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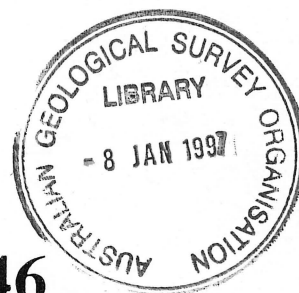
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QUATDB QUATERNARY CLIMATES DATABASE

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G.R. HUNT, S.L. LENZ & T.T. BARROWS



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AUSTRALIAN
GEOLOGICAL SURVEY
ORGANISATION

**QUATDB -
QUATERNARY CLIMATES
DATABASE**

Record 1996/46

G.R. Hunt, S.L. Lenz and T.T. Barrows

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION



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DEPARTMENT OF PRIMARY INDUSTRIES AND ENERGY

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ABSTRACT

The Australian Quaternary Climates Database QUATDB is designed to store information on palaeoclimates within the Australian region over the last two million years. The database was developed at the Australian Geological Survey Organisation using the relational database management system Oracle on a Unix platform. There are three main sections: location and current environmental conditions, data tables, and interpretations. Lookup tables are used where possible for improved data entry and consistency. A full description of each table and its data fields is provided.

The information now stored in QUATDB was derived from both published work and, more recently, direct contact with researchers. The database currently contains data derived from more than 250 published papers and includes both marine and terrestrial sites. A list of all sites is included in the appendices. Using the data stored in the database an updated sea-surface temperature compilation for the Last Glacial Maximum was produced. A link to the World Wide Web has been developed for external client access. Future developments will require greater input from the Quaternary research community.

1. INTRODUCTION

Weather and climate have always had an important influence on humans. It is often assumed that, while the weather varies from day to day and even year to year, climate is unchanging. Climate is not a constant, and global climates changed significantly over the period of recorded history. Two notable climatic periods from the last millennium were the Mediaeval Warm Period and the Little Ice Age where temperatures were respectively warmer and colder than present. The effect of a one or two degree centigrade change in global average temperature had a marked impact on agricultural and lifestyle patterns in northern Europe. During warm periods settlements were viable on remote Iceland and Greenland. Crop species such as wheat and grapes could be cultivated further north than is possible today. In cold periods settlements were increasingly cut off in winter due to heavy snow or increased sea ice extent and duration. Glaciers grew larger in mountainous areas destroying villages, and famines became common as crops failed in bad seasons. The prospect of a new climate change of some magnitude already under way and due to our modification of the natural system is thus a cause for concern. Laying aside the debate about what should be done it is clear that more information is needed about the present climate system and what climate systems were like in the past before reliable forecasts of future change can be produced.

What sort of records do we have of past weather or climate? Regular recording of the weather using instruments has only been under way for at most a few centuries. Beyond this there are observations made in diaries, court records and inscriptions, but human records cannot help us beyond a few thousand years. In Australasia this period is even shorter as the native cultures prior to European intrusion had no written records. To go further back we must look at the geological record.

The geological record provides a number of different sources of palaeoclimatic data. These sources differ in the type of climatic information and the precision of the estimate they offer. On land the distribution and types of plant and animal community relate to the climatic conditions. Thus tropical rainforest plant and animal species suggest a warm, wet climate while alpine grasses and a paucity of animal remains indicate cold temperatures. Those same climatic conditions also influence landscape processes and hence what landforms develop. Depositional landforms such as lakes will show variation in climate in the pattern and distribution of sediments. Erosional landforms such as cirques require specific conditions for their formation different to those occurring in Australia today. Offshore detailed, long continuous records can be found: chemical analysis of the planktonic fauna provides us with ocean temperature records demonstrating the major changes of the glacial-interglacial cycles.

The Australian Quaternary Climate Database (QUATDB) forms a part of AGSO's database system. It has been designed to store information relating to palaeoclimate in the Australasian region over the Quaternary period (generalised to include the last 2 million years). This information's source, originally published literature, has been expanded to include unpublished data sets derived from researchers. QUATDB, developed by the Climate Change and Impacts group, is intended to aid in the understanding of potential future anthropogenic changes by examining the climates of the recent past.

The project began in September 1991 following receipt of a grant from the National Greenhouse Advisory Commission. This grant included funding for modelling of both past

and future climates to be undertaken by the CSIRO's Division of Atmospheric Research in Melbourne. One of the aims of QUATDB is to store data for testing these models.

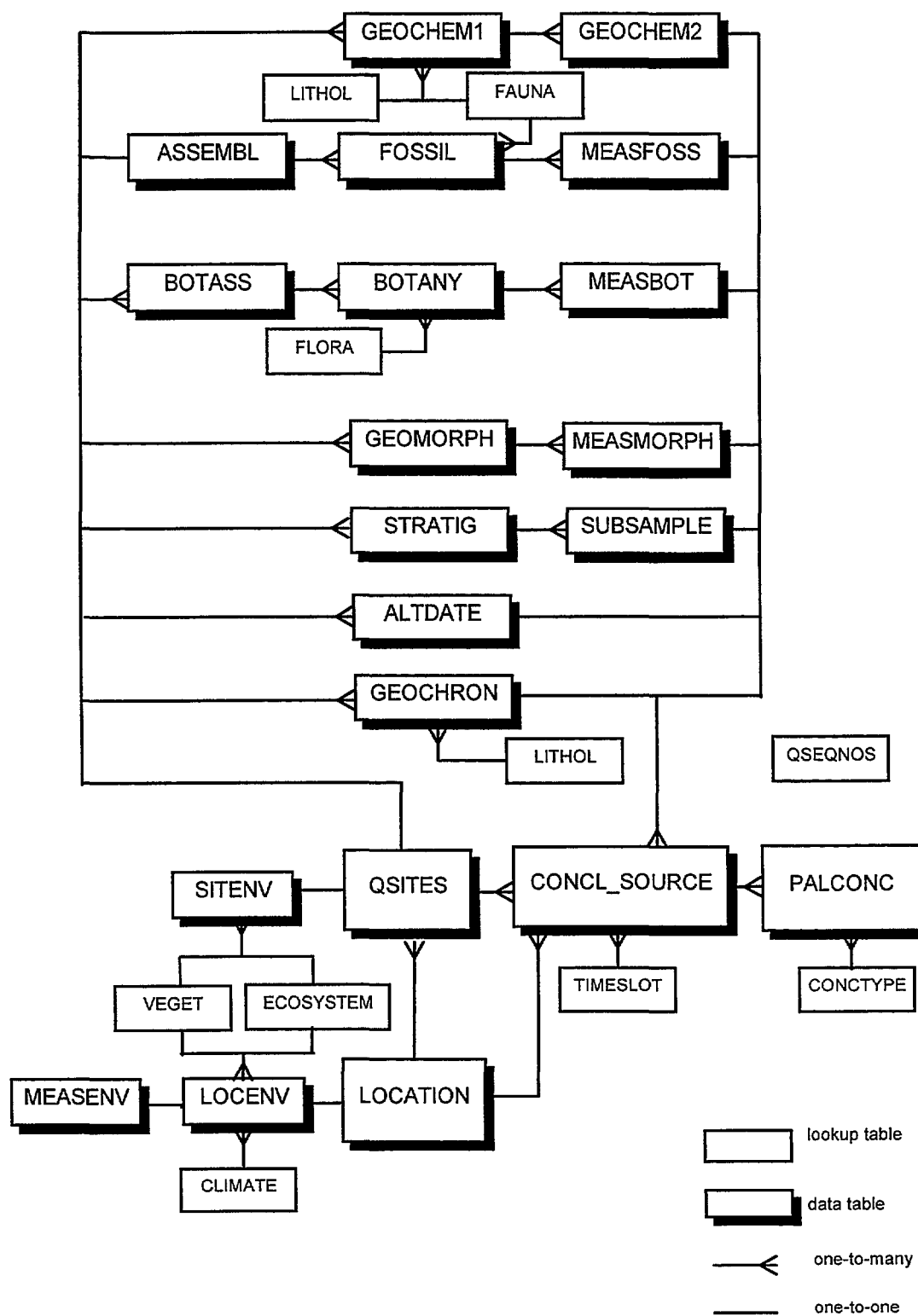
The first step in the development of the database was to identify the potential sources of data, so a bibliography was put together (Bleys et al., 1994). One of the challenges immediately faced on completion of the bibliography was the large range of potential sources of palaeoclimatic data. This diversity of information led to a structure of greater complexity than most of the other, rather more specific, AGSO databases (see Chapter 2).

The database can be divided into three sections: geographical information and site description; "primary" data sets of disciplinary research; and interpretations based on the research. The site description provides a location and a brief indication of current environmental parameters such as climate, vegetation and landform. Each site forms a point where some type of research has been undertaken. Associated with this research are data sets collected from analysis of materials from the site or examination of features at the site. These data sets have been subdivided on the basis of the discipline under which the research was undertaken. Thus there are geochronological, geochemical, palaeontological, palaeobotanical, geomorphological and stratigraphical data tables. One output from the data collection is interpretation of the past environment based on the data sets. The interpretations stored in the final section of the database are those of the author and extracted from the published reference.

There are a large number of tables containing free-text comments fields. These are used to enter data which is not appropriately catered for in the other fields including comments regarding potential errors or queries about the information presented in the reference. This is not a good way to store data in relational databases but it is expedient due to the largely unstructured nature of the material the data is being extracted from. If a particular piece of information is found to be regularly present in a certain comments field then a new field can be created to store it specifically.

2. STRUCTURE OF QUATDB

The following diagram shows the structure of QUATDB, that is, the tables contained in the database and the relationships between them.



Tables are represented by boxes, the lines between them represent the relationships between records in the various tables. In the bottom left-hand corner are all tables that contain site and locality information. These tables are linked either directly, or indirectly through tables

containing data sets (all tables in the upper two thirds of the diagram), to the tables containing interpretations or conclusions in the lower right-hand corner of the diagram.

Below is a listing of all tables in QUATDB. The list is divided into the three main parts of the database described above, and a fourth group, a list of "lookup" tables. A lookup or authority table usually consists of a code field for a sequential number or short string of characters and a field with a full description. Lookup tables are used to identify valid entries for particular fields. They help to eliminate typing errors and cut down on data entry time. They also enforce consistency which in turn makes data retrieval easier. The table (or tables) which a lookup table is linked to is indicated in brackets in the following list.

TABLE NAME	DESCRIPTION OF CONTENTS
Site information	
LOCATION	description of entity to which sites belong
LOCENV	broad-scale current climatic and ecological parameters
MEASENV	additional broad-scale current environmental parameters
QSITES	description of point of research
SITENV	local-scale current ecological parameters
Primary data sets	
GEOCHRON	geochronological age determinations and related information
ALTDATE	ages determined through indirect methods such as correlation
GEOCHEM1	type of geochemical analysis and material
GEOCHEM2	value and error (including range) of geochemical analysis
ASSEMBL	palaeontological information about the whole deposit
FOSSIL	listing of faunal species and their habitat and taphonomy
MEASFOSS	measurements relating to individual faunal species
BOTASS	palaeobotanical information about the whole deposit
BOTANY	listing of botanical species and their ecology and taphonomy
MEASBOT	measurements such as abundance of individual species
GEOMORPH	description of landforms
MEASMORPH	measurements made on a landform
STRATIG	listing and description of lithological units
SUBSAMPLE	measurements made within a stratigraphic unit
Interpretations	
CONCL_SOURCE	estimated age of interpretation (includes zones)
PALCONC	type, value and source of interpretation
Lookup tables	
CLIMATE	Thornthwaite's climate classification (LOCENV table)
CONCTYPE	types of interpretation (PALCONC table)
ECOSYSTEM	ecosystem types (LOCENV and SITENV tables)
FAUNA	animal species as family/genus/species (FOSSIL table)
FLORA	plant species as family/genus/species (BOTANY table)
LITHOL	sedimentary lithologies (GEOCHEM1 and GEOCHRON tables)
QSEQNOS	listing of highest sequential numbers for numeric key fields
TIMESLOT	specified time periods (CONCL_SOURCE table)
VEGET	structural vegetation types (LOCENV and SITENV tables)

3. TABLE AND FIELD DESCRIPTIONS

This chapter lists for each table all data fields: their names in the database and a description of the data contents. See Appendix B for data types and field lengths.

3.1. GEOGRAPHICAL INFORMATION

The following tables display the positional and current environmental parameters of the **site** and its surrounding **locality**. A **site** is defined as a point where some measurements have been made, from which material has been taken for analysis or where a feature has been located. At the site certain environmental factors are significant such as the local vegetation and ecosystem. Surrounding the site and in some way intimately related is a **locality**. In most cases the locality represents a landform such as a lake. The locality is chosen because interpretations derived from a site often relate more to the entire landform (e.g. *the lake was full*) than just the site point. At this locality scale environmental parameters such as climate and regional vegetation are defined.

QUATDB was initially populated by a literature extraction and sites are linked to studies (i.e. bibliographic references) in a many-to-one relationship. Thus one study may have more than one site related to it. If the same site (e.g. a core) has been reported on more than once it will be allocated a different site number (SITENO) in each study. This allows the source of information to be identified. Each site must relate to a location and a study.

3.1.1. LOCALITY INFORMATION (LOCATION TABLE)

This table contains the positional information for localities. As mentioned above a locality is usually a geomorphic feature. The scale of localities is variable so that while on some occasions a single latitude/longitude value is sufficient (e.g. for a cave or swamp), on others both sets of latitude/longitude fields are needed to delineate a bounding rectangle (e.g. for a large lake).

LOCNO - Locality number: mandatory unique identifier for each locality.

COUNTRYID - Three-letter code derived from AGSO's country list. A list of the most likely countries is: *AUS* - Australia, *ATA* - Antarctica, *PNG* - Papua New Guinea, *INA* - Indonesia, *SLB* - Solomon Islands, *NZL* - New Zealand, *NCL* - New Caledonia and *VUT* - Vanuatu. This field is left blank for oceanic sites.

PROVDIST - Province/District: name for the region that the locality and sites are positioned within. This may be part of a state or a physically defined region (e.g. *Barrington Tops*, *Hay Plain*, *SW Victoria*).

LOCNAME - Name of the location that the sites are located within. This is usually a geographical entity (e.g. *Lake George*, *Skull Cave*, *Lord Howe Rise*).

LOCTYPE - Locality type: a brief generalisation of the nature of the locality in terms of its geomorphology (e.g. *lake*, *highlands*, *cave*, *wetland*). A list of accepted types can be found in Appendix A.

ALT1 - Minimum elevation for the locality in metres above or below sea level (depths below sea level are negative). In oceanic localities this is the greatest depth below sea level.

ALT2 - Maximum elevation for the locality in metres above or below sea level. In oceanic localities this is the shallowest depth below sea level.

DEGLAT1, MINLAT1, SECLAT1 - The northernmost latitude of the locality divided into three fields for degrees, minutes and seconds as integers.

DEGLONG1, MINLONG1, SECLONG1 - Westernmost longitude of the locality divided into three fields for degrees, minutes and seconds as integers.

DEGLAT2, MINLAT2, SECLAT2 - Southernmost latitude of the locality (assumes a range) in the same format as the first latitude.

DEGLONG2, MINLONG2, SECLONG2 - Easternmost longitude of the locality (assumes a range) in the same format as the first longitude.

DLAT1 - Northernmost latitude of the locality in decimal degrees. Value is negative if in Southern Hemisphere.

DLONG1 - Westernmost longitude of the locality in decimal degrees.

DLAT2 - Southernmost latitude of the locality in decimal degrees. Value is negative if in Southern Hemisphere.

DLONG2 - Easternmost longitude of the locality in decimal degrees.

LCOMM - Additional relevant comments about the locality.

3.1.2. LOCATION ENVIRONMENT (LOCENV TABLE)

This table holds information on the broad-scale current environmental conditions over the locality. They allow comparison with estimated past values found in the interpretations tables.

LOCNO - Locality number: link to the LOCATION table.

CLIMID - Climate type code from Thornthwaite's 1931 climatic classification of the present-day climate at the locality (Thornthwaite, 1933 and 1948). Thornthwaite is used in preference to the well known Köppen classification as there is a better agreement with other environmental boundaries (Gentili, 1972). See Appendix A for the list of possible values in the lookup table CLIMATE.

TEMP - Mean annual temperature in degrees Celsius for the locality.

PPTN - Mean annual precipitation (rainfall and snowfall) in millimetres for the locality.

EVAP - Mean annual evaporation in millimetres for the locality.

PE - Mean annual ratio of precipitation over evaporation for the locality.

ECONOR1 - Code for the present-day regional ecosystem at the locality (ECOSYSTEM lookup table).

RECO1 - Single-character field for indicating whether the ecosystem is anthropogenically (A) or naturally (N) produced.

ECONOR2 - Code for the present-day ecosystem at the locality scale. This field is only used if there is more than one regional ecosystem present (i.e. ECONOR1 has a value).

RECO2 - As for RECO1.

VEGIDR1 - Code for the present-day regional vegetation at the locality (VEGET lookup table).

RVEG1 - Single-character field for indicating whether the vegetation is anthropogenically (A) or naturally (N) produced.

VEGIDR2 - Code for the present-day vegetation at the locality. This field is only used if there is more than one regional vegetation present (i.e. VEGIDR1 has a value).

RVEG2 - As for RVEG1.

3.1.3. OTHER ENVIRONMENTAL INFORMATION (MEASENV TABLE)

This table is designed to hold additional environmental information related to the locality which is not included in the LOCENV table. Each environmental parameter is contained in a separate record. The possible parameters include: *precipitation variability, drainage type, catchment area, lake area, lake depth, mean annual salinity, seasonal salinity, oceanic productivity and seasonal temperature.*

LOCNO - Link to a record in the LOCATION table.

METYPE - Name or description of type of environmental parameter being measured or described.

MEVAL - Quantitative data regarding the environmental parameter.

MEDESC - Qualitative data regarding the environmental parameter (e.g. *meandering, exoreic*). In cases where a quantitative value has been entered in MEVAL the units of measurement should be entered here (e.g. *m, km², ppthousand, deg C, mm*).

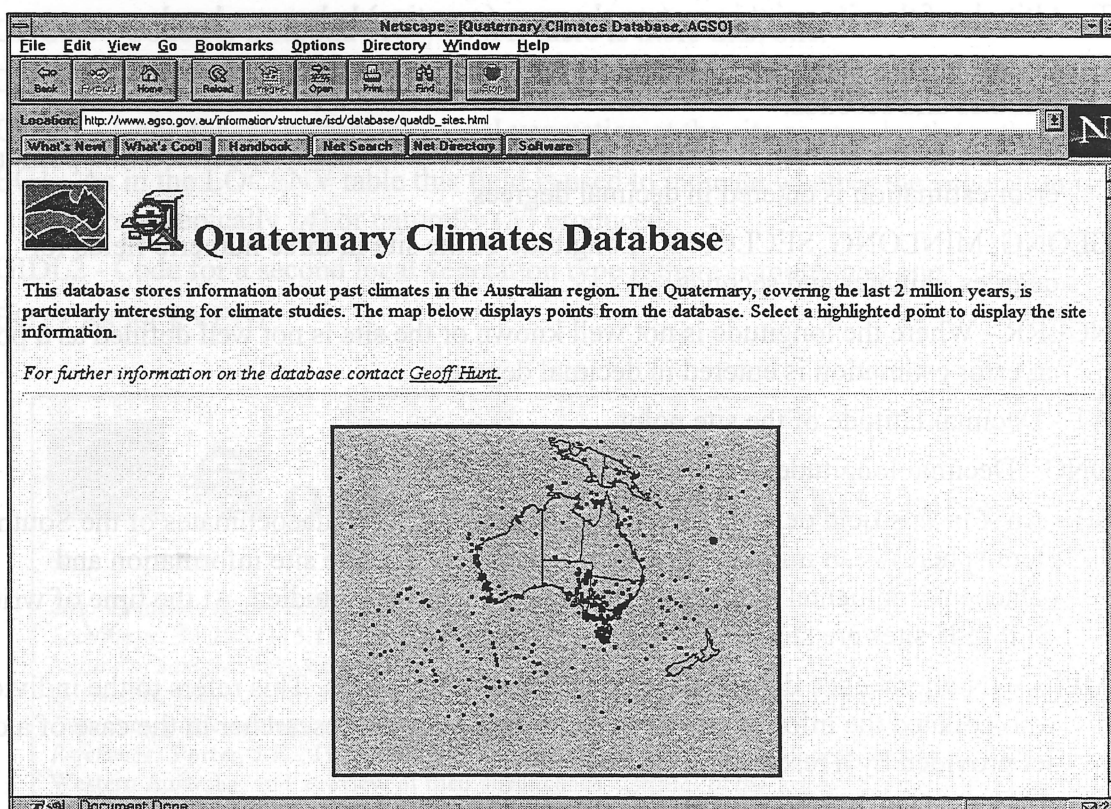


Figure 1. Map of site distribution on the World Wide Web.

3.1.4. SITE INFORMATION (QSITES TABLE)

This table contains geographic information and current environmental conditions for the point at which a site is located and its immediate surroundings.

SITENO - Site number: unique identifier of a site. Used to link the sites information to associated data in other tables. A site number is unique to a study. Thus if the same core is analysed in more than one study it will have a different site number for each of those studies.

LOCNO - Link to a record in the LOCATION table.

STUDYNO - Unique identifier referring to the number assigned to a study in the Quaternary climate bibliography (Bleys et al., 1994). Reference information was transferred to AGSOREFS (AGSO's shared bibliographic reference database, Ryburn & Bond, 1995), and received an additional identifier in that system, called REFID (see below). STUDYNOS greater than 100,000 refer to material provided by researchers which was not associated with any published work.

SITETYPE - A brief indication of the type of site that has been examined (e.g. *cirque*, *swamp*).

GEOGNAME - The name given to the site that has been examined (e.g. *LG4*, *Trench A*, *Pit 2*, *Winderadeen Embankment*).

STATE - Code of state that the site is located in. Only applies to Australian sites. Possible entries are: *ACT*, *NSW*, *NT*, *QLD*, *SA*, *TAS*, *VIC*, *WA*.

ALT - Altitude of the site point in metres above or (negative) below sea level.

DEGLAT, MINLAT, SECLAT - Latitude of the site in three numeric fields for degrees, minutes and seconds.

LATERR - Where the latitude is not well known or the site is not well defined as a point an error estimation is entered in decimal degrees.

DEGLONG, MINLONG, SECLONG - Longitude of the site in three numeric fields for degrees, minutes and seconds.

LONGERR - Where the longitude is not well known or the site is not well defined as a point an error estimation is entered in decimal degrees.

DLAT - Decimal latitude of the site point.

DLONG - Decimal longitude of the site point.

PASH - An *X* in this field denotes a PASH study site. PASH (Palaeoclimates of the Southern Hemisphere) is an initiative in which researchers provide site information and palaeoenvironmental interpretations for sites they have studied. At the time of writing all PASH sites are stored on a separate Oracle database.

COMPNO - Numeric code denoting the compiler of information. This refers to the individual who collated the information from the reference or the researcher in the case of a data set provided by a researcher.

ENTRYDATE - Date the site record was created.

ENTEREDBY - Identification code (Oracle user name) of the person entering the data.

SCOMM - Additional relevant comments about the site.

PT, PB, GC, GN, GM, ST - Entries in these fields denote which data types contain information from the site ie: *X* - data present in database, *O* - data exists but is not yet in the database, or *null* - no known information.

PT	palaeontology	lists and abundances of animal species
PB	palaeobotany	lists and abundances of plant species
GC	geochemistry	elemental analyses
GN	geochronology	dating information
GM	geomorphology	landform description
ST	stratigraphy	lithological unit description

SAMPLE - A short description of the nature of the sample (e.g. *core, road cutting, pit*).

REFID - Unique identifier in the AGSOREFS database of the study the site is related to.

3.1.5. SITE ENVIRONMENT INFORMATION (SITENV TABLE)

This table is for current environmental information relating to the immediate vicinity of the site (restricted to ecosystem and vegetation type).

SITENO - Link to a site in the QSITES table.

ECONOL1 - Code for the present-day local ecosystem at the site as seen by the author.

LECO1 - As in the LOCENV table this field is used to indicate whether the ecosystem is anthropogenically (*A*) or naturally (*N*) produced.

ECONOL2 - Code for a second ecosystem if there is more than one.

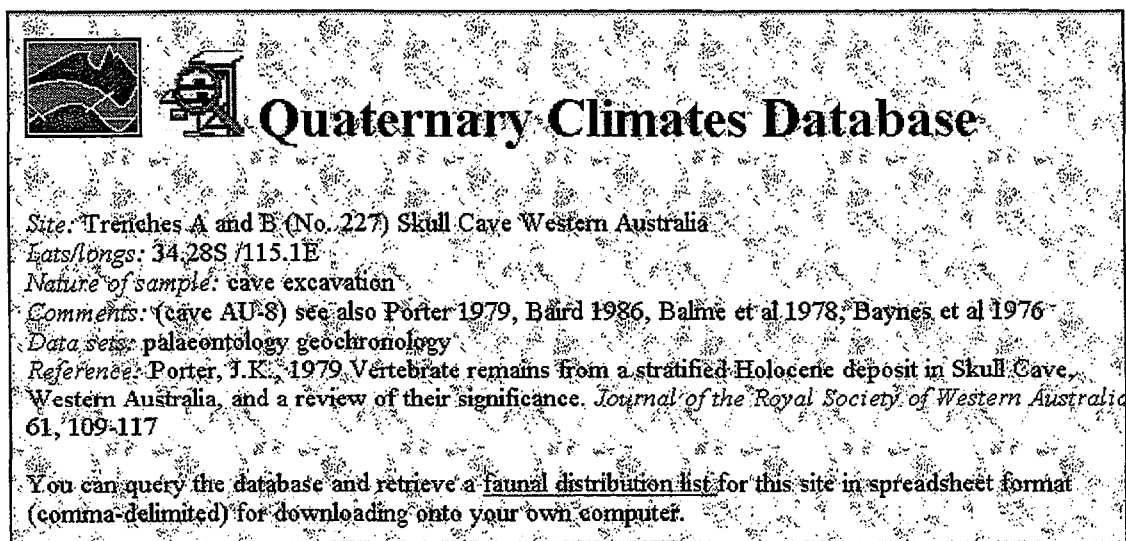
LECO2 - As for LECO1.

VEGIDL1 - Code for the present-day local vegetation at the site as seen by the author.

LVEG1 - As in the LOCENV table this field is used to indicate whether the vegetation is anthropogenically (*A*) or naturally (*N*) produced.

VEGIDL2 - Code for a second local vegetation type if there is more than one.

LVEG2 - As for LVEG1.



Quaternary Climates Database

Site: Trenches A and B (No. 227) Skull Cave Western Australia
 Lat/longs: 34.28S / 115.1E
 Nature of sample: cave excavation
 Comments: (cave AU-8) see also Porter 1979, Baird 1986, Balme et al 1978, Baynes et al 1976
 Data sets: palaeontology geochronology
 Reference: Porter, J.K., 1979. Vertebrate remains from a stratified Holocene deposit in Skull Cave, Western Australia, and a review of their significance. *Journal of the Royal Society of Western Australia* 61, 109-117
 You can query the database and retrieve a faunal distribution list for this site in spreadsheet format (comma-delimited) for downloading onto your own computer.

Figure 2. Example output of sites data on the World Wide Web.

3.2. DATA

The tables in this part of the database store the primary data for a site. Primary data form an important resource for researchers as they comprise those measurements or observations made at the site or on material from the site. They are the basis of the interpretations found in the final part of the database. In many cases the data presented in journals have been manipulated into a modified form. All effort should be made to store the data in as 'raw' a form as possible.

3.2.1. GEOCHRONOLOGY

Geochronology is the discipline which determines the age of samples or particular levels at the site. This geochronology forms the basis of the interpreted ages found in the CONCL_SOURCE table. For climatic interpretations to be useful in the production of palaeoclimatic maps they must relate to specific times. This requires good quality dating to bracket the interpretation. There is an increasing number of ways used to identify the age of material. In this database they have been divided into two groups on whether they are direct (absolute) or indirect (relative) techniques.

3.2.1.1. GEOCHRONOLOGY (GEOCHRON TABLE)

The GEOCHRON table holds those ages which were directly taken from a sample at the site. They are stored under the study where the age was reported for the first time. Age estimates derived from indirect methods such as stratigraphic correlation or ages referred to from a previous study belong in the ALTDAT table (see below).

SITENO - Link to a site in the QSITES table.

GNNO - Geochron number: unique identifier for records in the GEOCHRON table.

GCNO - Link to a record in the GEOCHEM table. This field allows the identification of the geochemical analyses (stored in the Geochemistry tables) which were part of the dating procedure.

LABID - Laboratory identification number used for sample/date (particularly important for radiocarbon dating).

GNDEPTH - Depth from surface to sample in metres.

GNTHICK - Thickness of sample in metres.

LITHID - Type of sediment surrounding the sample. Entered as code derived from the LITHOL lookup table (see Appendix A).

GNMAT - Type of material being dated (e.g. *carbonised wood, charcoal*).

GNAGE1 - Age of material determined from dating technique or method.

GNMOD - Modifying information on date (e.g. >, <). The modifier field attached to a numeric value or age field is used in this and other cases to indicate extra information about a numeric value. There are four main characters used: > for where the true value is greater than the number given, < less than in a similar fashion, ~ the number approximates the real value and ? the value is questionable or if empty, unknown. The field has a length of two characters so combinations such as: << - much less than, >> - much greater than, <= - less than or equal to and >= - greater than or equal to can be used. If the field is *null* it indicates the value is considered accurate.

GNAGE2 - Upper error value of age derived from reference.

GNAGE3 - Lower error value of age derived from reference.

GNMETH - Method of age determination using abbreviations. Possible methods and their abbreviations are: accelerated mass spectrometry - *AMS*, amino-acid racemisation - *AAR*, electron-spin resonance - *ESR*, lead 210 - *PB*, radiocarbon - *RADC*, thermoluminescence - *TL*, uranium series - *USER*.

GNRELIAB - Short description of reliability of date (e.g. *probably too young, contaminated*).

GNZONE - Age zone of the sample being dated if supplied by the reference.

INVEST - Investigator: name of person(s) or group who undertook the dating of the sample.

GNCOMM - Additional relevant information concerning geochronology.

3.2.1.2. ALTERNATE DATING (ALTDAT TABLE)

The ALTDAT table contains information about ages not directly derived from the site or study and/or more indirect age estimates (stratigraphic, palaeomagnetism). To illustrate with some examples: an age in a nearby core may be correlated using the stratigraphy to the current site; an age on the core was previously reported in an earlier study; a stratigraphic level was dated by being the position of the Brunhes-Matuyama boundary. If an age estimate in the CONCL_SOURCE table is not derived from an age in the GEOCHRON table it should be described here.

SITENO - Link to a site in the QSITES table.

ADNO - Mandatory unique identifier for ALTDAT records.

ADDEPTH1 - Depth in metres from surface to level of the age estimate. This is either a single depth or the highest value in a range of depths.

ADDEPTH2 - This is the lowest depth in a range of depths.

ADAGE - Correlated, extrapolated or interpolated age estimate (in years).

ADMOD - Modifying information on the age estimate (e.g. ?, ~)

ADBDRY - The type and/or name of the dated boundary or depth (e.g. *palaeomag. boundary, extrapolated radiocarbon date*).

SOURCESITE - Site number (SITENO) of study-site the original age estimate is derived from (see GEOCHRON table). If the site has not yet been entered in the database then the study number should be used. If the reference is not in the bibliography then the author and date should be listed.

ADMETH - Method of extrapolation: the way in which the age estimate is derived from its original age and situation (e.g. *adjacent core, correlated to stratigraphic layer*).

ADBASIS - Reasoning for associating the age estimate with the depth (e.g. *correlated stratigraphy*).

SOURCEGN - Geochron numbers (GNNO) of original dates if the age estimate is derived from another source (e.g. 706). Where the reference containing the first published occurrence of the date is not in the database (or the author refers to a reference which is not the first published occurrence) the laboratory ID should be used.

ADCOMM - Comments and additional relevant information concerning geochronology.

3.2.2. GEOCHEMISTRY

Geochemical analysis is an important tool in Quaternary research. The tables below store data derived from any form of chemical analysis of samples taken from the site. Analyses range from stable isotopes to amino-acid racemisation including those components of geochronological analysis which require some form of chemical analysis such as element or isotope abundances.

3.2.2.1. ANALYSIS AND MATERIAL (GEOCHEM1 TABLE)

The GEOCHEM1 table identifies the material sampled, analysis target and units. There is provision for species names where the analysed material is fossil.

SITENO - Link to a site in the QSITES table.

GCNO - Geochem number: mandatory unique identifier of records in the GEOCHEM1 table.

FAUNNO - Code for species/genus/family (depending on level of identification) of animal being analysed. Code derived from the FAUNA lookup table (see Appendix A).

LITHID - Type of sediment comprising and/or surrounding the sample. Entered as code derived from the LITHOL lookup table (see Appendix A). Currently the LITHOL lookup table contains a few very broadly defined sediment types.

GCMAT - Type of material being analysed (e.g. *carbonised wood, shell*). Species names of fossil material are entered in the Fauna Number (FAUNNO) field below.

ELFORM - Element form: identity of the component of the material being analysed (e.g. *Ca²⁺, Na/Ca, U, $\delta^{18}O$*).

GCUNITS - Units used in the analysis (e.g. *ppm, ‰*).

GCCOMM - Comments and additional relevant information concerning analysis.

3.2.2.2. MEASUREMENT (GEOCHEM2 TABLE)

The GEOCHEM2 table contains the measurements made on the samples defined in the previous table. Each measurement is related to a depth and thickness (where known). The measurement may be in the form of a range of values.

GCNO - Link to a record in the GEOCHEM1 table.

ELVAL - Measured value derived from analysis or lower value of a range.

ERROR1 - Upper error value of analysis.

ERROR2 - Lower error value of analysis.

GCDEPTH - Depth from surface to sample in metres.

GCTHICK - Thickness of sample in metres.

ELVAL2 - Measured upper value derived from analysis when a range.

ERROR3 - Upper error value of analysis.

ERROR4 - Lower error value of analysis.

GCCOMM - Additional relevant information concerning the measurement.

3.2.3. PALAEOLOGY

Palaeontology in this specific case is used for the study of fossil animals. Animals living at a site are constrained by the environmental conditions. A broad picture of the palaeoclimate can be developed through an examination of the habitat requirements of the entire assemblage. Using one or only a few species to predict the conditions is problematic as several species in Australia show fossil distributions far outside the predicted range of their present habitat.

3.2.3.1. ASSEMBLAGE DETAILS (ASSEMBL TABLE)

This table holds a broad overview of the palaeontology of a deposit. Where the deposit has been subdivided into several zones the information in this table refers to the whole site and not an individual horizon.

SITENO - Link to a site in the QSITES table.

ASAGE1 - Youngest age estimate the assemblage has been attributed to in years.

ASMOD1 - Modifying information on the minimum age.

ASAGE2 - Oldest age estimate in years to which the assemblage has been attributed.

ASMOD2 - Modifying information on the maximum age.

ASDEPTH - Depth from surface to top of assemblage in metres. If the section begins at the surface then the depth is 0. This value is given either as absolute or relative (e.g. *AHD*).

ASTHICK - Thickness of the entire assemblage examined in metres.

PRESMED - Preserving medium: description of the material the fossils were recovered from. The sediment present and the context in which the fossils were preserved should be added along with their origin (e.g. *semi-indurated grey clay, loosely compacted cave fill with coprolites and carnivore debris*). Further detail should be entered into the stratigraphy table.

SOURCE - Factors or mechanisms responsible for accumulating the fossils comprising the assemblage (e.g. *deposited by longshore currents and possibly reworked, mostly a deposit of owl pellets and Sarcophilus meals*). These agents are commonly depositional processes or organisms.

ASCOMM - General comments on the assemblage and relevant additional information.

CORREL - Correlation: if the assemblage is referred to by a specific name then that name is placed here (e.g. *Alcoota Fauna*). If this assemblage is considered contemporary with other assemblages then the other assemblage names are listed with their location (e.g. *Upper Horizon Fauna correlated with the Upper Horizon Fauna from Titans shelter*).

3.2.3.2. FOSSIL INFORMATION (FOSSIL TABLE)

This table contains details of fossil organisms found at the site.

SITENO - Link to a site in the QSITES table.

FOSNO - Fossil number: unique identifier of records in the FOSSIL table.

FOSCAT - Category: code for a broad subdivision of fossils based on size and structure.

Possible entries are: *M* - microfossils (forams, ostracods, diatoms, etc.), *I* - invertebrates (molluscs, crustaceans, etc.), and *V* - vertebrates (birds, mammals, amphibians, reptiles, fish). This field is filled in the FAUNA lookup table and should only be used here where the taxon is not listed in that table.

FAUNNO - Fauna number: code for a species in the FAUNA lookup table (see Appendix A).

FAUNOTHER - Other name: where a relevant common name is used to describe the fossil then that name can be entered here to provide additional reference. Queries on identification and taxa not listed in the FAUNA lookup table are also placed here (e.g. *cf. M. titan, spotted quoll*).

FOSSTAT - Current status of the species at the site. *X* - the species is extinct, *E* - species is extant but no longer found near the site, and *P* - species is extant and its current distribution includes the site area. It is generally assumed that the 'current' distribution refers to the range existing at the time of European settlement and not the subsequent and often severely restricted range. The lookup table FAUNA has some species correctly identified as extinct (*X*) but this list is not complete.

HABITAT - Environmental conditions that the organism existed in and/or presently lives in (e.g. *riparian and wet sclerophyll forest, euryhaline with a high tolerance for variable conditions*).

FOSCOMM - Additional relevant comments concerning the fossil. In particular identification uncertainty with species is useful information.

TAPHONOMY - Conditions the fossil/s of a particular species were deposited under at the site. This is distinct to the taphonomy of the whole assemblage as it identifies those taphonomic agents affecting individual species. Notes are included here on the presence of reworking and the consequential state of preservation of the fossils (e.g. *reworking and slight dissolution has caused fragmentation of many valves, many bones have been charred by fire and chewed by marsupial rats*).

3.2.3.3. MEASUREMENTS (MEASFOSS TABLE)

This table contains any measurements made during the course of the site investigation on each species. At present this is mainly numerical abundance. The table is capable of storing measurements of physical dimensions of specimens.

FOSNO - Link to a record in the FOSSIL table.

MFDEPTH - Depth from surface to top of the particular level in metres. Where fossil measurements were made at a number of horizons, then a record is filled out for each level the fossil occurs in. If the section begins at the surface then the depth is 0. This value is given either as absolute or relative (e.g. *AHD*).

MFTHICK - Thickness of the section that the measurement was made on in metres.

MATERIAL - Type of fossil remains recorded in the section. This usually comprises part of the endo- or exoskeleton of the animal (e.g. *right femur and several other bones and teeth, shells*).

NOPRES - Number present: (minimum) number of individuals identified for a particular depth and thickness.

ABUND - Indication of the abundance of a fossil at the particular level or interval where there is no numeric value (e.g. *rare*).

MFDESC - Short description of characteristic measured, or indication of what feature is present (e.g. *tooth width* (using this format - M^3, M_3 - for the upper and lower jaw), *total number of remains, bone length*).

MFVAL1 - Single measurement or lower limit of a range of measurements.

MFMOD1 - This modifier functions similarly to modifiers described in previous tables and is entered when the value is in doubt or needs non-numeric qualification.

MFERROR1 - Quantitative errors are entered here. When both error fields are entered it implies an error range for the values given.

MFVAL2 - Upper limit of a range of measurements.

MFMOD2 - As for FMOD1.

MFERROR2 - As for MFERROR1.

MFUNITS - Units the values were measured in (e.g. *mm, %, No.*).

MFTREND - Across some sample thicknesses fossil numbers show a variability or relative trend. This field describes the dynamics of the values measured. This is usually quantified as increasing, decreasing or constant (e.g. *increasing with small fluctuations, bones are less common at the top of the sequence*).

MFCOMM - Relevant information about the reliability of the fossils and supplementary information.

3.2.4. PALAEOBOTANY

Palaeobotany is the study of the fossil plant material (including pollen and spores) preserved at the site. These remains allow the identification of the vegetation at the site and in the surrounding region. The type of vegetation in turn offers information about the climatic conditions at the site.

3.2.4.1. PALAEOBOTANY ASSEMBLAGES (BOTASS TABLE)

This table stores information relating to the whole deposit of plant material at the site.

SITENO - Link to a site in the QSITES table.

BADEPTH - Depth from surface to top of assemblage in metres. If the section begins at the surface then the depth is 0. This value is given either as absolute or relative (e.g. *AHD*).

BATHICK - Thickness of the entire assemblage examined in metres.

BAAGE1 - Youngest age in years for the assemblage.

BAMOD1 - Modifying information on the minimum age entered when there is doubt on an age. No modifier indicates the date used is considered reliable.

BAAGE2 - Oldest age in years for the assemblage.

BAMOD2 - Modifying information on maximum age as with BAMOD1.

BACORREL - Correlation: name given to the whole assemblage. If this assemblage is considered contemporary with other assemblages then the other assemblage names are mentioned here with an indication that they are from elsewhere (e.g. *Boggy Creek Flora and has been correlated with the Mosquito Swamp Flora*).

BAPRESMED - Preserving medium: succinct description of what material the pollen or macrofossils have been recovered from (e.g. *semi-indurated lake sediments, woody peat with fine sand*). A full description should be entered into the stratigraphy table.

BAPRESERV - Fossil preservation: factors responsible for positioning the pollen and fossils present in this assemblage. The agents responsible are most commonly depositional processes or other organisms (e.g. *deposited by regional air fall and possibly reworked, sediments oxidised with probable loss of some pollen*).

BAMETH - Comments on the methods of analysing and processing the data (e.g. *only large grains counted*).

BACOMM - Comments about the reliability of the assemblage or supplementary relevant information.

3.2.4.2. PLANT INFORMATION (BOTANY TABLE)

The BOTANY table stores the plant types found in the site.

SITENO - Link to a site in the QSITES table.

BNO - Botany number: unique record identifier in the BOTANY table.

FLORID - Flora identifier: code from the FLORA lookup table for the taxonomic classification of the specimen (see Appendix A). Specimen can be identified at family, genus or species level.

BTYPE - Type of fossil evidence represented, i.e. *P* - pollen, *M* - macrofossil, *C* - charcoal.

- BIDENT - Reliability of identification (e.g. *either E. pauciflora or E. delegatensis*).
- BECOL - Description of the ecological requirements or vegetation type of the specimen as supplied by the author (e.g. *tropical rainforest, rainfall >1500mm*).
- BNAME - Name of specimen if not listed in the FLORA lookup table or not a taxonomic name (e.g. *total pollen count, sum grasses*).
- BTAPH - Taphonomy: specific notes on the preservation and sorting of the pollen or macrofossils (e.g. *regional air fall only, smaller grains sorted out*).
- BSTAT - This is the current distributional status for the plant or taxa grouping, i.e. *X* indicates the plant is extinct, *E* indicates the plant is extant but no longer found near the site and *P* indicates the plant is extant and its distribution still includes the site area. As in the palaeontological FOSSIL table current distribution refers to pre-European impact.
- BCOMM - General comments and relevant information about the reliability of the data or supplementary information.

3.2.4.3. MEASUREMENTS/SAMPLES (MEASBOT TABLE)

The MEASBOT table contains the measured values (e.g. pollen counts) relative to depth in the site for the various plant types listed in the BOTANY table.

- BNO - Link to a record in the BOTANY table.
- MBDEPTH - Depth from surface to top of assemblage in metres. If the section begins at the surface the depth is 0. This value is given either as absolute or relative (e.g. *AHD*).
- MBTHICK - This is the entire thickness in metres of the section that the plant measurements apply to.
- MBMAT - Type of plant matter examined (e.g. *pollen, branchlets, tree trunks*).
- MBVAL1 - Measured value according to the units given in Count type (MBTYPE). This is either a single number or the lowest number in a range of values.
- MBMOD1 - Modifying information on the lower value (MBVAL1).
- MBVAL2 - Highest number in a range of values.
- MBMOD2 - Modifying information on the upper value (MBVAL2).
- MBTYPE - Count type: the form and units that the data for the flora has been collected in (e.g. *% of total pollen sum, raw counts/g, $\times 10^3$ grains/g, sum of all grasses and herbs*).
- MBTREND - Description of the dynamics and changeability of the data (e.g. *increasing abundance*) within the depth range specified.
- MBCOMM - General comments and relevant information about the reliability of the data or supplementary information.

3.2.5. GEOMORPHOLOGY

Geomorphology is the study of landforms and a useful source of information about past climates because landform formation is controlled in part by the environmental conditions. In the two tables below descriptions of, and measurements made on, geomorphological features at the site are stored. Geomorphological data are assumed to relate to the landscape's surface. Lithological descriptions related to depth are stored in the stratigraphy section (see below).

3.2.5.1. GEOMORPHOLOGY (GEOMORPH TABLE)

The GEOMORPH table is for full descriptions of the geomorphological features.

SITENO - Link to a site in the QSITES table.

GMNO - Geomorphology number: unique identifier of records in the GEOMORPH table.

LOCNO - Link to a record in the LOCATION table.

GMTYPE - The name given by the author to the geographical body being described (e.g. *Winderadeen Embankment, Blockstream I*).

GMCORR - Other landforms believed to be contemporaneous (e.g. *Winderadeen Embankment is believed to be the same age*). The correlated landform is identified to provide better dating or understanding on processes of formation.

GMAGE1 - Age (in years) when the landform began forming.

GMAGE2 - Age (in years) when the landform finished forming.

GMDESC - Full description of the landform and any qualitative data relating to it (e.g. *consists of a combination of sand and gravel spits*).

GMSTATE - Short description of the landform's present condition (e.g. *active, stabilisation of aeolian features by vegetation, under erosion*). This is for cases where the landform has undergone modification due to changing environmental conditions subsequent to its original formation.

GMCOMM - Additional relevant information about the landform (e.g. *assumed to have formed under periglacial conditions*).

3.2.5.2. MEASUREMENTS (MEASMORPH TABLE)

The MEASMORPH table is designed to hold measurements made on the landform. A many-to-one relationship exists with the GEOMORPH table allowing as many records as required to be entered into the table for a given landform.

GMNO - Link to a record in the GEOMORPH table.

MMDESC - A short description identifying the characteristic of the geomorphic feature that has been measured (e.g. *striation directions, dune height*).

MMVAL1 - Quantitative data derived from the landform. A single numeric measurement or the lower limit of a range of measurements.

MMMOD1 - Modifying information on MMVAL1.

MMVAL2 - Upper limit (numeric) of a range of measurements, or *null*.

MMMOD2 - As for MMMOD1.

MMUNITS - The units for the values (e.g. *m, mm/y*).

MMCOMM - Additional relevant information.

3.2.6. STRATIGRAPHY

The stratigraphy section of the database documents the sediments at a site relative to depth. The sediments may be measured in a core, cross-section or just a surface sample. The stratigraphic record provides background information to the sampling done in some of the other disciplines by detailing the nature of the material from which samples were extracted. It is preferred that the units entered are based solely on changes in the lithology and are not author defined zones.

3.2.6.1. STRATIGRAPHY (STRATIG TABLE)

The STRATIG table contains the description of sedimentary units relative to depth.

SITENO - Link to a site in the QSITES table.

STRATNO - Stratigraphy number: unique identifier for records in the STRATIG table.

STNAME - The name given by the author to the lithological unit. This may be an informal designation or a formal unit title (e.g. *A31, Upper Horizon*).

STCORREL - If any relevant stratigraphic units from other sites are believed to be contemporary then they are referred to here (e.g. *Upper Horizon at Titans Shelter*).

STDEPTH - Depth from surface to the top of the stratigraphic unit in metres. If the section begins at the surface then the depth of the first unit is 0. In certain cases measurements relative to some datum (e.g. *AHD*) or from the base of the section upwards may be used. In these cases reference should be made in the Comments (STCOMM) field.

STTHICK - Thickness of the stratigraphic unit in metres.

STLITH - Lithology: a brief description of the sedimentological and petrological make-up of the stratigraphic unit. This includes sediment grainsize descriptions, colour and degree of consolidation (e.g. *sandy clay with occasional quartz gravel, dark green/grey semi-indurated plastic clay, bedrock*).

STRUCTURES - The sedimentological and chemical structures in the unit formed during deposition or soon after (e.g. *cross-bedding, laminations*).

BIOREMS - Biological remains: a brief note on the presence of fossils or other organic remains in the unit (e.g. *roots, vertebrate fragments, mollusc shells, bones, charcoal, human artefacts*). Comprehensive information should be entered in either the palaeontology or palaeobotany tables.

ALTPRES - Alterations present: descriptions of any changes that have occurred in the lithology since the original sedimentation (e.g. *dissolution, leaching, discolouration, pedogenesis*).

STCOMM - Relevant additional information. For example indication that the depth is not purely measured from the surface.

3.2.6.2. SAMPLE MEASUREMENTS (SUBSAMPLE TABLE)

The SUBSAMPLE table contains records of features within the individual stratigraphic units described in the previous table. The feature may be an observation of variation of an aspect of the unit or actual measurements made on a sample taken from the unit. Each measurement or observation is a single record. There may be more than one measurement at a particular depth. Subsample records must be entered under the appropriate stratigraphic unit (i.e. the record in the STRATIG table with depth and thickness which include the subsample).

STRATNO - Link to a record in the STRATIGRAPHY table.

SSDEPTH - Depth from surface to the top of the subsample. If the sample begins at the surface then the depth is 0. This value is given either as absolute or relative (eg. *AHD*). In the latter case a note should be placed in the Comments (SSCOMM) field.

SSTHICK - Thickness of the subsample in metres.

CHMEAS - A short description for a characteristic that has been measured or a feature or aspect of the lithology observed within a stratigraphic unit (e.g. *weathering present, clay content*).

SSVAL1 - A single numeric value or the lower value in a range of measurements.

SSVAL2 - Upper numeric value in a range of measurements, or *null*.

SSMOD1 - Non-numeric qualifier for Value 1.

SSMOD2 - Non-numeric qualifier for Value 2.

SSERR1 - When quantitative errors are given then they are entered here. This is either a single error or the lower value for a range of errors.

SSERR2 - The upper limit on a range of errors.

SSUNITS - The units which the value/s were measured in.

SSTREND - Indication of the variability of the character through the thickness of the sample (e.g. *increasing, fluctuating*).

SSCOMM - Comments about the reliability of the stratigraphy or supplementary information.

3.3. INTERPRETATIONS

Two tables contain the interpretations made by authors on the data stored in the primary data tables. These conclusions are divided into two parts: when an event occurred (records stored in the CONCL_SOURCE table) and what the conditions were like at the time of the event (records stored in the PALCONC table). There is a one-to-many relationship between records in the CONCL_SOURCE table and the PALCONC table, i.e. one time slice recorded in a particular reference can have several conditions attached to it.

3.3.1. TIME SLICES (CONCL_SOURCE TABLE)

The CONCL_SOURCE table defines the time period covered by the interpretation. The time period can be in the form of absolute ages in years BP, isotopic stages, age periods, specified timeslots or a descriptive phrase. The preferred format is a numeric age range which has been derived from geochronological methods. The depth and thickness fields are primarily used to identify zone boundaries as discussed below. They may also be used to help define interpretations, particularly where there is no dating information.

Zones are author-defined periods based on a set of characteristics found in the record. They usually relate to the faunal, floral or sedimentological record. It is the change of those characteristics at the zone boundary which allows the zone to be distinguished from zones stratigraphically above and below it. As the zone is an arbitrary subdivision of the record (with potential for disagreement and revision) it is considered a conclusion rather than primary data and entered here.

CONCNO - Conclusion number: unique identifier of a record in the CONCL_SOURCE table.

LOCNO - Link to a record in the LOCATION table.

SITENO - Link to the site a conclusion relates to. The site number here is not mandatory allowing geographically broad ranging conclusions derived from a synthesis of data to be non-site specific.

STUDYNO - Identifier of the original reference the site was described in.

SLOTID1 - This field contains coded time periods for use when the conclusion is not identified to a numeric age. There are a range of different time periods stored in the TIMESLOT lookup table (see Appendix A) including subdivided geological periods and Isotopic Stages. If the age of the conclusion matches one of the described periods then the code for the timeslot is entered. The field is also used to enter the upper (i.e. younger) time period of a range.

SLOTID2 - If the conclusion crosses more than one time period then the lower (i.e. older) time period is entered here (see SLOTID1).

INTNAME - Interval names: if the author refers to an age period such as an environmental event that does not match any of the above fields then that name is entered here. This field will not include zone names based on palaeontology, palaeobotany or stratigraphy.

COAGE2 - This is the youngest date of an interval to which the conclusion applies. Filling this field and not lower age implies a short interval (geologically instantaneous) for the conclusion unless a ? in the lower age modifier field indicates the second age is not known.

COMOD2 - Modifying the youngest (upper) date of the interval.

COAGE1 - This is the oldest date which the conclusion relates to. Filling this field implies an age range. There may be cases where the youngest date of the conclusion is unknown and only a question mark is present in the Upper Age modifier.

COMOD1 - Modifying the oldest (lower) age as in COMOD2.

ZNAME - The name of the zone provided by the author.

ZDEPTH - If the conclusion is delineated according to stratigraphy or zonal boundaries then the depth to the top of the conclusion is entered here. If the conclusion begins at the surface then the depth is 0. This value is given either as absolute or relative (e.g. *AHD*).

ZTHICK - This is the entire thickness of the zone or section to which the conclusion refers.

ZORIG - Zone origin: this field identifies the source used to separate the section into distinct zones.

REFID - Identifier of the study in the AGSOREFS database the conclusion relates to.

3.3.2. CONCLUSIONS (PALCONC TABLE)

The PALCONC table contains the conclusions derived from the primary data. They relate to time periods specified in the CONCL_SOURCE table and are divided into three main groups: climate, flora/fauna, and environment.

CONCNO - Link to a record in the CONCL_SOURCE table.

CTID - Coded categorisation of the type of conclusion. The available types are stored in the lookup table CONCTYPE (see Appendix A for values). This field replaced the field called CONCTYPE which is not used anymore.

CONCDESC - Used when the conclusion identifies some variety of entity or process rather than a change in magnitude (e.g. *tropical rainforest, arid fauna, dune formation*).

CHANGE - Description of the qualitative difference in magnitude that existed for this conclusion during the given time period relative to another time period. This difference is assumed to be relative to the present unless the appropriate period is indicated in brackets (e.g. *higher, wetter (than the Holocene)*).

ABCHANGE - Absolute change: description of the qualitative measurement of magnitude during the time period for the conclusion type. This magnitude is in an absolute sense and not relative to any other period (e.g. *full, dry, abundant*).

COVAL1 - Quantitative measurement of the magnitude of the conclusion type relative to the present value. This field is either a single measurement or the lower limit of a range of measurements.

VALMOD1 - As in previous cases a non-numeric modifier for COVAL1.

COVAL2 - Upper limit of a range of measurements or null.

VALMOD2 - Non-numeric qualifier about COVAL2.

COUNITS1 - The units the values were measured in (e.g. *deg C*).

COVAL3 - Quantitative measurement of the magnitude of the conclusion type. This field is either a single measurement or the lower limit of a range of measurements.

VALMOD3 - Non-numeric qualifier about Value 3.

COVAL4 - Upper limit of a range of measurements, or *null*.

VALMOD4 - Non-numeric qualifier about Value 4.

COUNITS2 - The units the values were measured in (e.g. *deg C*).

COTREND - Indication of any variations that occur in the magnitude over the time period (e.g. *fluctuating, increasing*).

REGLOC - A broad definition of the area in which the conclusion applies. Appropriate entries are: *R* - regional, *L* - locality, or *S* - site.

REGEXT - Regional extent: this field is used in conjunction with REGLOC to more specifically define the areal extent of a conclusion. Only the Regional extent needs definition as both Site and Locality are already defined in the QSITES and LOCATION tables. A text description is the usual entry.

INFERSOURCE - Identity of the data source the conclusion is based on (e.g. *vertebrate fossils*). A broad category such as the relevant data type is usually sufficient. This field is being constructed for consistent data entry.

COCOMM - Comments about the reliability of the conclusion or supplementary information.

3.4. LOOKUP TABLES

Lookup tables form an important component of the database. They reduce the chance of data entry errors, and increase the efficiency of storage, data entry and retrieval. The contents of each lookup table are listed in Appendix A. The field descriptions for the lookup tables follow:

3.4.1. CLIMATES (CLIMATE TABLE)

CLIMID - Unique climate type code based on the abbreviations assigned by Thornthwaite (Thornthwaite, 1933).

CLIMDESC - Description of climate type defined in Thornthwaite's 1931 climate classification (Thornthwaite, 1933 and 1948).

3.4.2. CONCLUSION TYPES (CONCTYPE TABLE)

CTID - Unique conclusion type code.

CTDESC - Description of the conclusion type.

3.4.3. ECOSYSTEMS (ECOSYSTEM TABLE)

ECONO - Unique ecosystem number.

ECODESC - Description of the ecosystem (classification based on Begin et al., 1986).

3.4.4. FAUNA (FAUNA TABLE)

FAUNNO - Unique fauna number.

FAUNDESC - Taxonomic description which may be very broad (e.g. class or order) or more specific (e.g. species and sub-species).

FAUNCAT - A broad size and structure subdivision for ready identification of the nature of the fossils. Possible entries are: *M* - microfossils (forams, ostracods, diatoms, etc.), *I* - invertebrates (molluscs, crustaceans, etc.), and *V* - vertebrates (birds, mammals, amphibians, reptiles, fish).

FAUNTYPE - Further subdivision of fossils into major groups. Possible entries are:

<i>AM</i> - amphibian	<i>DF</i> - dinoflagellate	<i>MA</i> - mammal
<i>AN</i> - annelid	<i>EC</i> - echinoderm	<i>OS</i> - ostracod
<i>BI</i> - bird	<i>FI</i> - fish	<i>RA</i> - radiolarian
<i>CO</i> - coral	<i>FO</i> - foraminifera	<i>RE</i> - reptile
<i>CR</i> - crustacean	<i>MO</i> - mollusc	

FAUNSTAT - This is the current status of the species at the site. This field is linked to the FOSSTAT field in the FOSSIL table. The only accepted value in this field is *X* which indicates the species is extinct. The other two entries (*E* and *P*) found in FOSSTAT in the FOSSIL table are site dependent and must be entered in that table. At the time of writing some species are correctly identified as extinct but this list is not complete.

3.4.5. PLANT NAMES (FLORA TABLE)

FLORID - Unique plant identifier code developed from a three-letter abbreviation of the family name, first letter of the genus and a single digit separating genera and a sequential number for the species.

FAMILY - Mandatory taxonomic family name.

GENSPECIES - Field for the genus and species of the plant. This field may be *null* (when only family level identification has been achieved), have genus or both genus and species names listed.

FLORSTAT - This is the current status of the plant at the site. This field is linked to the FLORSTAT field in the BOTANY table. The only accepted value in this field is *X* which indicates the plant is extinct. The other two entries (*E* and *P*) found in FLORSTAT in the BOTANY table are site dependent and must be entered in that table. At the time of writing no plants are identified as extinct.

3.4.6. LITHOLOGIES (LITHOL TABLE)

LITHID - Unique identifier code derived from a simple abbreviation of the lithology type.

LITHDESC - Description of lithology. Currently only a few broad lithologies are stored.

3.4.7. TIME INTERVALS (TIMESLOT TABLE)

SLOTID - Unique identifier code for a time interval derived from a simple abbreviation of the interval's name.

SLOTDESC - Name of the time interval. Intervals include oxygen isotope stages, periods, epochs and glacial ages.

3.4.8. VEGETATION STRUCTURES (VEGET TABLE)

VEGID - Unique vegetation identifier code derived from code used on the 1:5 000 000 scale map of Natural Vegetation for Australia.

VEGDESC - Description of the vegetation based on the structural classification used in the 1:5 000 000 scale map of Natural Vegetation for Australia.

4. STATUS AND FUTURE OF QUATDB

The Quaternary Climates Database has come a long way from its beginnings when its structure was being developed, changed, and changed again as ever more types of data were discovered. The structure is now well established and data from 1236 sites in 273 studies have been entered (Appendix C). Data already stored is concentrated in the tables for locality and site information, geochronology and conclusions. This policy was adopted because of time constraints and the realisation that in many published works the other primary data types were difficult to obtain.

The database is presently implemented in Oracle version 7, AGSO's corporate relational database management system, which runs on a DG AViiON 6250 server under the Unix 5.4 operating system. It is accessible throughout the organisation via a TCP/IP Ethernet backbone which is bridged to several local Novell PC LANs and also to outside users via the Internet. AGSO users can use the data entry and query forms set up in Oracle Forms 3 on the AViiON server on their PCs or Macintoshes with the help of a VT220 terminal emulator (as for instance in Novell's 'LAN Workplace for DOS'). Some retrieval programs for reporting purposes have been written which retrieve subsets of data for specified sites and/or locations.

A significant number of more comprehensively covered marine sites was entered following a request sent out to marine researchers for data sets. This has expanded the area of site coverage to more than 90° meridionally and 60° zonally. A similar request to terrestrial researchers received much positive verbal feedback but little actual material.

The availability of such a large number of marine sites, many recent, provided an opportunity to update the CLIMAP map of the last glacial maximum (LGM) for the region (CLIMAP, 1981). A subset of the data based on quality criteria was selected and the results contoured to produce a new set of sea-surface temperature maps. Both winter and summer sea-surface temperature maps for the LGM, present and present versus LGM were developed (Barrows et al., 1996). The maps showed significant departures from those of CLIMAP.

In February 1996 the fourth CLIMANZ (Quaternary climates of Australia, New Zealand) meeting was held in Canberra. The first CLIMANZ meeting held in 1981 (Chappell & Grindrod, 1983) established the format of examining a number of climatically significant time periods in the Late Pleistocene. Interpretations for each period were drawn on separate maps and backed up by short presentations. In the fourth meeting, sites from QUATDB and other contributors were marked on maps generated at AGSO. In future meetings climatic interpretations stored in the database will also be displayed on the generated maps.

Once the database has been developed and verified the potential clients need convenient access. To this end a link has been established to the World Wide Web through the AGSO homepage. The address for the AGSO homepage is <http://www.agso.gov.au> and the database can be accessed through the Environment page. At present there is a static map of sites contained in QUATDB from which four can be selected to see a summary of their site information (see Figures 1 and 2). In addition, a comma-delimited, depth versus abundance listing for the recorded species can be obtained from the palaeontology table for those sites. In future all sites should be accessible along with the accompanying data sets.

What directions should the database be taking in the future? While the response from researchers for data sets has up to now been disappointing, it certainly remains the most efficient manner of data set collection given the condition of the published literature. The activity will also lead to greater interaction between researchers (i.e. the end users) and the database managers. A large amount of material only published in part resides with researchers and this is in danger of being lost, particularly that collected before widespread use of computers. Another positive development would be to institute an ongoing archiving policy in Quaternary climate research. This would increase the usefulness of the database and remove some of the time constraints suffered by researchers. A greater input from the individual Quaternary researcher and the Australian Quaternary Association needs to occur before the full benefit of this project can be realised. This is now especially important given that the database will lose the support of AGSO in the current financial climate.

5. ACKNOWLEDGMENTS

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APPENDIX A: Contents of lookup tables

quatdb.climate

CLIMID CLIMDESC

AA'r	superhumid hot
AB'r	superhumid warm
AC'r	superhumid cool
BA'w	humid hot, winter dry
BB'r	humid warm
BB'w	humid warm, winter dry
BB's	humid warm, dry summer
BC'r	humid cool
CA'w	subhumid hot, winter dry
CB'r	subhumid warm
CB'w	subhumid warm, winter dry
CB's	subhumid warm, dry summer
CB'd	subhumid warm
CB'dh	subhumid warm (PE>50% from hotter 6 months)
CB'dc	subhumid warm (PE>50% from colder 6 months)
CC'r	subhumid cool
CC'dc	subhumid cool (PE>50% from colder 6 months)
D'	cold
DA'w	semiarid hot, winter dry
DA'd	semiarid hot
DB'w	semiarid warm, winter dry
DB's	semiarid warm, dry summer
DB'd	semiarid warm
EA'd	arid hot
EB'd	arid warm

quatdb.ecosystem

ECONO ECODESC

1	tropical rain forest
2	tropical seasonal forest
3	temperate evergreen forest
4	temperate deciduous forest
5	boreal forest
6	woodland and shrubland
7	savanna
8	temperate grassland
9	tundra and alpine
10	desert and semi-desert scrub
11	extreme desert, rock, sand and ice
12	cultivated land
13	swamp and marsh
14	lake and stream
15	open ocean
16	upwelling zones
17	continental shelf
18	algal beds and reefs
19	estuaries

quatdb.timeslot

SLOTID SLOTDESC

LG	Last glaciation
LM	Last glacial maximum
LI	Last interglacial
PI	Penultimate interglacial
PG	Penultimate glacial
LH	Late Holocene
MH	Mid Holocene
EH	Early Holocene
H	Holocene
LLP	Late Late Pleistocene
MLP	Mid Late Pleistocene
ELP	Early Late Pleistocene
MP	Mid Pleistocene
EP	Early Pleistocene
P	Pleistocene
RL	Beyond radiocarbon limit
I2	Isotopic stage 2
I3	Isotopic stage 3
I4	Isotopic stage 4
I5	Isotopic stage 5
I5a	Isotopic stage 5a
I5b	Isotopic stage 5b
I5c	Isotopic stage 5c
I5d	Isotopic stage 5d
I5e	Isotopic stage 5e
I6	Isotopic stage 6
I7	Isotopic stage 7
I8	Isotopic stage 8
I9	Isotopic stage 9
I10	Isotopic stage 10
I11	Isotopic stage 11
I12	Isotopic stage 12
1	last 100 yrs (instrumental records)
2	last 2000 yrs
3	2000-10000 yrs
4	10000-16000 yrs
5	16000-21000 yrs
6	Isotope Stage 3 (21000-60000)
7	Isotope Stage 4 (60000-74000)
8	Isotope Stage 5 (74000-130000)
9	Isotope Stage 6 (130000-190000)
10	Isotope Stage 7 (190000-244000)
LP	Late Pleistocene
I1	Isotopic stage 1
PO	Pliocene

quatdb.lithol

LITHID LITHDESC

all	alluvial sediments
coll	colluvial sediments
org	organic sediments
bio	biogenic sediments
aeol	aeolian sediments
lac	lacustrine sediments

quatdb.conctype
CTID CTDESC

cac	atmospheric circulation
ccc	cloud cover
ccm	clear mornings
cct	climate type
ccw	climate (winter)
cea	evaporation mean annual
cer	evaporation rate
cew	evaporation winter
cff	fog frequency
cg	gradient
ch	humidity
cmf	monsoon frequency (incursion frequency)
cp/e	precipitation over evaporation
cp1	precipitation mean (Jan)
cp10	precipitation mean (Oct)
cp11	precipitation mean (Nov)
cp12	precipitation mean (Dec)
cp2	precipitation mean (Feb)
cp3	precipitation mean (Mar)
cp4	precipitation mean (Apr)
cp5	precipitation mean (May)
cp6	precipitation mean (Jun)
cp7	precipitation mean (Jul)
cp8	precipitation mean (Aug)
cp9	precipitation mean (Sep)
cpa	precipitation mean annual
cpe	precipitation effectiveness
cps	precipitation summer
cpse	precipitation seasonality
cpsf	precipitation snow fall
cpt	precipitation type
cpv	precipitation variability
cpw	precipitation winter
cro	run-off
csc	snow cover
csf	storm frequency (thunderstorm)
cs1	snowline (undefined)
cs1c	snowline climatic
cs1o	snowline orographic
ct11	temperature land-surface mean (Jan)
ct110	temperature land-surface mean (Oct)
ct111	temperature land-surface mean (Nov)
ct112	temperature land-surface mean (Dec)
ct12	temperature land-surface mean (Feb)
ct13	temperature land-surface mean (Mar)
ct14	temperature land-surface mean (Apr)
ct15	temperature land-surface mean (May)
ct16	temperature land-surface mean (Jun)
ct17	temperature land-surface mean (Jul)
ct18	temperature land-surface mean (Aug)
ct19	temperature land-surface mean (Sep)
ct1a	temperature land-surface mean annual
ct1h	temperature land-surface mean(hottest month)
ct1r	temperature land-surface mean range
ct1s	temperature land-surface mean (summer)
ct1w	temperature land-surface mean (winter)
ctsa	temperature sea-surface mean annual
ctss	temperature sea-surface mean (summer)

ctsv	temperature sea-surface variability (seasonality)
ctsw	temperature sea-surface mean winter
ctwa	temperature water mean annual
ctwv	temperature water variability (seasonality)
cwba	water balance mean annual (qual)
cwbs	water balance mean seasonal (qual)
cwpd	wind palaeodirections
cws	wind strength
cww	wind windiness
data	to be put in data tables
ecp	chemical process
egcp	chemical process
egde	depositional environment
egdr	deposition/sedimentation rate
egf	fire
eggp	geomorphic process
egia	ice area
egic	ice cover
egil	ice level (altitude)
egip	ice type present
egit	ice thickness
egiv	ice volume
eglp	landform present (forming)
egsc	snow cover
ela	lake area/size
elc	lake chemistry
elll	lake level
elmg	lake magnesium level
elsl	lake salinity
elsr	lake strontium level
elst	lake stratification
elwe	lake wave energy
eob	ocean body
eoc	ocean convergence
eoctr	ocean current
eod	ocean divergence
eoie	sea ice extent
eosc	surface conditions
eosl	sea level
eowe	ocean wave energy
epdo	dissolved oxygen level
epfd	fluvial discharge
epff	flood frequency
epfs	fluvial sediment discharge/load
epgl	groundwater level (watertable)
epgs	groundwater salinity
ephp	epp (hydrology present)
epp	hydrology present
epp*	requires update
epph	pH level
eps	non-lake salinity
epwl	water table level (probably equivalent of egl)
ewmg	water magnesium level
ewsr	water strontium level
fbp	fauna/flora biological process
ffd	fauna diversity
ffde	fauna species descriptions (environs, evol.)
ffds	fauna dominant species
fflt	fauna local assemblage type

CTID	CTDESC
ffrt	fauna regional assemblage type
ffs	fauna species present
fha	human activity
fhp	human presence
fvac	vegetation assemblage component
fvar	vegetation altitudinal range
fvc	vegetation cover
fvd	vegetation density
fvde	flora species description (environs, evol)
fvlf	flora local forest type
fvlp	flora local significant plants
fvlv	flora local vegetation
fvr	flora regional forest type
fvrp	flora regional significant plants
fvr	flora regional vegetation
fvt	vegetation treeline

quatdb.veget

VEGID	VEGDESC
S2G	Tall shrubland with tussock grasses
S2F	Tall shrubland with other herbaceous plants
S1Z	Tall open shrubland with low shrubs
S1H	Tall open shrubland with hummock grasses
S1G	Tall open shrubland with tussock grasses
Z4	Closed heath
Z3	Open heath
Z3G	Open heath with tussock grasses
Z2G	Low shrubland with tussock grasses and graminoids
Z2F	Low shrubland with other herbaceous plants
Z2	Low shrubland with no significant lower stratum
Z1H	Low open shrubland with hummock grasses
Z1G	Low open shrubland with tussock grasses
Z1F	Low open shrubland with other herbaceous plants
Z1	Low open shrubland with no significant lower stratum
H2	Hummock grassland
G4	Closed tussock grassland or sedgeland
G3	Tussock grassland or sedgeland
G2	Open tussock grassland
G1	Sparse open tussock grassland
F1	Sparse open herbfield
NIL	No significant vegetation
T4	Tall closed forest
T3M	Tall open forest with medium trees
T3L	Tall open forest with low trees
T3S	Tall open forest with tall shrubs
M4	Closed forest
M3L	Open forest with low trees
M3S	Open forest with tall shrubs
M3Z	Open forest with low shrubs
M3G	Open forest with tussock grasses and graminoids
M3	Open forest with no significant lower stratum
M2L	Woodland with low trees
M2S	Woodland with tall shrubs
M2Z	Woodland with low shrubs
M2H	Woodland with hummock grasses

M2G	Woodland with tussock grasses
M1L	Open woodland with low trees
M1S	Open woodland with tall shrubs
M1H	Open woodland with hummock grasses
M1G	Open woodland with tussock grasses
L4	Low closed forest
L3S	Low open forest with tall shrubs
L3Z	Low open forest with low shrubs
L3G	Low open forest with tussock grasses
L3	Low open forest with no significant lower stratum
L2S	Low woodland with tall shrubs
L2Z	Low woodland with low shrubs
L2H	Low woodland with hummock grasses
L2G	Low woodland with tussock grasses
L2	Low woodland with no significant lower stratum
L1S	Low open woodland with tall shrubs
L1Z	Low open woodland with low shrubs
L1H	Low open woodland with hummock grasses
L1G	Low open woodland with tussock grasses
L1F	Low open woodland with other herbaceous plants
L1	Low open woodland with no significant lower stratum
S3Z	Open scrub with low shrubs
S3H	Open scrub with hummock grasses
S3G	Open scrub with tussock grasses or graminoids
S2Z	Tall shrubland with low shrubs
S2H	Tall shrubland with hummock grasses
MIX	Mix of several categories

quatdb.fauna

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT
381	Accipitridae	BI	V
205	Acrobates pygmaeus	MA	V
353	Acropora	CO	I
352	Acropora splendida	CO	I
1	Actinocythereis scutigera	OS	M
200	Aepyprymnus rufescens	MA	V
510	Agatha simplex	MO	I
502	Alaba fragilis	MO	I
2	Ammonia beccarii	FO	M
273	Amphibolurus	RE	V
3	Anadara trapezia	MO	I
438	Anas castanea	BI	V
329	Anas gracilipes	BI	V
437	Anas superciliosa	BI	V
380	Anatidae	BI	V
426	Angasella	MO	I
333	Anhinga	BI	V
315	Anhinga novaehollandiae	BI	V
277	Anseranas	BI	V
435	Anseranas semipalmata	BI	V
260	Antechinus	MA	V
176	Antechinus flavipes	MA	V
303	Antechinus minimus	MA	V
204	Antechinus stuartii	MA	V
4	Antechinus swainsonii	MA	V

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT
		FAUNCAT	
5	Antetrichomya problematica	MO	I
373	Anura	AM	V
331	Archaeocynus lacustris	BI	V
378	Ardeidae	BI	V
7	Australocypris	OS	M
6	Australocypris robusta	OS	M
8	Austrocochlea concamerata	MO	I
9	Austrocochlea odontis	MO	I
471	Austrocsuccininea	MO	I
374	Aves	BI	V
10	Bairdia	OS	M
11	Bedevea hanleyi	MO	I
12	Bembicium melanostoma	MO	I
288	Bettongia	MA	V
206	Bettongia gaimardi	MA	V
233	Bettongia lesueur	MA	V
175	Bettongia penicillata	MA	V
13	Bicornucythere	OS	M
396	Bivalvia	MO	I
339	Biziura exhumata	BI	V
491	Blastomussa wellsii	CO	I
116	Bohra paulae	MA	V
419	Bothriembryon consors	MO	I
422	Bothriembryon costulatus	MO	I
423	Bothriembryon douglasi	MO	I
424	Bothriembryon gardneri	MO	I
421	Bothriembryon onslowi	MO	I
420	Bothriembryon ridei	MO	I
472	Brachiodontes rostratus	MO	I
519	Bulimina aculeata	FO	M
520	Bulimina rostrata	FO	M
521	Bulimina striata	FO	M
473	Bulinus	MO	I
449	Burhinus magnirostris	BI	V
14	Burramys	MA	V
144	Callanaitis disjecta	MO	I
15	Callistocythere dorsotuberculata	OS	M
589	Candeina nitida	FO	M
125	Candona tecta	OS	M
120	Candonocypris	OS	M
121	Candonocypris incosta	OS	M
122	Candonocypris novaezelandiae	OS	M
119	Candonopsis tenuis	OS	M
177	Canis familiaris	MA	V
522	Cassidulina laevigata	FO	M
366	Catalaphyllia plicata	CO	I
474	Cellana	MO	I
157	Cellana tramoserica	MO	I
523	Ceratobulimina pacifica	FO	M
178	Cercartetus concinnus	MA	V
465	Cercartetus lepidus	MA	V
207	Cercartetus nanus	MA	V
493	Chama ruderalis	MO	I
406	Chamma	MO	I
475	Charopa	MO	I
388	Chelidae	RE	V
272	Chelodina longicollis	RE	V X

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT
		FAUNCAT	
340	Chenopsis nanus	BI	V
518	Cibicides wuellerstorfi		
524	Cibicidoides spp.	FO	M
525	Cibicidoides wuellerstorfi	FO	M
459	Cinclorhamphus cruralis	BI	V
16	Circe sulcata	MO	I
476	Clanculus	MO	I
292	Conilurus	MA	V
208	Conilurus albipes	MA	V
17	Corbula scaphoides	MO	I
376	Corvidae	BI	V
464	Corvus	BI	V
442	Coturnix pectoralis	BI	V
18	Coxiella	MO	I
19	Cribrononion	FO	M
389	Crocodylidae	RE	V
114	Crocodylus porosus	RE	V
517	Cycladophora davisiana	RA	M P
276	Cygnus	BI	V
341	Cygnus atratus	BI	V
363	Cyphastrea serailia	CO	I
149	Cypraea depressa	MO	I
126	Cypretta viridis	OS	M
20	Cyprideis australiensis	OS	M
21	Cyprideis torosa	OS	M
22	Cythereis papuensis	OS	M
23	Cytherella	OS	M
123	Darwinula	OS	M
249	Dasyercus blythi	MA	V
202	Dasyurops maculatus	MA	V
201	Dasyurus	MA	V
179	Dasyurus geoffroii	MA	V
466	Dasyurus maculatus	MA	V
229	Dasyurus quoll	MA	V
24	Dasyurus viverrinus	MA	V
430	Decapoda	CR	I
25	Diacypis spinosa	OS	M
26	Diacypis whitei	OS	M
171	Dicathais textilis	MO	I
27	Diprotodon	MA	V X
346	Diprotodon minor	MA	V
268	Diprotodon optatum	MA	V X
477	Donacilla	MO	I
156	Dosinia	MO	I
497	Dosinia sculpta	MO	I
338	Dromaius	BI	V
274	Dromaius novaehollandiae	BI	V
313	Dromornis australis	BI	V X
413	Dromornithidae	BI	V X
395	Echinodermata	EC	I
478	Egernia whitii	RE	V
526	Eggerella bradyi	FO	M
527	Eggerella scabra	FO	M
528	Ehrenbergia trigona	FO	M
503	Elachorbis tatei	MO	I
479	Elapidae	RE	V
28	Electroma georgiana	MO	I

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT	FAUNCAT
401	Elphidium	FO	M	
30	Elphidium advenum	FO	M	
29	Elphidium macellum	FO	M	
529	Epistominella exigua	FO	M	
504	Epitonium imperiale	MO	I	
148	Eumarcia fumigata	MO	I	
323	Euryzygoma	MA	V	X
31	Falco	BI	V	
441	Falco berigora	BI	V	
151	Fasciolaria australasia	MO	I	
359	Favia pallida	CO	I	
360	Favites abdita	CO	I	
166	Flavomala biradiata	MO	I	
155	Floraconus anemone	MO	I	
417	Foraminifera	FO	M	
399	Fulvia tenuicostata	MO	I	
356	Fungia actiniformis	CO	I	
355	Fungia fungites	CO	I	
409	Gabiarca pellita	MO	I	
450	Gallinago hardwickii	BI	V	
447	Gallinula mortierii	BI	V	
448	Gallinula ventralis	BI	V	
398	Gastropoda	MO	I	
342	Genyornis	BI	V	X
336	Genyornis newtoni	BI	V	X
265	Geocrinia laevis	AM	V	
153	Globigerina bulloides	FO	M	
569	Globigerina calida	FO	M	
576	Globigerina conglomerata	FO	M	
571	Globigerina digitata	FO	M	
575	Globigerina dutertrei	FO	M	
570	Globigerina falconensis	FO	M	
590	Globigerina glutinata	FO	M	
143	Globigerina pachyderma	FO	M	
574	Globigerina quinqueloba	FO	M	
572	Globigerina rubescens	FO	M	
568	Globigerinella aequilateralis	FO	M	
592	Globigerinella siphonifera	FO	M	
414	Globigerinidae	FO	M	
597	Globigerinita glutinata	FO	M	
598	Globigerinita iota	FO	M	
599	Globigerinita uvula	FO	M	
145	Globigerinoides conglobatus	FO	M	
152	Globigerinoides ruber	FO	M	
607	Globigerinoides ruber (pink)	FO	M	
565	Globigerinoides sacculifer	FO	M	
564	Globigerinoides tenellus	FO	M	
530	Globocassidulina subglobosa	FO	M	
566	Globoquadrina dehiscens	FO	M	
147	Globoquadrina dutertrei	FO	M	
173	Globoquadrina quadrilobatus sacculifer	FO	M	
602	Globorotalia anfracta	FO	M	
603	Globorotalia cavernula	FO	M	
582	Globorotalia crassaformis	FO	M	
604	Globorotalia crotonensis	FO	M	
109	Globorotalia cultrata	FO	M	

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT	FAUNCAT
584	Globorotalia hirsuta	FO	M	
573	Globorotalia humilis	FO	M	
193	Globorotalia inflata	FO	M	
586	Globorotalia menardii	FO	M	
588	Globorotalia menardii flexuosa	FO	M	
585	Globorotalia scitula	FO	M	
600	Globorotalia truncatulinoides	FO	M	
580	Globorotalia truncatulinoides (left coiling)	FO	M	
581	Globorotalia truncatulinoides (right coiling)	FO	M	
132	Globorotalia tumida	FO	M	
601	Globorotalia unguata	FO	M	
577	Globorotaloides hexagona	FO	M	
593	Globoturborotalita rubescens	FO	M	
594	Globoturborotalita tenella	FO	M	
159	Glycymeris	MO	I	
158	Glycymeris pseudaustralis	MO	I	
32	Gomphodella maia	OS	M	
357	Goniopora lobata	CO	I	
460	Grallina cyanoleuca	BI	V	
480	Gryraulus	MO	I	
33	Gymnobelideus	MA	V	
461	Gymnorhina tibicen	BI	V	
226	Gyomys novaehollandiae	MA	V	
531	Gyroidinoides orbicularis	FO	M	
532	Gyroidinoides soldanii	FO	M	
567	Hastigerina adamsi	FO	M	
595	Hastigerinella pelagica	FO	M	
34	Herpetopoma aspersa	MO	I	
499	Hiattella australis	MO	I	
440	Hieracetus morphnoides	BI	V	
35	Hiltermannicythere bassionii	OS	M	
279	Hirundo neoxena	BI	V	
456	Hirundo tahitica	BI	V	
533	Hoeglundina elegans	FO	M	
192	Homo sapiens	MA	V	
361	Hydnophora exesa	CO	I	
382	Hydromys	MA	V	
118	Hydromys chrysogaster	MA	V	
36	Ilyocypris	OS	M	
37	Ilyocypris australiensis	OS	M	
127	Ilyodromus multifarius	OS	M	
38	Ilyodromus smaragdinus	OS	M	
39	Ilyodromus viridulus	OS	M	
556	Indet miliolids	FO	M	
557	Indet rotalids	FO	M	
558	Indet textularids	FO	M	
500	Irus irus	MO	I	
234	Isodon	MA	V	
181	Isodon obesulus	MA	V	
534	Karrerotextularia flintii	FO	M	
535	Karrerotextularia lateralis	FO	M	
536	Karrerotextularia spp.	FO	M	
40	Katelsia	MO	I	
412	Katelsia peronii	MO	I	
160	Katelsia rhytiphora	MO	I	

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT	FAUNCAT
402	Katelysia scalarina	MO	I	
494	Laevicardium apertum	MO	I	
495	Laevicardium tenuicostatum	MO	I	
555	Lagenina	FO	M	
41	Lagorchestes	MA	V	
141	Lagorchestes conspicuillatus	MA	V	
138	Lagorchestes hirsutus	MA	V	
209	Lagorchestes leporides	MA	V	
137	Lagostrophus fasciatus	MA	V	
451	Larus novaehollandiae	BI	V	
284	Lasiornis latifrons	MA	V	
455	Lathamus discolor	BI	V	
537	Laticarinina pauperata	FO	M	
258	Leporillus	MA	V	
128	Leptocythere lacustris	OS	M	
330	Leucocarbo fuscescens	BI	V	
513	Liloea brevis	MO	I	
129	Limnocythere	OS	M	
42	Limnocythere dorsosicula	OS	M	
130	Limnocythere mowbrayensis	OS	M	
267	Limnodynastes tasmaniensis	AM	V	
161	Limopsis werrikooensis	MO	I	
538	Linaresia semicribata	FO	M	
269	Litoria ewingi	AM	V	
364	Lobophyllia corymbosa	CO	I	
44	Loxoconcha	OS	M	
43	Loxoconcha australis	OS	M	
429	Macquaria ambigua	FI	V	
230	Macroderma gigas	MA	V	
385	Macropodidae	MA	V	
289	Macropus	MA	V	
343	Macropus agilis siva	MA	V	
238	Macropus cangaru	MA	V	
47	Macropus eugenii	MA	V	
180	Macropus fuliginosus	MA	V	
302	Macropus giganteus	MA	V	X
48	Macropus greyi	MA	V	
237	Macropus magister	MA	V	X
344	Macropus rama	MA	V	
140	Macropus robustus isabellinus	MA	V	
45	Macropus rufogriseus	MA	V	
46	Macropus titan	MA	V	X
247	Macrotrichus lagotis	MA	V	
162	Mactra australis	MO	I	
163	Mactra pura	MO	I	
439	Malacorhynchus membranaceus	BI	V	
370	Mammalia	MA	V	
111	Marginopora vertebralis	FO	M	
49	Mastacomys fuscus	MA	V	
50	McKencythere venata	OS	M	
113	Megalanina prisca	RE	V	X
467	Megaleia rufa	MA	V	
458	Meliphagidae	BI	V	
51	Melomys cervinipes	MA	V	
539	Melonis barleeianum	FO	M	
540	Melonis pompillioides	FO	M	
52	Meropesta nicobarica	MO	I	

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT	FAUNCAT
53	Mesocypris	OS	M	
54	Mimachlamys asperimus	MO	I	
266	Miniopterus schreibersi	MA	V	
372	Mollusca	MO	I	
505	Monilea callifera	MO	I	
55	Monilea lentiginosa	MO	I	
354	Montipora	CO	I	
410	Musculus nanulus	MO	V	
365	Mycedium elephantosus	CO	I	
57	Mytilocypris	OS	M	
112	Mytilocypris mytiloides	OS	M	
56	Mytilocypris praenuncia	OS	M	
58	Mytilocypris splendida	OS	M	
59	Mytilus planulatus	MO	I	
583	N. pachyderma - G. dutertrei 'intergrades'	FO	M	
172	Nacella delesserti	MO	I	
60	Nassarius dorsatus	MO	I	
61	Nassarius jonasi	MO	I	
507	Nassarius pauperatus	MO	I	
508	Nassarius pyrrhus	MO	I	
506	Nassarius rufus	MO	I	
115	Neobatrachus pictus	AM	V	
411	Neoceratodus	FI	V	
307	Neoceratodus eyerensis	FI	V	
308	Neoceratodus gregoryi	FI	V	
606	Neogloboquadrina dutertrei	FO	M	
605	Neogloboquadrina pachyderma	FO	M	
559	Neogloboquadrina pachyderma (left coiling)	FO	M	
560	Neogloboquadrina pachyderma (right coiling)	FO	M	
133	Neophoca cinerea	MA	V	
150	Nerita polita	MO	I	
164	Ninella torquata	MO	I	
62	Niotha pyrrhus	MO	I	
63	Notocallista	MO	I	
255	Notomys	MA	V	
64	Notospisula	MO	I	
320	Nototherium	MA	V	X
321	Nototherium inerme	MA	V	X
235	Nototherium mitchelli	MA	V	X
259	Nyctinomus australis	MA	V	
293	Nyctophilus geoffroyi	MA	V	
509	Obolus	MO	I	
453	Ocyropsis lophotes	BI	V	
211	Onychogalea fraenata	MA	V	
345	Onychogalea lunata	MA	V	
210	Onychogalea unguifer	MA	V	
561	Orbulina universa	FO	M	
541	Oridorsalis tener	FO	M	
415	Ornithorhynchus anatinus	MA	V	
542	Osangularia culter	FO	M	
400	Ostracoda	OS	M	
65	Ostrea angasi	MO	I	
165	Ostrea sinuata	MO	I	
432	Pachyptila salvini	BI	V	

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT	FAUNCAT
377	Palaeolodidae	BI	V	X
245	Palorchestes	MA	V	X
498	Paphia crassiuscula	MO	I	
66	Paracytheroma caudata	OS	M	
146	Paradione kingii	MO	I	
481	Paralaoma	MO	I	
482	Paralaoma morti	MO	I	
270	Parameles	MA	V	
250	Parantechinus apicalis	MA	V	X
68	Parcanassa pauperita	MO	I	
431	Passeriformes	BI	V	
69	Pecten fumatus	MO	I	
492	Pecten modestus	MO	I	
319	Pelecanus conspicillatus	BI	V	
67	Perameles	MA	V	
304	Perameles bougainville	MA	V	
212	Perameles gunnii	MA	V	
213	Perameles nasuta	MA	V	
216	Petaurus breviceps	MA	V	
215	Petaurus norfolcensis	MA	V	
457	Petrochelidon nigricans	BI	V	
142	Petrogale lateralis	MA	V	
214	Petrogale penicillata	MA	V	
134	Petrogale penicillata hackettii	MA	V	
454	Pezoporus wallicus	BI	V	
316	Phalacrocorax	BI	V	
317	Phalacrocorax gregorii	BI	V	
318	Phalacrocorax vetustus	BI	V	
285	Phascogale	MA	V	
248	Phascogale calura	MA	V	
191	Phascogale tapaotafa	MA	V	
306	Phascogale tapoatafa	MA	V	
311	Phascolarctos	MA	V	
70	Phascolarctos cinereus	MA	V	
154	Phascolomys hacketti	MA	V	X
228	Phascolomys mitchellii	MA	V	
174	Phascolomys parvus	MA	V	X
310	Phascolonus gigas	MA	V	
71	Phlyctenophora zealandica	OS	M	
501	Pholos australasiae	MO	I	
483	Physastra	MO	I	
407	Pinna incurva	MO	I	
371	Pisces	FI	V	
72	Placamen calophylla	MO	I	
167	Placamen subroborata	MO	I	
73	Planorbulina mediterraneensis	FO	M	
74	Platycypris baueri	OS	M	
362	Platygyra lamellina	CO	I	
397	Plecatrema	MO	I	
425	Plectorhagada	MO	I	
351	Pocillopora damicornis	CO	I	
337	Podiceps	BI	V	
379	Podicipedidae	BI	V	
75	Polinices aulacoglossa	MO	I	
76	Polinices conicus	MO	I	
77	Polinices sordidus	MO	I	
199	Polysphaeridium zoharyi	DF	M	

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT	FAUNCAT
358	Porites lobata	CO	I	
446	Porzana fluminea	BI	V	
484	Potamopyrgus	MO	I	
383	Potoroidae	MA	V	
301	Potorous apicalis	MA	V	
243	Potorous gilberti	MA	V	X
253	Potorous platyops	MA	V	X
182	Potorous tridactylus	MA	V	
393	Procoptodon	MA	V	
334	Procoptodon goliah	MA	V	
290	Procoptodon rapha	MA	V	X
275	Progura naracoortensis	BI	V	X
287	Propleopus oscillans	MA	V	X
78	Protemnodon	MA	V	X
254	Protemnodon anak	MA	V	X
217	Protemnodon bicolor	MA	V	
324	Protemnodon brehus	MA	V	X
135	Protemnodon eugenii	MA	V	
219	Protemnodon greyi	MA	V	
241	Protemnodon irma	MA	V	
291	Protemnodon roechus	MA	V	X
218	Protemnodon rufogrisea	MA	V	
79	Prothalotia comtessi	MO	I	
194	Protoperidinium leonis	DF	M	
170	Pseudarcopagia victoriae	MO	I	
80	Pseudocheirus peregrinus	MA	V	
242	Pseudochirus occidentalis	MA	V	
124	Pseudomys	MA	V	
183	Pseudomys albocinereus	MA	V	
220	Pseudomys auritus	MA	V	
468	Pseudomys australis	MA	V	
81	Pseudomys higginsii	MA	V	
257	Pseudomys nanus	MA	V	
256	Pseudomys occidentalis	MA	V	
82	Pseudomys oralis	MA	V	
185	Pseudomys praeconis	MA	V	
184	Pseudomys shortridgei	MA	V	
282	Pseudonaja	RE	V	
416	Pteropoda	MO	I	
83	Pterygocythereis	OS	M	
433	Puffinus	BI	V	
84	Pullastra	MO	I	
543	Pullenia bulloides	FO	M	
544	Pullenia spp.	FO	M	
578	Pulleniatina obliquiloculata	FO	M	
485	Pupiphryx	MO	I	
85	Pyrazus ebeninus	MO	I	
545	Pyrgo depressa	FO	M	
546	Pyrgo murrhina	FO	M	
547	Pyrgo spp.	FO	M	
548	Quinqueloculina spp.	FO	M	
375	Radiolaria	RA	M	
470	Rallus pectoralis	BI	V	
445	Rallus philippensis	BI	V	
271	Ranidella signifera	AM	V	
231	Rattus	MA	V	
86	Rattus fuscipes	MA	V	

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT
		FAUNCAT	
469	<i>Rattus fuscipes greyi</i>	MA	V
222	<i>Rattus greyii</i>	MA	V
87	<i>Rattus lutreolus</i>	MA	V
186	<i>Rattus tunneyi</i>	MA	V
387	<i>Reptilia</i>	RE	V
418	<i>Reticypriis</i>	OS	M
88	<i>Reticypriis pinguis</i>	OS	M
89	<i>Reticypriis walbu</i>	OS	M
514	<i>Retusa</i>	MO	I
515	<i>Retusa pygmaea</i>	MO	I
427	<i>Rhagada torulus</i>	MO	I
549	<i>Robertinoides translucens</i>	FO	M
386	<i>Rodentia</i>	MA	V
90	<i>Saccostrea commercialis</i>	MO	I
91	<i>Sangiunolaria biradiata</i>	MO	I
92	<i>Sarcophilus</i>	MA	V
203	<i>Sarcophilus harrisi</i>	MA	V
187	<i>Sarcophilus harrisi</i>	MA	V
309	<i>Sarcophilus lanarius</i>	MA	V X
221	<i>Sarcophilus lanarius lanarius</i>	MA	V X
131	<i>Sarscypridopsis proxila</i>	OS	M
168	<i>Scaeoleda crassa</i>	MO	I
391	<i>Scincidae</i>	RE	V
169	<i>Scutus antipodes</i>	MO	I
350	<i>Seiatopora hystrix</i>	CO	I
403	<i>Septifer bilocularis</i>	MO	I
394	<i>Seriatopora hystrix</i>	CO	I
136	<i>Setonix brachyurus</i>	MA	V
261	<i>Setonix brachyurus</i>	MA	V
550	<i>Sigmoilopsis schlumbergi</i>	FO	M
298	<i>Simosthenurus brownei</i>	MA	V X
296	<i>Simosthenurus gilli</i>	MA	V X
299	<i>Simosthenurus maddocki</i>	MA	V X
297	<i>Simosthenurus occidentalis</i>	MA	V X
312	<i>Simosthenurus orientalis</i>	MA	V
300	<i>Simosthenurus pales</i>	MA	V X
405	<i>Siphonaria</i>	MO	I
246	<i>Sminthopsis</i>	MA	V
223	<i>Sminthopsis crassicaudata</i>	MA	V
251	<i>Sminthopsis hirtipes</i>	MA	V
224	<i>Sminthopsis leucopus</i>	MA	V
188	<i>Sminthopsis murina</i>	MA	V
551	<i>Sphaeroidinella bulloides</i>	FO	M
596	<i>Sphaeroidinella dehiscens</i>	FO	H
198	<i>Spiniferites ramuliferus</i>	DF	M
196	<i>Spiniferites mirabilis</i>	DF	M
197	<i>Spiniferites ramosus</i>	DF	M
369	<i>Spirobranchus giganteus</i>	AN	I
93	<i>Spiroloculina communis</i>	FO	M
94	<i>Spisula trigonella</i>	MO	I
428	<i>Squamata</i>	RE	V
452	<i>Sterna nereis</i>	BI	V
95	<i>Sthenurus</i>	MA	V X
295	<i>Sthenurus andersoni</i>	MA	V X
294	<i>Sthenurus atlas</i>	MA	V X
96	<i>Sthenurus gilli</i>	MA	V X
240	<i>Sthenurus occidentalis</i>	MA	V X

FAUNNO	FAUNDESC	FAUNTYPE	FAUNSTAT
		FAUNCAT	
335	<i>Sthenurus tindalei</i>	MA	V X
462	<i>Strepera graculina</i>	BI	V
463	<i>Strepera versicolor</i>	BI	V
244	<i>Tachyglossus aculeatus</i>	MA	V
283	<i>Tadarida australis</i>	MA	V
436	<i>Tadorna tadornoides</i>	BI	V
332	<i>Taphaetus lacertosus</i>	BI	V
190	<i>Tarsipes spenceriae</i>	MA	V
496	<i>Tellina</i>	MO	I
97	<i>Tellina deltoidalis</i>	MO	I
408	<i>Tellina victoriae botanica</i>	MO	I
225	<i>Thetomys gracilicaudatus</i>	MA	V
434	<i>Threskiornis molucca</i>	BI	V
227	<i>Thylacinus cynocephalus</i>	MA	V
322	<i>Thylacoleo</i>	MA	V X
236	<i>Thylacoleo carnifex</i>	MA	V X
98	<i>Thylogale billardieri</i>	MA	V
486	<i>Tiliqua nigrolutea</i>	RE	V
280	<i>Tiliqua rugosa</i>	RE	V
487	<i>Trachydosaurus rugosus</i>	RE	V
99	<i>Trichomya hirsuta</i>	MO	I
189	<i>Trichosurus vulpecula</i>	MA	V
110	<i>Tridacna gigas</i>	MO	I
101	<i>Trigonocypris</i>	OS	M
100	<i>Trigonocypris globulosa</i>	OS	M
102	<i>Triloculina</i>	FO	M
326	<i>Troposodon</i>	MA	V
327	<i>Troposodon bowensis</i>	MA	V X
325	<i>Troposodon minor</i>	MA	V X
195	<i>Tuberculodinium vancampoe</i>	DF	M
488	<i>Tucetona flabellatus</i>	MO	I
368	<i>Turbinaria</i>	CO	I
367	<i>Turbinaria danae</i>	CO	I
512	<i>Turbonilla macleayana</i>	MO	I
511	<i>Turbonilla mariae</i>	MO	I
278	<i>Turnix varia</i>	BI	V
443	<i>Turnix varia</i>	BI	V
444	<i>Turnix velox</i>	BI	V
348	<i>Tyto novahollandiae</i>	BI	V
347	<i>Uroatus</i>	BI	V
404	<i>Ustularca cruciata tenuta</i>	MO	I
516	<i>Uvigerina</i>	FO	M
552	<i>Uvigerina hispida</i>	FO	M
553	<i>Uvigerina peregrina</i>	FO	M
554	<i>Uvigerina proboscidea</i>	FO	M
392	<i>Varanidae</i>	RE	V
489	<i>Varanus</i>	RE	V
281	<i>Varanus gouldii</i>	RE	V
103	<i>Velacumantis australis</i>	MO	I
104	<i>Velacumantis</i>	MO	I
490	<i>Velesunio ambiguus</i>	MO	I
105	<i>Vertebralina striata</i>	FO	M
384	<i>Vombatidae</i>	MA	V
106	<i>Vombatus ursinus</i>	MA	V
117	<i>Wallabia bicolor</i>	MA	V
390	<i>Wonambi</i>	RE	V X
328	<i>Wonambi naracoortensis</i>	RE	V X

FAUNNO	FAUNTYPE	FAUNSTAT
FAUNDESC	FAUNCAT	
314 Xenorhynchopsis minor	BI V X	
349 Xenorhynchopsis tibialis	BI V X	
107 Xestoleberis	OS M	
239 Zaglossus hacketti	MA V X	
232 Zaglossus ramsayi	MA V X	
108 Zygomaturus	MA V X	
286 Zygomaturus trilobus	MA V X	

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FLORID	FAMILY	GENSPECIES
ACA	Acanthaceae	
ADI	Adiantaceae	
ADIA1	Adiantaceae	Adiantum
ADIC1	Adiantaceae	Cheilanthes
AGA	Agavaceae	
AGAC1	Agavaceae	Cordyline
AGAD1	Agavaceae	Doryanthes
AIZ	Aizoaceae	
AIZC1	Aizoaceae	Carpobrotus
ALA	Alangiaceae	
ALAA1	Alangiaceae	Alangium
ALI	Alismataceae	
ALIA1	Alismataceae	Alisma
AMA	Amaranthaceae	
AMAP1	Amaranthaceae	Ptilotus
ANA	Anacardiaceae	
ANAB1	Anacardiaceae	Blepharocarya
ANN	Annonaceae	
ANNA1	Annonaceae	Annona
ANT	Anthocerotaceae	
ANTA1	Anthocerotaceae	Anthoceros
API	Apiaceae	
APIA1	Apiaceae	Aciphylla
APIA11	Apiaceae	Aciphylla glacialis
APID1	Apiaceae	Diplaspis
APIH1	Apiaceae	Hydrocotyle
APIO1	Apiaceae	Oenanthe
APIO2	Apiaceae	Oreomyrrhis
APC	Apocynaceae	
APCA1	Apocynaceae	Alyxia
AQF	Aquifoliaceae	
AQFI1	Aquifoliaceae	Ilex
AQFS1	Aquifoliaceae	Sphenostemon
ARA	Araliaceae	
ARAA1	Araliaceae	Astrotricha
ARAP1	Araliaceae	Polyscias
ARAP11	Araliaceae	Polyscias sambucifolia
ARC	Araucariaceae	
ARCA1	Araucariaceae	Agathis
ARCA2	Araucariaceae	Araucaria
ARCA21	Araucariaceae	Araucaria cunninghamii
ARE	Arecaceae	
AREA1	Arecaceae	Archontophoenix
AREC1	Arecaceae	Calamus

FLORID	FAMILY	GENSPECIES
AREN1	Arecaceae	Nypa
AREO1	Arecaceae	Orania
AREO2	Arecaceae	Oraniopsis
ASC	Asclepiadaceae	
ASP	Aspidiaceae	
ASPP1	Aspidiaceae	Polystichum
ASPP11	Aspidiaceae	Polystichum proliferum
ASL	Aspleniaceae	
ASLA1	Aspleniaceae	Asplenium
AST	Asteraceae	
ASTA11	Asteraceae	Actites megalocarpa
ASTC1	Asteraceae	Calomeria
ASTC2	Asteraceae	Cotula
ASTE1	Asteraceae	Erigeron
ASTE11	Asteraceae	Erigeron setosus
ASTE2	Asteraceae	Ewartia
ASTG1	Asteraceae	Gnaphalium
ASTM1	Asteraceae	Microseris
ASTM11	Asteraceae	Microseris scapigera
ASTP1	Asteraceae	Parantennaria
ASTS1	Asteraceae	Sonchus
ASTA11	Asteraceae	Sonchus megalocarpus
ATH	Athyriaceae	
AUS	Austrobaileyaceae	
AZO	Azollaceae	
AZOA1	Azollaceae	Azolla
AZOA11	Azollaceae	Azolla filiculoides
AZOA12	Azollaceae	Azolla pinnata
BAL	Balanopaceae	
BALB1	Balanopaceae	Balanops
BALB11	Balanopaceae	Balanops australiana
BAT	Batidaceae	
BET	Betulaceae	
BIG	Bignoniaceae	
BIX	Bixaceae	
BLC	Blechnaceae	
BLCB1	Blechnaceae	Blechnum
BLCB11	Blechnaceae	Blechnum wattsi
BMB	Bombacaceae	
BMBB1	Bombacaceae	Bombax
BOR	Boraginaceae	
BORE1	Boraginaceae	Echium
BORM1	Boraginaceae	Myosotis
BOT	Botryococcaceae	
BOTB1	Botryococcaceae	Botryococcus
BRB	Brassicaceae	
BRSA1	Brassicaceae	Agianthus
BRSC1	Brassicaceae	Cardamine
BRU	Brunoniaceae	
CAE	Caesalpiniaceae	
CAL	Callitrichaceae	
CAM	Campanulaceae	
CAMW1	Campanulaceae	Wahlenbergia
CAR	Caryophyllaceae	
CARC1	Caryophyllaceae	Colobanthus
CARS1	Caryophyllaceae	Stellaria

FLORID	FAMILY	GENSPECIES
CAS	Casuarinaceae	
CASA1	Casuarinaceae	Allocasuarina
CASA11	Casuarinaceae	Allocasuarina decaisneana
CASA12	Casuarinaceae	Allocasuarina distyla
CASA13	Casuarinaceae	Allocasuarina littoralis
CASA14	Casuarinaceae	Allocasuarina luehmannii
CASA15	Casuarinaceae	Allocasuarina nana
CASA16	Casuarinaceae	Allocasuarina rigida
CASA17	Casuarinaceae	Allocasuarina stricta
CASA18	Casuarinaceae	Allocasuarina torulos
CASC1	Casuarinaceae	Casuarina
CASC11	Casuarinaceae	Casuarina cristata
CASC12	Casuarinaceae	Casuarina cunninghamiana
CASC13	Casuarinaceae	Casuarina decaisneana
CASC14	Casuarinaceae	Casuarina equisetifolia
CASC15	Casuarinaceae	Casuarina glauca
CASC16	Casuarinaceae	Casuarina littoralis
CASC17	Casuarinaceae	Casuarina luehmanni
CASC18	Casuarinaceae	Casuarina nana
CASC19	Casuarinaceae	Casuarina rigida
CASC110	Casuarinaceae	Casuarina stricta
CASC111	Casuarinaceae	Casuarina torulosa
CASG1	Casuarinaceae	Gymnostoma
CEL	Celastraceae	
CELL1	Celastraceae	Lophopetalum
CELL11	Celastraceae	Lophopetalum multinervis
CEN	Centrolepidaceae	
CHA	Characeae	
CHAC1	Characeae	Chara
CHE	Chenopodiaceae	
CLU	Clusiaceae	
CLUC1	Clusiaceae	Calophyllum
CLUG1	Clusiaceae	Garcinia
CLUH1	Clusiaceae	Hypericum
CMB	Combretaceae	
CMBT1	Combretaceae	Terminalia
CNV	Convolvulaceae	
CNVC1	Convolvulaceae	Convolvulus
CNVC11	Convolvulaceae	Convolvulus erubescens
CRU	Cruciferae	
CUC	Cucurbitaceae	
CULC1	Culcitaceae	Culcita
CULC11	Culcitaceae	Culcita dubia
CUN	Cunoniaceae	
CUNA1	Cunoniaceae	Anodopetalum
CUNA11	Cunoniaceae	Anodopetalum biglandulosum
CUNB1	Cunoniaceae	Bauera
CUNB11	Cunoniaceae	Bauera rubioides
CUA	Cupaneae	

FLORID	FAMILY	GENSPECIES
CUP	Cupressaceae	
CUPA1	Cupressaceae	Athrotaxis
CUPA11	Cupressaceae	Athrotaxis cupressoides
CUPA12	Cupressaceae	Athrotaxis selaginoides
CUPC1	Cupressaceae	Callitris
CUPC11	Cupressaceae	Callitris endlicheri
CUPD1	Cupressaceae	Diselma
CUPD11	Cupressaceae	Diselma archeri
CUPP1	Cupressaceae	Papuacedrus
CYA	Cyatheaceae	
CYAC1	Cyatheaceae	Cyathea
CYAC11	Cyatheaceae	Cyathea australis
CYC	Cycadaceae	
CYP	Cyperaceae	
CYPB1	Cyperaceae	Baumea
CYPB11	Cyperaceae	Baumea articulata
CYPC1	Cyperaceae	Carex
CYPC2	Cyperaceae	Caustis
CYPC3	Cyperaceae	Cladium
CYPC4	Cyperaceae	Cyperus
CYPC41	Cyperaceae	Cyperus unioides
CYPE1	Cyperaceae	Eleocharis
CYPG1	Cyperaceae	Gahnia
CYPG11	Cyperaceae	Gahnia sieberiani
CYPG2	Cyperaceae	Gymnoschoenus
CYPG21	Cyperaceae	Gymnoschoenus sphaerocephalus
CYPH1	Cyperaceae	Heleocharis
CYPL1	Cyperaceae	Lepidosperma
CYPM1	Cyperaceae	Machaerina
CYPS1	Cyperaceae	Scirpus
DAV	Davalliaceae	
DAVD1	Davalliaceae	Davallia
DAVD11	Davalliaceae	Davallia tasmanica
DAVN1	Davalliaceae	Nephrolepis
DNN	Dennstaedtiaceae	
DNNH1	Dennstaedtiaceae	Histiopteris
DNNH11	Dennstaedtiaceae	Histiopteris incisa
DNNH2	Dennstaedtiaceae	Hypolepis
DNNH21	Dennstaedtiaceae	Hypolepis muelleri
DNNP1	Dennstaedtiaceae	Pteridium
DNNP11	Dennstaedtiaceae	Pteridium esculentu
DES	Desmidiaceae	
DESC1	Desmidiaceae	Cosmarium
DESP1	Desmidiaceae	Pleurotanium
DCK	Dicksoniaceae	
DCKD1	Dicksoniaceae	Dicksonia
DCKD11	Dicksoniaceae	Dicksonia antarctica
DIL	Dilleniaceae	
DILD1	Dilleniaceae	Dillenia
DILH1	Dilleniaceae	Hibbertia
DILT1	Dilleniaceae	Tetracera
DON	Donatiaceae	
DOND1	Donatiaceae	Donatia
DOND11	Donatiaceae	Donatia novae- zelandiae

FLORID	FAMILY	GENSPECIES
DRO	Droseraceae	
DROD1	Droseraceae	Drosera
ELA	Elaeocarpaceae	
ELAE1	Elaeocarpaceae	Elaeocarpus
ELAS1	Elaeocarpaceae	Sloanea
EPA	Epacridaceae	
EPAC1	Epacridaceae	Cyathodes
EPAE1	Epacridaceae	Epacris
EPAL1	Epacridaceae	Leucopogon
EPAM1	Epacridaceae	Monotoca
EPAR1	Epacridaceae	Richea
EPAR11	Epacridaceae	Richea scoparia
EPAS1	Epacridaceae	Sprengelia
EPAS11	Epacridaceae	Sprengelia incarnata
EPAS2	Epacridaceae	Styphelia
EPAS21	Epacridaceae	Styphelia suaveolens
EPH	Ephedraceae	
ERI	Ericaceae	
ERO	Eriocaulaceae	
EROE1	Eriocaulaceae	Eriocaulon
ESC	Escalloniaceae	
ESCA1	Escalloniaceae	Anopterus
ESCA11	Escalloniaceae	Anopterus glandulosus
EUC	Eucryphiaceae	
EUCE1	Eucryphiaceae	Eucryphia
EUCE11	Eucryphiaceae	Eucryphia lucida
EUCE12	Eucryphiaceae	Eucryphia milliganii
EUP	Euphorbiaceae	
EUPA1	Euphorbiaceae	Alchornea
EUPA2	Euphorbiaceae	Amperea
EUPA21	Euphorbiaceae	Amperea xiphoclada
EUPA3	Euphorbiaceae	Austrobuxos
EUPA31	Euphorbiaceae	Austrobuxos swainii
EUPB1	Euphorbiaceae	Bertya
EUPB2	Euphorbiaceae	Beyeria
EUPB21	Euphorbiaceae	Beyeria lasiocarpa
EUPB22	Euphorbiaceae	Beyeria viscosa
EUPB3	Euphorbiaceae	Breynia
EUPD1	Euphorbiaceae	Dissiliaria
EUPD2	Euphorbiaceae	Drypetes
EUPE1	Euphorbiaceae	Euphorbia
EUPE2	Euphorbiaceae	Excoecaria
EUPG1	Euphorbiaceae	Glochidion
EUPL1	Euphorbiaceae	Longetia
EUPM1	Euphorbiaceae	Macaranga
EUPM11	Euphorbiaceae	Macaranga tanarius
EUPM2	Euphorbiaceae	Mallotus
EUPM3	Euphorbiaceae	Micrantheum
EUPO1	Euphorbiaceae	Omalanthus
EUPP1	Euphorbiaceae	Petalostigma
EUPP2	Euphorbiaceae	Pseudanthus
FAB	Fabaceae	
FABA1	Fabaceae	Aotus
FABA11	Fabaceae	Aotus ericoides
FABB1	Fabaceae	Bossiaea
FABD1	Fabaceae	Daviesia
FABD2	Fabaceae	Dillwynia

FLORID	FAMILY	GENSPECIES
FABH1	Fabaceae	Hovea
FABL1	Fabaceae	Lonchocarpus
FABO1	Fabaceae	Oxylobium
FABP1	Fabaceae	Phyllota
FABP11	Fabaceae	Phyllota phyllicoides
FABP2	Fabaceae	Pultenaea
FABS1	Fabaceae	Sesbania
FABS11	Fabaceae	Sesbania formosa
FABT1	Fabaceae	Trifolium
FAG	Fagaceae	
FAGC1	Fagaceae	Castanopsis
FAGL1	Fagaceae	Lithocarpus
FAGN1	Fagaceae	Nothofagus
FAGN11	Fagaceae	Nothofagus brassii
FAGN12	Fagaceae	Nothofagus cunninghamii
FAGN13	Fagaceae	Nothofagus fusca
FAGN14	Fagaceae	Nothofagus gunnii
FAGN15	Fagaceae	Nothofagus menziesii
FAGN16	Fagaceae	Nothofagus moorei
FLA	Flagellariaceae	
FLAF1	Flagellariaceae	Flagellaria
FRA	Frankeniaceae	
GEN	Gentianaceae	
GENG1	Gentianaceae	Gentiana
GENG2	Gentianaceae	Gentianella
GENG21	Gentianaceae	Gentianella diemensis
GER	Geraniaceae	
GERG1	Geraniaceae	Geranium
GERP1	Geraniaceae	Pelargonium
GLE	Gleicheniaceae	
GLEG1	Gleicheniaceae	Gleichenia
GLEG11	Gleicheniaceae	Gleichenia dicarpa
GOO	Goodeniaceae	
GOOS1	Goodeniaceae	Scaevola
GRA	Gramineae	
GMM	Grammitaceae	
GMMG1	Grammitaceae	Grammitis
GMMG11	Grammitaceae	Grammitis billardieri
GRO	Grossulariaceae	
GROA1	Grossulariaceae	Anopterus
GROA11	Grossulariaceae	Anopterus glandulosus
GROA2	Grossulariaceae	Argophyllum
GROQ1	Grossulariaceae	Quintinia
GROQ11	Grossulariaceae	Quintinia psilatispora
GROT1	Grossulariaceae	Tetracarpaea
GUN	Gunneraceae	
GUNG1	Gunneraceae	Gunnera
GUT	Guttiferae	
GYR	Gyrostemonaceae	
HAL	Haloragaceae	
HALG1	Haloragaceae	Gonocarpus
HALH1	Haloragaceae	Haloragis
HALM1	Haloragaceae	Myriophyllum
HALM11	Haloragaceae	Myriophyllum integrifolium
HALM12	Haloragaceae	Myriophyllum

FLORID	FAMILY	GENSPECIES
HALM13	Haloragaceae	muelleri Myriophyllum verrucosum
HYC	Hydrocharitaceae	
HYCO1	Hydrocharitaceae	Ottelia
HYD	Hydrodictyaceae	
HYDP1	Hydrodictyaceae	Pediastrum
HYM	Hymenophyllaceae	
HYMH1	Hymenophyllaceae	Hymenophyllum
ICA	Icacinaeae	
ICAA1	Icacinaeae	Apodytes
ICAI1	Icacinaeae	Irvingbaileya
IRI	Iridaceae	
ISO	Isoetaceae	
ISOI1	Isoetaceae	Iso_tes
JUG	Juglandaceae	
JUGP1	Juglandaceae	Platycarya
JNC	Juncaceae	
JNCJ1	Juncaceae	Juncus
JNG	Juncaginaceae	
JNGT1	Juncaginaceae	Triglochin
JNGT11	Juncaginaceae	Triglochin striata
LAB	Labiatae	
LAM	Lamiaceae	
LAU	Lauraceae	
LEC	Lecythidaceae	
LECB1	Lecythidaceae	Barringtonia
LEE	Leeaceae	
LEEL1	Leeaceae	Leea
LEG	Leguminosae	
LMN	Lemnaceae	
LMNL1	Lemnaceae	Lemna
LEN	Lentibulariaceae	
LENU1	Lentibulariaceae	Utricularia
LIL	Liliaceae	
LILA1	Liliaceae	Arthropodium
LILA2	Liliaceae	Astelia
LILA21	Liliaceae	Astelia alpina
LILB1	Liliaceae	Bulbinopsis
LILB2	Liliaceae	Burchardia
LILD1	Liliaceae	Dianella
LILD11	Liliaceae	Dianella revoluta
LILM1	Liliaceae	Milligania
LILS1	Liliaceae	Stypandra
LILS11	Liliaceae	Stypandra glauca
LILT1	Liliaceae	Thysanotus
LND	Lindsaeaceae	
LNDL1	Lindsaeaceae	Lindsaea
LOB	Lobeliaceae	
LOG	Loganiaceae	
LOGM1	Loganiaceae	Mitrasacme
LOR	Loranthaceae	
LORA1	Loranthaceae	Amyema
LORL1	Loranthaceae	Loranthus
LYC	Lycopodiaceae	
LYCL1	Lycopodiaceae	Lycopodium
LYCL11	Lycopodiaceae	Lycopodium australianum

FLORID	FAMILY	GENSPECIES
LYCL12	Lycopodiaceae	Lycopodium fastigatum
LYCL13	Lycopodiaceae	Lycopodium laterale
LYCL14	Lycopodiaceae	Lycopodium scariosum
LYCL15	Lycopodiaceae	Lycopodium varium
LYT	Lythraceae	
LYTL1	Lythraceae	Lythrum
LYTL11	Lythraceae	Lythrum hyssopifolia
LYTL12	Lythraceae	Lythrum salicaria
MAG	Magnoliaceae	
MLP	Malpighiaceae	
MAL	Malvaceae	
MALL1	Malvaceae	Lavatera
MALL11	Malvaceae	Lavatera plebeia
MALS1	Malvaceae	Sida
MEL	Melastomataceae	
MEI	Meliaceae	
MEIA1	Meliaceae	Aglaia
MEIC1	Meliaceae	Cedrela
MEID1	Meliaceae	Disoxylum
MEN	Menispermaceae	
MENH1	Menispermaceae	Hypserpa
MENS1	Menispermaceae	Stephania
MEY	Menyanthaceae	
MEYN1	Menyanthaceae	Nymphoides
MEYV1	Menyanthaceae	Villarsia
MIM	Mimosaceae	
MIMA1	Mimosaceae	Acacia
MON	Monimiaceae	
MONA1	Monimiaceae	Atherosperma
MONA11	Monimiaceae	Atherosperma moschatum
MONH1	Monimiaceae	Hedycarya
MOR	Moraceae	
MYO	Myoporaceae	
MYOE1	Myoporaceae	Eremophila
MYOM1	Myoporaceae	Myoporum
MYR	Myristicaceae	
MYRM1	Myristicaceae	Myristica
MYS	Myrsinaceae	
MYSE1	Myrsinaceae	Embelia
MYSM1	Myrsinaceae	Maesa
MYSR1	Myrsinaceae	Rapanea
MYT	Myrtaceae	
MYTA1	Myrtaceae	Acmena
MYTA2	Myrtaceae	Angophora
MYTA21	Myrtaceae	Angophora costata
MYTB1	Myrtaceae	Baeckea
MYTC1	Myrtaceae	Callistemon
MYTC11	Myrtaceae	Callistemon rigidus
MYTC12	Myrtaceae	Callistemon sieberi
MYTC2	Myrtaceae	Calytrix
MYTD1	Myrtaceae	Decaspermum
MYTE1	Myrtaceae	Eucalyptus
MYTE11	Myrtaceae	Eucalyptus aggregata
MYTE12	Myrtaceae	Eucalyptus bridgesiana

FLORID	FAMILY	GENSPECIES
MYTE13	Myrtaceae	Eucalyptus calophyll
MYTE14	Myrtaceae	Eucalyptus cinerea
MYTE15	Myrtaceae	Eucalyptus coccifera
MYTE16	Myrtaceae	Eucalyptus dalrympleana
MYTE17	Myrtaceae	Eucalyptus delegatensis
MYTE18	Myrtaceae	Eucalyptus diversicolor
MYTE19	Myrtaceae	Eucalyptus dives
MYTE11	Myrtaceae	Eucalyptus fastigata
MYTE11	Myrtaceae	Eucalyptus gomphocephala
MYTE11	Myrtaceae	Eucalyptus goniocalyx
MYTE11	Myrtaceae	Eucalyptus gummifera
MYTE11	Myrtaceae	Eucalyptus macrorhyncha
MYTE11	Myrtaceae	Eucalyptus melliodor
MYTE11	Myrtaceae	Eucalyptus microcorys
MYTE11	Myrtaceae	Eucalyptus nortonii
MYTE11	Myrtaceae	Eucalyptus obliqua
MYTE11	Myrtaceae	Eucalyptus pauciflor
MYTE12	Myrtaceae	Eucalyptus perrinian
MYTE12	Myrtaceae	Eucalyptus pilularis
MYTE12	Myrtaceae	Eucalyptus polyanthemos
MYTE12	Myrtaceae	Eucalyptus radiata
MYTE12	Myrtaceae	Eucalyptus resinifera
MYTE12	Myrtaceae	Eucalyptus rossii
MYTE12	Myrtaceae	Eucalyptus rubida
MYTE12	Myrtaceae	Eucalyptus stellulata
MYTE12	Myrtaceae	Eucalyptus stricta
MYTE12	Myrtaceae	Eucalyptus subcrenulata
MYTE13	Myrtaceae	Eucalyptus viminalis
MYTE13	Myrtaceae	Eucalyptus wandoo
MYTE2	Myrtaceae	Eugenia
MYTK1	Myrtaceae	Kunzea
MYTL1	Myrtaceae	Leptospermum
MYTL11	Myrtaceae	Leptospermum attenuatum
MYTL12	Myrtaceae	Leptospermum humifusum
MYTL13	Myrtaceae	Leptospermum laevigatum
MYTL14	Myrtaceae	Leptospermum lanigerum
MYTL15	Myrtaceae	Leptospermum myrsinoides
MYTM1	Myrtaceae	Melaleuca
MYTM11	Myrtaceae	Melaleuca quinquenervia
MYTR1	Myrtaceae	Rhodomyrtus
MYTS1	Myrtaceae	Syzygium
NYC	Nyctaginaceae	

FLORID	FAMILY	GENSPECIES
NYCB1	Nyctaginaceae	Bougainvillea
OLA	Olacaceae	
OLAA1	Olacaceae	Anacolosia
OLE	Oleaceae	
OLEO1	Oleaceae	Olea
OLEO11	Oleaceae	Olea paniculata
ONG	Onagraceae	
ONGE1	Onagraceae	Epilobium
OPH	Ophioglossaceae	
OPHB1	Ophioglossaceae	Botrychium
OSM	Osmundaceae	
OSMT1	Osmundaceae	Todea
OXA	Oxalidaceae	
OXAO1	Oxalidaceae	Oxalis
PAL	Palmae	
PAN	Pandanaceae	
PANF1	Pandanaceae	Freycinetia
PANP1	Pandanaceae	Pandanus
PPV	Papaveraceae	
PPI	Papilionaceae	
PHI	Philydraceae	
PHIP1	Philydraceae	Philydrum
PHY	Phyllocladaceae	
PHYP1	Phyllocladaceae	Phyllocladus
PHYP11	Phyllocladaceae	Phyllocladus aspleniifolius
PIN	Pinaceae	
PINP1	Pinaceae	Pinus
PIT	Pittosporaceae	
PITB1	Pittosporaceae	Billardiera
PITB2	Pittosporaceae	Bursaria
PITB21	Pittosporaceae	Bursaria spinosa
PITP1	Pittosporaceae	Pittosporum
PLN	Plantaginaceae	
PLNP1	Plantaginaceae	Plantago
PLNP11	Plantaginaceae	Plantago lanceolata
PLNP12	Plantaginaceae	Plantago varia
PLT	Platanaceae	
PLU	Plumbaginaceae	
PLUA1	Plumbaginaceae	Aegialitis
POA	Poaceae	
POAP1	Poaceae	Paspalum
POAP2	Poaceae	Phragmites
POAP31	Poaceae	Poa sieberiana
POD	Podocarpaceae	
PODD1	Podocarpaceae	Dacrycarpus
PODD2	Podocarpaceae	Dacrydium
PODD21	Podocarpaceae	Dacrydium franklinii
PODL1	Podocarpaceae	Lagarostrobos
PODL11	Podocarpaceae	Lagarostrobos franklinii
PODM1	Podocarpaceae	Microcachrys
PODM11	Podocarpaceae	Microcachrys tetragona
PODM2	Podocarpaceae	Microstrobos
PODM21	Podocarpaceae	Microstrobos niphophilus
PODP1	Podocarpaceae	Podocarpus

FLORID	FAMILY	GENSPECIES
PODP11	Podocarpaceae	Podocarpus alpina
PODP12	Podocarpaceae	Podocarpus alpinus
PODP13	Podocarpaceae	Podocarpus dacrydioides
PODP14	Podocarpaceae	Podocarpus lawrence
PGA	Polygalaceae	
PGAC1	Polygalaceae	Comesperma
PGO	Polygonaceae	
PGOM1	Polygonaceae	Muehlenbeckia
PGOP1	Polygonaceae	Polygonum
PGOR1	Polygonaceae	Rumex
PGOR11	Polygonaceae	Rumex acetosella
PLP	Polypodiaceae	
PLPB1	Polypodiaceae	Belvisia
PLPM1	Polypodiaceae	Microsorium
PLPP1	Polypodiaceae	Phymatodes
PLPP2	Polypodiaceae	Platyterium
PLPP3	Polypodiaceae	Polypodium
PLPP31	Polypodiaceae	Polypodium subauriculatum
POR	Portulacaceae	
PORC1	Portulacaceae	Calandrinia
PORC11	Portulacaceae	Calandrinia eremaea
PORC2	Portulacaceae	Claytonia
PORC21	Portulacaceae	Claytonia australasic
PORM1	Portulacaceae	Montia
PORM11	Portulacaceae	Montia fontana
PORN1	Portulacaceae	Neopaxia
POS	Posidoniaceae	
POSP1	Posidoniaceae	Posidonia
POT	Potamogetonaceae	
POTP1	Potamogetonaceae	Potamogeton
PRO	Proteaceae	
PROA1	Proteaceae	Agastachys
PROB1	Proteaceae	Banksia
PROB11	Proteaceae	Banksia asplenifolia
PROB12	Proteaceae	Banksia marginata
PROB13	Proteaceae	Banksia ornata
PROB14	Proteaceae	Banksia serrata
PROB2	Proteaceae	Bellendena
PROB21	Proteaceae	Bellendena montana
PROC1	Proteaceae	Cardwellia
PROC2	Proteaceae	Carnarvon
PROC3	Proteaceae	Cenarrhenes
PROC31	Proteaceae	Cenarrhenes nitida
PROC4	Proteaceae	Conospermum
PROG1	Proteaceae	Grevillea
PROG11	Proteaceae	Grevillea australis
PROH1	Proteaceae	Hakea
PROH11	Proteaceae	Hakea lissosperma
PROH12	Proteaceae	Hakea microcarpa
PROH2	Proteaceae	Helicia
PROI1	Proteaceae	Isopogon
PROL1	Proteaceae	Lomatia
PROO1	Proteaceae	Opisthiolepis
PROO2	Proteaceae	Orites
PROO21	Proteaceae	Orites acicularis
PROO22	Proteaceae	Orites lancifolia

FLORID	FAMILY	GENSPECIES
PROO23	Proteaceae	Orites revoluta
PROP1	Proteaceae	Persoonia
PROS1	Proteaceae	Stenocarpus
PROS2	Proteaceae	Symphionema
PROT1	Proteaceae	Telopea
PTE	Pteridaceae	
PTEP1	Pteridaceae	Pteris
PTEP11	Pteridaceae	Pteris tremula
RAN	Ranunculaceae	
RANC1	Ranunculaceae	Clematis
RANR1	Ranunculaceae	Ranunculus
RES	Restionaceae	
RESC1	Restionaceae	Calorophus
RESE1	Restionaceae	Empodisma
RESE11	Restionaceae	Empodisma minus
RESR1	Restionaceae	Restio
RESR11	Restionaceae	Restio australis
RHA	Rhamnaceae	
RHAA1	Rhamnaceae	Alphitonia
RHAC1	Rhamnaceae	Cryptandra
RHAE1	Rhamnaceae	Emmenosperma
RHAP1	Rhamnaceae	Pomaderris
RHAP11	Rhamnaceae	Pomaderris apetala
RHAP12	Rhamnaceae	Pomaderris elliptica
RHZ	Rhizophoraceae	
RIC	Ricciaceae	
RICR1	Ricciaceae	Riccia
ROS	Rosaceae	
ROSA1	Rosaceae	Acaena
ROSR1	Rosaceae	Rubus
RUB	Rubiaceae	
RUBA1	Rubiaceae	Asperula
RUBC1	Rubiaceae	Canthium
RUBC2	Rubiaceae	Coprosma
RUBC21	Rubiaceae	Coprosma pumila
RUBG1	Rubiaceae	Galium
RUBH1	Rubiaceae	Hodgkinsonia
RUBO1	Rubiaceae	Opercularia
RUBO2	Rubiaceae	Ophiorrhiza
RUBP1	Rubiaceae	Pomax
RUBR1	Rubiaceae	Randia
RPP	Ruppiaceae	
RPPR1	Ruppiaceae	Ruppia
RPPR11	Ruppiaceae	Ruppia maritima
RPPR12	Ruppiaceae	Ruppia megacarpa
RUT	Rutaceae	
RUTB1	Rutaceae	Boronia
RUTC1	Rutaceae	Correa
RUTC11	Rutaceae	Correa alba
RUTE1	Rutaceae	Evodiella
RUTF1	Rutaceae	Flindersia
RUTM1	Rutaceae	Melicope
RUTM11	Rutaceae	Melicope broadbentiana
RUTP1	Rutaceae	Phebalium
SAN	Santalaceae	
SANE1	Santalaceae	Exocarpos
SANE11	Santalaceae	Exocarpos

FLORID	FAMILY	GENSPECIES
		cupressiformis
SAI	Sapindaceae	
SAIC1	Sapindaceae	Cupanieidites
SAIC2	Sapindaceae	Cupaniopsis
SAID1	Sapindaceae	Dodonaea
SAID11	Sapindaceae	Dodonaea viscosa
SAIH1	Sapindaceae	Heterodendrum
SAP	Sapotaceae	
SCE	Scenedesmaceae	
SCES1	Scenedesmaceae	Scenedesmus
SCH	Schizaeaceae	
SCHLI	Schizaeaceae	Lygodium
SCHL11	Schizaeaceae	Lygodium microphyllum
SCR	Scrophulariaceae	
SCRE1	Scrophulariaceae	Euphrasia
SEL	Selaginellaceae	
SELS1	Selaginellaceae	Selaginella
SMI	Smilaceae	
SMIR1	Smilaceae	Rhipogonum
SMIR2	Smilaceae	Ripogonum
SOL	Solanaceae	
SOLS1	Solanaceae	Solanum
SOLS11	Solanaceae	Solanum mauritanu
SON	Sonneratiaceae	
SONS1	Sonneratiaceae	Sonneratia
SPA	Sparganiaceae	
SPAS1	Sparganiaceae	Sparganium
SPAS11	Sparganiaceae	Sparganium antipodum
SPAS12	Sparganiaceae	Sparganium subglossum
SPH	Sphagnaceae	
SPHS1	Sphagnaceae	Sphagnum
SPI	Spiniferites	
STA	Stackhousiaceae	
STAS1	Stackhousiaceae	Stackhousia
STE	Sterculiaceae	
STEA1	Sterculiaceae	Argyrodendron
STEA11	Sterculiaceae	Argyrodendron peralatum
STEB1	Sterculiaceae	Brachychiton
STY	Stylidiaceae	
STYS1	Stylidiaceae	Stylidium
STYS11	Stylidiaceae	Stylidium graminifolium
SYM	Symplocaceae	
SYMS1	Symplocaceae	Symplocos
THE	Thelypteridaceae	
THEC1	Thelypteridaceae	Cyclosorus
THY	Thymelaeaceae	
THYK1	Thymelaeaceae	Kelleria
THYP1	Thymelaeaceae	Pimelea
TIL	Tiliaceae	
TILB1	Tiliaceae	Brownlowia
TILT1	Tiliaceae	Triumfetta
TRE	Tremandraceae	
TRET1	Tremandraceae	Tetratheca

FLORID	FAMILY	GENSPECIES
TYP	Typhaceae	
TYPT1	Typhaceae	Typha
TYPT11	Typhaceae	Typha domingensis
TYPT12	Typhaceae	Typha orientalis
ULM	Ulmaceae	
ULMC1	Ulmaceae	Celtis
ULMT1	Ulmaceae	Trema
UMB	Umbelliferae	
URT	Urticaceae	
URTU1	Urticaceae	Urtica
VER	Verbenaceae	
VERA1	Verbenaceae	Avicennia
VERA11	Verbenaceae	Avicennia marina
VERL1	Verbenaceae	Lantana
VERL11	Verbenaceae	Lantana camara
VIT	Vitaceae	
WIN	Winteraceae	
WIND1	Winteraceae	Drimys
WIND11	Winteraceae	Drimys lanceolata
WINT1	Winteraceae	Tasmannia
WINT11	Winteraceae	Tasmannia lanceolata
XAN	Xanthorrhoeaceae	
XANL11	Xanthorrhoeaceae	Lomandra effusa
XANL12	Xanthorrhoeaceae	Lomandra longifolia
XANX1	Xanthorrhoeaceae	Xanthorrhoea
ZAN	Zannichelliaceae	
ZANL1	Zannichelliaceae	Lepilaena
ZYG	Zygophyllaceae	

APPENDIX B: QUATDB table definitions

Tables with location/site information:

quatdb.location

Name	Null?	Type
locno	not null	number(6)
countryid		varchar2(3)
provdist		varchar2(60)
locname	not null	varchar2(60)
loctype		varchar2(20)
alt1		number(4)
alt2		number(4)
deglat1		number(2)
minlat1		number(2)
seclat1		number(2)
deglong1		number(3)
minlong1		number(2)
seclong1		number(2)
deglat2		number(2)
minlat2		number(2)
seclat2		number(2)
deglong2		number(3)
minlong2		number(2)
seclong2		number(2)
dlat1		number(6,4)
dlong1		number(7,4)
dlat2		number(6,4)
dlong2		number(7,4)
lcomm		varchar2(255)

quatdb.locenv

Name	Null?	Type
locno	not null	number(6)
climid		varchar2(4)
temp		number(3,1)
pptn		number(4)
evap		number(4)
pe		number(4,2)
econor1		number(2)
reco1		varchar2(1)
econor2		number(2)
reco2		varchar2(1)
vegidr1		varchar2(5)
rveg1		varchar2(1)
vegidr2		varchar2(5)
rveg2		varchar2(1)

quatdb.measenv

Name	Null?	Type
locno	not null	number(6)
metype		varchar2(30)
meval		number(8,2)
medesc		varchar2(60)

quatdb.qsites

Name	Null?	Type
siteno	not null	number(6)
locno	not null	number(6)
studyno		number(6)
sitetype		varchar2(40)
geogname		varchar2(60)
state		varchar2(3)
alt		number(4)
deglat		number(2)
minlat		number(2)
seclat		number(2)
laterr		number(3,2)
deglong		number(3)
minlong		number(2)
seclong		number(2)
longerr		number(3,2)
dlat		number(6,4)
dlong		number(7,4)
pash		varchar2(1)
compno		number(3)
enteredby		varchar2(8)
entrydate		date
scomm		varchar2(200)
pt		varchar2(1)
pb		varchar2(1)
gc		varchar2(1)
gn		varchar2(1)
gm		varchar2(1)
st		varchar2(1)
sample		varchar2(20)
refid		varchar2(9)

quatdb.sitenv

Name	Null?	Type
siteno	not null	number(6)
econol1		number(2)
leco1		varchar2(1)
econol2		number(2)
leco2		varchar2(1)
vegidl1		varchar2(5)
lveg1		varchar2(1)
vegidl2		varchar2(5)
lveg2		varchar2(1)

Tables with primary data:

quatdb.geochron

Name	Null?	Type
siten	not null	number(6)
gnno	not null	number(6)
gcno		number(6)
labid		varchar2(9)
gndepth		number(5,2)
gnthick		number(5,2)
lithid		varchar2(6)
gnmat		varchar2(25)
gnage1		number(7)
gnmod		varchar2(2)
gnage2		number(5)
gnage3		number(5)
gnmeth		varchar2(4)
gnreliab		varchar2(30)
gnzone		varchar2(10)
invest		varchar2(25)
gncomm		varchar2(200)

quatdb.altdate

Name	Null?	Type
siten	not null	number(6)
adno	not null	number(6)
addepth1		number(6,3)
addepth2		number(5,2)
adage		number(7)
admod		varchar2(15)
adbdry		varchar2(30)
sourcesite		varchar2(25)
admeth		varchar2(50)
adbasis		varchar2(50)
sourcegn		varchar2(25)
adcomm		varchar2(255)

quatdb.geochem1

Name	Null?	Type
siten	not null	number(6)
gcno	not null	number(6)
faunno		number(6)
lithid		varchar2(6)
gcmat		varchar2(50)
elform		varchar2(15)
gcunits		varchar2(25)
gcomm		varchar2(200)

quatdb.geochem2

Name	Null?	Type
gcno	not null	number(6)
elval		number(8,4)
error1		number(8,4)
error2		number(8,4)
gcdepth		number(6,3)
gcthick		number(5,2)
elval2		number(8,4)
error3		number(8,4)
error4		number(8,4)
gcomm		varchar2(200)

quatdb.assembl

Name	Null?	Type
siten	not null	number(6)
asage1		number(8,2)
asmod1		varchar2(15)
asage2		number(8,2)
asmod2		varchar2(15)
asdepth		number(5,2)
asthick		number(5,2)
presmed		varchar2(255)
source		varchar2(110)
ascomm		varchar2(255)
correl		varchar2(100)

quatdb.fossil

Name	Null?	Type
siten	not null	number(6)
fosno	not null	number(6)
foscatt		varchar2(1)
faunno		number(6)
faunother		varchar2(35)
fosstat		varchar2(2)
habitat		varchar2(255)
foscomm		varchar2(255)
taphonomy		varchar2(100)

quatdb.measfoss

Name	Null?	Type
fosno	not null	number(6)
mfdepth		number(6,3)
mfthick		number(5,2)
material		varchar2(100)
nopres		number(5)
abund		varchar2(50)
mfdesc		varchar2(70)
mfval1		number(8,4)
mfmod1		varchar2(2)
mferror1		number(8,4)
mfval2		number(8,4)
mfmod2		varchar2(2)
mferror2		number(8,4)
mfunits		varchar2(20)
mfrend		varchar2(100)
mfcomm		varchar2(255)

quatdb.botass

Name	Null?	Type
siten	not null	number(6)
badept		number(5,2)
bathick		number(5,2)
baage1		number(7)
bamod1		varchar2(2)
baage2		number(7)
bamod2		varchar2(2)
bacorrel		varchar2(255)
bapresmed		varchar2(255)
bapreserv		varchar2(255)
bameth		varchar2(255)
bacomm		varchar2(255)

quatdb.botany

Name	Null?	Type
siten	not null	number(6)
bno	not null	number(6)
florid		varchar2(7)
btype		varchar2(1)
bident		varchar2(75)
becol		varchar2(100)
bname		varchar2(60)
btaph		varchar2(75)
bstat		varchar2(1)
bcomm		varchar2(255)

quatdb.measbot

Name	Null?	Type
bno	not null	number(6)
mbdepth		number(5,2)
mbthick		number(5,2)
mbmat		varchar2(100)
mbval1		number(14,9)
mbmod1		varchar2(2)
mbval2		number(14,9)
mbmod2		varchar2(2)
mbtype		varchar2(50)
mbtrend		varchar2(100)
mbcomm		varchar2(255)

quatdb.geomorph

Name	Null?	Type
siten	not null	number(6)
gmno	not null	number(6)
locno		number(6)
gmtype		varchar2(30)
gmcrr		varchar2(100)
gmae1		number(9,2)
gmae2		number(9,2)
gmdesc		varchar2(255)
gmstate		varchar2(60)
gmcomm		varchar2(200)

quatdb.measmorph

Name	Null?	Type
gmno	not null	number(6)
mmdesc		varchar2(70)
mmval1		number(8,4)
mmval2		number(8,4)
mmmod1		varchar2(2)
mmmod2		varchar2(2)
mmunits		varchar2(20)
mmcomm		varchar2(255)

quatdb.stratig

Name	Null?	Type
siten	not null	number(6)
stratno	not null	number(6)
stname		varchar2(75)
stcorrel		varchar2(100)
stdepth		number(5,2)
stthick		number(5,2)
stlith		varchar2(255)
structures		varchar2(100)
biorems		varchar2(100)
altpres		varchar2(100)
stcomm		varchar2(255)

quatdb.subsample

Name	Null?	Type
stratno	not null	number(6)
ssdepth		number(6,3)
ssthick		number(5,2)
chmeas		varchar2(70)
ssval1		number(7,3)
ssval2		number(7,3)
ssmod1		varchar2(2)
ssmod2		varchar2(2)
sserr1		number(7,3)
sserr2		number(7,3)
ssunits		varchar2(20)
sstrend		varchar2(100)
sscomm		varchar2(255)

Tables with interpretations:

quatdb.concl_source

Name	Null?	Type
concno	not null	number(6)
locno	not null	number(6)
siten		number(6)
studyno		number(6)
slotid1		varchar2(3)
slotid2		varchar2(3)
intname		varchar2(60)
coage1		number(7)
comod1		varchar2(2)
coage2		number(7)
comod2		varchar2(2)
zname		varchar2(75)
zdepth		number(6,3)
zthick		number(6,3)
zorig		varchar2(20)
refid		varchar2(9)

quatdb.palconc

Name	Null?	Type
concno	not null	number(6)
conctype		varchar2(15)
concdesc		varchar2(80)
change		varchar2(150)
abchange		varchar2(150)
coval1		number(8,3)
valmod1		varchar2(10)
coval2		number(8,3)
valmod2		varchar2(10)
counits		varchar2(10)
coval3		number(8,3)
valmod3		varchar2(10)
coval4		number(8,3)
valmod4		varchar2(10)
counits2		varchar2(10)
cotrend		varchar2(65)
regloc		varchar2(1)
regext		varchar2(65)
infrsource		varchar2(40)
cocomm		varchar2(255)
ctid	not null	varchar2(5)

Lookup tables:

quatdb.climate

Name	Null?	Type
climid	not null	varchar2(5)
climdesc	not null	varchar2(50)

quatdb.conctype

Name	Null?	Type
ctid	not null	varchar2(5)
ctdesc	not null	varchar2(55)

quatdb.ecosytem

Name	Null?	Type
econo	not null	number(2)
ecodesc	not null	varchar2(35)

quatdb.fauna

Name	Null?	Type
faunno	not null	number(6)
faundesc	not null	varchar2(100)
fauntype		varchar2(2)
fauncat		varchar2(1)
faunstat		varchar2(1)

quatdb.flora

Name	Null?	Type
florid	not null	varchar2(7)
family	not null	varchar2(35)
genspecies		varchar2(65)
florstat		varchar2(1)

quatdb.lithol

Name	Null?	Type
lithid	not null	varchar2(6)
lithdesc	not null	varchar2(50)

quatdb.qseqnos

Name	Null?	Type
tname	not null	varchar2(15)
maxseqno	not null	number(6)

quatdb.timeslot

Name	Null?	Type
slotid	not null	varchar2(3)
slotdesc	not null	varchar2(35)

quatdb.veget

Name	Null?	Type
vegid	not null	varchar2(5)
vegdesc	not null	varchar2(60)

APPENDIX C: Sites contained in QUATDB

The following list is a computer retrieval of all localities and their sites. The data fields are: *locname*, *siteno*, *dlat/dlong*, *geogname* - *sample*. 0.00 denotes unknown latitude and longitude values.

Adamsons Peak

977 -43.35/146.82 Adamsons Peak - core

Altona Bay

197 -37.87/144.83 Altona - sample
319 -37.87/144.87 Altona Bay (incl Koorringal drain) - sample
343 -37.87/144.87 Bellarine Peninsula (Altona Bay?) - sample
72 -37.87/144.85 Romawi St - sample

Amadeus Basin

21 -25.25/131.73 AR3 drillhole - core
22 -25.30/131.75 AR6 drillhole - core
20 -25.33/131.94 AR7 drillhole - core
23 -25.32/131.93 Core P13 Samphire Lake - core
24 -25.31/131.93 Spring Lake - core

Amphitheatre Cave

289 -38.00/141.00 Amphitheatre Cave - excavation

Arafura Sea

802 -10.33/130.77 Core 1222 - gravity core
801 -9.73/131.00 Core 1225 - gravity core
800 -9.12/133.87 Dredge 1231 - dredge
803 -9.92/130.05 Yomiuri dive II - submersible grab
804 -9.00/133.33 Yomiuri dive III - submersible grab

Bald Island

205 -34.90/118.42 Bald Island - faunal survey

Barrington Tops

992 -32.05/151.47 Black Swamp - core
991 -31.87/151.52 Boggy Swamp - core
989 -31.92/151.40 Butchers Swamp - core
997 -32.08/151.58 Clive Swamp - core
990 -31.92/151.37 Horse Swamp - core
995 -32.07/151.55 Killer Bog - core
994 -31.97/151.42 Polblue Swamp- section 1 - section
998 -31.97/151.42 Polblue Swamp- section 2 - section
999 -31.97/151.42 Polblue Swamp- section 3 - section
996 -32.07/151.57 Sapphire Swamp - core
993 -32.00/151.47 Top Swamp - core

Barrow Island

212 -20.67/115.33 Barrow Island - faunal survey

Bass Basin

824 -40.08/145.76 core 15 - piston core
811 -40.08/147.00 core 18 - piston core
810 -40.50/146.08 core 21 - piston core
809 -40.59/145.93 core 22 - piston core
808 -40.72/146.20 core 23 - piston core
807 -40.83/146.58 core 24 - piston core
834 -39.25/145.75 core 6 - piston core

Bega Swamp

1031 -36.52/149.50 Bega Swamp - core

Belarabon Range

550 -32.03/145.00 Belarabon district dunes - survey
491 0.00/ 0.00 Fan 1 - exposed section
492 0.00/ 0.00 Fan 2 (Belarabon Fan) - exposed section
493 0.00/ 0.00 Fan 3 (Dillon Fan) - exposed section
494 0.00/ 0.00 Fan 4 (Bronzewing Fan) - exposed section
499 -33.25/144.57 Mossgiel - sample
498 -32.07/145.00 dune, northeast of Belarabon homestead - sample
497 -32.07/145.00 prior stream channel, Belarabon homestead - sample

Bellarine Peninsula

620 -38.28/144.50 Barwon Heads 1 - exposure
621 -38.28/144.50 Barwon Heads 2 - exposure
618 -38.28/144.62 Point Lonsdale 1 - exposure
619 -38.28/144.62 Point Lonsdale 2 - exposure
616 -38.27/144.67 Queenscliff 1 - exposure
617 -38.27/144.67 Queenscliff 2 - exposure

Bernier Island

211 -24.75/113.10 Bernier Island - faunal survey

Big Dip Lake

1359 -37.27/139.78 Big Dip Lake north shore - slip hammer core

Black mountain
454 -35.27/149.10 fanglomerate A - exposure
451 -35.27/149.11 location 1 nth face library site - excavation
452 -35.27/149.11 location 2 nth face library site 1.5m from 1 - excavation
453 -35.27/149.11 location 3 east face library site - excavation

Boggy Lake
1051 -35.02/116.63 Boggy Lake - core

Breadalbane
753 -34.78/149.48 Breadalbane Basin - review

Brindabellas
455 -35.45/148.83 Brindabella valley (eastern side) - unspecified
523 -35.33/148.75 Goodradigbee River - sample

Broadmeadows Swamp
640 -40.83/145.13 Broadmeadows Swamp - unspecified
691 -40.83/145.13 Broadmeadows Swamp - unspecified
780 -40.83/145.13 Broadmeadows Swamp - unspecified
1018 -40.87/145.08 Broadmeadows Swamp - excavation

Broken Ridge
820 -29.66/ 97.53 E48-11 - piston core
861 -29.66/ 97.53 E48-11 - piston core
1209 -29.66/ 97.53 E48-11 - piston core
862 -28.52/ 93.51 E48-13 - piston core
868 -32.79/ 83.87 E48-32 - piston core
1170 -30.35/ 86.49 E48-35 - piston core
869 -31.43/ 88.97 E48-37 - piston core
870 -31.93/ 98.39 E48-47 - piston core
1171 -31.62/ 97.71 E48-8 - piston core
823 -30.07/ 94.42 RC11-126 - piston core
904 -30.07/ 94.42 RC11-126 - piston core
905 -28.07/ 95.97 RC11-128 - piston core
913 -30.20/ 91.72 V16-93 - piston core
914 -28.88/ 92.83 V16-94 - piston core
915 -28.02/ 95.18 V16-95 - piston core
916 -31.53/ 99.25 V16-96 - piston core

Bromfield Swamp
239 -17.38/145.55 Bromfield Swamp - review
749 -17.38/145.55 Bromfield Swamp - review

Brown Marsh
978 -42.22/146.57 Brown Marsh - core

Bucks Lake
1369 -37.91/140.40 Bucks Lake 3 central - slip hammer core

Bulloo-Bancannia Basin
754 -30.82/141.93 Lake Bancannia - review
759 -30.05/142.18 Salt Lake - review

Bunda Playa Lake
490 -32.03/147.00 Bunda Playa Lake - excavation
495 -32.03/146.00 dunefield - trench

Bushfield
266 -38.33/142.52 Bushfield midden - sample

Byaduk Caves
269 -37.92/142.00 Byaduk Caves - sample

Caledonia Fen
220 -37.33/146.75 Caledonia Fen - review

Cape Cuvier District
1120 -24.22/113.39 Cape Cuvier - exposed section
1121 -24.43/113.50 Lake MacLeod, West Shore - exposed section
1123 -24.20/113.80 Lake Macleod, East Shore, Grierson Anticline - exposed section
1122 -24.08/113.97 Lake Macleod, East Shore, Yankie Tank Anticline - exposed section

Cape Range
1119 -21.99/114.13 Mowbowra Creek - exposed section
1118 -22.30/113.85 nr. Yardie Creek - exposed section

Cave Bay cave
74 -40.50/144.77 Cave Bay cave - review
83 -40.50/144.77 Cave Bay cave - review
84 -40.50/144.77 Cave Bay cave - review
653 -40.50/144.83 Cave Bay cave - core

Challenger Plateau
558 -40.51/167.67 DSDP 593 - piston core
930 -40.51/167.67 DSDP 593 - piston core
1095 -40.51/167.67 DSDP 593 - piston core
1105 -40.51/167.67 DSDP 593 - piston core
1161 -40.51/167.67 DSDP 593 - piston core
789 -40.28/168.33 E26-1 - piston core
1165 -40.28/168.34 E26-1 - piston core
1183 -41.15/170.34 GR 5/4 - piston core

Cloggs Cave
75 -37.50/148.18 Cloggs Cave - review
80 -37.50/148.18 Cloggs Cave - review
82 -37.50/148.18 Cloggs Cave - review
291 -37.50/148.18 Cloggs Cave - excavation

Cobrico Swamp
774 -38.30/143.03 Cobrico Swamp - review

Coffin Bay
1242 -34.67/135.52 C.7-2 - section

Combe Island
200 -34.08/122.97 Combe Island - faunal survey

Cooper Creek (lower)
277 -28.52/137.90 Cooper Creek (lower) - exposures
279 -27.87/137.92 Cooper Creek (lower) - exposures
281 -28.55/138.08 Cooper Creek (lower) - exposures

Coral Sea
1157 -15.54/146.94 AGS051GC21 - gravity core
794 -16.62/146.32 ODP 819 - piston core
797 -16.62/146.32 ODP 819 - piston core
796 -16.64/146.30 ODP 820A - piston core
793 -16.65/146.29 ODP 821A - piston core
795 -16.65/146.29 ODP 821A - piston core
1181 -16.42/146.22 ODP 822 - piston core
1343 -16.42/146.22 ODP 822A - piston core
1090 -15.29/166.28 ODP 828A - piston core
1100 -15.29/166.28 ODP 828A - piston core
660 -14.53/157.97 RC10-131 - piston core
657 -14.95/147.92 V24-157 - piston core
659 -18.20/151.45 V24-161 - piston core
658 -16.52/148.05 V24-166 - piston core
921 -16.52/148.05 V24-166 - piston core
1233 -16.52/148.05 V24-166 - piston core
656 -13.52/146.88 V24-170 - piston core
655 -12.87/146.20 V24-184 - piston core

Corangamite Basin
766 -38.25/143.45 Lake Colongulac - review
767 -38.25/143.50 Lake Corangamite - review
769 -38.25/143.47 Lake Weeranganuk - review

Cranebrook Terrace area
543 -33.88/150.63 Cranebrook Terrace - core and exposure
544 -33.88/150.63 Cranebrook Terrace - exposure

Crown Lagoon
764 -42.28/147.63 Crown Lagoon - review

Curran's Creek Cave
288 -38.00/141.00 Curran's Creek Cave - excavation

Cuvier Plateau
825 -25.48/110.02 RC11-145 - piston core
910 -25.48/110.02 RC11-145 - piston core
1042 -25.48/110.02 RC11-145 - piston core
1176 -25.48/110.02 RC11-145 - piston core
1215 -25.48/110.02 RC11-145 - piston core

Dalhousie Springs
1323 -26.42/135.50 DS-87-T1/1 - core

Dante Outwash Fan
650 -42.00/145.72 Dante Outwash Fan - exposure

Darwin Crater
1004 -42.28/145.67 Darwin Crater- pit DCP - pit
1005 -42.28/145.67 Darwin Crater-core DC - core

Derby area
516 -17.50/124.00 Derby area - sections

Devil's Lair
112 -34.15/115.07 Devil's Lair - excavation
282 -34.15/115.07 Devil's Lair - excavation
357 -34.15/115.07 Devil's Lair - excavation
629 -34.15/115.07 Devil's Lair - review
1345 -34.15/115.07 Trench A1 - excavation

Dirk Hartog Island
213 -25.50/112.92 Dirk Hartog Island - faunal survey

Dorre Island
210 -25.00/113.07 Dorre Island - faunal survey

Drover's Cave
255 -30.25/115.00 Drover's Cave - excavation

East Gippsland
1107 -38.00/147.63 G11 - profile/survey
1112 -37.95/147.43 G125 - profile/survey
1113 -37.93/147.33 G160 - profile/survey
1108 -38.02/147.23 G26 - profile/survey
1114 -37.88/147.35 G260 - profile/survey
1115 -37.83/147.35 G360 - profile/survey
1109 -38.03/147.33 G37 - profile/survey
1116 -37.82/147.23 G420 - profile/survey
1110 -30.00/147.40 G65 - profile/survey
1111 -37.88/147.50 G70 - profile/survey

East Tasman Plateau
642 -43.89/150.05 E36-23 - piston core
696 -43.89/150.05 E36-23 - piston core
1096 -43.89/150.05 E36-23 - piston core
1106 -43.89/150.05 E36-23 - piston core
1175 -44.26/149.99 FR1/94 GC3 - gravity core

Eighteen Mile Swamp
1271 -27.50/153.50 EMS-89 - core

Esperance district
514 -33.87/121.90 Esperance district - sections
672 -33.97/122.02 off Woody Island, Esperance Bay - transect

Evans Head
316 -29.08/153.38 Evans Head - exposure/auger
548 -28.07/153.45 Evans Head - sample

Exmouth Plateau
560 -19.89/112.25 ODP762B - piston core
564 -19.89/112.25 ODP762B - piston core
1036 -19.89/112.25 ODP762B - piston core
1164 -19.89/112.25 ODP762B - piston core
911 -21.42/112.80 RC11-146 - piston core
805 -19.07/112.75 RC11-147 - piston core
826 -19.07/112.75 RC11-147 - piston core
912 -19.07/112.75 RC11-147 - piston core
1217 -19.07/112.75 RC11-147 - piston core
980 -17.67/117.95 V28-345 - piston core
1204 -17.67/117.95 V28-345 - piston core
1037 -22.73/112.58 V33-65 - piston core

Fern Cave
271 -38.08/141.28 Fern Cave (Lower Glenelg) - sample

Fiji Plateau
1235 -14.52/175.08 RC13-38 - piston core

Flinders Bay Swamp
1049 -34.32/115.15 Flinders Bay Swamp - core

Flinders Ranges
37 -33.68/139.07 Baldina Creek - unspecified
38 -33.87/139.17 Burra Creek - unspecified
35 -32.47/137.70 Dempsey's Lake - unspecified
34 -31.73/138.23 Hookina Creek - unspecified

Fox Cave
1267 0.00/ 0.00 Site 2 - stalactite

Frankcombe Cave
1372 -42.53/146.45 Frankcombe Cave - core

Fremantle
1045 -32.00/115.75 Fremantle Traffic Bridge- Bore #5 - core

Frenchmans Cap National Park
698 0.00/ 0.00 Lake Nancy - core
175 -42.28/145.88 Lake Vera - core
697 -42.28/145.88 Lake Vera - unspecified
757 -42.28/145.88 Lake Vera - review
975 -42.28/145.88 Lake Vera - core
1332 -42.28/145.88 Lake Vera - core

Fresh Dip Lake
1358 -37.26/139.81 Fresh Dip Lake east shore - vibracore

Garden Island
208 -32.17/115.17 Garden Island - faunal survey

Glenelg River
199 -37.77/141.23 Singleton's Outcrop - outcrop

Gormanston
355 -42.07/145.57 Gormanston - section

Great Barrier Reef
681 -19.00/147.50 CSP off Townsville - seismic profile
682 -19.00/147.50 CSP off Townsville - seismic profile
982 -23.50/152.50 off One Tree Island - sample

Great cave of Erith
81 -39.45/147.28 Great cave of Erith - review

Green Waterhole Cave
287 -37.73/140.53 Green Waterhole Cave - excavation
352 -37.73/140.53 Green Waterhole Cave - excavation

Groote Eylandt
1030 -14.00/136.50 Four Mile Billabong- core 89.1 - core

Gulf St Vincent
521 0.00/ 0.00 Inkerman - profile and section

Gulf of Carpentaria
1072 -12.25/141.38 100 B - core
1075 -12.45/141.52 101 D - core
1069 -13.17/141.63 104E - core
1070 -12.72/140.85 117 - core
1073 -12.67/140.57 122 A - core
1071 -12.68/140.00 137 - core
1074 -12.27/139.45 150 E - core
936 0.00/ 0.00 Arafura Sill - cores
1028 -12.30/140.35 Lake Carpentaria - survey
937 -12.57/139.80 core GC-1 - cores
948 -12.57/139.80 core GC-1 - core
70 -13.07/140.19 core GC-10A - core
928 -13.07/140.19 core GC-10A - core
941 -13.07/140.19 core GC-10A - cores
944 -13.60/140.17 core GC-14B - core
71 -12.52/140.35 core GC-2 - core
927 -12.52/140.35 core GC-2 - core
938 -12.52/140.35 core GC-2 - cores
942 -12.52/140.35 core GC-2 - core
1344 -12.52/140.35 core GC-2 - core
945 -14.22/137.22 core GC-28 - core
929 -13.27/138.30 core GC-33 - core
940 -12.55/140.90 core GC-4 - cores
939 -10.65/139.12 core GC-41 - cores
943 -12.52/140.98 core GC-5 - core
946 -11.02/140.25 core GC-69 - core
947 -12.37/141.08 core SPR-1 - core
1062 0.00/ 0.00 undefined cores - piston cores

Henschke cave
265 -36.98/140.75 Henschke cave - cave excavation

Henty Valley
636 -41.95/145.52 Henty Bridge - unspecified
732 -41.95/145.52 Henty Bridge - section
1009 -41.98/145.48 Henty Bridge - section
1011 -41.83/145.52 Langdon River- Lower site - profile
1010 -41.83/145.52 Langdon River- Upper site - profile

Hobson's Bay
189 -37.87/144.92 Hobson's Bay - sample

Houtman Abrolhos Islands
709 -28.92/113.92 "4" Island sample - sample
710 -28.73/113.78 Core 1 Rat Island - core and section
711 -28.73/113.78 Core 2 Roma Island - core and section
712 -28.76/113.82 Core 4 Morley Island - core and section
713 -28.74/113.83 Core 5 Suomi Island - core and section
714 -28.78/113.78 Core 6 Disappearing Island - core
956 -28.78/113.74 Core 7 Graveyard Island - core
704 -28.46/113.73 East Wallabi Island samples - sample
707 -28.98/113.96 Jon Jim Island sample - sample
706 -28.48/113.70 Mangrove Island sample - sample
708 -28.90/113.90 Murray Island sample - sample
705 -28.43/113.73 Turtle Bay sample - sample

Huon Peninsula
689 -6.13/147.48 Blucher - coastal profile
1251 0.00/ 0.00 Gagar Anununai section - section
29 -6.00/147.00 Huon Peninsula - sample
344 -6.00/147.00 Huon Peninsula - sample
685 -6.02/147.42 Kambim - coastal profile
690 -6.17/147.50 Kanzarua - coastal profile
1249 0.00/ 0.00 Kanzarua section - section
688 -6.08/147.47 Kwambu - coastal profile
687 -6.05/147.45 Nama - coastal profile
686 -6.03/147.43 Sambero - coastal profile
1250 0.00/ 0.00 Sialum section - section
684 -6.23/147.70 Tewai - coastal profile

Illawarra Region

1127 -34.34/150.92 Bulli Beach - surface sample
1128 -34.25/150.97 Coledale - surface sample
465 -30.67/150.67 Illawarra Region terraces - exposure
1126 -34.33/150.93 MacCauleys Beach - exposed section
1130 -34.34/150.92 North Bulli Beach - exposure
1125 -34.34/150.92 North Bulli Beach-Slack Creek - exposure
456 -34.94/150.59 Nowra Creek - exposure
460 0.00/ 0.00 Shoalhaven coastal floodplain - exposure
459 -34.83/150.52 Tapitallee Creek - sample/exposure
1196 -34.83/150.52 Tapitallee Creek - exposure
1124 -33.30/150.92 Thirroul Beach - exposure
1129 -33.30/150.92 Thirroul Beach - exposure
461 0.00/ 0.00 site K0 (Nowra Creek) - sample
462 0.00/ 0.00 site K1 (Nowra Creek) - sample
463 0.00/ 0.00 site K2 (Nowra Creek) - sample

King River Valley

1021 -42.08/145.50 Crotty Road - section
1023 -42.17/145.53 King River - section
1007 -42.17/145.65 Regency Site - trench
1006 -42.17/145.63 Smelter Creek - section

Koonalda Cave

283 -31.40/129.83 Koonalda Cave - excavation

Kow Swamp

763 -35.95/144.28 Kow Swamp - pits
798 -35.95/144.28 Kow Swamp - conclusion
768 -36.20/144.30 Kow Swamp - review

Kubla Khan Cave

1373 -41.56/146.28 Kubla Khan Cave - core

Lake Amy

1356 -37.22/139.78 Lake Amy south shore - vibracore

Lake Arumpo

59 -33.77/142.85 Lake Arumpo - exposure

Lake Battye

1354 -37.18/139.79 Lake Battye east shore - slip hammer core

Lake Bonney South

1367 -37.88/140.38 Lake Bonney South 3 south shore - slip hammer core
1368 -37.87/140.38 Lake Bonney South 8 - slip hammer core

Lake Buchanan

110 -21.57/145.83 core BU-1&2 - core
113 -21.57/145.82 core BU-9 - core

Lake Bullenmerri

703 -38.25/143.12 Lake Bullenmerri - core
745 -38.25/143.12 Lake Bullenmerri - review
600 -38.25/143.12 core BK - core

Lake Butler

1349 -37.16/139.75 Lake Butler - slip hammer core

Lake Callabonna

487 -29.82/140.08 Lake Callabonna - sample

Lake Charra

1355 -37.17/139.77 Lake Charra central - vibracore

Lake Eliza

1365 -37.27/139.85 Lake Eliza west shore - slip hammer core

Lake Euramoo

140 -17.17/145.63 Lake Euramoo - review
240 -17.17/145.63 Lake Euramoo - review
739 -17.17/145.63 Lake Euramoo - review
1000 -17.17/145.63 Lake Euramoo - core

Lake Eyre

737 -28.50/137.25 Lake Eyre - review
1097 -28.78/137.62 core 82/2 - core
1098 -28.96/137.72 core 83/3 - core
1099 -29.04/137.63 core 83/6 Williams Point - core and section
15 -28.75/137.67 core LE82/2 - core
64 -28.75/137.67 core LE82/2 - core

Lake Fellmongery

1351 -37.17/139.77 Lake Fellmongery central - vibracore
1350 -37.17/139.77 Lake Fellmongery north shore - vibracore

Lake Frome

546 -30.78/139.77 "theta" Island - section
95 -30.17/139.50 "theta" island - survey and section
12 -35.10/139.58 Balcoracana Creek - exposed section
14 -30.70/139.67 Core LF 82/1-3 - core
13 -30.70/139.67 Core LF 82/1-3, Station 1 - core
101 -30.70/139.67 Core LF 82/2 - core

104	-30.70/139.67	Core LF 82/7 - core
105	-30.70/139.67	Core LF 82/8 - core
66	-30.70/139.67	Core LF82/2 - core
153	-30.00/139.00	Lake Frome - review
610	-30.75/139.75	Lake Frome - sample
635	-30.75/139.75	Lake Frome - review
738	-30.75/139.83	Lake Frome - review
106	-30.25/139.75	Lake Putnamutna - section and sample
98	-30.60/139.78	augur hole 49 - auger
100	-30.60/139.78	augur hole 49 - core
99	-30.70/139.75	augur hole 53 - auger
96	-30.63/139.68	augur hole 60 - auger
97	-30.63/139.65	augur hole 62 - auger
107	-30.25/139.75	west shore - sample
Lake George		
432	-35.00/149.42	Barneys Embankment - soil profile
446	-35.08/149.38	C354 - core
436	-35.22/149.48	East shoreline (35.8m a.l.b.) - soil profile
435	-35.08/149.49	East shoreline (36.2m a.l.b.) - soil profile
393	-34.97/149.43	Fernhill Gully - exposure
571	-34.97/149.43	Fernhill Gully - exposure
431	-34.97/149.42	Fernhill Gully Beach - exposure
565	-34.97/149.43	Fernhill Gully profile FG1 - exposure
566	-34.97/149.43	Fernhill Gully profile FG2 - exposure
567	-34.97/149.43	Fernhill Gully profile FG3 - exposure
568	-34.97/149.43	Fernhill Gully profile FG4 - exposure
569	-34.97/149.43	Fernhill Gully profile FG5 - exposure
570	-34.97/149.43	Fernhill Gully profile FG6 - exposure
539	-35.10/149.37	Geary's Gap - exposure
143	-35.08/149.42	Lake George - review
372	-35.08/149.42	Lake George - conclusions
678	-35.08/149.42	Lake George - review
736	-35.08/149.42	Lake George - review
444	-35.13/149.42	Locality A between Red Hill and Governors Hill - exposure
445	-35.17/149.48	Locality B gully in Deep Creek basin - section
391	-34.98/149.40	Lowest ridges of Vault and Woolshed Distal Embankment site S - soil profile
392	-34.98/149.40	Lowest ridges of Vault and Woolshed Distal Embankment site T - soil profile
433	-35.03/149.43	Ondyong Point Beaches - soil profile
505	-35.03/149.49	Prairie Sand - surface sample
395	-34.94/149.40	Sheridan Fan - surface sample
440	-35.28/149.43	South shoreline (34.3m a.l.b.) - soil profile
439	-35.27/149.45	South shoreline (36.5m a.l.b.) - soil profile
441	-35.28/149.41	South shoreline (36.7m a.l.b.) - soil profile
437	-35.23/149.45	South shoreline (37.0m a.l.b.) - soil profile
438	-35.25/149.44	South shoreline (39.1m a.l.b.) - soil profile
434	-35.24/149.42	Turalla Embankment - soil profile
398	-34.98/149.59	Vault Embankment - soil profile
390	-34.98/149.41	Vault Embankment (upper ridge) site R - soil profile
415	-34.94/149.40	Winderadeen Embankment E1 - soil profile
424	-34.94/149.40	Winderadeen Embankment E10 - soil profile
425	-34.94/149.40	Winderadeen Embankment E11 - soil profile
426	-34.94/149.40	Winderadeen Embankment E12 - soil profile
427	-34.94/149.42	Winderadeen Embankment E13 - soil profile
428	-34.94/149.43	Winderadeen Embankment E14 - soil profile
429	-34.93/149.42	Winderadeen Embankment E15 - soil profile
430	-34.59/149.40	Winderadeen Embankment E16 - soil profile
416	-34.94/149.40	Winderadeen Embankment E2 - soil profile
417	-34.93/149.40	Winderadeen Embankment E3 - soil profile
418	-34.94/149.40	Winderadeen Embankment E4 - soil profile
419	-34.93/149.40	Winderadeen Embankment E5 - soil profile
420	-34.95/149.40	Winderadeen Embankment E6 - soil profile
421	-34.93/144.41	Winderadeen Embankment E7 - soil profile
422	-34.93/149.41	Winderadeen Embankment E8 - soil profile
423	-34.94/149.40	Winderadeen Embankment E9 - soil profile
374	-34.93/149.40	Winderadeen Embankment site A - soil profile
375	-31.93/149.41	Winderadeen Embankment site B - soil profile
376	-34.93/149.41	Winderadeen Embankment site C - soil profile
377	-34.93/149.40	Winderadeen Embankment site D - soil profile
378	-34.93/149.41	Winderadeen Embankment site E - soil profile
379	-34.93/149.41	Winderadeen Embankment site F - soil profile
394	-34.97/149.40	Winderadeen embankment - soil profile
387	-34.94/149.40	Wire Beach site O - soil profile
388	-35.00/149.84	Wire Beach site P - soil profile

389 -34.98/149.38 Wire Beach site Q - soil profile
 399 0.00/ 0.00 Wire Beaches - soil profile
 397 -34.98/149.39 Woolshed Distal Embankment - soil profile
 384 -34.98/149.39 Woolshed Distal Embankment site L - soil profile
 385 -34.98/149.39 Woolshed Distal Embankment site M - soil profile
 386 -34.98/149.39 Woolshed Distal Embankment site N - soil profile
 400 -34.99/149.38 Woolshed Embankment S1 - soil profile
 409 -34.98/149.39 Woolshed Embankment S10 - soil profile
 410 -34.98/149.39 Woolshed Embankment S11 - soil profile
 411 -34.95/149.41 Woolshed Embankment S12 - soil profile
 412 -34.95/149.41 Woolshed Embankment S13 - soil profile
 413 -34.98/149.39 Woolshed Embankment S14 - soil profile
 414 -34.98/149.38 Woolshed Embankment S15 - soil profile
 401 -34.93/149.58 Woolshed Embankment S2 - soil profile
 402 -34.98/149.38 Woolshed Embankment S3 - soil profile
 403 -34.98/149.38 Woolshed Embankment S4 - soil profile
 404 -34.98/149.38 Woolshed Embankment S5 - soil profile
 405 -34.98/149.17 Woolshed Embankment S6 - soil profile
 406 -34.97/149.39 Woolshed Embankment S7 - soil profile
 407 -34.98/149.39 Woolshed Embankment S8 - soil profile
 408 -34.98/149.40 Woolshed Embankment S9 - soil profile
 396 -34.98/149.42 Woolshed Proximal Embankment - soil profile
 380 -34.98/149.48 Woolshed Proximal Embankment site G - soil profile
 381 -34.97/149.48 Woolshed Proximal Embankment site H - soil profile
 382 -34.98/149.48 Woolshed Proximal Embankment site J - soil profile
 383 -34.75/149.48 Woolshed Proximal Embankment site K - soil profile
 447 -35.08/149.38 core C354 - core
 448 -35.08/149.38 core C354 - core
 1376 -35.02/149.40 core LG2 + LG1, LG3 - cores
 144 -35.08/149.42 core LG2 + pit - core
 115 -35.08/149.42 core LG4 - core
 154 -35.08/149.42 core LG4 - review
 155 -35.08/149.42 core LG4 - review
 156 -35.08/149.42 core LG4 - review
 157 -35.08/149.42 core LG4 - review
 244 -35.08/149.42 core LG4 - review
 145 -35.08/149.42 cores LG1-4, BMR Scout Hole No. 4 - core
 443 -34.98/149.42 gravel pit at north adj Federal Hwy - sample
 502 -34.97/149.40 gravel pit at north end of Lake George - exposure
 369 -34.98/149.42 gravel pit in 13 m beach ridge at north end - pit
Lake George South
 1366 -37.49/140.02 Lake George South 5 - slip hammer core
Lake Gnotuk
 601 -38.22/143.10 Core GH - core
 746 -38.23/143.10 Lake Gnotuk - review
Lake Grace
 758 -33.30/118.40 Lake Grace - review
 515 -33.30/118.40 Lake Grace area - sections
Lake Gregory
 647 -20.17/127.40 Lake Gregory - review
 31 -20.17/127.40 Lake Gregory Shoreline ridge - sample
Lake Keilambete
 19 -38.20/142.88 Core K4 - core
 28 -38.20/142.88 Core K4 - core
 603 -38.22/142.88 Core KG - core
 602 -38.22/142.88 Core KIC - core
 87 -38.22/142.88 Core KN - core
 1273 -38.22/142.88 Core KN - core
 1274 -38.22/142.88 Core KN - sample
 740 -38.22/142.88 Lake Keilambete - cores/exposed sectn
 630 -38.22/142.88 Lake shore outcrop - sample
 632 -38.22/142.88 Lake shore outcrop - exposure
 137 -38.22/142.88 two cores - core
Lake King
 770 -33.08/119.53 Lake King - review
Lake Leake
 1033 -37.65/140.58 Core LE - core
 222 -37.65/140.58 Lake Leake - review
 644 -37.65/140.58 Lake Leake - review
 701 -37.65/140.58 Lake Leake - core
 742 -37.62/140.57 Lake Leake - review
 788 -37.65/140.58 Lake Leake- Core LE - core
 627 -37.65/140.58 Lake Leake- Core LN - core
Lake Mungo
 133 0.00/ 0.00 Lake Garnpung southern shore - sample

65	-33.77/143.10	Lake Mungo - exposed section
512	-33.63/142.97	Lake Mungo - core and section
623	-33.63/142.97	Lake Mungo - sample
631	-33.63/142.97	Lake Mungo - review
648	-33.63/142.97	Lake Mungo - review
1256	0.00/ 0.00	fireplace F12 - sample, excavation
1252	0.00/ 0.00	fireplace F6 - sample, excavation
1324	0.00/ 0.00	fireplace F6 - sample
1253	0.00/ 0.00	fireplace F7 - sample, excavation
1325	0.00/ 0.00	fireplace F7 - sample
1254	0.00/ 0.00	fireplace F8 - sample, excavation
1326	0.00/ 0.00	fireplace F8 - sample
1255	0.00/ 0.00	fireplace F9 - sample, excavation
1327	0.00/ 0.00	fireplace F9 - sample
60	-33.80/142.90	nr Mungo Sta. homestead - soil profile
354	-33.63/143.00	sandy ridge near northernmost end of Lake Mungo lunette - surface excavation
Lake Nulchara		
500	0.00/ 0.00	Lake Nulchara lunette - trench and auger
Lake Nunan		
1353	-37.17/139.78	Lake Nunan south shore - slip hammer core
Lake Purumbete		
604	-38.28/143.23	Core PC - core
Lake Robe		
1364	-37.22/139.80	Lake Robe central - vibracore
1362	-37.21/139.80	Lake Robe east - vibracore
Lake St. Clair		
1363	-37.32/139.88	Lake St. Clair 1 west shore - slip hammer core
Lake Tandou		
61	-32.67/142.08	Lake Tandou - sample
Lake Terang		
221	-38.25/142.90	Lake Terang - review
Lake Tiberias		
179	-42.42/147.37	Lake Tiberias - core
700	-42.42/147.37	Lake Tiberias - unspecified
721	-42.42/147.37	Lake Tiberias - core
743	-42.42/147.37	Lake Tiberias - review
781	-42.42/147.37	Lake Tiberias - unspecified
976	-42.42/147.37	Lake Tiberias - core
Lake Torrens Region		
1052	-32.20/137.92	Depot Creek Fan - exposure
1053	-31.73/138.23	Hookina Creek - exposure
1054	-31.17/138.23	Motpena - exposure
1055	-30.47/138.03	Myrtle Springs - unspecified
1056	-32.22/137.87	Nacoona - exposure
1059	-31.00/138.20	Nilpena - unspecified
1057	-32.50/137.78	Port Augusta - unspecified
1058	-32.15/137.88	Wilkatana Fan - exposure
Lake Tyrrell		
358	-35.27/142.83	Core FP1 - core
359	-35.27/142.83	Core FP3 - core
525	-35.28/142.83	Core MDC - core
612	-35.33/142.78	Lake Tyrrell - sample
634	-35.33/142.78	Lake Tyrrell - review
741	-35.33/142.78	Lake Tyrrell - review
346	-35.28/142.77	Lake Tyrrell (western cliff section) - section & core
345	-35.28/142.83	MDC - core
17	-35.35/143.83	Site 1 - core
18	-35.28/143.82	Site 2 - core
16	-35.28/143.82	core LT2/92 - core
Lake Victoria		
744	-34.00/141.28	Lake Victoria - review
509	-34.00/141.28	lunette - profile and section
Lake Wangoom		
218	-38.35/142.60	Lake Wangoom - review
1346	-38.35/142.60	Lake Wangoom - core
Lake Wanum		
773	-6.63/146.78	Lake Wanum - review
Lake Woods		
646	-17.62/133.42	Lake Woods - review
30	-17.62/133.42	Lake Woods Shoreline - sample
Lake Wooley		
1361	-37.47/140.00	Lake Wooley 3 east - slip hammer core
Lancefield Swamp		
718	-37.27/144.73	Lancefield Swamp - core

Langdon River
94 -41.97/145.53 Langdon River- Lower site - exposure
93 -41.97/145.53 Langdon River- Upper site - exposure

Largs
85 -32.70/151.60 Largs raised beach terrace remnant - pits
332 -32.70/151.60 Pit 1 - pit
86 -32.70/151.60 Pit 2 - pit

Latrobe valley
216 -38.25/146.33 Hazelwood - review
217 -38.25/146.42 Morwell Fireholes - core

Linda Valley
1008 0.00/ 0.00 Linda Creek - section

Little Trimmer Cave
1374 -41.57/146.23 Little Trimmer Cave - core

Locatus Nebulus
1081 -28.63/114.60 Buller River-site C - section
1082 -28.64/114.61 Buller River-site D - section
1083 -28.78/114.69 Chapman River - section
1087 -28.77/114.71 Chapman River-site 2 - section
1076 -22.50/114.50 Exmouth Gulf region - exposed section
1077 -29.25/114.67 Geraldton area - exposed section
1086 -28.64/114.61 Lower Buller River-site 1 - section
1084 -28.52/114.56 Oakabella River - section
1088 -28.51/114.57 Oakabella River- site 3 - section
1089 -28.50/114.58 Oakabella River- site 4 - section
1079 -28.53/114.55 Oakabella River-site A - section
1080 -28.58/114.57 Oakajee River-site B - section

Lofly Ranges
36 -34.92/138.58 Adelaide area - unspecified
40 -33.08/139.08 Collinsville - unspecified

Lord Howe Island
1185 -31.52/159.07 Embayment east of Neds Beach (Searles Point) - section
1190 -31.52/159.06 LV10, Old Settlement Beach - core
1184 -31.52/159.07 Southeast Neds Beach - section
1193 -31.52/159.04 basalt bench, North Beach - exposure
1186 -31.52/159.04 boulder ridge, North Beach - exposure
1191 -31.52/159.04 conglomerate pedestal, North Beach - exposure
1189 -31.52/159.06 creek bank, Old Settlement Beach - exposure
1192 -31.53/159.06 lagoonal calcarenite near Signal Point - exposure
1188 -31.52/159.06 modern foredune, Old Settlement Beach - surface sample
1187 -31.52/159.04 reef borehole, North Beach - core

Lord Howe Rise
785 -32.98/160.00 C1/86 6GC3 - gravity core
553 -30.11/161.23 DSDP 588 - piston core
935 -26.11/161.23 DSDP 588 - piston core
1092 -26.11/161.23 DSDP 588 - piston core
1102 -26.11/161.23 DSDP 588 - piston core
1158 -26.11/161.23 DSDP 588 - piston core
554 -31.17/163.36 DSDP 590 - piston core
934 -31.17/163.36 DSDP 590 - piston core
638 -31.58/164.45 DSDP 591A - piston core
933 -31.58/164.45 DSDP 591A - piston core
1093 -31.58/164.45 DSDP 591A - piston core
1103 -31.58/164.45 DSDP 591A - piston core
1159 -31.58/164.45 DSDP 591A - piston core
555 -36.47/165.44 DSDP 592 - piston core
931 -36.47/165.44 DSDP 592 - piston core
1094 -36.47/165.44 DSDP 592 - piston core
1104 -36.47/165.44 DSDP 592 - piston core
1160 -36.47/165.44 DSDP 592 - piston core
670 -25.88/157.87 RC12-109 - piston core
1222 -25.88/157.87 RC12-109 - piston core
784 -30.55/161.44 SO36-61 - gravity core
1179 -30.55/161.44 SO36-61 - piston core
557 -33.38/161.61 Z2108 - piston core
833 -33.38/161.61 Z2108 - piston core
835 -33.38/161.61 Z2108 - piston core
925 -33.38/161.61 Z2108 - piston core
932 -33.38/161.61 Z2108 - piston core
1162 -33.38/161.61 Z2108 - piston core
1221 -33.38/161.61 Z2108 - piston core

Louisa Creek
1272 -24.87/147.18 pollen sequence - exposure

Lower Darling Lake system
680 0.00/ 0.00 Goulburn River Site B - exposed section

325	-32.00/141.50	Talyawalka, Menindee, Anabranch Lakes - review
258	-32.00/141.00	Willandra, Menindee Lakes - surface excavation
326	-32.00/141.00	Willandra, Menindee Lakes - review
327	-32.00/141.00	Willandra, Menindee Lakes - review
328	-32.00/141.00	Willandra, Menindee Lakes - review
329	-32.00/141.00	Willandra, Menindee Lakes - review
Lynch's Crater		
41	-17.37/145.70	Lynch's Crater - review
42	-17.37/145.70	Lynch's Crater - review
139	-17.37/145.70	Lynch's Crater - core
141	-17.37/145.70	Lynch's Crater - core
142	-17.37/145.70	Lynch's Crater - core
150	-17.37/145.70	Lynch's Crater - review
151	-17.37/145.70	Lynch's Crater - review
152	-17.37/145.70	Lynch's Crater - review
180	-17.37/145.70	Lynch's Crater - review
751	-17.37/145.70	Lynch's Crater - review
1044	-17.37/145.70	Lynch's Crater - core
1375	-17.37/145.70	Lynch's Crater - core
Mabel Cave		
290	-37.50/148.25	Mabel Cave - excavation
Mackintosh Valley		
1026	-41.68/145.65	Tullabarine Dam- location A - trench
1012	-41.68/145.65	Tullabarine Dam- location B - exposure
1027	-41.68/145.65	Tullabarine Dam- location B - trench
Macquarie Island		
194	-54.58/158.92	Macquarie Island - sample
Madura Cave		
284	-31.93/126.97	Madura Cave - excavation
Magnetic Island		
551	-19.13/146.83	Balding Bay - short core
Mammoth Cave		
249	-34.07/115.02	Mammoth Cave - cave excavation
251	-34.07/115.02	Mammoth Cave - excavation
Marshes Swamp		
984	-37.62/140.52	Blue Tea Tree Swamp - core
761	-37.62/140.53	Marshes Swamp - review
983	-37.60/140.32	Mt Burr Swamp- core site C - core
McEacherns cave		
79	-37.99/141.00	McEacherns cave - review
Mersey Valley		
1337	-41.72/146.23	Dublin Bog - core and section
1014	-41.72/146.23	Dublin Bog- core 8 - core
Middle Island		
207	-34.08/122.17	Middle Island - faunal survey
Mondrain Island		
206	-34.20/122.25	Mondrain Island - faunal survey
Moreton Bay		
193	-27.25/153.25	Moreton Bay - sample
Mount Field National Park		
176	-42.68/146.64	Beatties Tarn - core
755	-42.68/146.64	Beatties Tarn - review
973	-42.68/146.64	Beatties Tarn - core
177	-42.68/146.59	Eagle Tarn - core
694	-42.68/146.59	Eagle Tarn - unspecified
756	-42.68/146.59	Eagle Tarn - review
974	-42.68/146.59	Eagle Tarn - core
1331	-42.68/146.59	Eagle Tarn - core
695	-42.67/146.50	Tarn Shelf - core
972	-42.67/146.50	Tarn Shelf - core
Mowbray Swamp		
1016	-40.85/145.07	Mella pollen site - section and samples
1017	-40.85/145.07	Mella spring mound - section and sample
132	-40.85/145.07	Mowbray Swamp - core
626	-40.85/145.07	Mowbray Swamp - exposure
639	-40.92/145.08	Mowbray Swamp - unspecified
652	-40.85/145.07	Mowbray Swamp - core
693	-40.92/145.08	Mowbray Swamp - unspecified
779	-40.85/145.07	Mowbray Swamp - unspecified
Mt Buffalo Plateau		
1282	0.00/ 0.00	Bunyip Bog core - core
Mt Gambier		
762	-37.85/140.77	Valley Lake - review
Mt Hamilton Lava Caves		
268	-37.78/142.98	Mt Hamilton Lava Caves - samples

Mt Lofty Ranges

1022 -34.92/139.17 Gorge Creek - exposed section

Mt Wilhelm

959 -5.78/145.03 Brass Tarn - core
 158 -5.65/144.18 Draepi - review
 164 -5.65/144.18 Draepi-Wahgi - review
 236 -5.65/144.18 Draepi-Wahgi - review
 666 -5.65/144.18 Draepi-Wahgi - review
 961 -5.80/145.05 Imbuka Bog - core
 160 -5.80/145.07 Komanimambuno - review
 170 -5.80/145.07 Komanimambuno - review
 321 -5.80/145.08 Komanimambuno - review
 322 -5.80/145.08 Komanimambuno - review
 965 0.00/ 0.00 Komanimambuno - core
 963 0.00/ 0.00 Lake Badmenengidongwa - core
 962 0.00/ 0.00 Pengagl Mire - core
 960 -5.77/145.02 Summit Bog - core
 665 -4.93/141.02 Yakas Tarn - review
 964 0.00/ 0.00 lower Pindaude Lake - core

Mt. Eccles

270 -38.07/141.93 'Natural Bridge' - sample

Murray Mallee

1 -35.00/140.50 Billiatt - section
 347 -33.97/140.93 Chowilla - section
 511 0.00/ 0.00 Colignan - sections
 765 -35.75/141.97 Lake Albacutya - review
 519 -34.48/140.07 Maggea - profile and section
 3 -35.07/140.48 Mallee Hills - exposed section
 2 -34.83/140.18 Mindarie - section
 520 -34.83/140.18 Mindarie - profile and section
 506 -34.83/140.18 Mindarie locality 1 - sample
 507 -34.83/140.18 Mindarie locality 2 - sample
 508 -34.83/140.18 Mindarie locality 3 - sample
 504 -34.83/140.18 Mindarie locality 4 - sample
 4 -34.95/140.88 Noora - section

Myalup Swamp

771 -33.12/115.72 Myalup Swamp - review
 1046 -33.12/115.72 Myalup Swamp - core

N.E. Tasmania

1064 0.00/ 0.00 Ainslie Sand Dunes - survey
 654 -41.00/147.75 Coastal N.E. Tasmania - exposure
 1063 -41.12/147.62 Little Waterhouse Lake - section
 683 -40.88/148.03 Rushy Lagoon - unspecified
 783 -40.88/148.03 Rushy Lagoon - unspecified
 1067 -41.22/148.00 Three Mile Hill - unspecified
 1065 -41.10/147.83 Tobacco Hill-transect - sample and transect
 1066 -41.10/147.65 Waterhouse - survey
 1068 -40.82/147.83 Waterhouse Sand - survey

Nannup Cave

253 -34.15/115.07 Nannup Cave - excavation

Naturaliste Plateau

181 -31.50/114.38 A136 G - gravity core
 182 -31.75/113.93 A137 G - gravity core
 1040 -33.62/113.58 E45-102 - piston core
 1173 -36.66/110.11 E55-29 - piston core
 906 -33.07/110.55 RC11-134 - piston core
 907 -33.80/112.98 RC11-138 - piston core
 908 -33.80/112.98 RC11-139 - piston core

New Caledonia Basin

1219 -33.53/166.53 OPR476-223 - core
 662 -24.88/163.52 RC12-113 - piston core
 1091 -24.88/163.52 RC12-113 - piston core
 1101 -24.88/163.52 RC12-113 - piston core
 1177 -24.88/163.52 RC12-113 - piston core
 898 -33.23/168.73 RC9-126 - piston core
 1218 -33.23/168.73 RC9-126 - piston core
 1220 -33.23/168.73 RC9-126 - piston core

Newcastle Bight

549 -33.75/151.22 Newcastle Bight - excavation

Ninetyeast Ridge

1198 -10.92/ 88.32 RC14-29 - piston core
 1203 -10.92/ 88.32 RC14-29 - piston core
 1197 -.83/ 89.95 RC14-35 - piston core
 1202 -.83/ 89.95 RC14-35 - piston core

Norfolk Ridge

1200 -26.00/169.19 RC12-107 - piston core
1206 -26.00/169.19 RC12-107 - piston core
1237 -26.00/169.19 RC12-107 - piston core
1199 -28.75/172.60 RC9-124 - piston core
1205 -28.75/172.60 RC9-124 - piston core
1238 0.00/ 0.00 RC9-124 - piston core

North Twin Peaks Island

202 -33.98/122.82 North Twin Peaks Island - faunal survey

North central Eyre Peninsula

1243 -33.17/135.97 C.5-1 - section
1244 -33.42/136.37 C.5-2 - section
1245 -33.45/136.38 C.5-3 - section
1246 -33.63/136.05 C.5-4 - section

Northern Strzelecki Dunefield

63 -28.17/140.67 Della 4 - sample
9 -28.12/140.55 Della 5 - section
10 -28.02/140.20 Dog Bite Lake - exposed section
11 -27.97/140.20 Gidgealpa palaeochannels - pit
5 -28.67/139.83 JSN - section
67 -28.68/139.77 JSN - unspecified
6 -28.23/140.22 Lark Pit - pit
26 -28.28/140.33 Lark Pit - pit
7 -28.13/140.22 M1 - pit
8 -28.03/140.10 M3 - pit
108 -28.28/140.33 strat site 4 - sample

Nullarbor

733 -31.58/129.17 Eucla rockshelter - cave excavation
717 0.00/ 0.00 N145 Cave - cave excavation
791 0.00/ 0.00 Nullarbor - excavation

Papua New Guinea (montane)

149 -5.65/144.18 Draepi - review
951 -4.08/137.12 Ertzberg - section
968 -4.08/137.12 Ertzberg - exposure/section
237 -4.03/137.22 Ijomba - review
663 -4.03/137.22 Ijomba - review
950 -4.03/137.22 Ijomba - core
967 -4.03/137.22 Ijomba (Discovery Valley) - core/auger
971 0.00/ 0.00 Kemabu Plateau - survey
159 -8.55/147.20 Kosipe - review
166 -8.47/147.20 Kosipe - review
172 -8.47/147.20 Kosipe - review
238 -8.55/147.20 Kosipe - review
669 -8.47/147.20 Kosipe - review
165 -8.38/147.37 Laravita - review
171 -8.38/147.37 Laravita - review
966 0.00/ 0.00 Mt Giluwe - sample
1322 -6.03/144.12 Mt Giluwe - survey
949 -4.08/137.17 Mt Jaya (Otomona Valley) - sample
146 0.00/ 0.00 Mt. Carstenz and Mt Wilhelm - review
167 0.00/ 0.00 Mt. Carstenz and Mt Wilhelm - review
969 -4.13/137.08 Otomona Valley - exposure
958 0.00/ 0.00 Saruwaged Mts - survey
668 -5.40/143.42 Sirunki - review
148 -5.42/143.42 Sirunki-Inim - review
169 -5.40/143.42 Sirunki-Inim - review
235 -5.40/143.42 Sirunki-Inim - review
667 -5.40/143.42 Sirunki-Inim - review
33 -5.85/142.87 Tari - review
234 -5.18/141.63 Telefomin - review
664 -5.18/141.63 Telefomin - review
168 -4.93/141.02 Yakas Tarn - review
952 -4.08/137.15 Yellow Valley - exposure
970 -4.08/137.15 Yellow Valley - survey/exposure

Pipe Clay Lagoon

39 -42.92/147.57 Pipe Clay Lagoon - exposed section
641 -42.93/147.50 Pipe Clay Lagoon - unspecified

Poets Hill Lake

1333 -41.88/145.55 core 1 - core
1334 -41.88/145.55 core 1 - core
1336 -41.88/145.55 core 1 - core
1335 -41.88/145.55 core 2 - core

Pool of Siloam

1371 -37.48/140.00 Pool of Siloam central - slip hammer core
1360 -37.49/140.00 Pool of Siloam southeast shore - slip hammer core

Popilta Lake		
513 -33.13/141.72	Popilta Lake lunette - sections	
Port Augusta		
522 -32.50/137.78	Port Augusta - profile and section	
Port Fairy		
196 -38.38/142.23	Port Fairy - sample	
Pub Lake		
1352 -37.17/139.78	Pub Lake north shore - vibracore	
Pulbeena Swamp		
353 -40.83/145.12	Pulbeena Limeworks - trench	
131 -40.83/145.12	Pulbeena Swamp - core	
501 -40.83/145.12	Pulbeena Swamp - exposure	
625 -40.88/145.17	Pulbeena Swamp - excavation	
637 -40.88/145.17	Pulbeena Swamp - unspecified	
651 -40.88/145.17	Pulbeena Swamp - core	
692 -40.88/145.17	Pulbeena Swamp - unspecified	
748 -40.89/145.12	Pulbeena Swamp - review	
777 -40.88/145.17	Pulbeena Swamp - unspecified	
1019 -40.88/145.17	Pulbeena Swamp - review	
1338 0.00/ 0.00	deep section in centre of swamp - trench	
Pyramids Cave		
73 -37.45/148.20	Pyramids Cave - review	
292 -37.45/148.20	Pyramids Cave - excavation	
1257 0.00/ 0.00	Pyramids Cave - samples	
1258 -37.45/148.20	Pyramids Cave - excavation	
Queenscliff		
188 -38.27/144.13	Queenscliff - excavation	
Quincan Crater		
241 -17.30/145.58	Quincan Crater - review	
752 -17.30/145.58	Quincan Crater - review	
Remarkable Cave		
1328 -43.18/147.82	cave section - exposed section	
1329 -43.18/147.82	seaward section - exposed section	
Richmond River valley embayment		
317 -29.00/153.25	Richmond River valley embayment - unspecified	
Riverine Plain		
122 -36.03/144.90	Barmah Sandhills (Moama 135103) - exposure	
119 -36.03/144.97	Barmah Sandhills (Moama 136104) - exposure	
128 -35.08/145.78	Bundure Pit - pit	
124 -35.70/144.90	Deniliquin 110482 - exposure	
123 -34.90/145.90	Galah Vale Pit - pit	
622 0.00/ 0.00	Goulburn River - sample	
633 0.00/ 0.00	Goulburn River - review	
679 0.00/ 0.00	Goulburn River Site A - exposed section	
125 -35.95/144.78	Goulburn Tributary terrace - exposure	
117 -35.88/144.58	Green Gully Terrace - exposure	
118 -35.72/144.45	Green Point Bar - excavation	
116 -34.55/144.83	Hay Pit - pit	
129 -34.63/145.85	Kerarbury Pit - pit	
121 -36.13/145.10	Kotupna channel (McCoy Pit) - pit	
120 -36.13/145.10	Kotupna source - exposure	
68 -34.95/145.95	Kulki Pit - pit	
126 -36.15/144.93	Little Kanyapella lunette - exposure	
130 -34.72/145.95	McGrath Pit - pit	
27 -35.18/143.33	Nyah West - exposed section	
127 -35.93/145.32	Strathmerton 471229 - exposure	
1278 -36.08/144.35	Vic. allot. No. 163, Par. Kanyapella - sample/section	
1276 -36.02/144.97	Vic. allot. No. 19, Par. Barmah - sample	
1281 -36.08/144.97	Vic. allot. No. 2, Par. Moira - sample	
1280 -36.28/144.78	Vic. allot. No. 40, Par. Echuca South - sample	
1275 -36.45/145.37	Vic. allot. No. 60, Par. Kialla - sample/section	
1277 -36.45/144.35	Vic. allot. No. 74, Par. Kialla - sample/section	
1279 -36.15/145.12	gravel pit, Par. Kotupna - sample	
Rocky Cape		
109 -40.88/145.50	Quarry 1 - excavation	
173 -40.88/145.50	Quarry 2 - excavation	
174 -40.88/145.50	Quarry 3 - excavation	
Rocky River		
77 -35.92/136.78	Rocky River - core and excavation	
Rosebery		
92 -41.77/145.55	Rosebery (open cut mine) - section	
Rottnest Island		
209 -32.00/115.50	Rottnest Island - faunal survey	
Salisbury Island		
203 -34.37/123.55	Salisbury Island - faunal survey	

Samphire Flat
1247 -33.45/135.47 C.6-1 - section
1248 -33.45/135.68 C.6-2 - section

Scott Plateau
1035 -14.10/120.50 V28-342 - piston core
1180 -14.10/120.50 V28-342 - piston core
1201 -14.10/120.50 V28-342 - piston core

Scott River Swamp
1050 -34.30/115.28 Scott River Swamp - core

Seton Rockshelter
76 -35.98/137.05 Seton Rockshelter - review
78 -35.98/137.05 Seton Rockshelter - review
545 -35.98/137.05 Seton Rockshelter - cave excavation

Shark Bay district
294 -24.00/113.00 Shark Bay district - samples

Skene Street Cave
272 -38.38/142.50 Skene Street Cave - sample

Skull Cave
280 -34.28/115.10 Skull Cave - excavation
227 -34.28/115.10 Trenches A and B - cave excavation

Sleaford Mere
518 -34.87/135.72 C.7-1-1 - section
1241 -34.87/135.72 C.7-1-2 - section

Smoky Bay
25 -32.37/133.93 Smoky Bay - core

Snake Lake
1370 -37.89/140.38 Snake Lake central - slip hammer core

Snowy Mountains
596 0.00/ 0.00 'Lake Andrews' - survey
593 0.00/ 0.00 'Whites River Moraine' - survey
735 -36.42/148.32 Blue Lake - core
52 -36.42/148.32 Blue Lake cirque (Mt Twynam) (site 11) - sample
528 0.00/ 0.00 Bolton Hill (upper slopes) - profile
53 -36.42/148.30 Carruthers Creek (site 6) - sample
55 -36.42/148.28 Club Lake (site 2) - sample
574 -36.43/148.36 David Moraine - survey
57 -36.23/148.53 Digger's Creek (Snowy Plains) - sample
526 -36.08/148.40 Farm Ridge (northern end) - profile
592 -36.28/148.43 Finn's River and Windy Creek - survey
45 -36.27/148.33 Geehi - sample
58 -35.52/148.78 Ginini Bog (Brindabella Range) - sample
576 -36.27/148.28 Grey Mare Range (2 depressions) - survey
54 -36.42/148.28 Head of Carruthers Creek (site 7) - sample
44 -36.32/148.48 Island Bend - sample
578 -31.82/151.55 Kangaroo Range (GR 276998) - survey
1339 -36.42/148.28 Lee-Northcote Ridge - Site I - survey & excavation
1340 -36.42/148.28 Lee-Northcote Ridge - Site II - survey & excavation
1341 -36.43/148.28 Mount Northcote - Site III - survey & excavation
1342 -36.43/148.28 Mount Northcote - Site IV - survey & excavation
598 -36.43/148.28 Mt Clarke (slopes) - survey
368 -36.44/148.28 Mt Kosciusko (quarry 1 mile northeast) - exposure
56 -36.43/148.28 Mt Northcote - sample
49 -36.40/148.32 Mt Twynam NE cirque (site 12) - sample
50 -36.40/148.32 Mt Twynam NE cirque (site 13) - sample
51 -36.40/148.30 Mt Twynam SW cirque (sites 8, 9, 10) - sample
43 -36.35/148.42 Munyang - sample
46 -36.35/148.42 Munyang (site 4) - sample
48 -36.40/148.42 Perisher Valley (Perisher Creek site 5) - sample
595 -36.47/148.33 Ramshead Range minor valley heads - survey
527 -36.07/149.45 Rough Creek (valley head) - profile
371 -35.75/148.65 Tantangara dam - exposure
594 0.00/ 0.00 Taylor's Bog - survey
734 -36.39/148.32 Twynam Cirque - profile
47 -36.45/148.30 Upper Snowy River (tributary creek site 3) - sample
510 -36.33/148.83 Wullwye Creek (Berridale) - sample
579 -36.46/148.27 cirque 1 (Cootapatamba) - survey
588 -36.41/148.30 cirque 10 (Carruthers) - survey
589 -36.42/148.32 cirque 11 (Blue Lake) - survey
590 -36.39/148.31 cirque 12 (Upper Blue Lake) - survey
591 -36.39/148.32 cirque 13 (Twynam) - survey
580 -36.45/148.28 cirque 2 - survey
581 -36.45/148.28 cirque 3 - survey
582 -36.43/148.25 cirque 4 (Wilkinsons) - survey
583 -36.43/148.27 cirque 5 - survey
584 -36.42/148.28 cirque 6 (Albina) - survey

585 -36.42/148.28 cirque 7 (Mawson) - survey
 586 -36.43/148.30 cirque 8 (Clarke) - survey
 587 -36.41/148.29 cirque 9 (Club Lake) - survey
 577 -36.40/148.39 east side of The Back Perisher (GR 349060) - survey
 597 -36.30/148.50 exposure 1mile NE island bend - exposure
 575 -36.36/148.36 hollow (lee side Tate East Range) - survey
 573 0.00/ 0.00 valley head (GR 3507) - survey
South Australian continental slope
 1240 -45.07/147.23 E27-30 - piston core
 1174 -38.85/141.06 E55-6 - piston core
 1239 -38.85/141.06 E55-6 - piston core
 894 -36.75/120.90 RC8-60 - piston core
 730 -38.47/140.17 RS67-GC13 - gravity core
 728 -38.33/140.18 RS67-GC16 - gravity core
 723 -38.65/141.19 RS67-GC27 - gravity core
 727 -37.55/138.58 RS67-GC3 - gravity core
 726 -41.18/143.96 RS67-GC52 - gravity core
 724 -41.39/144.23 RS78-GC18 - gravity core
 720 -42.31/144.67 SO36-7SL - gravity core
 731 -42.31/144.67 SO36-7SL - gravity core
 725 -42.05/144.59 SO36-SL17 - gravity core
 729 -38.57/140.62 V18-222 - piston core
 920 -38.57/140.62 V18-222 - piston core
 1234 -38.57/140.62 V18-222 - piston core
South Fiji Basin
 1236 -26.00/179.73 RC12-103 - piston core
South Tasman Rise
 1166 -45.07/147.23 E27-30 - piston core
Southern Ocean
 837 -52.94/116.99 E35-15 - piston core
 836 -48.97/128.07 E35-7 - piston core
 838 -58.09/150.24 E36-14 - piston core
 839 -60.39/157.53 E36-36 - piston core
 840 -45.01/125.98 E39-13 - piston core
 841 -48.86/126.02 E39-21 - piston core
 842 -51.12/126.18 E39-23 - piston core
 843 -55.10/126.07 E39-29 - piston core
 844 -53.04/119.74 E44-27 - piston core
 845 -41.77/105.02 E45-26 - piston core
 812 -43.31/105.55 E45-27 - piston core
 846 -43.31/105.55 E45-27 - piston core
 1211 -43.31/105.55 E45-27 - piston core
 847 -44.88/106.52 E45-29 - piston core
 1214 -44.88/106.52 E45-29 - piston core
 848 -53.50/111.33 E45-35 - piston core
 849 -53.44/114.26 E45-63 - piston core
 850 -52.48/114.09 E45-64 - piston core
 851 -48.85/114.62 E45-69 - piston core
 852 -48.01/114.48 E45-70 - piston core
 832 -48.03/114.49 E45-71 - piston core
 853 -48.03/114.49 E45-71 - piston core
 854 -47.53/114.49 E45-73 - piston core
 855 -47.55/114.44 E45-74 - piston core
 856 -46.50/114.42 E45-77 - piston core
 813 -45.04/114.35 E45-78 - piston core
 857 -45.04/114.35 E45-78 - piston core
 1207 -45.04/114.35 E45-78 - piston core
 831 -45.06/114.37 E45-79 - piston core
 858 -45.06/114.37 E45-79 - piston core
 859 -43.95/114.37 E45-81 - piston core
 863 -39.18/ 89.38 E48-20 - piston core
 815 -39.90/ 85.41 E48-22 - piston core
 864 -39.90/ 85.41 E48-22 - piston core
 1167 -39.90/ 85.41 E48-22 - piston core
 1210 -39.90/ 85.41 E48-22 - piston core
 816 -39.52/ 83.72 E48-23 - piston core
 865 -39.52/ 83.72 E48-23 - piston core
 817 -38.53/ 79.90 E48-27 - piston core
 866 -38.54/ 79.90 E48-27 - piston core
 867 -38.54/ 79.92 E48-28 - piston core
 1168 -38.54/ 79.92 E48-28 - piston core
 814 -41.02/100.01 E48-3 - piston core
 860 -41.02/100.01 E48-3 - piston core
 1169 -41.02/100.01 E48-3 - piston core
 1212 -41.02/100.01 E48-3 - piston core

871	-33.12/ 99.28	E48-48 - piston core
875	-59.01/110.13	E49-10 - piston core
276	-48.28/ 90.25	E49-17 - piston core
876	-48.28/ 90.25	E49-17 - piston core
776	-46.05/ 90.16	E49-18 - piston core
877	-46.05/ 90.16	E49-18 - piston core
878	-43.89/ 90.10	E49-19 - piston core
225	-42.19/ 94.89	E49-21 - piston core
879	-42.19/ 94.89	E49-21 - piston core
880	-45.02/ 95.08	E49-22 - piston core
275	-47.13/ 95.08	E49-23 - piston core
881	-47.13/ 95.08	E49-23 - piston core
882	-47.99/ 95.04	E49-24 - piston core
883	-49.38/ 94.83	E49-25 - piston core
884	-57.10/ 94.96	E49-29 - piston core
885	-57.76/100.04	E49-33 - piston core
886	-51.70/100.06	E49-37 - piston core
1172	-46.99/110.13	E49-4 - piston core
830	-40.61/ 99.91	E49-50 - piston core
829	-39.01/ 99.95	E49-52 - piston core
872	-51.01/109.99	E49-6 - piston core
873	-53.04/110.05	E49-7 - piston core
874	-55.07/110.02	E49-8 - piston core
888	-55.95/104.95	E50-11 - piston core
889	-60.00/105.00	E50-13 - piston core
890	-62.00/120.05	E50-17 - piston core
891	-66.04/170.01	E50-31 - piston core
887	-50.93/104.91	E50-8 - piston core
775	-43.52/ 79.87	RC11-120 - piston core
806	-43.52/ 79.87	RC11-120 - piston core
818	-43.52/ 79.87	RC11-120 - piston core
903	-43.52/ 79.87	RC11-120 - piston core
979	-43.52/ 79.87	RC11-120 - piston core
819	-29.72/ 82.25	RC11-121 - piston core
1213	-39.72/ 82.25	RC11-121 - piston core
892	-44.77/ 92.42	RC8-50 - piston core
893	-39.38/104.37	RC8-53 - piston core
926	-46.53/125.57	RC8-61 - piston core
896	-49.33/127.12	RC8-62 - piston core
897	-51.08/129.97	RC8-63 - piston core
899	-47.77/123.10	RC9-139 - piston core
900	-45.42/121.12	RC9-140 - piston core
901	-41.37/114.13	RC9-143 - piston core
917	-49.60/138.22	V16-114 - piston core
918	-55.68/141.28	V16-115 - piston core
Southern tablelands		
524	-36.00/149.58	Badja (Badja River) - sample
Spencer Gulf		
1300	0.00/ 0.00	BH1 - core
1302	0.00/ 0.00	BH2 - core
1301	0.00/ 0.00	BH3 - core
1151	-32.66/137.74	Blanche Harbour Beach ridge - surface sample
1154	-32.93/137.73	Cultana Beach ridge - surface sample
1152	-32.71/137.88	Mt. Grainger Beach ridge - surface sample
1315	0.00/ 0.00	RC4 - core
1316	0.00/ 0.00	RC5 - core
1299	0.00/ 0.00	SG167 - vibrocore
1298	0.00/ 0.00	SG168 - vibrocore
1297	0.00/ 0.00	SG169 - vibrocore
1313	0.00/ 0.00	SG176 - vibrocore
1312	0.00/ 0.00	SG177 - vibrocore
1309	0.00/ 0.00	SG178 - vibrocore
1285	0.00/ 0.00	SG179 - vibrocore
1287	0.00/ 0.00	SG180 - vibrocore
1295	0.00/ 0.00	SG181 - vibrocore
1294	0.00/ 0.00	SG182 - vibrocore
1291	0.00/ 0.00	SG183 - vibrocore
1289	0.00/ 0.00	SG184 - vibrocore
1303	0.00/ 0.00	SG253 - vibrocore
1304	0.00/ 0.00	SG254 - vibrocore
1308	0.00/ 0.00	SG255 - vibrocore
1306	0.00/ 0.00	SG256 - vibrocore
1307	0.00/ 0.00	SG257 - vibrocore
1310	0.00/ 0.00	SG258 - vibrocore
1311	0.00/ 0.00	SG259 - vibrocore

1292	0.00/ 0.00	SG260 - vibrocore
1290	0.00/ 0.00	SG261 - vibrocore
1288	0.00/ 0.00	SG262 - vibrocore
1286	0.00/ 0.00	SG263 - vibrocore
1284	0.00/ 0.00	SG264 - vibrocore
1283	0.00/ 0.00	SG265 - vibrocore
1296	0.00/ 0.00	SG37 - vibrocore
1293	0.00/ 0.00	SG39 - vibrocore
1314	0.00/ 0.00	SG48 - vibrocore
1305	0.00/ 0.00	SG53 - vibrocore
1150	-33.09/137.50	Whyalla Beach ridge - surface sample
1319	0.00/ 0.00	core 109 - vibrocore
1320	0.00/ 0.00	core 120 - vibrocore
1317	0.00/ 0.00	core 170 - vibrocore
1321	0.00/ 0.00	core 223 - vibrocore
1318	0.00/ 0.00	core 79 - vibrocore
1141	-32.71/137.88	vibrocore RC5 - core
1131	-32.70/137.85	vibrocore RED1 - core
1133	-32.70/137.85	vibrocore RED13 - core
1132	-32.70/137.87	vibrocore RED2 - core
1134	-32.67/137.87	vibrocore RED29 - core
1135	-32.67/137.88	vibrocore RED31 - core
1136	-32.70/137.88	vibrocore RED38 - core
1137	-32.68/137.85	vibrocore RED45 - core
1156	-32.69/137.83	vibrocore RED46 - core
1138	-32.70/137.87	vibrocore RED48 - core
1139	-32.70/137.88	vibrocore RED50 - core
673	-32.68/137.87	vibrocore RED51 - core
1140	-32.69/137.90	vibrocore RED52 - core
1155	-33.03/137.82	vibrocore SG100 - core
1143	-30.03/137.83	vibrocore SG103 - core
1144	-32.73/137.80	vibrocore SG167 - core
1153	-32.70/137.77	vibrocore SG171 - core
1145	-32.75/137.87	vibrocore SG182 - core
1146	-32.70/137.76	vibrocore SG267 - core
1147	-32.70/137.76	vibrocore SG268 - core
1148	-32.79/137.83	vibrocore SG279 - core
1142	-32.68/137.83	vibrocore SG51 - core
1149	-32.71/137.77	vibrocore SG70 - core
Storeys Lake		
772	-31.52/118.03	Storeys Lake - review
Strzelecki desert		
483	-28.68/139.73	Boxwood 1 - section
484	-28.90/139.73	Boxwood 2 - profile
486	-29.18/140.85	Burrunga - profile
489	-29.67/139.85	Lower Yerila Creek (east bank) - profile
485	-28.90/140.33	Tinga Tingana - section
488	-29.82/139.63	Upper Yerila Creek (west bank) - profile
62	-28.95/140.12	Yaningurie site - sample
Swain's Cave		
267	-38.32/143.28	Swain's Cave - sample
Swan River		
318	-31.90/115.97	Guildford (estuary) - dredge
88	-32.03/115.81	Point Waylen - core
Tadpole Swamp		
1270	-38.12/145.27	core - core
Tasman Abyssal Plain		
786	-41.95/160.51	E26-3 - piston core
787	-45.08/160.07	E26-4 - piston core
778	-36.49/161.21	E39-75PC - piston core
782	-36.49/161.21	E39-75PC - piston core
1060	-36.49/161.21	E39-75TC - trigger core
1061	-36.49/161.21	E39-75TC - trigger core
1223	-39.52/163.12	RC9-129 - piston core
Tasmanian West Coast Range		
1015	-41.88/145.58	Newton Creek Valley - exposed section
Tasmanian glaciated zone		
178	-43.35/146.82	Adamson's Peak (named cirque) - core
1001	-41.68/145.60	Boco Valley - exposure
1002	-41.73/145.50	Marionoak Valley - exposure
356	-41.73/145.48	Marionoak-Huskisson divide - section
351	-41.75/145.08	Upper Pieman and Boco Valley - survey
Texas Caves		
350	-28.93/151.45	Russenden (rear) Cave (VR-14) - excavation
349	-28.93/151.46	The Joint (VR-5) - excavation

Tiger Snake Swamp
1269 -38.12/145.27 core - core

Titans shelter
89 -42.58/146.47 Site E - cave excavation
90 -42.58/146.47 Site F - cave excavation
91 -42.58/146.47 Site G - cave excavation

Toolong Range (western slopes)
449 -36.12/148.40 Toolong Range (western slopes) - conclusions
529 -36.12/148.40 blockstream 1 - profile
530 -36.12/148.40 blockstream 1 section 1 - excavation/auger
531 -36.12/148.40 blockstream 1 section 2 - excavation/auger
532 -36.12/148.40 blockstream 1 section 3 - excavation/auger
533 -36.12/148.40 blockstream 1 section 4 - excavation/auger
534 -36.12/148.40 blockstream 1 section 5 - excavation/auger
535 -36.12/148.40 blockstream 1 section 6 - excavation/auger
536 -36.12/148.40 blockstream 1 section 7 - excavation/auger
537 -36.12/148.40 blockstream 1 section 8 - excavation/auger
538 -36.12/148.40 blockstream 1 section 9 - excavation/auger

Tower Hill
229 -38.33/142.33 Beach - sample
102 -38.32/142.37 Main Lake - vibro core
103 -38.32/142.37 North West Crater - core/surface samples
219 -38.32/142.00 Tower Hill - review
1347 0.00/ 0.00 Yatt Mirng Crater - core

Two Lakes
1357 -37.44/139.97 Two Lakes east shore - slip hammer core

Two Mile Bay
198 -38.67/143.00 Two Mile Bay - sample

Ulungra Springs
1024 -31.74/149.09 Pit 1 - pit
1025 -31.74/149.09 Pit 2 - pit

Upper Myall Valley
226 -32.46/152.26 water bore WRC 39275 - borehole
1194 -32.46/152.26 water bore WRC 39275 - bore
1195 -32.46/152.26 water bore WRC 39275 - bore

Valla Headland
1348 0.00/ 0.00 cave - sample

Victoria Cave
1266 0.00/ 0.00 Fossil Chamber - sample
1259 0.00/ 0.00 Grant Hall - sample
1260 0.00/ 0.00 Grant Hall, dig A - sample
1261 0.00/ 0.00 Grant Hall, dig C - sample
1262 0.00/ 0.00 New Formation Chamber - sample
1263 0.00/ 0.00 Spring Chamber - sample
1265 0.00/ 0.00 Squashed Egg Chamber - sample
1264 0.00/ 0.00 adjacent Spring Chamber - sample

Wallabi East Island
204 -29.55/113.73 Wallabi East Island - faunal survey

Wallabi West Island
320 -29.50/113.70 Wallabi West Island - faunal survey

Wallaby Plateau
561 -23.77/108.50 BMR96GC21 - gravity core
1041 -23.77/108.50 BMR96GC21 - gravity core

Wangrah Creek
467 -35.84/149.18 Transect WCT 1 WC97 - profile
481 -35.84/149.18 Transect WCT 10 WC6 - profile
482 -35.84/149.18 Transect WCT 11 WC69 - profile
468 -35.84/149.18 Transect WCT 2 WC63 - profile
469 -35.84/149.18 Transect WCT 3 WC20 - profile
470 -35.84/149.18 Transect WCT 4 WC89 - profile
471 -35.84/149.18 Transect WCT 5 WC14 - profile
472 -35.84/149.18 Transect WCT 5 WC15 - profile
473 -35.84/149.18 Transect WCT 5 WC16 - profile
474 -35.84/149.18 Transect WCT 6 WC75 - profile
475 -35.84/149.18 Transect WCT 6 WC98 - profile
477 -35.84/149.18 Transect WCT 7 WC55 - profile
476 -35.84/149.18 Transect WCT 7 WC56 - profile
479 -35.84/149.18 Transect WCT 8 WC49 - profile
480 -35.84/149.18 Transect WCT 8 WC52 - profile
478 -35.84/149.18 Transect WCT 8 WC7 - profile
466 -35.83/149.00 Wangrah Creek - section
542 -35.43/148.28 Wangrah Creek - transects
458 -35.83/149.00 Wangrah Creek (Ryan's Creek) - transects

Warburton River
278 -27.70/137.68 Warburton River (lower) - exposures

Wedge's Cave
 256 -30.55/115.50 Wedge's Cave - excavation
Welcome River
 32 -40.75/144.83 Welcome River - sample/section
Weld River Swamp
 1047 -34.68/116.52 Weld River Swamp - core
 1117 -34.68/116.51 Weld Swamp - review
West Australian Continental Slope
 909 -31.57/114.12 RC11-141 - piston core
 185 -29.33/113.38 RC9-147 - piston core
 184 -29.68/113.67 RC9-148 - piston core
 183 -31.30/114.55 RC9-150 - piston core
 562 -31.30/114.55 RC9-150 - piston core
 671 -31.30/114.55 RC9-150 - piston core
 821 -31.30/114.55 RC9-150 - piston core
 902 -31.30/114.55 RC9-150 - piston core
 1039 -31.30/114.55 RC9-150 - piston core
 1178 -31.30/114.55 RC9-150 - piston core
 1216 -31.30/114.55 RC9-150 - piston core
 919 -30.57/114.45 V18-215 - piston core
West Lake Muir
 1048 -34.47/116.60 West Lake Muir - core
Western equatorial Pacific
 1224 -3.03/156.43 RC10-139 - piston core
 1225 -2.65/156.98 RC10-140 - piston core
 1226 -3.73/168.38 RC12-121 - piston core
 1227 -.87/172.00 V19-96 - piston core
 1228 -8.40/167.77 V28-229 - piston core
 1229 -5.50/166.75 V28-230 - piston core
 922 -5.45/160.48 V28-235 - piston core
 1230 -5.45/160.48 V28-235 - piston core
 828 1.02/160.48 V28-238 - piston core
 923 1.02/160.48 V28-238 - piston core
 981 1.02/160.48 V28-238 - piston core
 1231 -1.02/160.48 V28-238 - piston core
 827 3.25/159.18 V28-239 - piston core
 924 3.25/159.18 V28-239 - piston core
 1232 -3.25/159.18 V28-239 - piston core
Willandra Lakes
 675 -33.83/143.00 Chibnalwood - review
 674 -33.25/143.33 Mulurulu - review
 760 -33.85/143.83 Tysons Lake - review
 747 -30.50/140.00 Willandra Lakes - review
Wilson Island
 201 -34.13/122.00 Wilson Island - faunal survey
Wilsons Promontory
 719 -39.00/146.42 eastern Wilsons Promontory - pit
Wirrengen Plain
 799 -35.37/141.88 Wirrengen Plain - conclusion
Wombat Cave
 1268 0.00/ 0.00 unknown site - stalactite
Wombat Plateau
 559 -16.92/115.54 ODP760A - piston core
 563 -16.92/115.54 ODP760A - piston core
 1038 -16.92/115.54 ODP760A - piston core
 1163 -16.92/115.54 ODP760A - piston core
Wombeyan Caves
 450 -34.32/149.97 Basin Cave W4 - exposure
 296 -34.32/149.98 Broom Breccia - excavation
Woolly Lake
 496 0.00/ 0.00 Woolly Lake - unspecified
Wyrie Swamp
 702 -37.67/140.33 Wyrie Swamp - core
 750 -37.65/140.30 Wyrie Swamp - review
 645 -37.67/140.33 core W1 - core
 985 -37.67/140.33 core W3 - core
 987 -37.67/140.33 core W6 - core
 988 -37.67/140.33 core W7 - core
 1034 -37.67/140.33 cores W1 & W3 - core
 986 -37.67/140.33 cores W4,W5 & W6 - core
Yarra River
 195 -37.80/144.90 Yarra River Delta - sample
conclusion location
 192 0.00/140.00 *Unknown - sample
 517 -37.50/140.17 SE South Australia - sections