaceae sp.		Pimelea octophylla Pimelea octophylla ssp.	downy riceflower
Lindsaea linearis	necklace fern	Pimelea phylicoides	heath riceflower
Lissanthe strigosa	peach heath angled labelia	Pimelea serpyllifolia ssp. serpyllifolia	thyme riceflower riceflower
Lobelia alata Lobelia gibbosa	angieu ionena false orchid	Pimelea sp. Pimelea stricta	ricejiower erect riceflower
Lobelia pratioides	poison lobelia	Pinus halepensis	Aleppo pine
Logania crassifolia	coast lagania	Pinus radiata	Monterey pine
Logania insularis Logania linifolia	Kangaroo Island logania flax-leaf logania	Plantago hispida Plantago lanceolata var. lanceolata	hairy plantain ribgrass
Logania ovata	oval-leaf logania	Platylobium obtusangulum	common flat-pea
Logania sp.		Platysace heterophylia var. Platysace heterophylla var. heterophylla	ours pareles
Logania sp. C Lolium lolisceum	Wimmera ryegrass	Platysace heterophylla var. tepperi	corn parsley Kangaroo Island platysace
Lolium rigidum	Wimmera ryegraxs	Poa crassicaudex	thick-stem poa
Lolium sp.	sandhill mat-rush	Pos fax	scaly meadow-grass Kangaroo Island poa
Lomandřa collina Lomandra micrantha ssp.	small-flower mat-rush	Poa halmaturina Poa poiformis	coast poa
Lomandra micrantha ssp. tuberculata	small-flower mat-rush	Poa sp.	meadow-grass
Lophochlon sp.		Pos tenera	slender tussock grass
Lotus australis Lotus cruentus	<ul> <li>Australian trefoil red birds-foot trefoil</li> </ul>	Podolepis canescens Podolepis jaceoides	bright pudalepis showy copper-wire daisy
Luzula flaccida	pale woodrish	Podolepis rugata var. littoralis	pleated podolepis
Lycium ferocissimum	African boxthorn	Podotheca angustifolia	sticky longheads
Lycopodiella lateralis Lythrum hyssopifolia	slender clubmoss hyssop loosestrife	Polycarpon tetraphyllum Polypogon maritimus	allseed coast heard-grass
Maireana oppositifolia	heathy bluebush	Polypogon monspeliensis	annual beard-grass
Marrubium vulgare	horehound	Pomadervis aspera	hazel pomoderrio
Medicago minima var. minima Medicago polymorpha var. polymorpha	little medic burr-medic	Pomađervis halmatorina ssp. Pomađerris balmaturina ssp. halmaturina	Kangaroo Island pomaderris
Medicago truncatula	harrel medic	Pomaderris obcordata	wedge-leaf pomaderris
Meialeuca acuminata	malice honey-myrtle	Pomaderris oraria	coast pomoderris
Meialeuca brevifolia Meialeuca decussata	short-leaf honey-myrtle cross-leaved honey-myrtle	Pomađerris paniculosa ssp. paralia Pomađerris sp.	coast pomoderris
Melaleuca gibbosa	siender honey-myrtie	Poranthera ericoides	heath poranthera
Melaleuca halmaturorum	South Australian swamp paper-b	Poranthera microphylla	small porauthera
Meialeuca lanceolata Melaleuca squamea	hlack tea-tree heath honey-myrtle	Potamogeton tricarinatus Prasophyllum elatum	floating pondweed tall leek-orchid
Melaleuca uncinata	black broom	Prostauthera aspalathoides	minthush
Melitotus indics	Hexham scent	Prostanthera chlorantha	green mintbush
Micrantheum demissum Microcybe pauciflora	dwarf micrantheum yellow microcyhe	Prostanthera serpyllifolia ssp. microphylla Prostanthera serpyllifolia ssp. serpyllifolia	small-leaf minthush thyme minthush
Microlype paucitiora Microlaena stipoides var. stipoides	meadow rice-grass	Prostanthera spinosa	spiny mintbush
Microseris lanceolata	тигнинд	Pseudognaphalium luteoalbum	Japanese cudweed
Microtis frutetorum Microtis orbicularis	swamp onion-orchid	Pteridium esculentum Pterostylis alata	austral bracken striped green-kood
Millotia myosotidifolia	hroad-leaf millotia	Pterostylis furcata	forked green-hood
Millotia tenuifolia var. tenuifolia	soft millotia	Pterostylis longifolia	tall green-hood
Mimulus repens Minuartia mediterranea	creeping monkey-flower fine-leaved sandwort	Pterostylis nana Pterostylis pedunculata	dwarf green-hood maroon-hood
Mitrasacme distylis	tiny mitrewort	Pterostylis plumosa	bearded green-hund
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#### Scientific Name Common Name Scientific Name Common Name Stipa bemipogon Stipa mollis Stipa mollis Stipa mollis Stipa semibarbata Stipa semibarbata Stipa syn Stipa stipoides Stuartina muelleri Stylidium calcaratum Stylidium despectum Stylidium graminifolium Stylidium inundatum Stylidium perpusillom Stylidium perpusillom Stylidium perpusillom Stylidium stylidium stylidium stylidium sundatum Stylidium separianum Stylidium sundatum Stylidium separianum Stylidium sundatum Stylidium sundatum Stylidium separianum Stylidium sundatum Stylidium sundatum Stylidium sundatum Stylidium separianum Stylidium separianum Stylidium separianum blood green-hood bunded green-hood irunstone mulla mulla Australian saltmarsh-grass soft bush-pea coast bush-pea large-leaf bush-pea dense-leaved bush-pea twiggy bush-pea pungen bush-pea island bush-pea island bush-pea Pterostylis sanguinea Pterostylis vittata Ptilotus beckerianus Puccinellia stricta var. stricta half-heard spear-grass soft spear-grass small-wed spear-grass barbed spear-grass spear-grass coast spear-grass spoon cudweed Puccinellia stricta var. stricta Pultenaea acerosa Pultenaea canaliculata var. Pultenaea daphnoidea Pultenaea daphnoidea Pultenaea densifolia small trigger-plant rutenaca largiflorens Pultenaca largiflorens Pultenaca rigida var. Pultenaca rigida var. rigida Pultenaca scouifolia Pultenaca tercuifolia var. Pultenaca triffida Pultenaca triffida Pultenaca triffida grass trigger-plant hundreds and thousands hundreds and thousands slender trigger-plant Kangaroo Island trigger-plant beard-heath styphelia austral seablite Darling pea cockies tongue bower spinach curly pink-bells Kangaroo Island pink-bells lemon sun-orchid auure sun-orchid auure sun-orchid twisted sim-orchid twisted sim-orchid Kangaroo Island bush-pea three-nerve bush-pea feather bush-pea yellow bush-pea dark bush-pea large river buttercup inland buttercup Australiun small-flower butter Australian small-flower butter Suaeda australis Swainsona lessertiifolia Templetonia retusa Tetragonia implexicoma Tetratheca halmaturina Tetratheca insularis Thelymitra antennifera Thelymitra benthamiana Thelymitra canalisatio acusalisatio ruttenaca terettiotia var. Pultenaca trifida Pultenaca trifida Pultenaca trifida Pultenaca vestita Pultenaca villifera var. glabrescens Pultenaca villifera var. glabrescens Pultenaca villifera var. glabrescens Pultenaca viscidula Ranunculus papulentus Ranunculus sessiliflorus var. platycarpus Ranunculus sessiliflorus var. sessiliflorus Ranunculus sp. Reichardia tingitana Rhagodia candolleana ssp. candolleana Rhagodia candolleana ssp. candolleana Rhagodia candolleana Rhagodia crassifolia Rhamnus alaternus Romulea rosea var. australis Rostraria cristata Rumes sp. Thelymitra benthamiana Thelymitra canaliculata Thelymitra flexuosa Thelymitra Introcilium Thelymitra ultrecilium Thelymitra matthewsii Thelymitra puciflora Thelymitra pp. Thomasia petalocalyx Threlkeldia diffusa Thryptomene ericaea Thysanotus baueri Thysanotus fractiflexus Thysanotus inucifolius twisted sun-archie false sowthistle sea-herry salthish seaberry salthish fleshy salthish Italian buckthorn Guildford grass annual cai's-tal dock early pink sun-orchid spiral-leaf sun-orchid sun-orchid sun-orchia paper-flower coast honefruit heath thryptomene malice fringe-lily zig-zag fringe-lily rnsh fringe-lily Rumex sp. Ruppia sp. Ihysanotus baueri Thysanotus fractifiexus Thysanotus iractifiexus Thysanotus nudicaulis Thysanotus nudicaulis Thysanotus spatersonii Thysanotus sp. Trichynene pilosa Tricoryne eiatior Tricostularia pauciflora Trifolium argustifolium Trifolium argustifolium Trifolium arvense var. arvense Trifolium dubium Trifolium dubium Trifolium gomeratum Trifolium sp. Trifolium sp. Trifolium stellatum Trifolium subterraneum Trifolium subterraneum Trifolium stellatum Trifolium stellatum Trifolium subterraneum Trigochio striatum Trigochio striatum Trigonelio suavissima Trymalium wayae Ruppia sp. Rutidosis multiflora Sagina maritima Samoius repens Sarcocornia blackiana Sarcocornia quinqueflora Scaevola aemula small wrinklewort small wrinklewort creeping brookweed samphire beaded glasswort common fauflower coast fanflower cushion fanflower twining fringe-lily fringe-lily dwarf parsnin yellow rush-lily needle hog-rush narrow-leuf clover hare's-foot clover suckling clover suckling clover hall clover Scaevola aemula Scaevola angustata Scaevola crassifolia Scaevola linearis ssp. Scaevola linearis ssp. confertifolia Schoenus apogon Schoenus breviculmis Schoenus deformis Schoenus deformis hundled fanflower common hog-rush matted hog-rush tufted hog-rush tiny hog-rush shiny hog-rush hog-rush Schoenus discifer star clover Schoenus nanus Schoenus nitens Schoenus sp. woully clover water-ribbons streaked arrowgrass Scirpus sp. Sclerostegia arbuscula shruhby glasswort yellow centaury tiny selaginella selliera jagged fireweed annual granuksel Cooper cloves Scierostegia arbuscula Sebaea ovata Selaginella gracillima Selliera radicans Senecio biserratus Senecio bispidulus Senecio hispidulus 1 rigoneiia suavissima Trymalium wayae Typha domingensis Urtica incisa Utricularia dichotoma Utricularia tenella Vellereaphyton dealbatum Veronica arvensis grey trymalium bulrush native nettle fairies apron pink bladderwort elegant yellow-top scented groundsel row-leaf groundsel scented groundsel fireweed cotton fireweed wall speedwell Senecio lautus wall speedwell hairy speedwell coast speedwell uning marsh-flower ivy-leaf violet tiny violet New Holland daisy New Holland daisy Senecio dutus var. Senecio odoratus var. Senecio odoratus var. longifolius Senecio odoratus var. odoratus Senecio picridioides Senecio quadridentatus Veronica arvensis Veronica calycina Veronica hillebrandii Villarsia reniformis Villarsia sp. Viola hederacca Viola sieberiana Vittadinia australasica var. australasica Vittadinia Senecio quadridentatus Senecio sp. Senecio sp. Sherardia arvensis Silene nocturna Sisymbrium orientale Solanum simile Sonchus asper sap. glaucescens Sonchus hydrophilus Sonchus megalocarpus Sonchus oleraceus fireweed field modder viois sieperiana vitois sieperiana vitotadinia sp. Vulpia bromoides Vulpia myuros forma megalura Vulpia myuros forma myuros Vulpia myuros forma myuros Vulpia sp. Wahlenbergia gracitenta Wahlenbergia muticaulis Westringia dampieri Westringia eremicola Wilsonia humilis var. humilis Wilsonia humilis var. humilis Wilsonia sp. Wurmbea centralis Wurmbea seentralis Wurmbea seentralis Authosia dissecta var. floribunda Xanthosia dissecta var. floribunda Xanthosia tasmanica Xyris operculata rats tail fescue fox-tail fescue rat's-tail fescue Indian heage mustard Kangaroo apple native sow-thistle anmal bluebell Tadgeil's bluebell dune thistle Sonchus megalorarpus Sonchus oleraceus Sonchus sp. Sparazis sp. Sparazis sp. Spergularia marina Spergularia marina Spergularia media Spinifex sericeus Spyridium 'tircolor'(P.G.Wilson 5940) Spyridium bifidum var. integrifolium Spyridium halmaturinum var. Spyridium halmaturinum var. haimaturinum Spyridium halmaturinum var. scabridum Spyridium halmaturinum var. scabridum Spyridium phylicoides Spyridium sp. Spyridium sp. Spyridium spathulatum Spyridium texilliferum var. latifolium Spyridium vexilliferum var. latifolium Spyridium vexilliferum var. vexilliferum Stackhousia aspericocca Stackhousia aspericocca common sow-thistle shore westringia slender westringia silky wilsonia sow-thistle corn sparrey salt sand-sparrey coast sand-sparrey cnast spinifex salt couch inland star-lily common star-lily Tate's graxx-tree cnt-leaf xanthosia tall yellow-eye pink zieria common twinleaf coast twinleaf heath spyridium Xyris operculata Zieria veronicea Zygophyllum apiculatum Zygophyllum billardierei Kangaroo Island spyridium

rough spyridium shining spyridium narrow-leaf spyridium

spenn-leaf spyridium thyme-leaf spyridium winged spyridium winged spyridium

swamp starwort foxtail spear-grass elegant spear-grass

hush candles bush candles bush candles candles candles cuast candles chickweed

Spyridium vexilliferum var. vexilliferum
Stackhousia aspericocca ssp.
Stackhousia aspericocca ssp.
Stackhousia aspericocca ssp. 'Cylindrical inflores
Stackhousia aspericocca ssp. 'One-sided infloresce
Stackhousia sp.
Stackhousia spathulata
Stellaria media
Stellaria palustris var. palustris
Stipa deasiflora
Stipa elegantissima
Stipa elegantissima
Stipa flavescens

#### Development of a Biodiversity Database

# **Appendices**

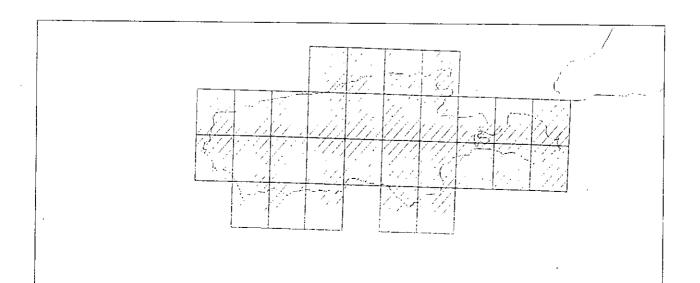
### Appendix II

TOTAL FAUNA LIST FOR KANGAROO ISLAND FROM A GRID SEARCH OF THE DATABASE.

The details and map below show the grids searched for this retrieval.

Number of Grids Selected: 29 Area Selected: 26974 km2 Number of Species Found: 289

Longitude	Latitude	Longitude	Latitude
136°35'00"	35°45'00"	136°45'00"	35°45'00"
136°55'00"	35°45'00"	137°05'00"	35°45'00"
137°15'00"	<i>35°45'00"</i>	137°25'00"	35°45'00"
137°35'00"	35°45'00"	137°45'00"	35°45'00"
<i>137°55'00"</i>	<i>35°45'00''</i>	138°05'00"	35°45'00"
137°15'00"	<i>35°35′00"</i>	137°05'00"	35°35'00"
137°25'00"	35°35′00″	137°35′00″	35°35'00"
<i>136°35'00"</i>	35°55′00″	136°45'00"	35°55'00"
136°55'00"	<i>35°55′00"</i>	137°05'00"	35°55'00"
137°15'00"	35°55'00"	137°25'00"	35°55'00"
137°35′00"	35°55'00"	137°45'00"	35°55'00"
137°55'00"	35°55′00"	138°05'00"	35°55'00"
136°45'00"	36°05'00"	136°55'00"	36°05'00"
137°05'00"	36°05′00″	137°25'00"	36°05'00"
137°35'00"	36°05′00"		30 03 00



### South Australian Fauna

Scientific Name	Common Name	Scientific Name	Common Name
Acanthagenys rufogularis rufogularis	Spiny-cheeked Honeyeater	Eurystomus orientalis	Dullarbird
Acanthiza apicalis	Broad-tailed Thornhill	Falco berigora	Brown Falcon
Acanthiza chrysorrhoa Acanthiza lineata	Yellow-rumped Thornbill Striated Thornbill	Falco cenchroides cenchroides Falco longipennis	Australian Kestrel
Acanthiza nana	Little (Yellow) Thornbill	Falco peregrinus	Australian Hobby Peregrine Falcon
Acenthiza pusilla	Brown Thornbill	Falco subniger	Black Falcon
Acanthorhynchus tenuirostris tenuirostris	Eastern Spinebill	Felis catus	Cat
Accipiter cirrhocephalus cirrhocephalus Accipiter fasciatus fasciatus	Collared Sparrowhawk Australian Goshawk	Fulica atra Fulmarus glacialoides	(Eurasian) Coot Southern Fulmar
Acrocephalus stentoreus	Clamorous Reed Warbler	Gallinago hardwickii	Latham's (Japanese) Snipe
Actitis hypoleucos	Common Sandpiper	Galiinula tenebrosa tenebrosa	Dusky Moorhen
Aegintha temporalis temporalis	Red-browed Finch	Gallinula ventralis	Black-tailed Native-hen
Aegotheles cristatus Alauda arvensis	Australian Owlet-uightjar Common Skylark	Gehyra variegata Gliciphila melanops	Tree Diella
Alectura lathami lathami	Australian Brush-turkey	Globicephala melas	Tawny-crowned Honeyeater Long-finned Pilot Whale
Auas castanea	Chesmut Teal	Glossopsitta concinna	Musk Lorikeet
Anas gracilis gracilis	Australasian Grey Teal	Glossopsitta porphyrocephala	Purple-crowned Lorikeet
Anas rhynchotis rhynchotis Anas superciliosa superciliosa	Australasian Shoveler Black Duck	Graltina cyanoleuca Gymnorhina tibicen	Australian Magpie Lark
Anbinga melanogaster	Darter	Haemstopus fuliginosus fuliginosus	Australian Magpie Sooty Oystercatcher
Anthochaera carunculata carunculata	Red Wattlehird	Haematopus ostralegus	Pied Oystercatcher
Anthochaera chrysoptera chrysoptera	Little Wattlebird	Haematopus ostralegus longirostris	Pied Ovstercaicher
Anthus novaescelandiae Anthus novaescelandiae australis	Richard's Pipit Richard's Pipit	Haleyon saneta saneta Haliacetus leucoguster	Sacred Kingfisher White-beasted Sea-eagle
Aprasia striolata	Lined Worm-lizard	Haliastur aphenurus	Whistling Eagle
Apus pacificus pacificus	Fork-tailed Swift	Hemiergis decresiensis	Three-toed Exrless Skink
Aquila audax audax	Wedge-tailed Eagle	Hemiergis peronii	Four-toed Earless Skink
Arctocephalus forsteri Ardea alba	New Zealand Fur-seal	Hemiergis sp.	C . 1 1 T
Ardea garzetta	Great (White) Egret Little Exret	Heteroscelus brevipes Himantopus leucocephalus	Grey-tailed Tattler Black-winged Stilt
Ardea novaehollandiae novaehollandiae	Little Egret White-faced Heron	Hirundagus caudacutus caudacutus	Spine-tailed Swift (White-thro
Ardea pacifica	Pacific (White-necked) Heron	Hirundo ariel	Fairy Martin
Ardea sacra sacra Arenaria interpres	Eastern Reef Egret	Hirundo neoxena	Welcome Swallow
Arenama interpres Artamus cyanopterus	(Ruddy) Turnstone Dusky Woodswallow	Hirundo nigricans nigricans Hoplopterus miles	Tree Martin Masked Lapwing
Austrelaps labialis	•	Hoplopterus tricolor	Maskea Lapwing Banded Lapwing
Austrelaps sp.	Pygmy Copperhead	Hydroprogne caspia	Caspian Tern
Aythya australis	Hardhead	Hylacola cauta	Shy Heathwren (Shy Hylacola)
Balaenoptera acutorostrata Bassiana duperreyi	Minke Whale Eastern Three-lined Skink	Isoodon obesulus Lampropholis delicata	Short-nosed Bandicont Delicate Skink
Biziura lobata	Musk Duck	Lampropholis guichenoti	Garden Skink
Bubulcus ibis	Cattle Egret	Larus novachollandiae novachollandiae	Silver Gull
Burhinus grallarius	Southern Stone-curiew (Bush Th	Larus pacificus	Pacific Gull
Cacatua galerita galerita Cacatua sanguinea	Sulphur-crested Cockatoo Little Corella	Lerista bougainvillii Lerista dorsalis	Bougainville's Skink Southern Four-toed Slider
Cacomantis flabelliformis flabelliformis	Fan-tailed Cuckoo	Lerista sp.	Experient Control Control
Calidris acuminata	<ul> <li>Sharp-tailed Sandpiper</li> </ul>	Leucocarbo fuscesceus	Black-faced Cormorant
Calidris ferruginea	Curlew Sandpiper	Limnodynastes dorsalis	Western Banjo Frog
Calidris ruficollis Callocephalon fimbriatum	Red-necked Stint Gang-gang	Limnodynastes dumerilii Limnodynastes tasmaniensis	Bull Frog (Eastern Banjo Frog) Marhled Frog (Spotted Grass Fr
Calyptorhynchus funereus	Yellow-tailed Black Cockaton (	Limosa lapponica	Bar-tailed Godwit
Calyptorhynchus lathami	Glossy Black Cockaton	Limosa limosa	Black-tailed Godwit
Caperea marginata Capra hircus	Pygmy Right Whale	Litoria ewingii	Brown Tree Frog
Carduelis carduelis	Goat European Goldfinch	Lophoictinia isura Macronectes giganteus	Square-tailed Kite Southern Giant Petrel
Cercartetus concinnus	Southwestern Pigmy-Possum	Macropus eugenii	Dama Wallaby
Cercartetus lepidus	Little Pigmy-Possum	Macropus fuliginosus	Western Grey Kungaroo
Cercartetus sp. Cercopsis novachollandiae	Cape Barren Gouse	Macropus giganteus	Eastern Grey Kangaroo
Chalinolobus gouldii	Gonld's Wattled Bat	Malacorhyuchus membranaceus Malurus cyaneus	Pink-eared Duck Superh Blue Wren
Chalinolobus morio	Chocolate Wattled Bat	Megalurus gramineus	Little Grassbird
Charadrius mongolus mongolus	Mongolian Plover	Meliphaga cratitia	Purple-gaped Honeyeater
Charadrius rubricollis Charadrius ruficapillus	Hooded Dotterel (Hooded Plover	Meliphaga leucotis	White-eared Honeyeater
Chenonetta jubata	Red-capped Dotterel Maned Duck	Meliphaga virescens Melithreptus brevirostris	Singing Honeyeater Brown-headed Honeyeater
Chrysococcyx basalis	Horsfield's Bronze Cuckoo (Ruf	Melithreptus lunatus lunatus	White-naped Honeyeater
Chrysococcyx lucidus	Shining Bronze Cuckoo	Menetia greyii	Dwarf Skink
Cincloramphus cruralis	Brown Songlark	Merops ornatus	Rainhow Bee-eater
Circloramphus mathewsi Circus approximans	Rufous Souglark Swamp (Marsh) Harrier	Mesoplodon grayî Mesoplodon layardii	Gray'x Beaked Whale Strap-toothed Beaked Whale
Circus assimilis	Spotted Harrier	Morethia obscura	Mallee Snake-eye
Cladorhynchus leucocephalus	Banded Stilt	Morus serrator	Australasian Gannet
Collocalia sp.		Mus domesticus	House Monse
Colluricincia harmonica Columba livia	Grey Shrike-thrush Feral Pigeon	Myingra inquieta inquieta Neobatrachus pictus	Restless Flycatcher Meeowing Frog
Coracina novaehollandiae novaehollandiae	Black-faced Cuckoo-strike	Neobatrachus sp.	Meenwing 170g
Corvus coronoides coronoides	Australian Raven	Neophema elegans	Elegant Parrot
Corvus mellori	Little Raven	Neophema petrophila	Rock Parrot
Corvus sp. Coturnix novaezelandiae	Stubble Quail	Neophema sp.	decotoredition Constitution
Coturnix novaezeiandiae Crinia signifera	Sannie Quan Brown Froglet (Common Eastern	Neophocz cinerea Nephrurus milii	Australian Sea-lion Thick-tailed Gecko
Ctenophorus decresii	Tawy Dragon	Ninox novaeseelandiae	Boobook Owl
Cuculus pallidus	Pallid Cuckoo	Notechia ater	Black Tiger Snake
Cyclodomorphus melanops Cygnus atratus	Spinifex Stender Bluctongue Black Swan	Notechis scutatus Numenius madagascariensis	Eastern Tiger Snake
Cygnus atratus Dacelo novaeguinese novaeguinese	Biack Swan Laughing Kookaburra	Numenius madagascariensis Numenius phaeopus	Eastern Curlew Whimbrel
Daption capease	Cape Petrel	Nycticorax caledonicus	Nankeen (Rufous) Night Heron
Delphinus delphis	Common Dalphin	Nyctophilus geoffroyi	Lesser Long-eared Bat
Dermochelys corincen	Leathery Turtle	Ocyphaps lophotes	Crested Pigeon
Diomedea cauta Diomedea chlororhynchos	Shy Albatross Yellow-nosed Albatross	Ornithorhynchus anatinus Ovis aries	Platypus Sheep
Diomedea exulans exulans	Wandering Albatross	Oxyura australis	Blue-billed Duck
Diomedea melanophrys	Black-browed Albatross	Pachycephaia pectoralis	Golden Whistler
Dromaius novaehollandine	Emu D. H Chi. L	Pachyptila turtur	Fairy Prion
Egernia multiscutata Egernia sp.	Bull Skink	Pandion haliaetus Pandion haliaetus cristatus	Osprey Osprey
egernia sp. Egernia whitii	White's Skink	Pardalotus punctatus	Spotted Pardalote
Elanus caeruleus	Black-shouldered Kite	Pardalotus sp.	•
Elanus scriptus	Letter-winged Kite	Pardalotus striatus	Striated Pardalote
Elseyornis melanops	Black-fronted Dotterel Beautiful Firetail	Pardalotus xanthopygus Passer domesticus domesticus	Yellow-rumped Pardulote House Sparrow
Emblema bellum Emblema guttatum	Beautiful Firelaii Diamond Firelaii	Passer domesticus domesticus Pavo cristatus	Honse Sparrow Indian (Blue) Peafowl
Eolophus roseicapillus	Galah	Pelagodroma marina	White-faced Storm-Petrel
	Large Forest Eptesicus	Pelecanus conspiciliatus	Australian Pelican
Eptesicus darlingtoni			
Eptesicus regulus	King River Eptesicus	Petroica multicolor	Scarlet Robin Block Comments
	King River Eptesicus White-fronted Chat Red-kneed Dotterel	Petroica muticolor Phalacrocorax carbo Phalacrocorax melanoleucos melanoleucos	Black Cormorant Little Pied Cormorant

#### South Australian Fauna

Scientific Name Common Name Pied Cormorant Pied Cormorant ommon Bronzewing Brush Bronzewing Phalacrocorax varius
Phalacrocorax varius hypoleucos
Phaps chalcoptera
Phaps elegans elegans
Phaps sp.
Phascolarctos cinereus riaps etegans
Phaps sp.
Phascolarctos cinereus
Phylidonyris albifrons
Phylidonyris albifrons
Phylidonyris appyrhoptera
Phylidonyris proprehoptera
Phylidonyris proprehoptera
Phylidoactylus marmoratus
Physeter macrocephalus
Platalea flavipes
Platalea flavipes
Platalea regia
Platycercus elegans
Porpadis poliocephalus
Pogona barbata
Pogona barbata
Poliocephalus poliocephalus
Porphyrio porphyrio
Portana fluminea
Porzana tabuensis
Pseudonelius
Pseudocheirus peregrinus
Pseudocheirus
Pseudo Kocila
White-fronted Honeyeater
New Holland Honeyeater
Crescent Honeyeater
Marbled Gecka
Sperm Whale
Yellow-billed Spoonbill
Royal Spoonbill
Crinson Rosella
'Adelaide Rosella'
'Adelaide Rosella'
Glossy Ibis
Grey Plover
Great Crested Grebe
Eastern Bearded Dragon
Houry-headed Grebe
Purple Swamphen
Australian Crake
Baillon's (Marsh) Crake
Southern Grass Skink
Common Ringtail
Brown Toadlet
Western Whiphird
Little Red Flying-fox
Flesh-footed Shearwater
Short-tailed Shearwater
Short-tailed Shearwater
Lewin's Rail
Rush Rou ort-tailed Shearwater Lewin's Rail Bush Rat Bush Rat Eastern Swamp Rat Black Rat Red-necked Avocet Grey Fantail Willie Wagtail White-browed Scrubwren Spotted Scrubwren Sericornis frontalis front Sericornis maculatus Sminthopsis aitkeni Stercorarius parasiticus Sterna nereis nereis Sterna vittata Stictonetta naevosa Stipiturus malachurus Strepera versicolor Scoty Dunnart
Arctic Jaeger
Fairy Tern
Amarctic Tern
Freckled Duck Anterectal Ferii
Freekled Duck
Sonthern Emu-wren
Grey Currawong
Spotted Turtle-dove
common European) Starling
Pig
Little Whip Snake
Australasian Grebe
Echidba
White-striped Mastiff-But
Australian Shelduck
Crested Tern
Sucred (White) Ibis
Straw-necked Ibis
Enstern Bluetongue
Rainbow Lorikeet
Common Brushaul
Marsh Sandpiper
Blackbird
Painted Button-qual
Buttle-nessed Dolphin
Barn Owl Stictonetta naevosa
Stipiturus malachurus
Strepera versicolor
Streptopelia chinensis
Sturnus vulgaris vulgaris
Sus scrofa
Suta flagellum
Tachybaptus novaehollandiae
Tachybaptus novaehollandiae
Tadarida australis
Tadarida australis
Tadarida australis
Tadarina tadornoides
Thalasseus bergii
Threskiornis spinicollis
Tiliqua scincoides
Trichosynus vulpecula
Tringa nebularia
Tringa stagnatilis
Turdus merula merula
Turnix varia varia
Tursiops truncatus
Tyto alba
Varanus rosenbergi
Vespertilionidae sp.
Zoothera lunulata
Losterops lateralis Barn Owl

Scientific Name

Common Name

Heath Goarria

Mountain Thrush (Ground Thrush Silvereye

#### Development of a Biodiversity Database

## **Appendices**

#### Appendix III

## FREQUENCY LIST OF TERRESTRIAL VERTEBRATES RECORDED IN CONSERVATION PARKS ON KANGAROO ISLAND.

The SP CODE is the unique identifier used in the taxonomic databases of the Viridans system STATUS is divided into the following categories:

\* European Introduction

The two letter codes refer to the National (in capitals) and the South Australian (in lower case) conservation status divided into the following categories:

The definition for the status codes are as follows:

- (E, e)Endangered: taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating.
- (V, v)Vulnerable: taxa believed likely to move into endangered category in the near future if the causal factors continue operating.
- (R, r)Rare: taxa with small populations in South Australia that are not at present endangered or vulnerable, but are at risk.
- (N, n) Status not yet assessed

Note that this table is an unedited retrieval from the combined databases searched for this project and so includes records of species only identified to genus a couple of whales from the Museum database and other potential database errors which can now be edited thanks to the ease of this type of retrieval in the Viridans system

SP. CODE	STATUS	SCIENTIFIC NAME	COMMON NAME	NO. SITES	FREQ
10		Acanthiza lineata	Striated Thornbill	6	1.86
12		Acanthiza pusilla	Brown Thornbill	11	3.42
622	-	Acanthorhynchus tenuirostris tenuirostris	Eastern Spinebill	10	3.11
951	-	Acrocephalus stentoreus	Clamorous Reed Warbler	1	0.31
878		Aegintha temporalis temporalis	Red-browed Finch	3	0.93
29	*.	Alauda arvensis	Common Skylark	2	0.62
425		Anas castanea	Chestnut Teal	1	0.31
1049		Anas gracilis gracilis	Australasian Grey Teal	1	0.31
430	Nr	Anas rhynchotis rhynchotis	Australasian Shoveler	1	0.31
432		Anas superciliosa superciliosa	Black Duck	. 1	0.31
704		Anthochaera carunculata carunculata	Red Wattlebird	18	5.6
705	<del></del>	Anthochaera chrysoptera chrysoptera	Little Wattlebird	3	0.93

733		Anthus novaeseelandiae	Richard's Pipit	2	0.62
53		Aprasia striolata	Lined Worm-lizard	10	3.11
331		Aquila audax audax	Wedge-tailed Eagle	3	0.93
451		Ardea novaehollandiae novaehollandiae	White-faced Heron	2	0.62
461	Nr	Ardea sacra sacra	Eastern Reef Egret	1	0.31
467		Artamus cyanopterus	Dusky Woodswallow	Ī	0.31
2358		Austrelaps labialis		8	2.49
599	Nn	Austrelaps sp.	Pygmy Copperhead	1	0.31
60	Nr	Balaenoptera acutorostrata	Minke Whale	1	0.31
2334		Bassiana duperreyi	Eastern Three-lined Skink	2	0.62
435	Nv	Biziura lobata	Musk Duck	1	0.31
491		Cacatua sanguinea	Little Corella	3	0.93
1051		Cacomantis flabelliformis flabelliformis	Fan-tailed Cuckoo	7	2.18
495	Ν̈́ν	Calyptorhynchus funereus	Yellow-tailed Black Cockatoo (	3	
0.93	_				
497	Ne	Calyptorhynchus lathami	Glossy Black Cockatoo	1	0.31
632	*	Carduelis carduelis	European Goldfinch	1	0.31
482		Cercartetus concinnus	Southwestern Pigmy- Possum	29	9.03
81		Chalinolobus morio	Chocolate Wattled Bat	3	0.93
85	Vv	Charadrius rubricollis	Hooded Dotterel (Hooded Plover	3	0.93
437		Chenonetta jubata	Maned Duck	1	0.31
557		Chrysococcyx basalis	Horsfield's Bronze Cuckoo (Ruf	7	2.18
559	Nr	Chrysococcyx lucidus	Shining Bronze Cuckoo	1	0.31
360		Circus approximans	Swamp (Marsh) Harrier	2	0.62
747	•	Colluricincla harmonica	Grey Shrike-thrush	14	4.36
502		Coracina novaehollandiae novaehollandiae	Black-faced Cuckoo-strike	1	•
0.31					
546		Corvus coronoides coronoides	Australian Raven	1	0.31
96		Corvus mellori	Little Raven	2	0.62
2042		Corvus sp.		5	1.55
797	·	Crinia signifera	Brown Froglet (Common Eastern	24	7.47
438		Cygnus atratus	Black Swan	3	0.93
915		Egernia multiscutata	Bull Skink	3	0.93
2291		Egernia sp.		2	0.62
149		Egernia whitii	White's Skink	9	2.8
875	Nv	Emblema bellum	Beautiful Firetail	2	0.62
487		Eolophus roseicapillus	Galah	7	2.18
153		Eptesicus regulus	King River Eptesicus	1	0.31
2346	·	Epthianura albifrons albifrons	White-fronted Chat	4	1.24
161	_	Eudyptula minor	Little (Fairy) Penguin	2	0.62

628		Falco berigora	Brown Falcon	3	0.93
629	<u>_</u>	Falco cenchroides cenchroides	Australian Kestrel	4	1.24
164		Falco peregrinus	Peregrine Falcon	1	0.31
165	*	Felis catus	Cat	4	1.24
167		Fulica atra	(Eurasian) Coot	1	0.31
728		Gliciphila melanops	Tawny-crowned Honeyeater	7	2.18
669		Glossopsitta porphyrocephala	Purple-crowned Lorikeet	7	2.18
549		Gymnorhina tibicen	Australian Magpie	11	3.42
647		Haematopus fuliginosus fuliginosus	Sooty Oystercatcher	1	0.31
649		Haematopus ostralegus longirostris	Pied Oystercatcher	1	0.31
335	Nv	Haliaeetus leucogaster	White-beasted Sea-eagle	3	0.93
177		Hemiergis decresiensis	Three-toed Earless Skink	4	1.24
180		Hemiergis peronii	Four-toed Earless Skink	26	8.09
2293		Hemiergis sp.	, , , , , ,	<u> </u>	0.31
181		Hirundo neoxena	Welcome Swallow	12	3.73
651		Hirundo nigricans nigricans	Tree Martin	4	1.24
2345		Hoplopterus miles	Masked Lapwing	1	0.31
185		Hydroprogne caspia	Caspian Tern	1	0.31
173	Nv 	Hylacola cauta	Shy Heathwren (Shy Hylacola)	2	0.62
190		Lampropholis delicata	Delicate Skink	4	1.24
916		Lampropholis guichenoti	Garden Skink	35	10.9
660		Larus novaehollandiae novaehollandiae	Silver Gull	2	0.62
191		Larus pacificus	Pacific Gull	2	0.62
199		Lerista bougainvillii	Bougainville's Skink	14	4.36
209		Leucocarbo fuscescens	Black-faced Cormorant	1	0.31
782		<u> </u>	Bull Frog (Eastern Banjo Frog)	13	4.04
786		Limnodynastes tasmaniensis	Marbled Frog (Spotted Grass Fr	4	
1.24				·	
653		Litoria ewingii	Brown Tree Frog	10	3.11
222	Nn	Macropus eugenii	Dama Wallaby	31	9.65
223		Macropus fuliginosus	Western Grey Kangaroo	29	9.03
228		Malurus cyaneus	Superb Blue Wren	14	4.36
233		Megalurus gramineus	Little Grassbird	2	0.62
709		Meliphaga cratitia	Purple-gaped Honeyeater	10	3.11
712		Meliphaga leucotis	White-eared Honeyeater	2	0.62
722		Melithreptus brevirostris	Brown-headed Honeyeater	5	1.55
236		Menetia greyii	Dwarf Skink	4	1.24
1048	.Nr	Mesoplodon layardii	Strap-toothed Beaked Whale	1	0.31
245		Morethia obscura	Mallee Snake-eye	12	3.73
740	*	Mus domesticus	House Mouse	28	8.72
788		Neobatrachus pictus	Meeowing Frog	12	3.73

860	Nn	Neophema elegans	Elegant Parrot	2	0.62
861	Nn	Neophema petrophila	Rock Parrot	2	0.62
816	Nr	Neophoca cinerea	Australian Sea-lion	4	1.24
2374		Nephrurus milii	Thick-tailed Gecko	7	2.18
253		Ninox novaeseelandiae	Boobook Owl	2	0.62
1433		Notechis ater	Black Tiger Snake	18	5.6
608		Notechis scutatus	Eastern Tiger Snake	3	0.93
259	Nv	Numenius	Eastern Curlew	1	0.31
	_	madagascariensis			
264		Nyctophilus geoffroyi	Lesser Long-eared Bat	7	2.18
270		Oxyura australis	Blue-billed Duck	1	0.31
765		Pachycephala pectoralis	Golden Whistler	13	4.04
817	Nv	Pandion haliaetus cristatus	Osprey	1	0.31
818		Pardalotus punctatus	Spotted Pardalote	1	0.31
2099		Pardalotus sp.		1	0.31
820		Pardalotus striatus	Striated Pardalote	5	1.55
822	Nv	Pardalotus xanthopygus	Yellow-rumped Pardalote	3	0.93
277	*	Pavo cristatus	Indian (Blue) Peafowl	1	0.31
279	<del></del>	Pelagodroma marina	White-faced Storm-Petrel	1	0.31
281		Pelecanus conspicillatus	Australian Pelican	1	0.31
771		Petroica multicolor	Scarlet Robin	4	1.24
833		Phalacrocorax	Little Pied Cormorant	1	
		melanoleucos		_	
		melanoleucos			
0.31					
1061		Phalacrocorax varius	Pied Cormorant	1	0.31
834		Phalacrocorax varius	Pied Cormorant	1	0.31
		hypoleucos			
537		Phaps elegans elegans	Brush Bronzewing	8	2.49
2007		Phaps sp.	<u></u>	1	0.31
291	Nr	Phascolarctos cinereus	Koala	2	0.62
729		Phylidonyris novaehollandiae novaehollandiae	New Holland Honeyeater	15	
4.67					
295		Phylidonyris pyrrhoptera	Crescent Honeyeater	10	3.11
643		Phyllodactylus marmoratus	Marbled Gecko	14	4.36
866		Platycercus elegans	Crimson Rosella	3	0.93
884		Poliocephalus poliocephalus	Hoary-headed Grebe	2 .	0.62
905		Porzana fluminea	Australian Crake	1	0.31
791	Nn	Pseudophryne bibronii	Brown Toadlet	3	0.93
809	Nv	Psophodes nigrogularis	Western Whipbird	3	0.93
322		Puffinus tenuirostris	Short-tailed Shearwater	1	0.31
326		Rattus fuscipes	Bush Rat	8	2.49
744		Rattus fuscipes greyii	Bush Rat	·18	5.6
2232		Rattus sp.		1	0.31
776		Rhipidura fuliginosa	Grey Fantail	6	1.86
778		Rhipidura leucophrys leucophrys	Willie Wagtail	3	0.93

261		Sericornis maculatus	Spotted Scrubwren	14	4.36
583	Nr	Sminthopsis aitkeni	Sooty Dunnart	1	0.31
665	Nv	Sterna nereis nereis	Fairy Tern	1	0.31
355	Nv	Stipiturus malachurus	Southern Emu-wren	1	0.31
552		Strepera versicolor	Grey Currawong	17	5.29
949	*	Sturnus vulgaris vulgaris	(Common,European) Starling	2	0.62
358		Tachybaptus novaehollandiae	Australasian Grebe	1	0.31
955		Tachyglossus aculeatus	Echidna	14	4.36
440		Tadorna tadornoides	Australian Shelduck	2	0.62
847		Threskiornis aethiopicus	Sacred (White) Ibis	4	1.24
849		Threskiornis spinicollis	Straw-necked Ibis	1	0.31
671		Trichoglossus haematodus	Rainbow Lorikeet	9	2.8
835	Nn	Trichosurus vulpecula	Common Brushtail	41	12.77
429	Nn	Varanus rosenbergi	Heath Goanna	15	4.67
2328		Vespertilionidae sp.		1	0.31
393		Zosterops lateralis	Silvereye	15	4.67

## **Appendices**

#### Appendix IV

## TAXONOMIC LIST OF TERRESTRIAL VERTEBRATES RECORDED IN CONSERVATION PARKS ON KANGAROO ISLAND.

The SP CODE is the unique identifier used in the taxonomic databases of the Viridans system STATUS is divided into the following categories:

\* European Introduction

The two letter codes refer to the National (in capitals) and the South Australian (in lower case) conservation status divided into the following categories:

The definition for the status codes are as follows:

- (E, e)Endangered: taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating.
- (V, v)Vulnerable: taxa believed likely to move into endangered category in the near future if the causal factors continue operating.
- (R, r)Rare: taxa with small populations in South Australia that are not at present endangered or vulnerable, but are at risk.
- (N, n) Status not yet assessed

Note that this table is an unedited retreival from the combined databases searched for this project and so includes records of species only identified to genus a couple of whales from the Museum database and other potential database errors which can now be edited thanks to the ease of this type of retreival in the Viridans system

#### **AMPHIBIA**

Hylidae

Litoria ewingii

Brown Tree Frog

Leptodactylidae

Crinia signifera
Limnodynastes dumerilii
Limnodynastes tasmaniensis
Neobatrachus pictus
Nn Pseudophryne bibronii

Brown Froglet (Common Eastern
Bull Frog (Eastern Banjo Frog)
Marbled Frog (Spotted Grass Fr
Meeowing Frog
Brown Toadlet

#### REPTILIA

Elapidae

Austrelaps labialis Nn Austrelaps sp. Notechis ater Notechis scutatus

Pygmy Copperhead Black Tiger Snake Eastern Tiger Snake

Gekkonidae

Nephrurus milii

Phyllodactylus marmoratus

Thick-tailed Gecko Marbled Gecko

#### Pygopodidae

Aprasia striolata

Lined Worm-lizard

#### Scincidae

Bassiana duperreyi
Egernia multiscutata
Egernia sp.
Egernia whitii
Hemiergis decresiensis
Hemiergis peronii
Hemiergis sp.
Lampropholis delicata
Lampropholis guichenoti
Lerista bougainvillii
Menetia greyii
Morethia obscura

Eastern Three-lined Skink Bull Skink

White's Skink Three-toed Earless Skink Four-toed Earless Skink

Delicate Skink Garden Skink Bougainville's Skink Dwarf Skink Mallee Snake-eye

#### Varanidae

Nn Varanus rosenbergi

Heath Goanna

#### **AVES**

#### Accipitridae

Aquila audax audax Circus approximans Nv Haliaeetus leucogaster Nv Pandion haliaetus cristatus Wedge-tailed Eagle Swamp (Marsh) Harrier White-beasted Sea-eagle Osprey

#### Alaudidae

\*Alauda arvensis

Common Skylark

#### Anatidae

Anas castanea
Anas gracilis gracilis
Nt Anas rhynchotis rhynchotis
Anas superciliosa superciliosa
Nv Biziura lobata
Chenonetta jubata
Cygnus atratus
Oxyura australis
Tadorna tadornoides

Chestnut Teal
Australasian Grey Teal
Australasian Shoveler
Black Duck
Musk Duck
Maned Duck
Black Swan
Blue-billed Duck
Australian Shelduck

#### Ardeidae

Ardea novaehollandiae novaehollandiae Nt Ardea sacra sacra White-faced Heron Eastern Reef Egret

#### Charadriidae

Vv Charadrius rubricollis
Haematopus fuliginosus fuliginosus
Haematopus ostralegus longirostris
Hoplopterus miles

Hooded Dotterel (Hooded Plover Sooty Oystercatcher Pied Oystercatcher Masked Lapwing

#### Columbidae

Phaps elegans elegans Phaps sp. Brush Bronzewing

#### Corvidae

Artamus cyanopterus Colluricincla harmonica

Coracina novaehollandiae novaehollandiae

Corvus coronoides coronoides

Corvus mellori Corvus sp.

Gymnorhina tibicen Pachycephala pectoralis Nv Psophodes nigrogularis Rhipidura fuliginosà

Rhipidura leucophrys leucophrys

Strepera versicolor

Dusky Woodswallow Grey Shrike-thrush

Black-faced Cuckoo-strike

Australian Raven

Little Raven

Australian Magpie Golden Whistler Western Whipbird Grev Fantail Willie Wagtail Grey Currawong

#### Cuculidae

Fan-tailed Cuckoo Cacomantis flabelliformis flabelliformis Horsfield's Bronze Cuckoo (Ruf Chrysococcyx basalis Shining Bronze Cuckoo Nr Chrysococcyx lucidus

#### Eopsaltriidae

Petroica multicolor

Scarlet Robin

#### Falconidae

Falco berigora Falco cenchroides cenchroides Falco peregrinus

Brown Falcon Australian Kestrel Peregrine Falcon

#### Fringillidae

\*Carduelis carduelis

European Goldfinch

#### Hirundinidae

Hirundo neoxena Hirundo nigricans nigricans Welcome Swallow Tree Martin

#### Laridae

Hydroprogne caspia Larus novaehollandiae novaehollandiae

Larus pacificus Nv Sterna nereis nereis Caspian Tern Silver Gull

Pacific Gull Fairy Tem

#### Maluridae

Malurus cyaneus Nv Stipiturus malachurus Superb Blue Wren Southern Emu-wren

#### Meliphagidae

Acanthorhynchus tenuirostris tenuirostris Anthochaera carunculata carunculata Anthochaera chrysoptera chrysoptera Epthianura albifrons albifrons Gliciphila melanops Meliphaga cratitia Meliphaga leucotis Melithreptus brevirostris Phylidonyris novaehollandiae novaehollandiae

Eastern Spinebill Red Wattlebird Little Wattlebird White-fronted Chat Tawny-crowned Honeyeater Purple-gaped Honeyeater White-eared Honeyeater Brown-headed Honeyeater

New Holland Honeyeater

Crescent Honeyeater Phylidonyris pyrrhoptera

#### Pardalotidae

Acanthiza lineata
Acanthiza pusilla
Nv Hylacola cauta
Pardalotus punctatus
Pardalotus sp.
Pardalotus striatus
Nv Pardalotus xanthopygus
Sericornis maculatus

Striated Thombill
Brown Thombill
Shy Heathwren (Shy Hylacola)
Spotted Pardalote

Striated Pardalote
Yellow-rumped Pardalote
Spotted Scrubwren

Passeridae

Aegintha temporalis temporalis Anthus novaeseelandiae Ny Emblema bellum Red-browed Finch Richard's Pipit Beautiful Firetail

Pelecanidae

Pelecanus conspicillatus

Australian Pelican

Black-faced Cormorant

Phalacrocoracidae

Leucocarbo fuscescens Phalacrocorax melanoleucos melanoleucos Phalacrocorax varius

Little Pied Cormorant
Pied Cormorant
Pied Cormorant

Phalacrocorax varius hypoleucos

Phasianidae

Indian (Blue) Peafowl

Podicipedidae

\*Pavo cristatus

Poliocephalus poliocephalus Tachybaptus novaehollandiae Hoary-headed Grebe Australasian Grebe

Procellariidae

Pelagodroma marina Puffinus tenuirostris White-faced Storm-Petrel Short-tailed Shearwater

Psittacidae

Cacatua sanguinea
Nv Calyptorhynchus funereus
Ne Calyptorhynchus lathami
Eolophus roseicapillus
Glossopsitta porphyrocephala
Nn Neophema elegans
Nn Neophema petrophila
Platycercus elegans
Trichoglossus haematodus

Little Corella
Yellow-tailed Black Cockatoo (
Glossy Black Cockatoo
Galah
Purple-crowned Lorikeet
Elegant Parrot
Rock Parrot
Crimson Rosella
Rainbow Lorikeet

Rallidae

Fulica atra Porzana fluminea (Eurasian) Coot Australian Crake

Scolopacidae

Nv Numenius madagascariensis

Eastern Curlew

Spheniscidae

-Eudyptula minor Little (Fairy) Penguin

Strigidae

Ninox novaeseelandiae

Boobook Owl

Sturnidae

\*Sturnus vulgaris vulgaris

(Common, European) Starling

Sylviidae

Acrocephalus stentoreus Megalurus gramineus Clamorous Reed Warbler Little Grassbird

Threskiornithidae

Threskiornis aethiopicus Threskiornis spinicollis Sacred (White) Ibis Straw-necked Ibis

Zosteropidae

Zosterops lateralis

Silvereye

**MAMMALIA** 

Balaenopteridae Nr Balaenoptera acutorostrata

Minke Whale

Burramyidae

Cercartetus concinnus

Southwestern Pigmy-Possum

Dasyuridae

Nr Sminthopsis aitkeni

Sooty Dunnart

Felidae

\*Felis catus

Cat

Macropodidae

Nn Macropus eugenii Macropus fuliginosus Dama Wallaby Western Grey Kangaroo

Muridae

\*Mus domesticus Rattus fuscipes Rattus fuscipes greyii Rattus sp. House Mouse Bush Rat Bush Rat

Otariidae

Nr Neophoca cinerea

Australian Sea-lion

Phalangeridae

Nn Trichosurus vulpecula

Common Brushtail

Phascolarctidae

Nr Phascolarctos cinereus

Koala

Tachyglossidae

Tachyglossus aculeatus

Echidna

Vespertilionidae

Chalinolobus morio Eptesicus regulus Nyctophilus geoffroyi Vespertilionidae sp. Chocolate Wattled Bat King River Eptesicus Lesser Long-eared Bat Ziphiidae Nr Mesoplodon layardii

Strap-toothed Beaked Whale