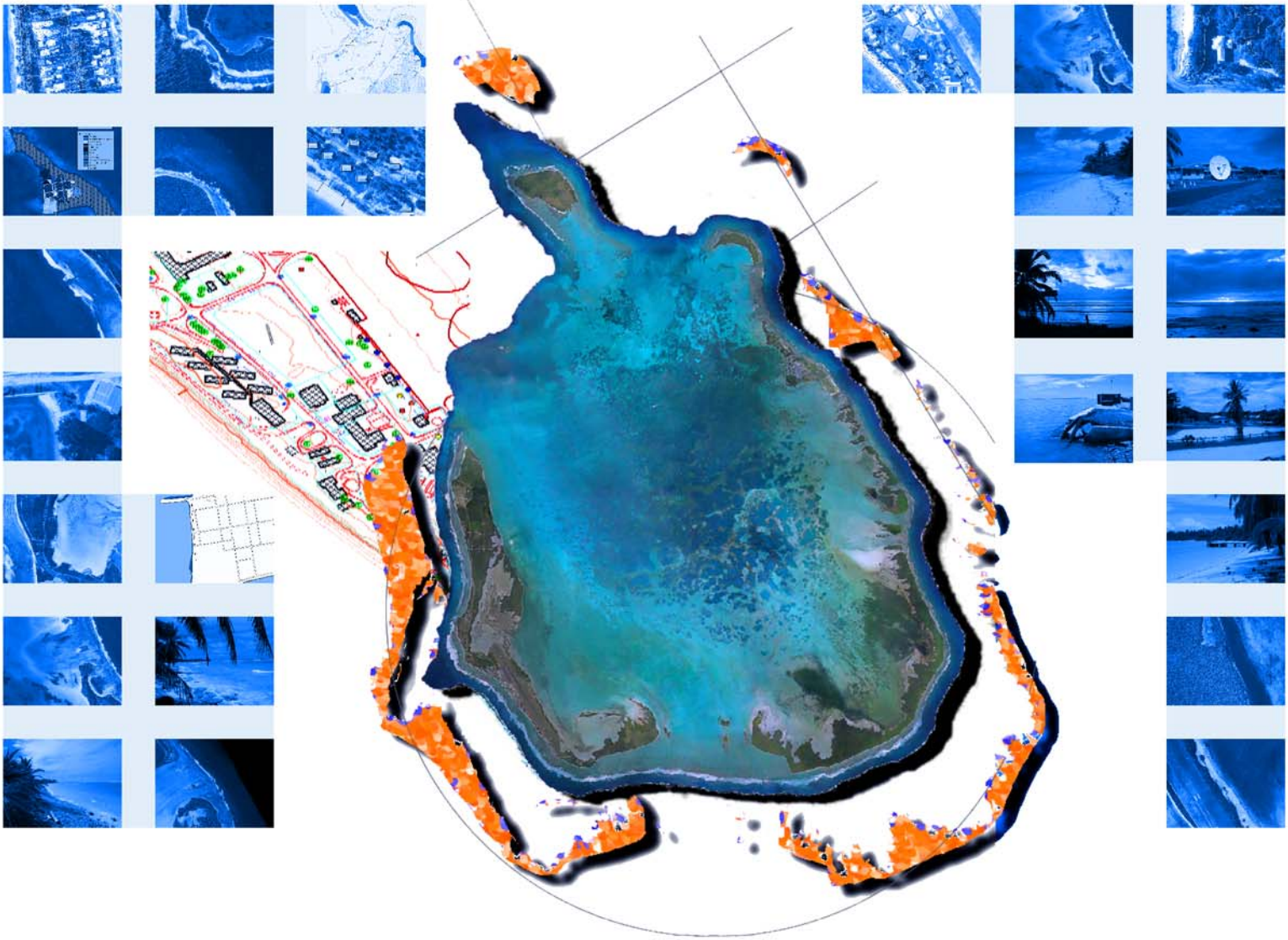
Cocos (Keeling) Islands Geographic Information System

System Documentation

July 2012 Release



Australian Government
Department of Regional Australia, Local Government, Arts and Sport
Geoscience Australia

Cocos (Keeling) Islands
Geographic Information System

System Documentation

Prepared for the Territories Office,
Commonwealth Department of Regional Australia, Local Government, Arts and Sport

by Keith Porritt, Kristen Walker & others at
GEOSCIENCE AUSTRALIA

July 2012

Australian Government

Department of Regional Australia, Local Government, Arts and Sport

Geoscience Australia

GA Catalogue #70543

Disclaimer

The data in this GIS were assembled by the Mineral Resources and Advice Project of Geoscience Australia (GA). In compiling the product, GA has translated and integrated data as received from many other sources. GA has undertaken initial checks as to the accuracy or completeness of these externally supplied datasets and the result of these examinations are reported throughout this documentation manual.

It should be noted that the Cocos GIS datasets may contain information that is not totally accurate or complete. Therefore you should not rely solely on the information in this GIS when making a commercial decision. Please read the accompanying documentation and where further information is required please contact:

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Table of Contents

DISCLAIMER **2**

TABLE OF CONTENTS **3**

LIST OF FIGURES AND TABLES **5**

ACKNOWLEDGMENTS **7**

COCOS GIS TEAM 7

COCOS GIS DATA 7

THE COCOS (KEELING) ISLANDS **8**

GEOGRAPHY AND CLIMATE 8

SOCIAL ASPECTS 8

INTRODUCTION **9**

BACKGROUND 9

GENERAL FEATURES 9

GETTING STARTED 9

THEMATIC LAYERS AND DATA **10**

VIEWERS 10

DATA FORMATS 10

PROJECTION 10

2011 ORTHOPHOTOGRAPHY 11

2011 LASER DIGITAL ELEVATION DATA 18

2011 DIGITAL ELEVATION MODEL 21

2011 CONTOURS 27

2011 CANOPY HEIGHT MODEL AND FOLIAGE COVER MODEL 27

SATELLITE IMAGERY 29

Full Notes from The Cocos GIS 2003 release *31*

UTILITIES 32

ORTHOPHOTOGRAPHY 34

Notes on Previous Versions *34*

CADASTRE AND GROUND AUDIT 40

Notes on Previous Versions *41*

TOPOGRAPHY AND CULTURE 43

Data derived from topography *44*

DETAILED SURVEY 44

SIDE SCAN SONAR PATHS & INTERESTING FEATURES 45

MARINE ENVIRONMENT 49

PLANNING 50

WATER RESOURCES 52

NATIONAL ESTATE 53

OTHER DATA 54

FURTHER WORK **55**

ANNOTATION CAPTURE 55

CADASTRE UPDATES 55

GEOGRAPHIC NAMES AND ROAD NAMES 55

OTHER DATA IMPROVEMENTS 55

REFERENCES **56**

APPENDIX 1: METADATA **58**

APPENDIX 2: DVD HTML DOCUMENTATION **59**

APPENDIX 3: GROUND AUDIT AND CADASTRE TABLES **60**

APPENDIX 4: MEMORANDUM OF ARRANGEMENT – PARTICULARS OF SERVICES **61**

APPENDIX 5: DATA LICENSING AND AGREEMENTS **63**

COMMONWEALTH COCOS GIS DATA LICENCE 64

LICENSE FOR USE OF SATELLITE IMAGERY. 68

MULTIPLE ORGANIZATION END USER LICENSE AGREEMENT *68*

REGISTERED USERS *71*

ENVIRONMENT AUSTRALIA MARINE DATA LICENCE. 72

TERRITORIES OFFICE—DOLA ARRANGEMENT FOR CADASTRE 80

APPENDIX 6: LAND USE PLAN 1992 DATA DOCUMENTATION **81**

APPENDIX 7: ECOWISE ENVIRONMENTAL REPORT OF WATER RESOURCES COMPONENT, COCOS (KEELING) ISLANDS GIS. **82**

APPENDIX 8: COCOS GIS DATA DVD. **83**

List of Figures and Tables

Figure 1: Examples of raw aerial imagery taken of the Ruma Baru wharf at different times during the 2011 aerial survey. 12
Figure 2: 2011 Cocos southern atoll orthophotography. North Keeling Island orthophotography in inset. 13
Figure 3: Cocos West Island School – 2011 orthophotography 14
Figure 4: Cocos West Island School – 2006 Satellite Image 14
Figure 5: Cocos Home Island Jetty – 2011 orthophotography 15
Figure 6: Cocos Home Island Jetty – 2006 Satellite Imagery 15
Figure 7: Direction Island – 2011 orthophotography 16
Figure 8: Direction Island – 2006 Satellite Imagery 16
Figure 9: Lagoon detail visible in the 2011 orthophotography 17
Figure 10: Lagoon detail visible in the 2011 orthophotography 17
Figure 11: LiDAR ground point return density at the Home Island Shire Offices. 19
Figure 12: LiDAR vegetation point return density at the Home Island Shire Offices. 19
Figure 13: West Island airport buildings in LP360 3D viewer. Points are coloured by return classification. 20
Figure 14: West Island buildings in LP360 3D viewer. Points are coloured by underlying orthophotography. 20
Figure 15: West Island airport buildings in LP360 3D viewer. Points are coloured by underlying orthophotography. 20
Figure 16: Direction Island shelter in LP360 3D viewer. Points are coloured by underlying orthophotography. 20
Figure 17: West, Home and North Keeling Islands 2011 digital elevation model samples coloured by elevation. Highest elevation is coloured red. 22
Figure 18: The four images above show the area in the south-west corner of West Island which is often water logged. 23
Figure 19: Home Island 2011 digital elevation model coloured to highlight areas below 1m. 24
Figure 20: Sample shiny colour drape image generated from the 2011 digital elevation model for a section of urban area on West Island. 24
Figure 21: Sample shiny colour drape image generated from the 2011 digital elevation model for a section of urban area on West Island. Orthophotography of the same area is shown in the inset. 25
Figure 22: Sample colour drape imagery generated from the 2011 digital elevation model for a section of West Island. 26
Figure 23: Sample of 0.5m contours generated from the 2011 digital elevation model. 27
Figure 24: West Island 2011 canopy height model compared to orthophotography 28
Figure 25: The Cocos (Keeling) Islands reprojected as one whole image. 29
Figure 26: North Keeling Island satellite imagery after reprojection. Notice that shallow waters around the island become obvious. 30
Table 1: Registered users of the satellite imagery bundled with this manual. 31
Figure 27: Data from the Utilities directory includes water supply and power infrastructure points, lines and polygon. 32
Figure 28: Examples of utilities legends in ArcView after installation of the font containing the GHD symbol set. 33
Figure 29: An image captured from the Cocos (Keeling) Islands GIS orthophotography at approximately 1:500 scale, showing clarity and resolution of land and underwater features. Of all the datasets in the GIS, the orthophotography (created from aerial photography flown in 1987) is considered to have the highest overall spatial accuracy. 35
Figure 30: Layout of all 105 1Km X 1Km orthophotography tiles created for the Cocos GIS from the 1987 aerial photographs. 37
Figure 31: Flight lines and photo centres of the 1987 aerial photographs used for the Cocos GIS orthophotography. Flight lines are numbered at one end of the line. 38
Figure 32: Index of the orthophotography showing the names and extents of each orthophotograph tile. Each '.tif' file is associated with a '.tfw' file which georeferences the image. The index file is stored as a shapefile ('orthindx.shp') for use within ArcView and ArcExplorer projects. 39
Figure 33: Cadastre.shp and Lodged.shp overlayed on satellite imagery of Home Island. 41
Figure 34: Topography and culture data from LandInfo Canberra (on behalf of AUSLIG). Labels refer to vegetation polygons (extracted and corrected by GA). These codes cannot be sensibly decoded by reference to the AUSLIG code sheets; they will probably require someone with local knowledge to add a description. 43
Figure 35: Screen capture of part of Home Island showing poor spatial accuracy for some housing features of the detail survey data. The right hand row of houses has features offset by approximately ± 2.5 metres compared to the orthophotography. Many of the houses also have very different shapes in the data when

compared to the orthophotography. It seems probable that these features are not surveyed but retrieved from an earlier, perhaps conceptual, plan. 45
Figure 36: IMAGENEX Sportscan Digital Sidescan Sonar device 46
Figure 37. An anomaly within the Side Scan Sonar footage. 46
Figure 38: Extent of side scan sonar paths in relation to west and home island. 47
Figure 39: Detail of side scan sonar paths and interesting points, overlayed onto the 2003 satellite imagery. 47
Figure 40: Sidescan sonar image of an area near the Blue Hole. Correlation can be seen 48
between the sonar footage and the satellite image shown below. 48
Figure 41: 1987 Orthophotography of the area captured in the sonar footage displayed in Figure 4. 48
Correlation can be seen between the two images (note that the vessel was travelling from east to west). 48
Figure 42: Data from ERIN include marine environmental data, some marine infrastructure and management zones. 50
Figure 43: Data from NCPA include the 1992 Planning Scheme, together with over twenty supporting layers — all documented to a high standard. 51
Figure 44: Water resources data supplied by ECOWISE Environmental Ltd includes freshwater lens extents, galleries and other water resources infrastructure. 52
Figure 45: Data from the Register of the National Estate includes point and polygon representations of registered significant sites (historic and natural). 53
Figure 46: Cocos GIS GA Catalog entry (#70543).- 57
Table 2: Full listing of cadastre.shp and lodged.shp. 60
Table 3: Registered users of the satellite imagery bundled with this manual. 71

Acknowledgments

Cocos GIS Team

The Mineral Resources and Advice Project of Geoscience Australia would like to acknowledge the support of Ms. Debra Blaskett and Mr. Peter Lawler of Territories Office whose efforts made the undertaking of this work possible.

A number of people from GA contributed to the Cocos (Keeling) Islands GIS. Jane Bryan processed the satellite imagery and utilities data, projected the data to UTM(WGS84) and provided documentation updates. Martin Sholtez developed a substantial proportion of the HTML documentation and contributed data edits and documentation for a number of datasets. Dr. William McKay provided management support and advice and reviewed the 2001 release of this documentation. Neal Evans advised on and checked data and documentation issues. Geoff Lawford contributed quality assurance and quality control checks.

Through this team effort valuable spatial and attribute data, that over time may have become lost, are now readily accessible in one integrated system.

Cocos GIS Data

In 2011 AAM Pty Ltd was commissioned by the Commonwealth to obtain orthophotography of the Cocos (Keeling) Islands. Data was successfully collected for the entire extent of the island (including North Keeling Island) between the 8th and 16th of August 2011.

Data capture was commissioned by Territories Office in a variety of projects over the last fifteen years for all data sets except for the November 2003 satellite image which is from the Department of Environment and Heritage under a limited multi-user licence:

LandInfo Canberra generated orthophotography from aerial photography flown by the Australian Survey Office Canberra on 5-Apr-87.

The Australian Land Information Group (AUSLIG) digitised cultural and topographic themes for the Cocos (Keeling) Islands at both Canberra and Western Region offices in the early 1990's on behalf of Territories Office.

The National Capital Planning Authority (NCPA) was commissioned by the Commonwealth Government to carry out a planning study that assembled the *Land Use Plan and Planning Scheme* data dated February 1992.

The Western Australian Department of Lands Administration (DoLA) extracted the cadastre snapshot packaged on this DVD set from the DoLA database on 30-Dec-99. Responsibility for the cadastral information passed from AUSLIG to DOLA in 1992. On-going maintenance of cadastre is undertaken by DLI under a Memorandum of Arrangement with Territories Office.

AUSLIG, DOLA and the Australian Valuation Office (AVO) jointly developed data underpinning the March 1996 ground audit of Cocos (Keeling) Islands through Australian Estate Management (AEM) as consultants to Territories Office.

Environment Australia is the custodian of the marine environment data referred to as *Environment Australia (1998) Whelans Cocos GIS (1998).* A separate licence agreement applies to this data set (see Chapter 8).

Gutteridge Haskins &Davey (GHD) Pty Ltd assembled the utilities data and the 2003 cadastre from Computer Assisted Drawing (CAD) over a period from 1994 to 25-03-2003.

The Cocos (Keeling) Islands

The Cocos (Keeling) Islands are one of Australia's Indian Ocean Territories. They are located in the Indian Ocean 2,950 kms north-west of Perth, 3,700 kms west of Darwin, and 900 kms south west of Christmas Island (96° 52' East' 12° 10' South). There are 27 coral islands in the group, with a total land area of approximately 14km^2.

Geography and Climate

Apart from North Keeling Island, which is approximately 30kms from the main group, the islands form a typical horseshoe-shaped atoll surrounded by a coral reef.
Each island has rough coral beaches to seaward and sandy beaches or mudflats on the lagoon side. The Islands are low lying and most are thickly covered with coconut palms.

Wildlife consists mainly of seabirds, such as frigatebirds and booby birds, which are restricted to uninhabited islands, especially North Keeling. Land crabs are common on all islands.

The climate is tropical with high humidity. Temperatures range from 20°C to 30°C. The average rainfall is 2000mm per annum, falling mainly from January to August. The south-east trade winds blow most of the year, producing pleasant weather conditions.

Social Aspects

The population of the Cocos (Keeling) Islands was estimated at 675 persons in November 1998. This represents a slight increase from the figure of 655 persons reported at the 1996 census. The 1998 population comprised 552 persons on Home Island and 123 persons on West Island.

Home Island is the location of the Cocos Malay community. The Cocos Malays have significant social and cultural links to communities in Asia (particularly Sabah) and Western Australia. West Island's population comprises mainland-based public servants and contractors, long term residents and their families.

Copra provided an initial base for the Cocos (Keeling) Islands economy. The public sector is now the largest area of economic activity, although contracting out of activities has provided increased opportunities for the private sector. Tourism is potentially a significant area of economic activity in the Cocos (Keeling) Islands. Local attractions include diving, fishing and wind-surfing.

Chapter 1

Introduction

Background

This documentation accompanies the delivery of the Cocos (Keeling) Islands Geographic Information System (Cocos GIS) 2012 to the Department Regional Australia, Local Government, Arts and Sport (Territories Office). The major tasks and activities associated with the project are as set out in the Memorandum of Arrangement (MoA) with Territories Office dated 10th October 1999 (Chapter 7).

General Features

The Cocos (Keeling) Islands Geographic Information System is a collection of spatial data, viewing and analysis tools dealing with the Cocos (Keeling) Islands. The data include orthophotography, topographic, cultural and environmental features both of the islands and the ocean immediately surrounding them.

Compilation of data and its organisation into a GIS together with documentation was undertaken by the Geoscience Australia (GA) at the request of the Territories Office, Department of Regional Australia, Local Government, Arts and Sport.

The data are presented in QuantumGIS (QGIS) projects. QGIS is a free viewer and is distributed with the Cocos GIS DVD. Data are stored as ESRI shapefiles and therefore readily useable with most modern GIS applications.

Data were received from a variety of custodians and in many cases had no accompanying documentation. Lack of documentation made it increasingly difficult for GA with interpretation, translation and documentation of data. GA has attempted to include metadata for all datasets to ANZLIC core metadata standards, but the value of this is limited by the poor initial documentation. In addition to limited documentation, many datasets had inconsistent spatial accuracy.

In some cases further work could be done by GA to improve the value of the data, but this would be beyond the scope of the current MoA.

Getting Started

The DVD automatically runs a web (HTML) document containing details and tools for getting started with the Cocos (Keeling) Islands GIS. A hard copy of this document is included with this documentation in Chapter 5.

Chapter 2

Thematic Layers and Data

Viewers

The Cocos GIS DVD contains OsGeo's data viewer QuantumGIS (QGIS). This enables viewing of all the vector data and the TIFF versions of the raster data.

If editing or more complex GIS analysis is required, ArcView GIS should be used. GA has made every effort to correct errors in the source data. Use in ArcInfo or most other available GIS software packages should be straightforward.

Data Formats

The Cocos GIS uses ESRI shapefiles as its major vector format. This enables editing within QGIS rather than requiring a more expensive software package. It also allows preservation of 3-D data components. The existence of a 3-D component, which enables easy viewing in a 3-D viewer such as ArcView's 3-D Analyst, was preserved wherever possible to maximise data value. In cases where this may limit shapefile portability to other software packages, the 3-D component can be removed by saving as a 2-D shapefile from ArcView.

The primary format for raster data is uncompressed Tagged Image File Format (TIFF) full colour. A secondary format is Enhanced Compressed Wavelet (ECW) format (a compressed format distributed with ERMapper and viewable in ArcView after the installation of a plug-in). This format significantly reduces file size and is quick to view. GA has observed some spatial accuracy variability at higher resolutions with some ECW format images.

Source files are in a variety of formats, as received from the data custodian. Source formats include Microstation Design Files (DGN), ESRI Shapefiles, ESRI Coverages, ESRI ArcInfo Export (E00), MapInfo (TAB, MID/MIF) as well as various tabular and database formats.

Projection

The 2012 Cocos GIS stores data in the UTM(WGS84) projection. Earlier versions of the Cocos GIS used the Cocos (Keeling) Islands Grid 1992 (CKIG92). This data has been projected to UTM(WGS84) Zone 47 using the ArcView projection wizard, and the ERMapper Geocoding wizard.

COCOS (KEELING) ISLAND GRID 1992 (CKIG92)

Projection: Universal Transverse Mercator Zone 47 South
Datum: WGS 1984
Spheroid: WGS 1984
False Easting: 500000
False Northing: 10000000
Central Meridian: 99
Latitude of Origin: 0, 0
Scale Factor: 0.9996
Units: metres.

Projection files (.prj) have been provided with each shapefile for use in Quantum GIS. Be aware that projection files can cause problems if loading shapefiles into ArcExplorer.

For more information about projecting using ArcView, refer to 'CocosGIS\document\ reprojecting_shapefiles_arcview.doc' located on the DVD. For more information about adding the CKIG92 projection to ERMapper, refer to 'CocosGIS\\document\Adding_CKIG92_to_ERmapper.txt' located on the DVD.

2011 Orthophotography

In 2011 AAM Pty Ltd was commissioned by the Commonwealth to obtain orthophotography of the Cocos (Keeling) Islands. Between the 8th and 16th of August 2011 orthophotography was obtained for the entire extent of the islands (including North Keeling Island) by AAM Pty Ltd using a fixed-wing light aircraft. Previously, aerial photography was captured for Cocos (Keeling) Islands in 1987 and satellite imagery in 2001. The 2011 imagery has a 15cm on ground pixel size resolution, an improvement on both the previous imagery.

All imagery was captured using a DiMAC UltraLight 50mm Lens camera within approximately 2 hours of low tide. During this period tides ranged from 0.4m to 1.3m. The photo frame and tide height table lists the approximate tide height for each raw photo. Flying height was around 800 meters with flight line spacing of around half a kilometre.

AAM provided the imagery to Geoscience Australia as raw non-georeferenced images, 1km^2 ECW and TIFF tiles (196 tiles) and as two ECW mosaics; one of the Cocos southern lagoon, and one of North Keeling Island. Only the Cocos Island full mosaic is provided in the Cocos GIS package. Other data can be requested from Geoscience Australia. The raw images may be of use if varying angles of view are required of features or locations. In many cases multiple images were taken of the same location from varying lines of flight and times, highlighting features in different ways.

Figure 1: Examples of raw aerial imagery taken of the Ruma Baru wharf at different times during the 2011 aerial survey.

Using an automated process, raw images were joined to form two mosaics, one of the Cocos southern lagoon and one of North Keeling Island. Colour balancing and replacement of certain areas with alternate raw images was performed for consistency. As a guide, the orthophotography is horizontally accurate to 30cm. For a detailed description of the aerial survey data please see the AAM Survey Report.

The orthophotography was provided to Geoscience Australia in UTM WGS 47S.

Figure 2: 2011 Cocos southern atoll orthophotography. North Keeling Island orthophotography in inset.

The clarity is an improvement on the 2003 satellite image.

Figure 3: Cocos West Island School – 2011 orthophotography

Figure 4: Cocos West Island School – 2006 Satellite Image

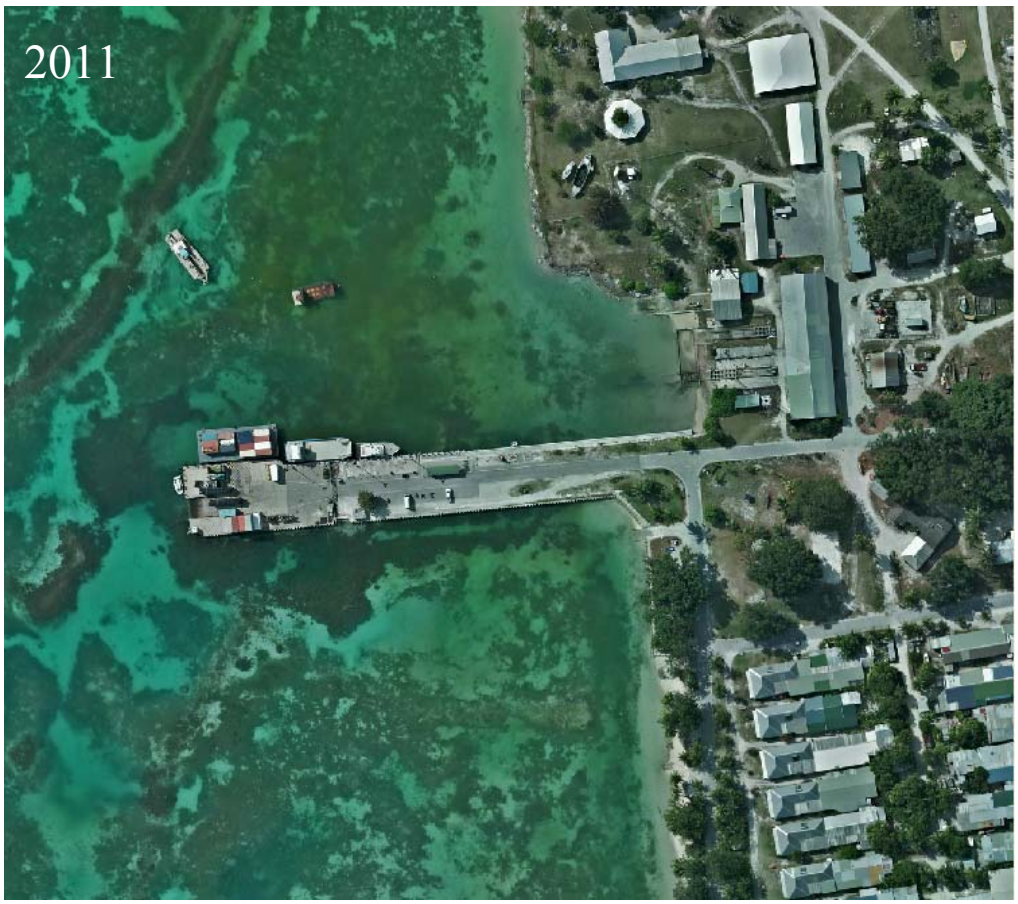


Figure 5: Cocos Home Island Jetty – 2011 orthophotography

Figure 6: Cocos Home Island Jetty – 2006 Satellite Imagery

Figure 7: Direction Island – 2011 orthophotography

Figure 8: Direction Island – 2006 Satellite Imagery

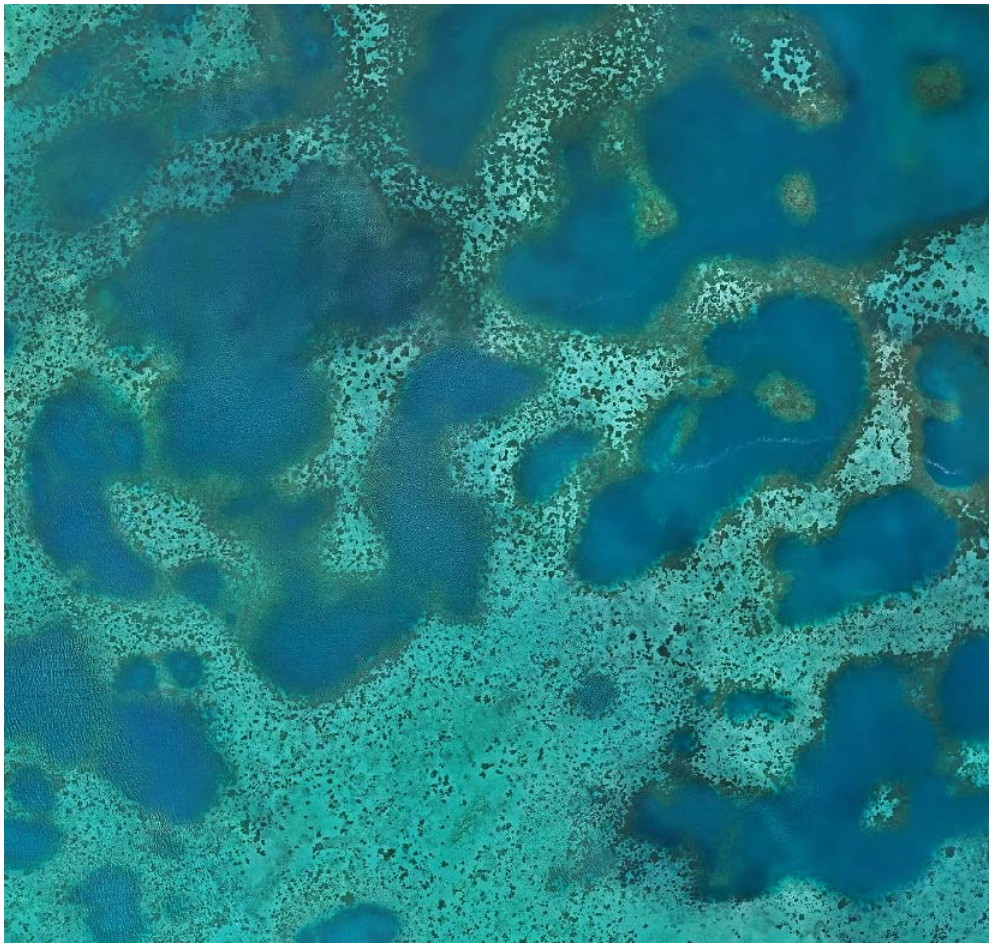


Figure 9: Lagoon detail visible in the 2011 orthophotography

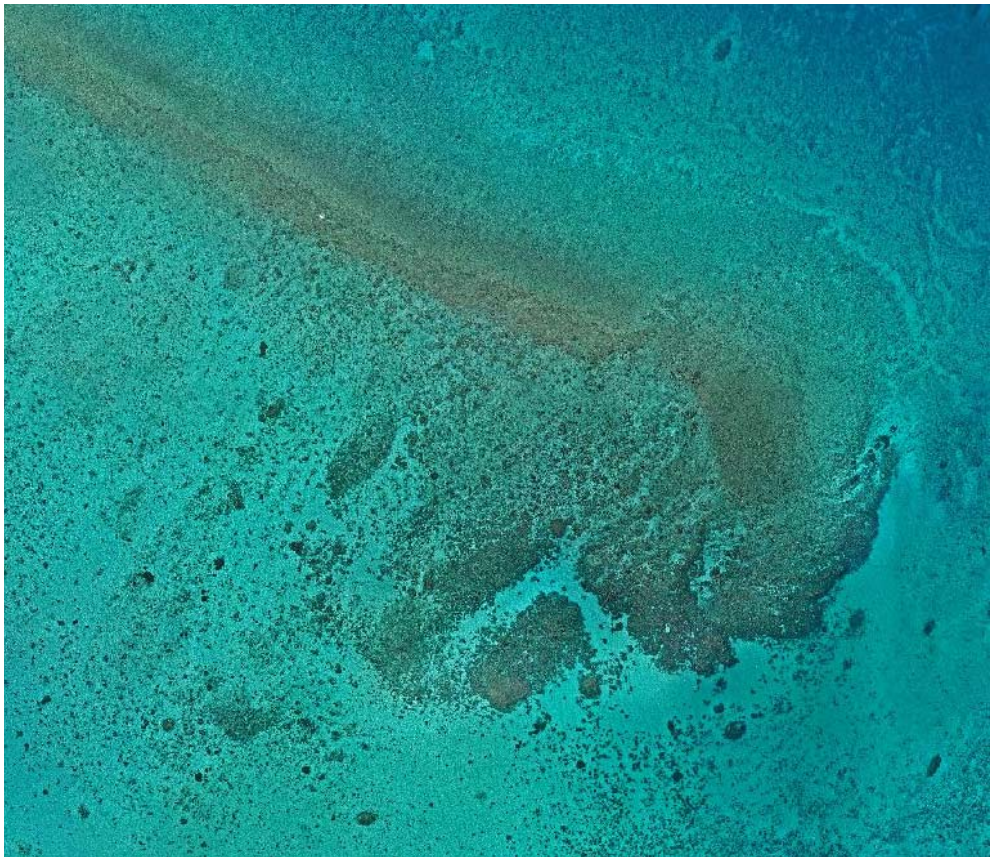


Figure 10: Lagoon detail visible in the 2011 orthophotography

2011 Laser Digital Elevation Data

In conjunction with the aerial photography taken in August 2011, LiDAR (Light Detection and Ranging) data was also acquired. LiDAR has never previously been collected for the Cocos Islands. The project delivered classified LiDAR point cloud, ground digital elevation (DEM), intensity, canopy height (CHM) and canopy density (FHM) data.

Classified LiDAR Point Cloud

AAM provided Geoscience Australia with 1km by 1km .las files for both classified and unclassified LiDAR returns. The average point spacing is 0.3m across the islands. This data has not been included on the Cocos GIS although it can be requested from GA.

AAM classified the raw LiDAR points into the classifications in the table below using a single algorithm across the project area. From use of the data and quality assurance checks the classification process is considered to have been error free. Occasional returns have been from birds resulting in one-off high elevation readings. These elevation errors are only present in the point cloud and were not carried across into the digital elevation model.

Number	Point class	Description
0	Unclassified	Created, never classified
1	Default	Unclassified
2	Ground	Bare ground
3	Low vegetation	0 – 0.3m (essentially sensor ‘noise’)
4	Medium vegetation	0.3 – 2m
5	High vegetation	2m +
6	Buildings, structures	Buildings, houses, sheds, silos etc.
7	Low / high points	Spurious high/low point returns (unusable)
8	Model key points	Reserved for ‘model key points’ only
9	Water	Any point in water
10	Bridge	Any bridge or overpass
11	not used	Reserved for future definition
12	Overlap points	Flight line overlap points

The images below show those returns classified as ground and those classified as vegetation respectively. It can be seen that in vegetated areas a significantly lower number of laser returns reached the ground and were reflected back to the plane. Returns have been coloured by elevation, highlighting the higher returns in red. The ability for LiDAR to reach the ground through vegetation resulted in extremely accurate ground elevations data.

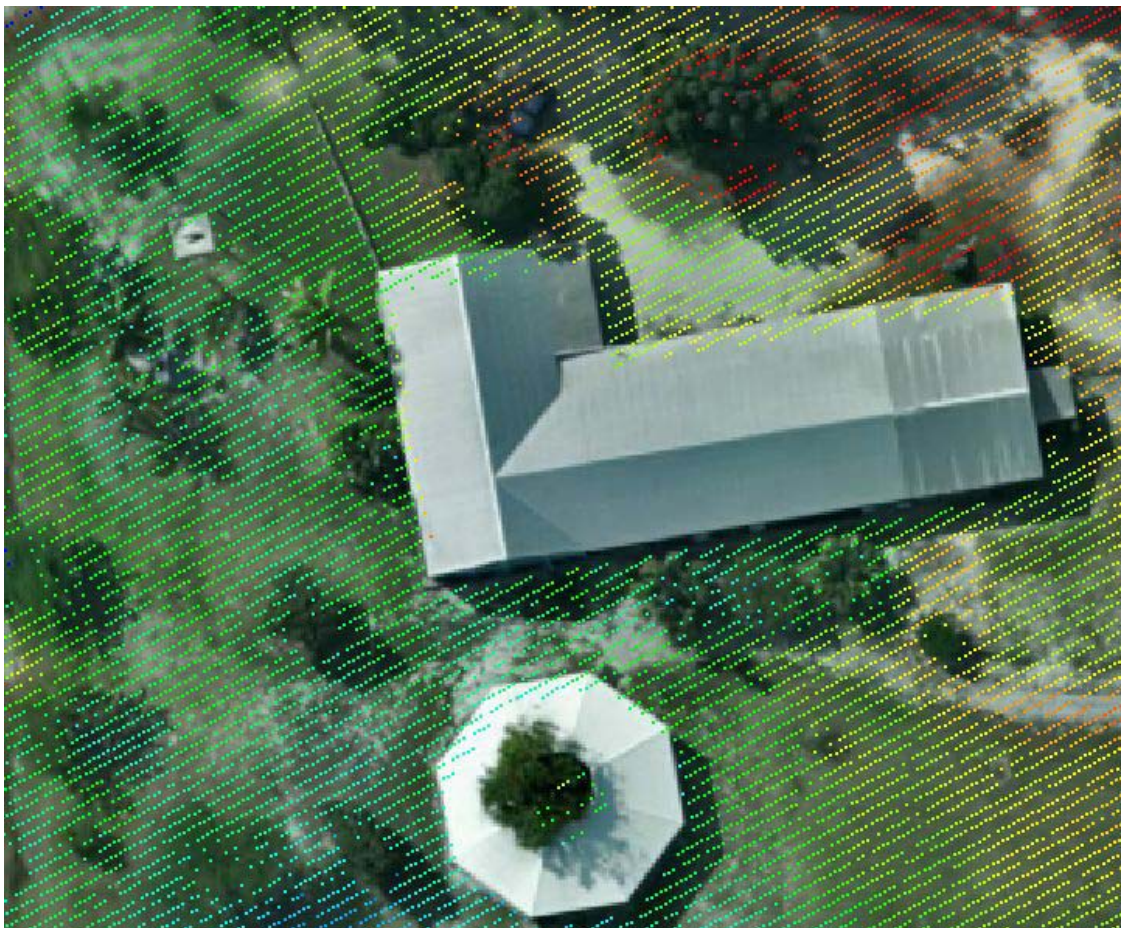


Figure 11: LiDAR ground point return density at the Home Island Shire Offices.

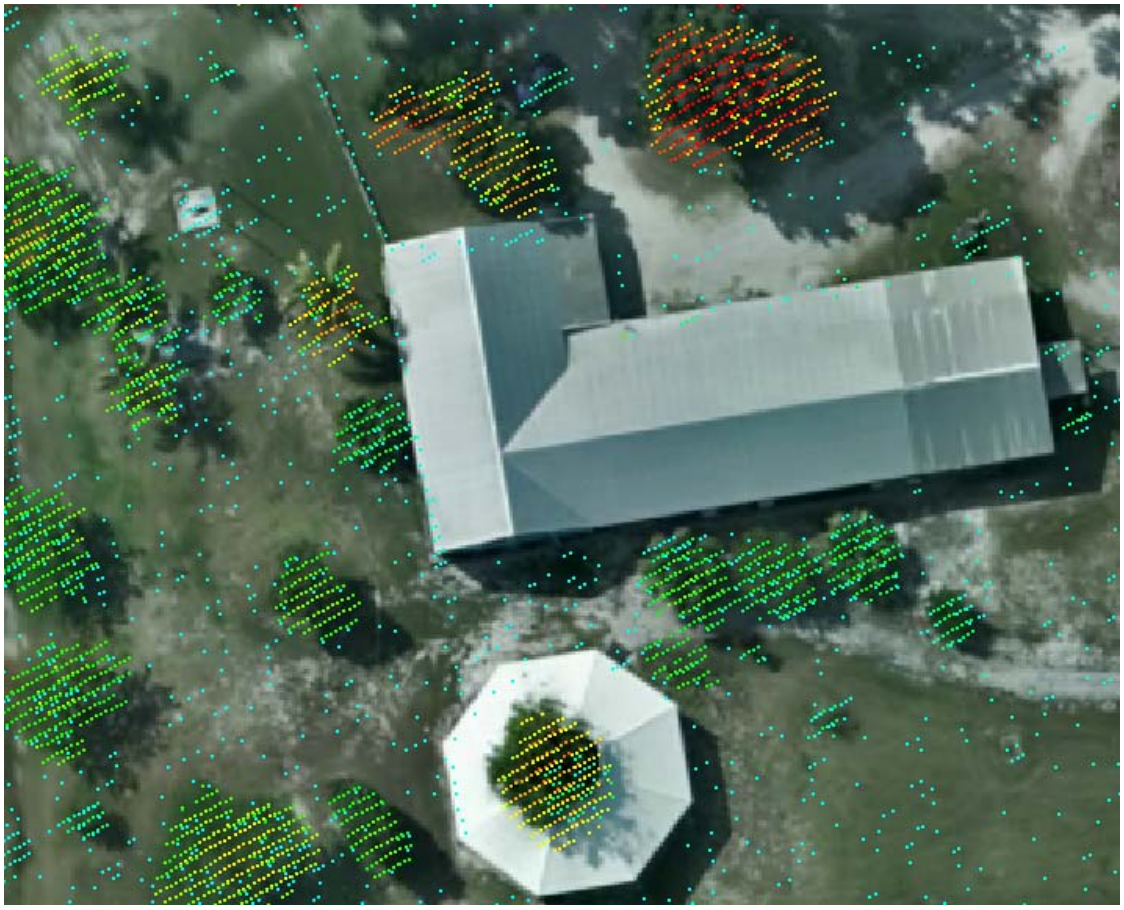


Figure 12: LiDAR vegetation point return density at the Home Island Shire Offices.

Using the ArcMap extension LP360, 3D models can be generated from the classified returns. These models allowed the return classification to be easily viewed and checked.

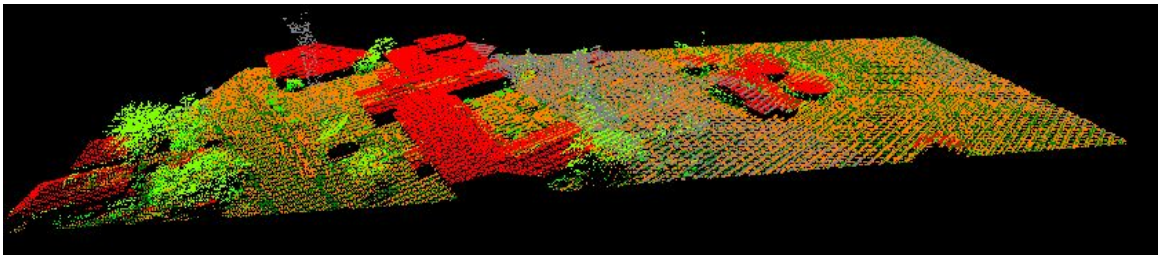


Figure 13: West Island airport buildings in LP360 3D viewer. Points are coloured by return classification.

LP360 also allows points to be coloured according to the association 'real colour' orthophotography. This shows the density and detail of the LiDAR returns.

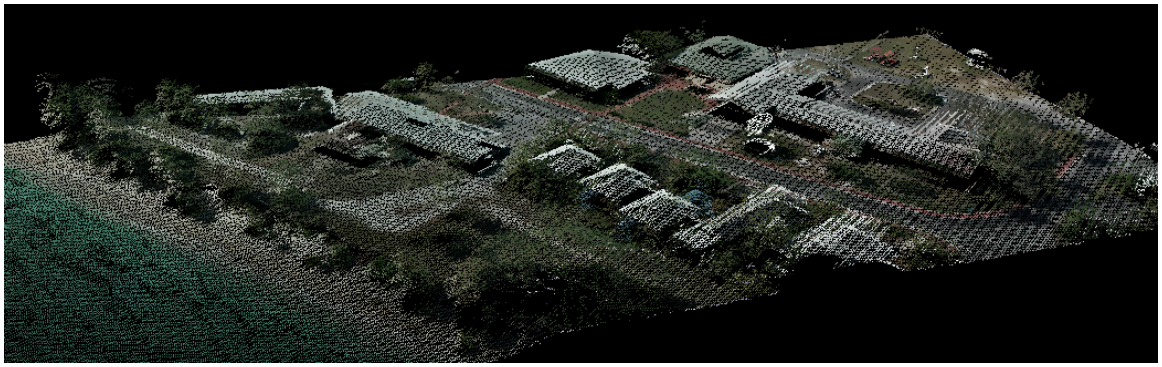


Figure 14: West Island buildings in LP360 3D viewer. Points are coloured by underlying orthophotography.

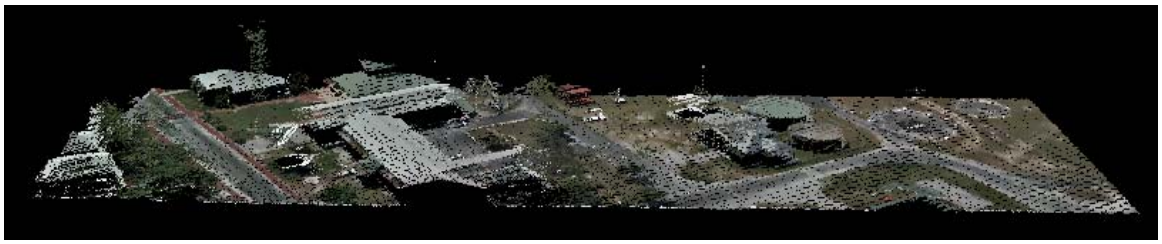


Figure 15: West Island airport buildings in LP360 3D viewer. Points are coloured by underlying orthophotography.

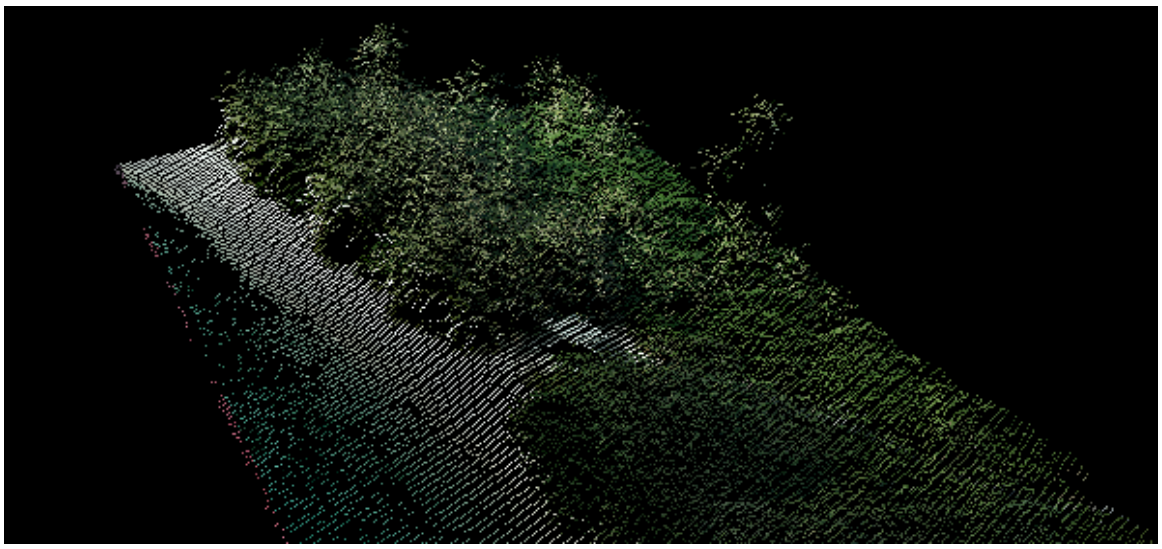


Figure 16: Direction Island shelter in LP360 3D viewer. Points are coloured by underlying orthophotography.

2011 Digital Elevation Model

The 2011 digital elevation model (DEM) grid covers the whole of the Cocos (Keeling) Islands. It was provided by AAM in 1km by 1km ESRI grid tiles, interpolated from the ground returns, which were then joined together to create a DEM (TIFF) using ESRI ArcMap. Each cell, 1m by 1m, in the grid contains the height in metres of the ground surface.

The following information was provided by AAM along with the data:

SOURCE DATA

Item	Source	Description	Ref No	Date
Laser System	AAM	ORION with DiMAC camera	18141A	8-26.08.2011
Pulse Rate Frequency	AAM	150 kHz	18141A	8-26.08.2011
GPS Base Data	Whelans	Static GPS	18141A	8-26.08.2011
Base Stn Coords	Landgate	SSM	18141A	08.2011
Field Survey Data	Whelans	GPS RTK	18141A	9-14.08.2011

LASER DATA CHARACTERISTICS

Characteristic	Description
Format	Las 1.2, TIF (See Data Volume 18141A01NOP)
Captured terrain model	5.5 point/s per $1m^2$.
Model key points	Points not contributing to the terrain definition within 0.10 m removed
Laser return	1st, 2nd 3rd and last
Laser Intensity	Supplied on all pulse returns
Laser footprint size	0.15 m (approximate)
Laser mode	Single Pulse

REFERENCE SYSTEMS

	Horizontal	Vertical
Datum	GDA94	
Projection	MGA	N/A
Geoid Model	N/A	EGM08
Primary Survey control (Cocos Island, MGA47)	**SSM15** 263 649.145 E 8 652 117.503 N	2.791RL (CKIHD)
Primary Survey control (Christmas Island, MGA48)	**SSM 6** 575 554.367 E 8 844 686.779 N	259.897 RL (CIHD)
Control Points (Cocos Island, MGA47)	**SSM101** 270 775.997 E 8 659 677.904 N	1.601 RL (CKIHD)
Control Points (Christmas Island, MGA48)	**SSM9** 575 293.075 E 8 846 649.276 N	301.566 RL (CIHD)
	SSM102 570867.942 E 8 832 551.963 N	218.103 RL (CIHD) Whelans re-surveyed
	SSM129 569002.478 E 8 841 830.035 N	226.151 RL (CIHD) Whelans re-surveyed
	SSM274 573 823.603 E 8 848 309.809 N	17.822 RL (CIHD) Whelans re-surveyed
	SSM700 562 504.983 E 8 841 970.932 N	213.905 RL (CIHD) Whelans re-surveyed

Using a GIS package, the DEM can be coloured according to elevation as shown in the samples below.

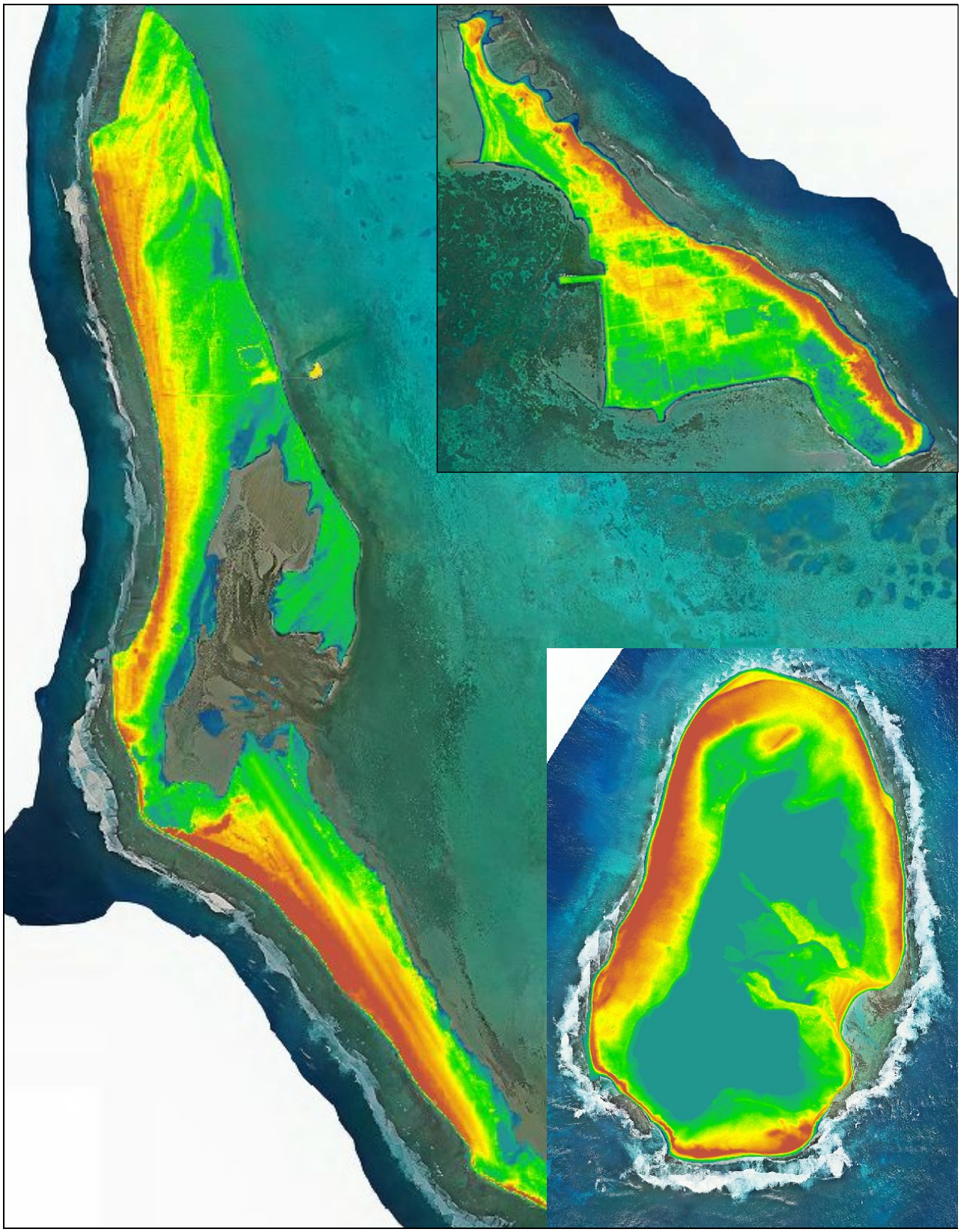


Figure 17: West, Home and North Keeling Islands 2011 digital elevation model samples coloured by elevation. Highest elevation is coloured red.

As a guide, the DEM data is vertically accurate to 15cm and horizontally accurate to 30cm. For a detailed description of the survey accuracy see the AAM Survey Report. The DEM grid file was provided in GDA94 MGA zone 47S and has been left in this projection. Vertical data was collected in the Christmas Island Height Datum (CIHD).Manual checking and editing was carried out by AAM to improve accuracy. Positional accuracy has been checked by Geoscience Australia and was found to match the ground surface well.

Within Quantum GIS the digital elevation model can be utilised in a number of ways. Locations can be coloured based on ground elevation and clicking a place on the map with the identify tool will give the elevation value.

The DEM provides the ability to conduct volume calculations. The low lying area in the pictures below is regularly water logged and in time may extend across the island to the lagoon. The sand required to raise the ground height to level with the inflow was successful calculated as an example of how the DEM can be used. Instructions on calculating volume are included in the Cocos GIS user guides.

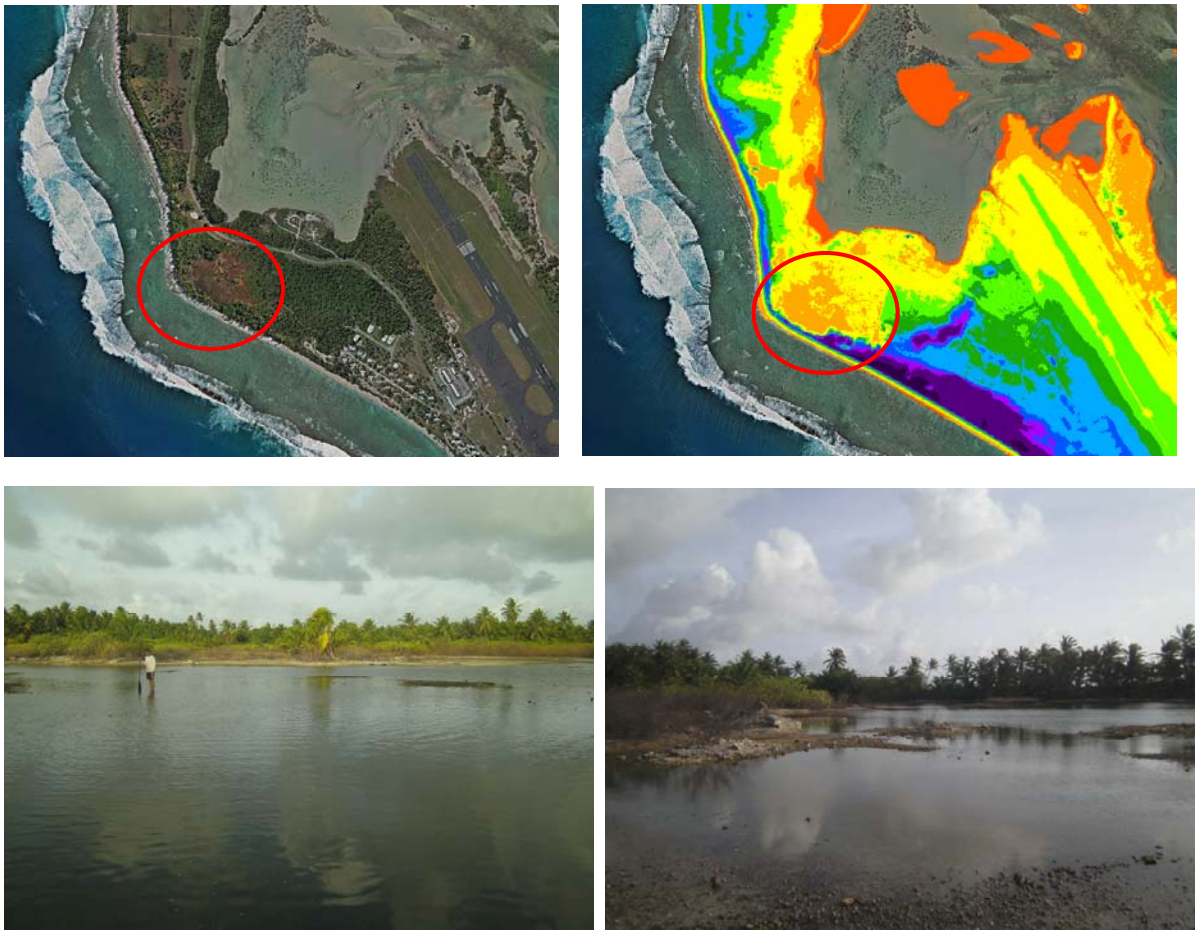


Figure 18: The four images above show the area in the south-west corner of West Island which is often water logged.

Figure 19: Home Island 2011 digital elevation model coloured to highlight areas below 1m.

Preliminary sample shiny colour drape images have been generated from the 2011 DEM to visually highlight elevation. Sample images were created using the software program ER Mapper 7.1 and may be produced for a larger area and improved for future releases.

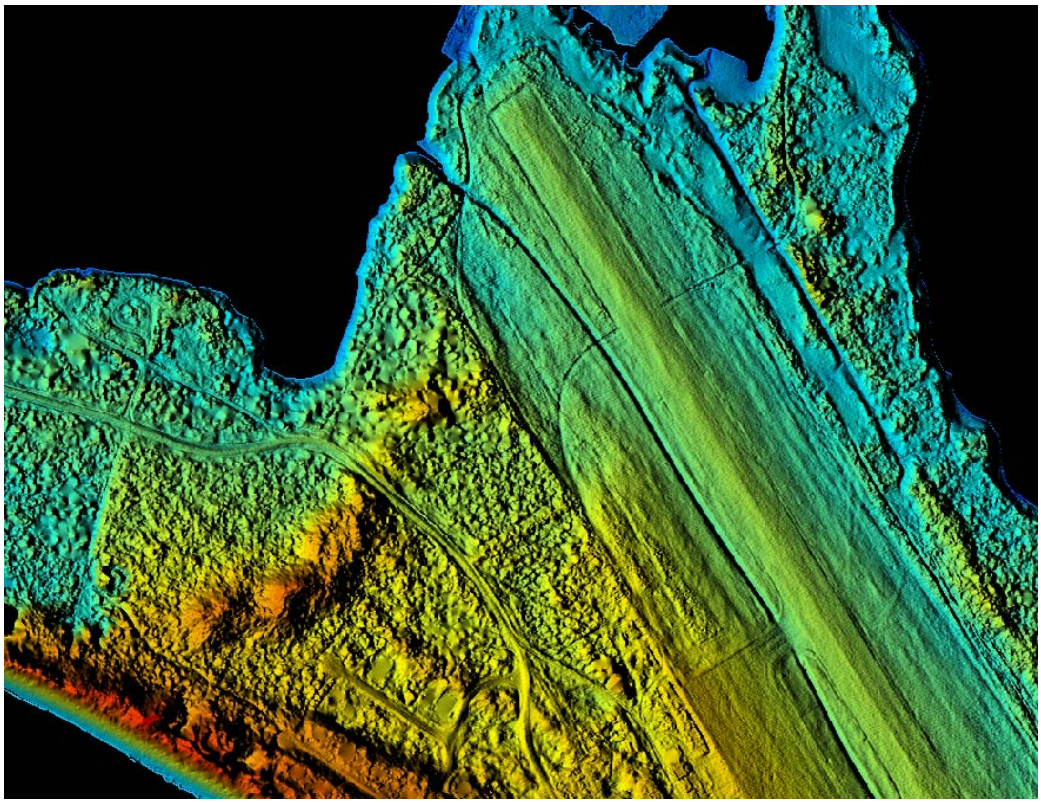


Figure 20: Sample shiny colour drape image generated from the 2011 digital elevation model for a section of urban area on West Island.

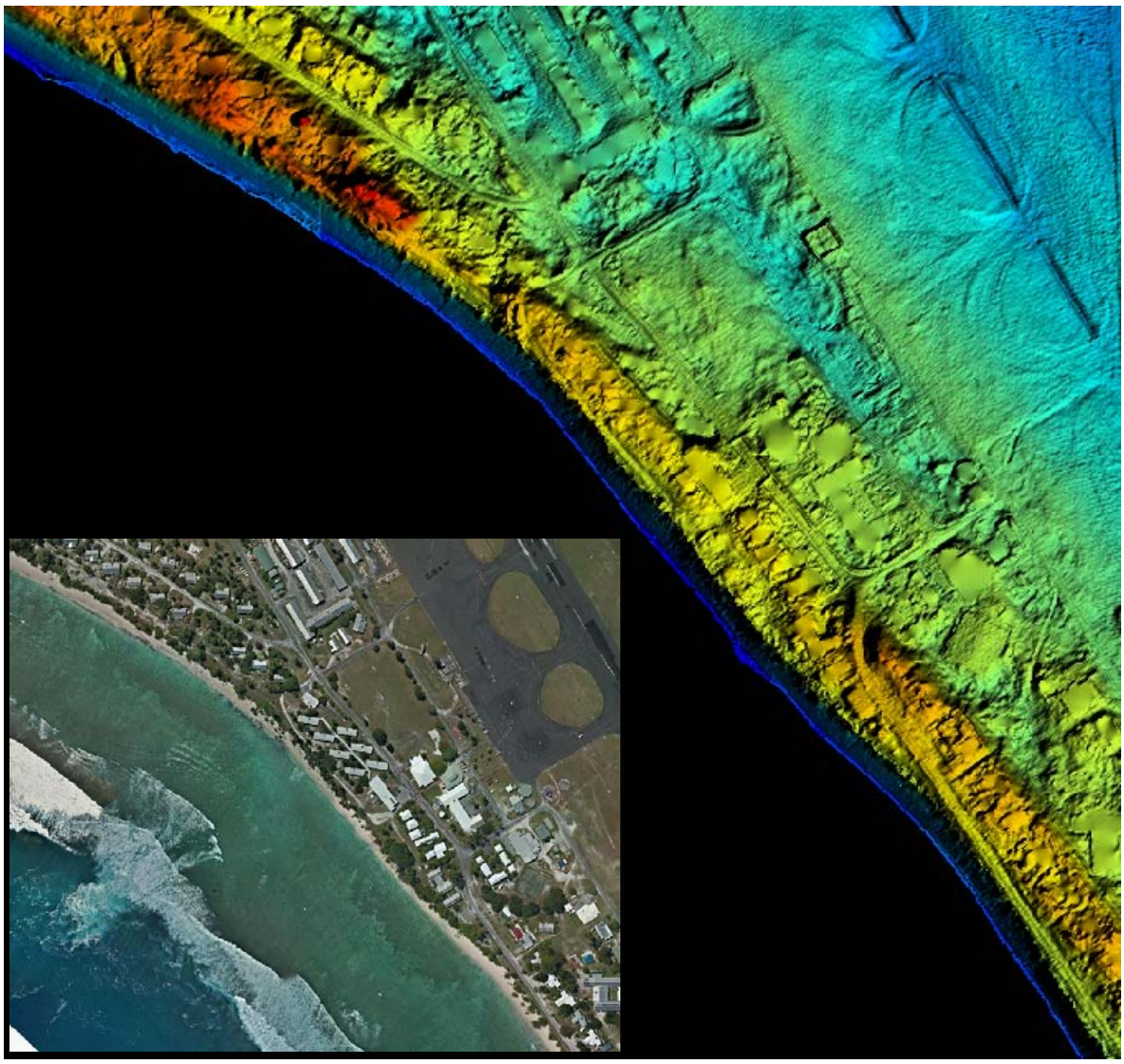


Figure 21: Sample shiny colour drape image generated from the 2011 digital elevation model for a section of urban area on West Island. Orthophotography of the same area is shown in the inset.

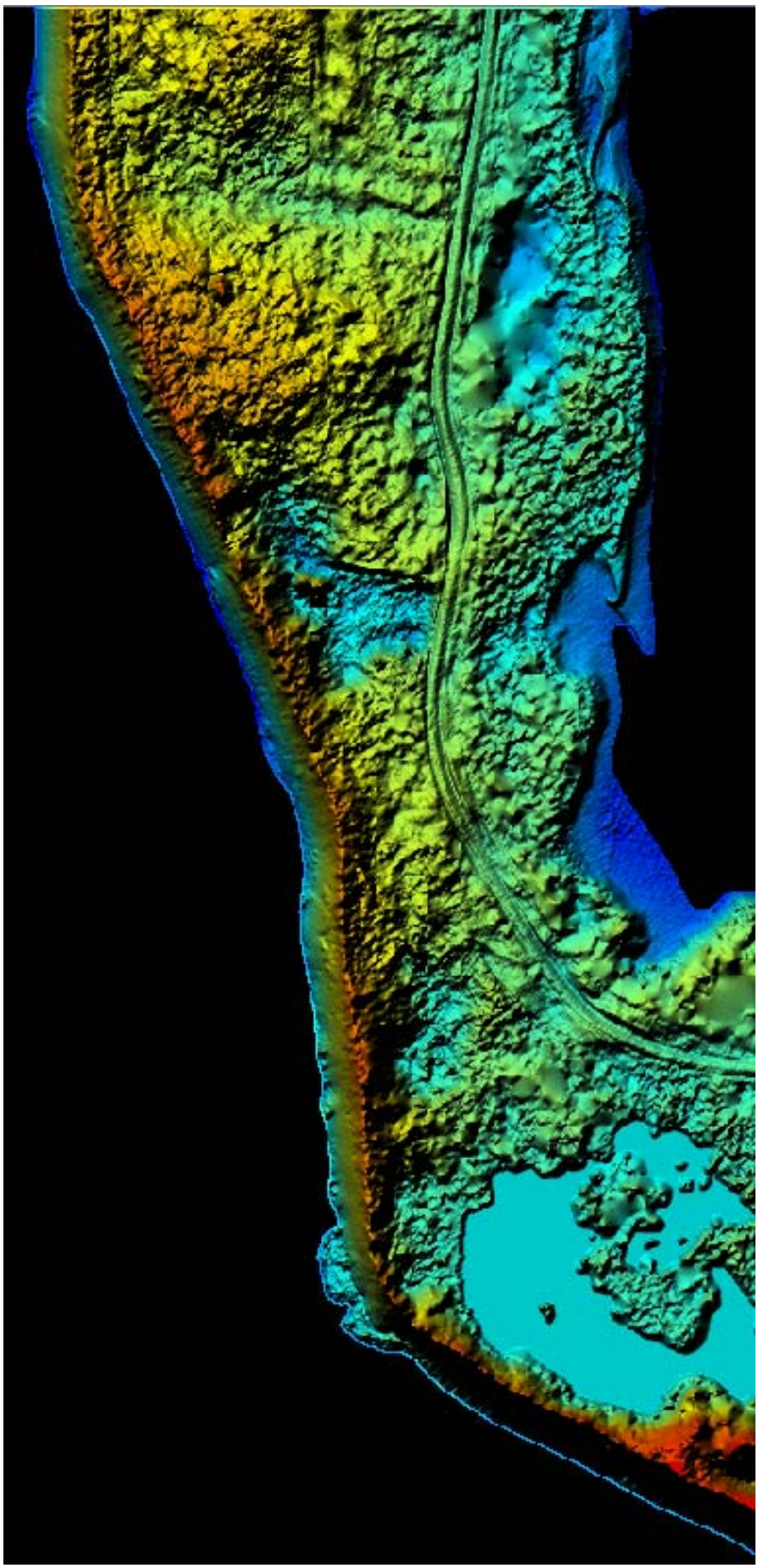


Figure 22: Sample colour drape imagery generated from the 2011 digital elevation model for a section of West Island.

2011 Contours

From the 2011 DEM, 0.5m contours were generated for the full extent of the Cocos (Keeling) Islands. They were generated from the DEM using freeware Quantum GIS. When compared to a sample area generated from the same data but using ESRI ArcMap, the contours were of equal or better quality. Contours of any resolution can be created from the DEM for any part of the islands. Instructions on generating contours are included in the Cocos GIS user guides.

Figure 23: Sample of 0.5m contours generated from the 2011 digital elevation model.

2011 Canopy Height Model and Foliage Cover Model

Along with the orthophotography and DEM data, the 2011 survey included the collection of vegetation information as a canopy height model (CHM) and a foliage cover model (FCM). As with the DEM, the CHM was provided by AAM in 1km by 1km ESRI grid tiles, interpolated from the canopy (high vegetation) returns, which were then joined together to create a CHM (TIFF) using ESRI ArcMap.
Each grid cell (2m by 2m) contains the maximum vegetation height in metres. Canopy height was generated by subtracting the ground height from the first laser return classified as vegetation.

As a guide, the data is vertically accurate to 15cm and horizontally accurate to 30cm. For a detailed description of the survey accuracy see the AAM Survey Report. The CHM grid file was provided in GDA94 MGA zone 47S and has been left in this projection. Tests using the foliage density model have shown that the data is only a good representation of density for approximately the top 2m of canopy. It was not able to be used to distinguish clearly between areas of dense varied vegetation and less dense areas adjacent.

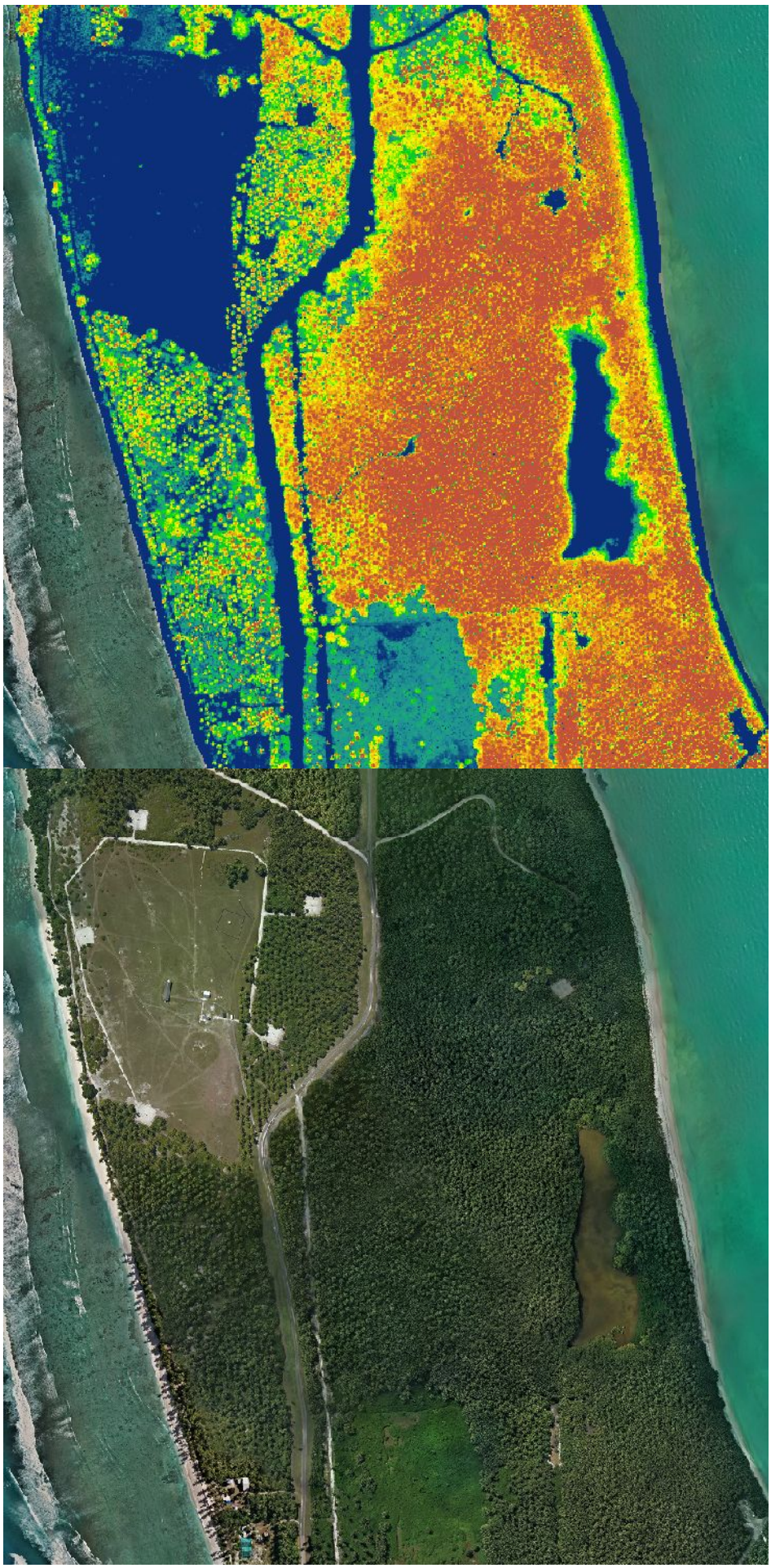


Figure 24: West Island 2011 canopy height model compared to orthophotography

Satellite Imagery

Please read the license for terms and conditions of using the satellite imagery contained the DVD. It is located in the '/CocosGIS/document/licenses' directory under the name of 'MULTIPLE_ORGANIZATION.TXT'. There is also a copy in Chapter 8: Data Licensing and Agreements of this manual.

If you are unsure whether you are a registered user of the satellite imagery please consult the 'registered_users.pdf' file in the same directory. Alternately there is a list of registered organisations at the end of this section and also in Chapter 8: Data Licensing and Agreements.

Quickbird satellite imagery of Cocos (Keeling) Islands was commissioned by the Department of Environment and Heritage in mid 2003. All of the Southern Atoll was supplied to the Australian Government by DigitalGlobe in November 2003 and North Keeling Island was sensed in January 2004. The Quickbird satellite recorded reflectance data of the islands in the red, green, blue, near infra-red and panchromatic bands, in 11 bit format. The resolution of the sharpened satellite imagery is 0.6m/pixel.

Geoscience Australia was supplied with the full multi-spectral data for the Cocos (Keeling) Islands in the form of an 8 bit TIFF image containing the red, green, blue and near infra-red bands. The panchromatic band was also supplied as an 8-bit TIFF. DigitalGlobe undertook pan-sharpening of the satellite imagery, in the process dividing the imagery into four sections. Four 8-bit pan-sharpened TIFFs, one for each of the four sections, containing the red, green and blue bands was supplied to GA. Each pixel on the pan sharpened imagery represents 0.6m. Further details regarding the satellite imagery can be viewed in the full DigitalGlobe documentation 'CocosGIS\data\sat_imagery\DigGlobe_productguide_2003.pdf

Figure 25: The Cocos (Keeling) Islands reprojected as one whole image.

All satellite images were supplied to Geoscience Australia in UTM WGS84 Geographics. GA joined the images using ER Mapper 6.4 and then using the ER Mapper Geocoding Wizard GA reprojected the full image into UTM GDA94. [Previously due to restrictions in computer processing power and a file size limit in ER Mapper 6.3 the four pan sharpened images were reprojected separately which led to gaps appearing at the joins in the four sections.]

Also received from Digital Globe was a satellite image of North Keeling Island. As with the other satellite imagery this was supplied as a multi-chromatic, a pan-chromatic image and a pan sharpened. Using the ER Mapper Geocoding Wizard Geoscience Australia reprojected the image into UTM GDA94.

DigitalGlobe advise that the positional accuracy of the imagery is +/-14.7m RMSE (Root Mean Square Error). Due to this low level of positional accuracy, an XY shift was also applied to more accurately position the imagery by correlation with the lodged cadastre on screen as follows:
Before cadastral re-alignment (see cadastre section of manual):

X=16.9m East
Y=6.9m South

After cadastral re-alignment

X=2.4m West
Y=3.14m South

This shift brought the imagery inline with the current cadastre and reprojected orthophotography.

Figure 26: North Keeling Island satellite imagery after reprojection. Notice that shallow waters around the island become obvious.

Due to disk space limitations these images are stored in ECW (Enhanced Compressed Wavelet) format. The main Cocos Island group is stored in the 'CocosGIS\data\sat_imagery\ecw' directory under the filename of 'cocos_satim.ecw'. The North Keeling Island ECW is located in the same directory with the filename 'nth_keeling.ecw'

	Registered Organisations
1	Department of Regional Australia, Local Government, Arts and Sport
2	Cocos (Keeling) Islands Shire
3	Geoscience Australia
4	WA Department of Industry and Resources
5	WA Department of Land Administration
6	WA Department for Planning and Infrastructure
7	Cocos Island Co-operative Society Ltd
8	Cocos Dive
9	WA Department of Education and Training
10	Cocos (Keeling) Islands Tourism Association

Table 1: Registered users of the satellite imagery bundled with this manual.

Full Notes from The Cocos GIS 2003 release

The satellite imagery was supplied in UTM WGS84 Geographics. Due to limitations of software and hardware Geoscience Australia projected the four 8 bit pan-sharpened TIFF images of the main atoll into UTM WGS84. The four reprojected TIFFs were then joined. As a result gaps between the four sections of imagery were apparent.

The image in it's entirety was saved as an Enhanced Compressed Wavelet (ecw) image, where each pixel represented 0.6 metres. Nineteen 1km x 1km TIFF images, and two 1.5km x 1km TIFF images covering Home, West and Direction Island were created from the image and are included with the 2006 release of the Cocos GIS.

Geoscience Australia shifted the ecw image (X +16m, Y – 7m) to match the more accurately positioned 2003 cadastre shapefile and the orthophotography. The TIFFs over Home and Direction Islands (X +16m, Y -7m) and West Island (X +14m, Y -9m) were also shifted to align with the orthophotography and 2003 cadastre.

Utilities

GHD Surveys supplied waste water, water supply, gas, fuel, power, and telecommunications data in ESRI shapefile format as well as Computer Assisted Drawing (CAD) file format. The utilities data were supplied in the CKIG92 projection. The CAD files are not stored in the GIS DVD due to disk space limitations. GA projected the utilities data to UTM(WGS84) using ArcView and the shapefiles are stored in the 'CocosGIS\data\utilities' directory. Data manipulation prior to receipt by GA can be seen in the original documentation by opening the file 'CocosGIS\document\GHD_meta_util.pdf' located on the DVD.

Figure 27: Data from the Utilities directory includes water supply and power infrastructure points, lines and polygon.

The cd-rom supplied by GHD contained a number of customisations to enhance ArcView's interface. These included a 'metatool' (for viewing the utilities metadata sheet), hotlinks to CAD files and a GHD special font set.

The GHD-supplied custom font allows ArcView to generate point theme legends with custom symbols preferred by GHD. Examples of these can be seen in Figure 4. GA considers that GHD did not adequately document how to implement this special font.

Some of the GHD enhancements required registry edits, installation of DLLs in addition to ArcView extension (AVX) files. This is requires a level of system access not available on

most public service PCs. Consequently these particular enhancements were not implemented by GA.

The font used for GHD symbology is stored on the CIGIS DVD as ‘CocosGIS\data\utilities\Ghdsym.ttf’. In order to view the symbols as GHD intended, install this font by opening your windows font directory (eg. C:\winnt\fonts), clicking ‘File|Install New Font…’, navigating to CocosGIS\data\utilities’, selecting 'GHD Utilities Geocomp Symbols (TrueType)' and pressing ‘OK’.

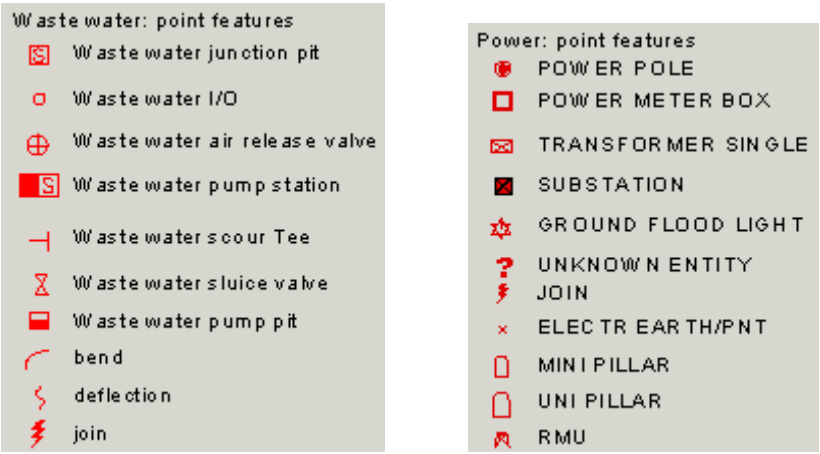


Figure 28: Examples of utilities legends in ArcView after installation of the font containing the GHD symbol set.

Orthophotography

The current release of the Cocos (Keeling) Islands GIS includes repositioned and reprojected versions of the orthophotography matching the included satellite imagery.

Using ERMapper a mosaic of the orthophotography was projected into GDA94 in BIL (Band Interleaved by Line) format. This was then sliced into separate tiles using the 'erswarp' utility which comes included with ER Mapper. An example of usage is shown on the left.

```
erm_run erswarp -j 269529.8070216110
-k 8661242.5412299900 -l
270519.8070216110 -m
8660242.5412299900 -t map -z
G:\\atlas\\anima~aq\\cocos~h_\\home_
~dq.ers
G:\\atlas\\anima~aq\\cocos~h_\\output\
\home2.ers
```

This command must be run from the '\ERMapper*X*\bin\win32' folder.

Note that due to changes in version of ERMapper to 6.4, the erm_run command must be used to initialise erswarp.

To access a full list of usage commands for erswarp run the following in the '\ERMapper*X*\bin\win32' folder:

```
erm_run erswarp -u
```

The full batch file used to create the tiles has been included on the DVD under CocosGIS\document\cocos_tiles.bat.

Notes on Previous Versions

Digital orthophotography has been prepared from aerial photography flown on the 5th April 1987 by the Australian Survey Office Canberra. GA commissioned LandInfo Canberra to generate orthophotography from the 1987 aerial photography as a component of this Cocos GIS project that GA undertook on behalf of Territories Office.

The orthophotography has a 25cm on-the-ground pixel size. A 'pixel' or 'picture element' is the smallest component in a digital image — a pixel is an individual square of colour. The quality of the orthophotography is impressive, with acceptable resolution down to 1:400 scale.

Figure 29: An image captured from the Cocos (Keeling) Islands GIS orthophotography at approximately 1:500 scale, showing clarity and resolution of land and underwater features. Of all the datasets in the GIS, the orthophotography (created from aerial photography flown in 1987) is considered to have the highest overall spatial accuracy.

The orthophotography is considered to be the most accurately located dataset overall. This high quality locational accuracy results from the use of surveyed ground control points in conjunction with recognisable features and a 3D model. In addition, the southern atoll is bridged by an intersecting flight line pattern, which also underpins the high positional accuracy. The triangulation report for the survey control is stored on the DVD at 'CocosGIS\data\orthphto\source\control\aig_ls3.doc' (Microsoft® Word 97 format — a text only version is also stored at that location) and shows there was a good fit of the control from a mathematically rigorously method and pattern. Hardcopy sketches of the survey ground control points are held in archive and are available for inspection.

Orthophotography was generated in Cocos (Keeling) Islands Grid 1992 (CKIG92) by transforming the aerial photography survey control to CKIG92. This involved a projection of the survey control file "aig.ctl" CocosGIS\data\orthphto\source\control\points\original) from

UTM47S (WGS72) to Transverse Mercator (WGS84) with the following parameters plus an XY shift[1] of X=16.86mE and Y=4.12mN:-

False Easting	50000.000
False Northing	1400000.000
Central Meridian	96˚ 52' 30"
Central Scale Factor	1.000000

From experience with similarly created orthophotography and subsequent GPS checks, GA would expect the Cocos orthophotography over the main atoll to be within a meter of its true position. Exceptions to this high level of accuracy are Horsburgh Island and North Keeling Island, which are on unconnected flight lines and did not have reliable ground control available[2]. Initial indications are that the North Keeling orthophotography could be around 35 meters out, and the Horsburgh Island orthophotography could be up to 20 meters out.

The original orthophotography consists of 24-bit colour Tagged Image File Format ('.tif') files taking up about 4.7Gb of disk space. To decrease storage, GA has supplied orthophotography in two reduced size formats:

1. as 256 colour '.tif' tiles suited to both ArcExplorer and ArcView use, and
2. as full colour Enhanced Compressed Wavelet (ECW) compressed images which can be viewed in ArcView using a plug-in[3] provided on the DVD.

Also supplied are ArcView Image Catalogs, which use a single theme to represent all the orthophotograph '.tif' tiles. An attempt has been made to match the digital orthophotography colour to that of the source aerial photography.

In 2003 GA projected the 256 '.tif' orthophotography images to UTM (WGS84) using ERMapper.

ORTHOPHOTOGRAPHY DETAILS

Aerial Photography:
Australian Survey Office, Canberra
Aerial Photography for the Cocos Keeling Islands
Film No: SOC 760
Film Type: colour
Photo Scale: 1:10000
Date: 5-4-87
O/Lap: 80%
Project Name: COCOS KEELING ISLANDS
Run No(s): 1 - 7
Scanning for COCOS GIS: Kevron Aerial Surveys
Orthorectification for Cocos GIS: LandInfo (Canberra)

[1] The XY shift is necessary to accord AUSLIG and ERIN data with the DoLA cadastre data, which has been chosen by GA as the authoritative vector dataset.

[2] Two datasets covered Horsburgh and North Keeling Islands. GA judged the planning data to be more reliable, but the ERIN marine environment data had more resolution. GA warped the ERIN data to match the Planning data, and supplied the resultant coastline data to LandInfo to aid in georeferencing the orthophotography.

[3] File ' ArcView_3.2a_ECW_Plugin_v2.5.exe' in folder 'CocosGIS\util\arcview\extensions'.

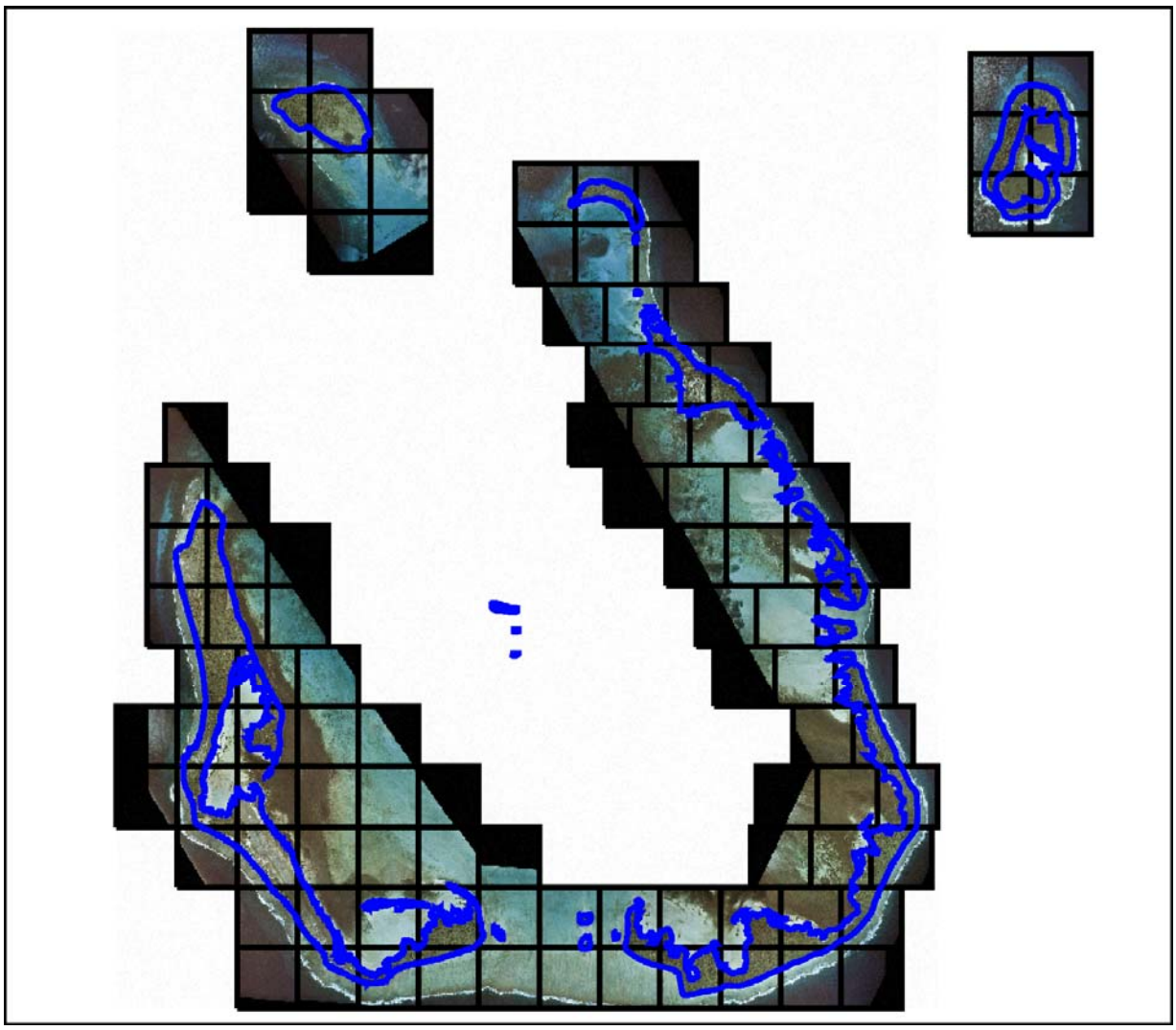


Figure 30: Layout of all 105 1Km X 1Km orthophotography tiles created for the Cocos GIS from the 1987 aerial photographs.

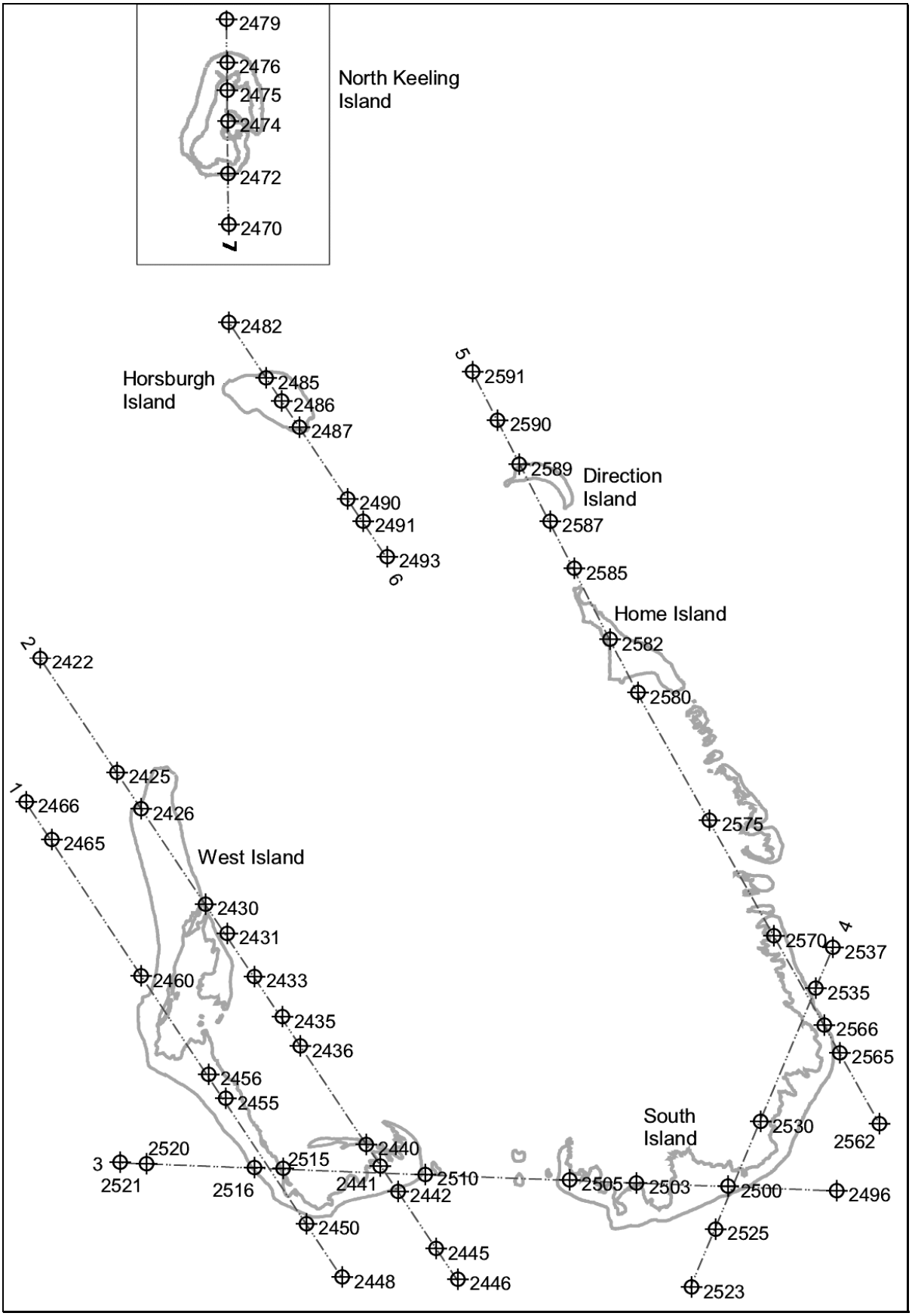


Figure 31: Flight lines and photo centres of the 1987 aerial photographs used for the Cocos GIS orthophotography. Flight lines are numbered at one end of the line.

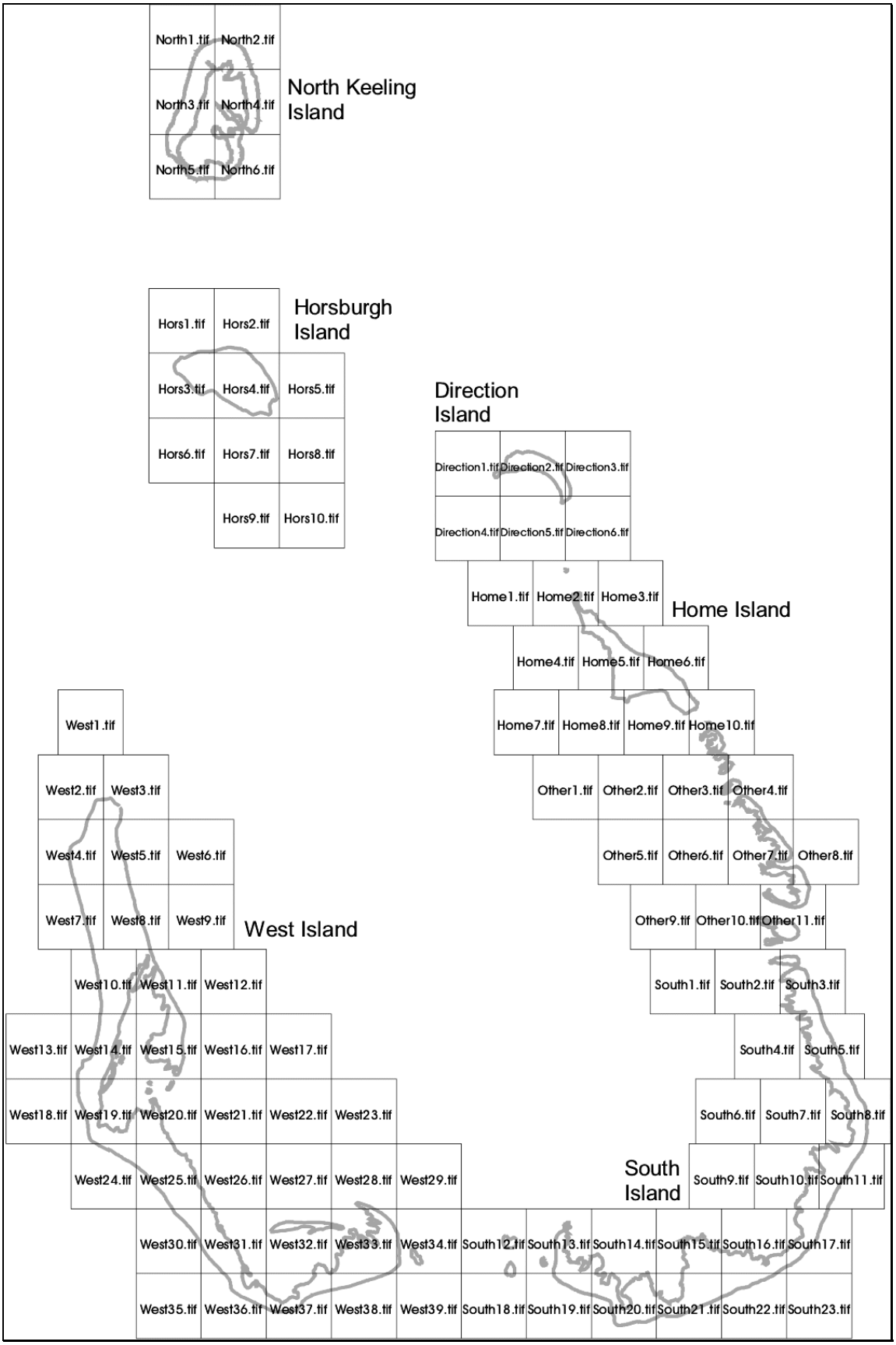


Figure 32: Index of the orthophotography showing the names and extents of each orthophotograph tile. Each '.tif' file is associated with a '.tfw' file which georeferences the image. The index file is stored as a shapefile ('orthindx.shp') for use within ArcView and ArcExplorer projects.

Cadastre and Ground Audit

In December 2004 Geoscience Australia received the scheduled cadastral update from Tony Yeomans of the Department of Land Information (DLI, formerly DoLA). This update consisted of two ESRI shapefiles and two access databases.

One of the ESRI shapefiles contains current property boundary information and the other contains lodged changes to property boundaries. Both ESRI shapefiles arrived at Geoscience Australia pre-projected in UTM (GDA94).

The reason for differences between the lodged cadastre and the current cadastre is that current data could have been calculated or digitized, etc. When lodged data is integrated into current, the area is spatially upgraded with the new survey data (lodged data) as this would be more accurate[4].

One access database contained data relating to tenure information including address. The other contained data on reserves.

In January 2005 Geoscience Australia also obtained ground audit data from Peter Brockmulen of the Department for Planning and Infrastructure (DPI, formerly DoLA). This ground audit was conducted in 2004 at the request of the Department of Territories and Rural Services (DoTaRS) in Western Australia. It contains data describing land use and reserve usage.

To produce the final cadastral information the files were modified and combined as follows.

Due to initial consultation with users of the Cocos GIS it was decided to keep the cadastre containing current property boundaries and the cadastre containing lodged changes to property boundaries separate. As such the following changes were made to each file separately. Additionally the cadastral boundary for North Keeling Island, taken from the last version of the cadastre, was joined to the current cadastre shapefile.

From discussion with users of the Cocos GIS it became apparent that the field LOT_TYPE was causing confusion with it's meaning. This is because it is a computer generated field that does not reflect the tenure of the land. Instead land tenure is derived from the PI_PARCEL field. To avoid this problem GA removed the LOT_TYPE field and replaced it with a TENURE field derived from the PI_PARCEL field and based on the definitions from the NORM manual[5] as supplied by DLI.

Using tenure information from the database supplied by DLI and from the land audit information supplied by Peter Brockmulen, GA joined on the fields ADDRESS, ZONING, RESERVE, PURPOSE and MANAGEMENT were joined on lot number. For multiple instances of lot numbers information was entered manually based on the land audit information supplied by Peter Brockmulen. From reserve data supplied by DLI the fields RSV_VESTIN, RESERVE_US and LGA were joined using the PIN field.

Finally GA made the decision to move the cadastral data to be in line with previous data such as orthophotography. As such the following XY shift was used on both the cadastre and the

---

[4] Email from Tony Yeomans of DLI, 14th February 2005.

[5] NORM files are a series of sequential files which DLI (formerly DoLA) uses to disseminate spatial and tenure data. Each of the files contains attribute data for a single tenure or spatial entity. The content of the NORM files is generally normalised, with data from different files related through common key attributes. *Taken from 'NORM files' September 2—2, by DoLA*

lodged shape files:

X+3.26m

Y-1.04m

This set cadastre data within 0.1m of older versions. In the future GA plans to asses the positioning of the cadastre based on the GPS ground control station on West Island and the satellite imagery.

In the 'CocosGIS\cadastre\cadastre_dli' folder is the lodged and cadastre shape files as projected by DLI but with all data joined.

Figure 33: Cadastre.shp and Lodged.shp overlayed on satellite imagery of Home Island.

Notes on Previous Versions

In August of 2004 DoLA supplied GA with the scheduled update to the cadastre in the form of and ESRI shapefile. The data was supplied to GA pre-projected in UTM (GDA94). Through observation this was found to be accurate and as such GA did not reproject this data.

For the first time this included a positioned cadastral outline of North Keeling Island. Also for the first time the dataset included both the current cadastral tenure boundaries and the lodged changes to tenure boundaries.

To produce the final cadastre the current tenure boundaries and the lodged tenure boundaries were combined (this is no longer the case). Data from previous cadastral tables was then joined using pin number.

In 2003, GHD Surveys Pty Ltd provided GA with an updated cadastre in ESRI shapefile format. This cadastre was supplied in the CKIG92 projection. GA projected the 2003 cadastre to UTM (WGS84) using ArcView.

The 2003 cadastral data cover most of the main group of islands. Horsburgh Island and North Keeling Island were not included in the cadastre.

By observation spatial accuracy was good across all the islands. This can be difficult to check, since cadastral boundaries do not usually correspond to natural features. When compared to the orthophotography (which should be spatially accurate for the southern atoll), features matched well on all the islands.

For previously supplied datasets (eg 30-DEC-99) GA confirmed the coordinate system to be geographic (World Geodetic System 1984). DoLA are confident of the transformation of the original WGS72 data to WGS84 but note earlier co-ordinates are based on a doppler survey and so may not be so accurate[6]. The cadastre is however the most rigorously surveyed vector dataset and so the cadastre was selected by GA to be the authoritative vector dataset.

GA projected the cadastral dataset to CKIG92 using the ArcView 3.2, a projection utility.

The cadastral data cover most of the main group of islands. Horsburgh Island and North Keeling Island were not included in previous versions of the cadastre.

By observation spatial accuracy is variable (the cadastre is difficult to check, since cadastral boundaries do not usually correspond to natural features). When compared to the orthophotography (which should be spatially accurate for the southern atoll), West Island features match well over the whole island. Home Island matches well for the majority of the island, but with significant offset of features at the northern end of the island. Direction Island matches well.

The cadastre for South Island and the small islands of southeast Cocos appears poorly located. For this area, different groups of islands in similar vicinities have different offsets from the orthophotography, suggesting erroneous positioning of the cadastre rather than a general projection error. For the final cadastre version, GA moved some of these individual small islands, and occasionally stretched the features in an X and/or Y direction. The majority of this work was done at a scale of 1:2500. South Island required warping to get a reasonable match to the orthophotography. GA used the ArcView Extension ShapeWarp to register and warp this island and small islands surrounding it. Movements of cadastre features for southeast Cocos tend to be up to 20 meters, but can be around 40 meters.

The original shapefile had some erroneous polygons (43 regions), which had small visible representations and large areas. As these areas did not have attributes and in all cases checked were not unique, they were deleted from the projected shapefile.

The majority of attributes in the final cadastre shapefile are from the Ground Audit data, which were joined to the cadastre using the Pin field.

[6] Pers Comm and e-mail; Linda Morgan, DOLA 21&27/1/00, Ph 08 9273 7135.

Topography and Culture

Data representing topography and culture were received from LandInfo Canberra (on behalf of the Australian Surveying and Land Information Group (AUSLIG)) in design file format (DGN). Documentation was not supplied with this data and is apparently not available. Coverage is restricted to Home and West Islands.

It is probable that the nominal scale of this data is 1:1000 as similar data collected by AUSLIG for Christmas Island are of this scale.

Evaluation of the data suggests that the probable source coordinate system is Universal Transverse Mercator (UTM) Zone 47 (World Geodetic System 1972 (WGS72)). Using this input coordinate system, projection to CKIG92 resulted in a mismatch of coordinates. Using similarly digitised features in the coastlines, GA found that an X-shift (16.86mE) and a Y-shift (4.12mN) of the AUSLIG data resulted in a match with the cadastre for West Island.

Home Island did not match as well and a further X-shift of 2.22 metres East matched the centre of the township on Home Island to ± 0.25 metres. The far Northern end of Home Island is the worst located with features approximately 5 metres West of the orthophotography. In the wharf area, features are approximately 1.5 metres West of the orthophotography. The road features in the far East of the island are approximately 2.5 metres East of the orthophotography, and the South-West of the island matches the orthophotography to ± 0.5 metres. Attempts to warp Home Island features to match the orthophotography were not acceptable.

Figure 34: Topography and culture data from LandInfo Canberra (on behalf of AUSLIG). Labels refer to vegetation polygons (extracted and corrected by GA). These codes cannot be sensibly decoded by reference to the AUSLIG code sheets; they will probably require someone with local knowledge to add a description.

Data derived from topography

Two coverages have been derived from the AUSLIG topography by GA in order to enhance the useability of the data in a GIS. These are a vegetation layer (vegetatn.shp) and a road centrelines layer (roads.shp).

There are a number of features in the original topography data that do not have valid AUSLIG codes. Comparison with the orthophotography indicates that all these codes represent vegetation. GA has extracted these codes and created a polygon layer (in ArcInfo) by including common lines as well as those coded as a particular type. The resulting layer is coded according to the erroneous codes in the original data. Because the level of detail is different from the vegetation layers in the planning data, correlation was not conclusive. Re-coding according to actual vegetation types is recommended if this layer is to be used for analysis. The vegetation appears to match the 1987 orthophotography, and would therefore be out of date in some areas due to the fact that the 1992 planning data documentation reveals that areas have been cleared since the 1987 air photos.

For GIS analysis using a road network, GA has created a road centreline layer based on the topographic data. This was accomplished using the ArcInfo 8.0.2 CENTERLINE command and then manually correcting (in ArcEdit) at intersections and elsewhere based on the original dataset and, to a lesser extent, the orthophotography. Converting to ArcInfo format necessitated dropping the third dimension from the data. GA did not attempt to digitise road features from the orthophotography where digital data did not exist. Users should be aware that the road centreline coverage is therefore incomplete. It would be useful if future work included the addition of further attributes (especially road names — which none of the available topographic and cultural data include).

In 2003 GA projected the topography and culture data to UTM(WGS84) using ArcView.

Detailed Survey

LandInfo Perth supplied detail survey data on behalf of AUSLIG. No documentation was available for this data except for working notes on the CD-ROM. The spatial component of the data was supplied in design file format (DGN). As Ground Audit databases were also supplied with this data, it is possible that the detail survey was associated with the ground audit, which would date it at around 1996. This dataset is valuable in that it contains features such as services (utilities) that are not available in other datasets.

Coverage is restricted to the populated areas of Home and West Islands for the detailed data, with lower resolution data for general coverage of Home and West Islands.

It was assumed that the data was supplied in the UTM Zone 47 (WGS72) coordinate system. Projection to CKIG92 with the addition of an X-shift of 16.86 metres East and a Y-shift of 4.12 metres North appears to confirm this. This is the same XY shift that was applied to both the Topography & Culture dataset and to the Marine Environment dataset. In contrast to other datasets, a good match of features with the orthophotography at the northern end of Home Island has been achieved (this area matches the cadastre). Inside the detail survey area features generally match the orthophotography locationally to within ±0.25 metres. Outside the detail survey area features may be up to ±7.5 metres displaced with respect to the orthophotography.

Many building shapes do not match the orthophotography, to the extent that their shapes are not even close to a match. One row of buildings is consistently displaced by approximately three metres. Many features are mislabelled. For example, map tic marks are labelled as

drainage pipes. It appears that this dataset is incomplete and has certainly not gone through rigorous quality control. Some housing shapes appear to be from an early conceptual plan rather than a survey of housing at the time of this data's creation. Although there is a lot of potentially useful data in this dataset, the logical consistency of both the spatial and attribute components appears flawed. In 2003, GA projected the Detailed Survey data to UTM(WGS84) using ArcView.

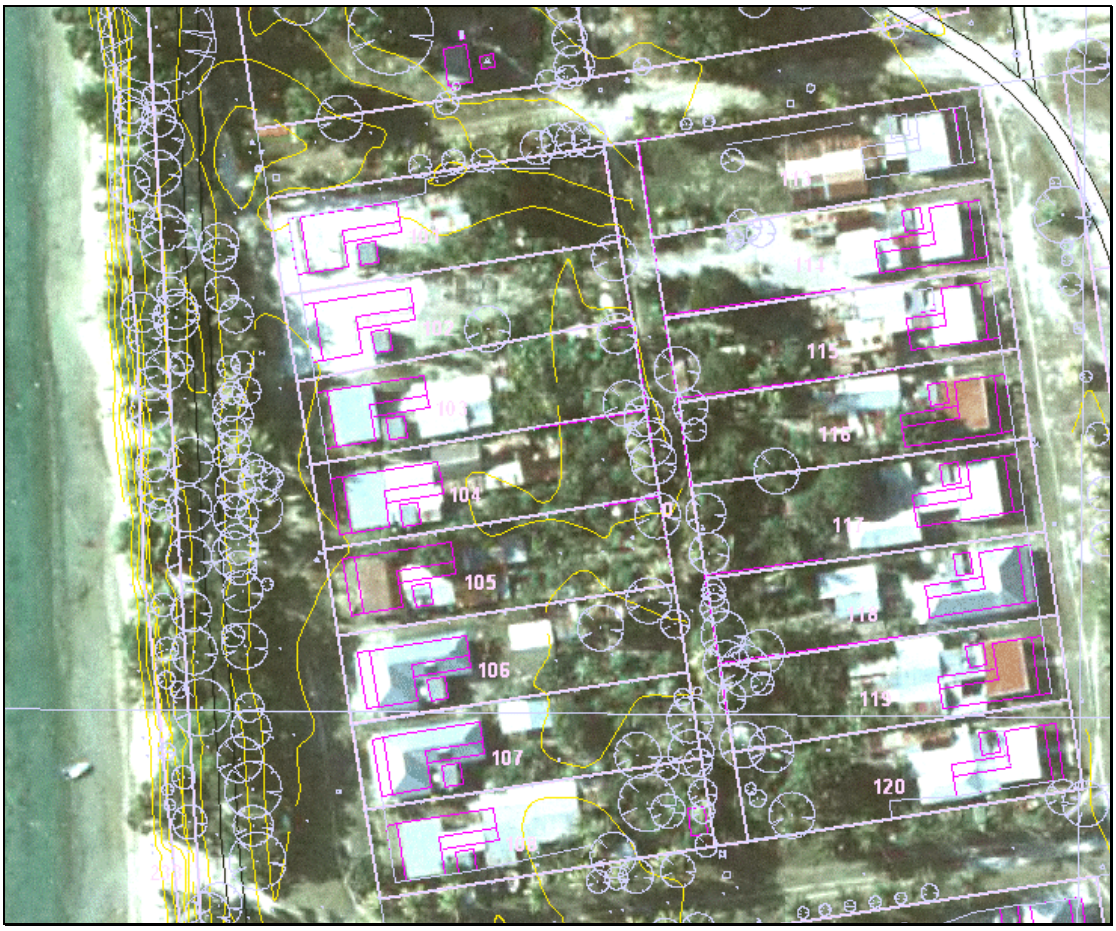


Figure 35: Screen capture of part of Home Island showing poor spatial accuracy for some housing features of the detail survey data. The right hand row of houses has features offset by approximately ± 2.5 metres compared to the orthophotography. Many of the houses also have very different shapes in the data when compared to the orthophotography. It seems probable that these features are not surveyed but retrieved from an earlier, perhaps conceptual, plan.

Side Scan Sonar Paths & Interesting Features

In August 2005, Parks Australia North Cocos (Keeling) Islands (PANCKI), (courtesy of Robert Thorn) provided Geoscience Australia (GA) with sidescan sonar video footage taken from the shipping channel from the north-eastern lagoon entrance through to the blue hole or the oil-tanker moorings. The video footage was supplied on CD-Rom viewable with accompanying software (Imagenex Model 881 Sportscan Digital Sidescan Sonar V1.20).

The video footage was taken over eight days (20-23/11/2002; 4/12/2002; 5/3/2003; 11/3/2003 & 17/3/2003) by Don Shepherd, subcontracted by GHD Pty Ltd and funded by DoTaRS. The purpose of this survey was to confirm the shipping channel and was the final survey before the shipping channel could be opened. It was conducted to ensure that previous contractors had adequately removed obstructions such as coral bombies and placed markers appropriately. Positional accuracy of the sidescan sonar has not yet been received by GA. The instrument trails the shipping vessel on a cable of variable length. Errors are introduced depending on the length of this cable, and also depending on the currents within the water

body. GA is as yet to receive information regarding the cable length used or whether corrections have been made to the sidescan sonar data. GA has tested various locations along the sidescan sonar paths for accuracy. This was done by correlating the path with features distinguishable in the 1987 Orthophotography. From these test locations, GA believes errors to be within +/- 10m. An example of these test locations can be seen in Figure 17 below.

Figure 36: IMAGENEX Sportscan Digital Sidescan Sonar device

Shapefiles have been built from this data to show the paths taken by the sidescan sonar vessel. These were created using the longitude and latitude displayed from the beginning and end of the image paths. It should be noted however that this method assumes the vessel to be moving in a straight line throughout the footage. As the lines have been compiled with only the beginning and end point data it is possible that the vessel did not maintain this straight path and therefore errors may be evident due to this assumption. A coverage of lines was built and projected into UTM Zone 47S (WGS84).

A second shapefile has also been created which shows anomalies noticed by GA within the sidescan sonar footage that may be of interest, such as that in Figure 14 below. The shapefile was produced using the latitude and longitude of the particular point of interest, and was then projected to UTM Zone 47S (WGS84). These two shapefiles are shown below overlayed on the 2003 satellite imagery.

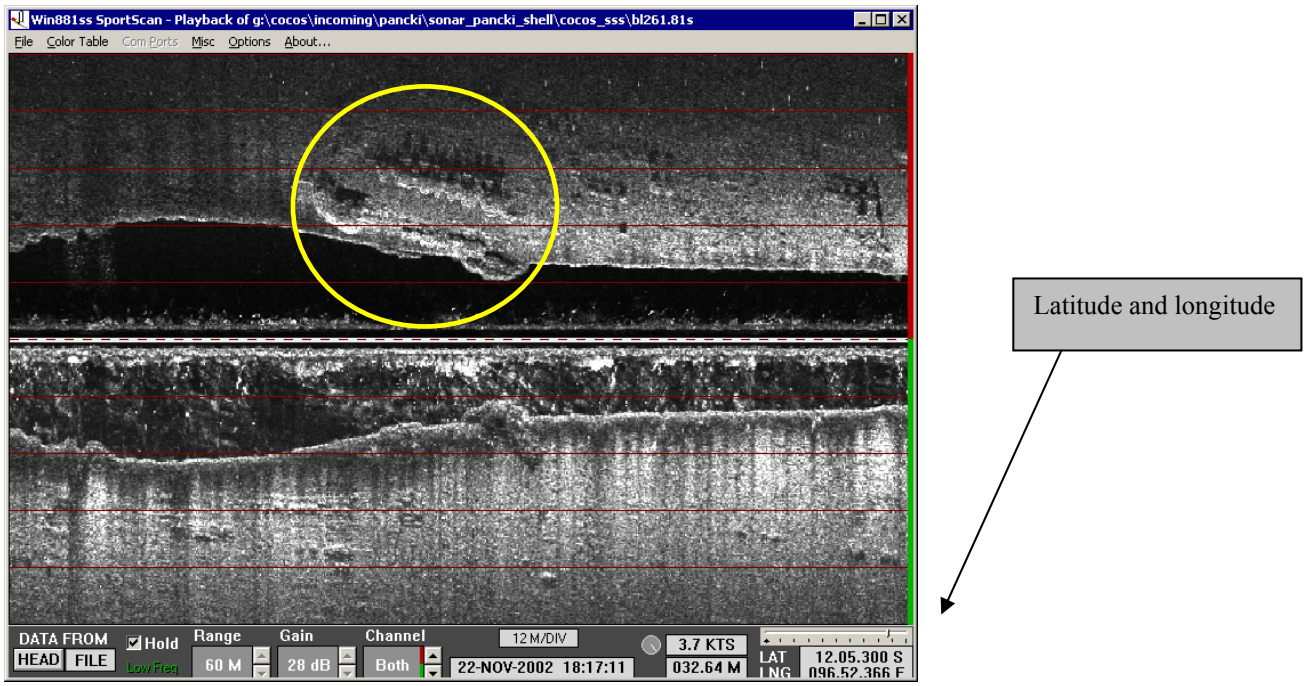


Figure 37. An anomaly within the Side Scan Sonar footage.

GA is as yet unable to provide an explanation of what these anomalies are. Evidence suggests they could be a combination of natural features such as coral bombies or rock strata, or

anthropogenic features such as foundations of past or present navigation markers or perhaps a sunken vessel or war wreckage. Screen captures of these areas have been included on the adjoining pages.

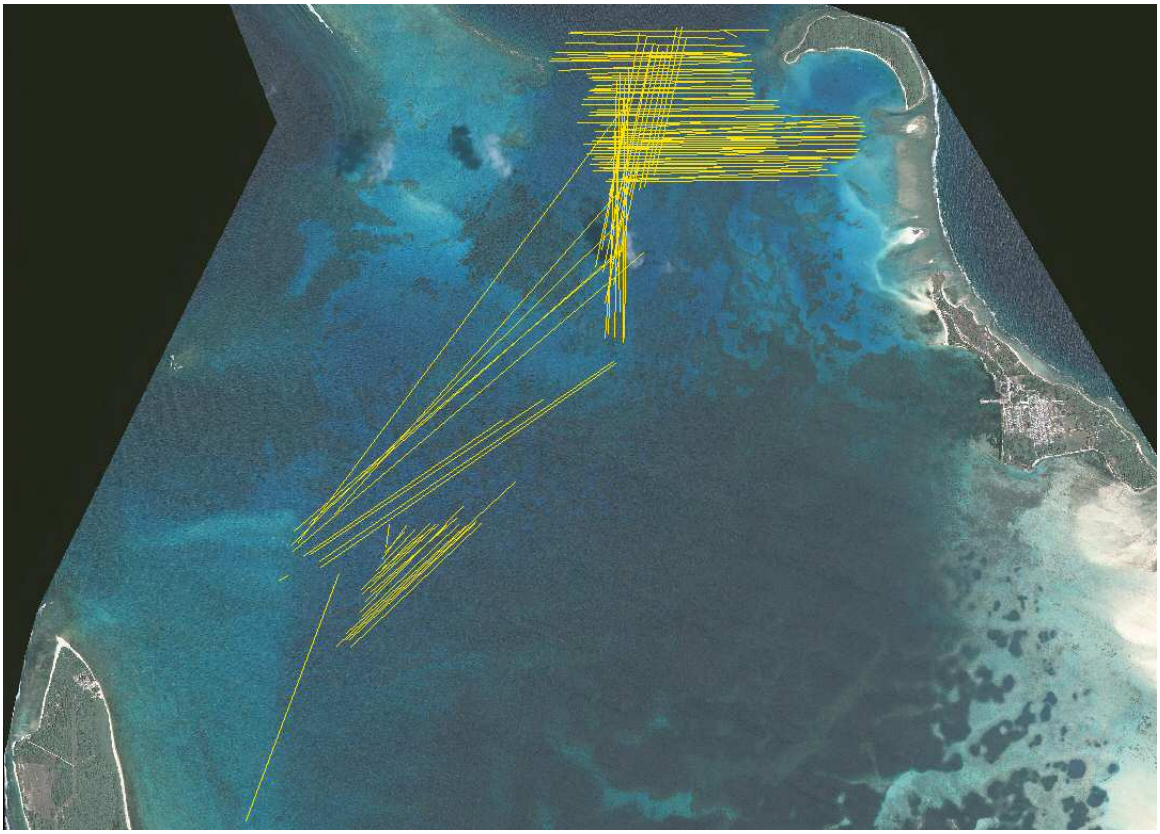


Figure 38: Extent of side scan sonar paths in relation to west and home island.

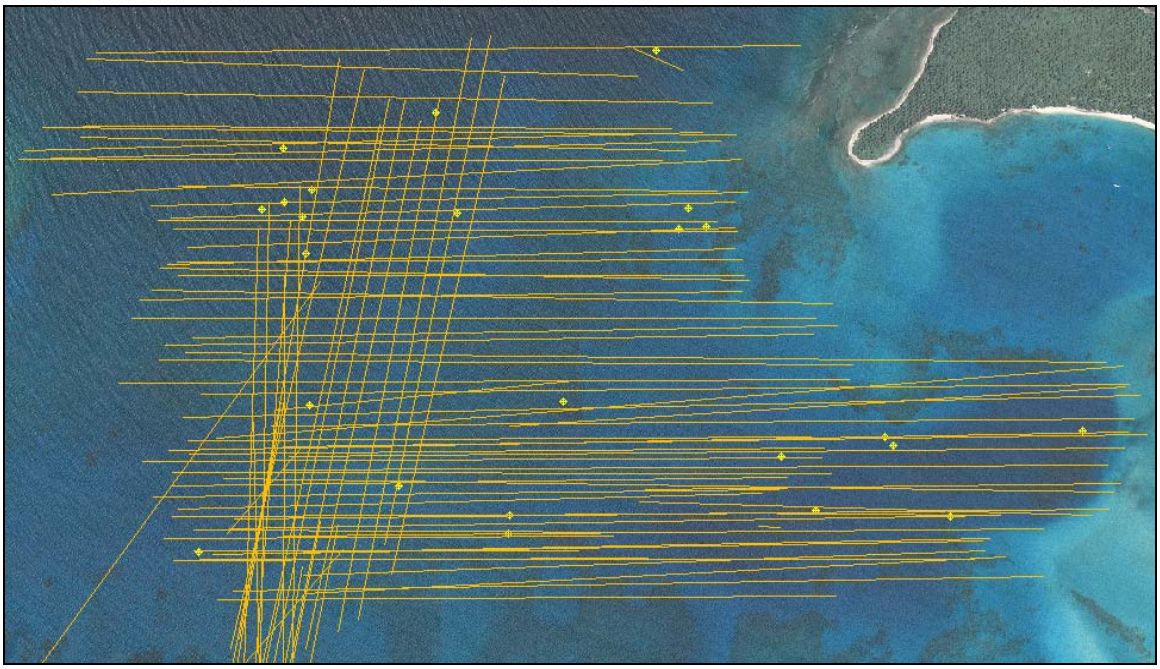


Figure 39: Detail of side scan sonar paths and interesting points, overlayed onto the 2003 satellite imagery.

By overlaying these shapefiles with the 2003 satellite imagery and, where available, the 1987 orthophotography, correlation is evident between rock and coral covered patches of the sea-floor and that data footage captured by the sidescan sonar. This can be seen by comparing the following sidescan sonar image and the 1987 orthophotography of the same area.

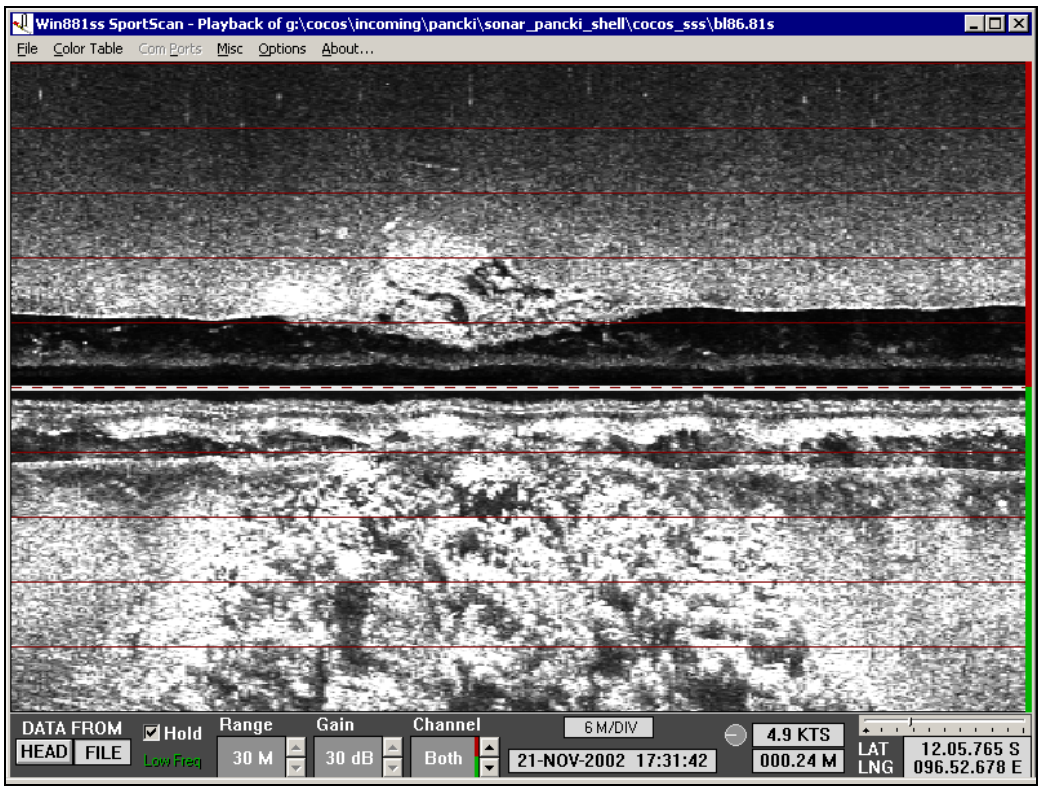


Figure 40: Sidescan sonar image of an area near the Blue Hole. Correlation can be seen between the sonar footage and the satellite image shown below.

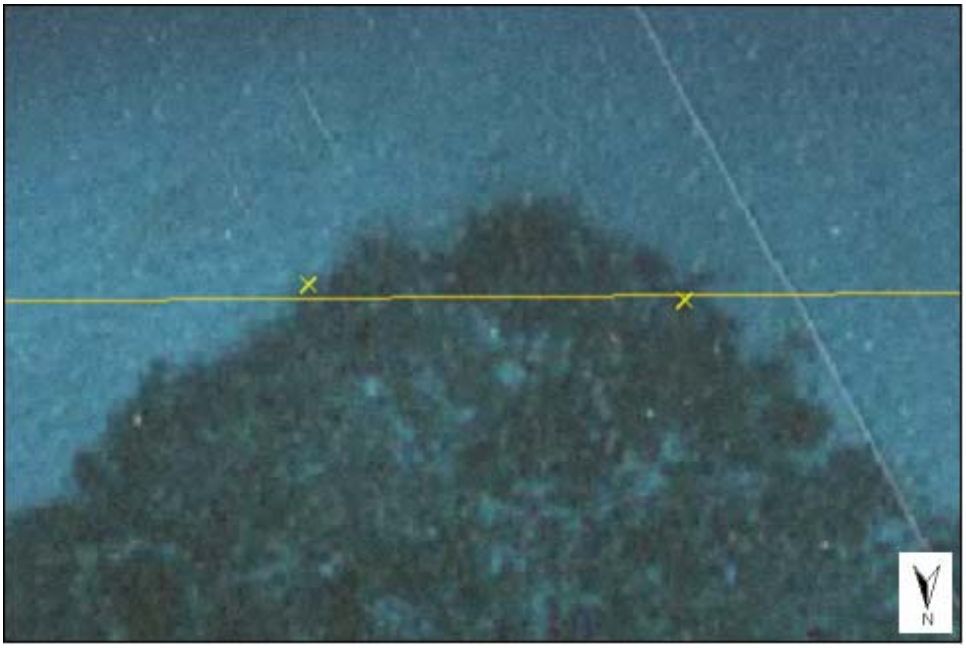


Figure 41: 1987 Orthophotography of the area captured in the sonar footage displayed in Figure 4. Correlation can be seen between the two images (note that the vessel was travelling from east to west).

GA understands the dark band in the middle of the sidescan sonar footage to represent the wake of the boat. Due to the sonar equipment needing to drop 3-4 meters below the boat, it was necessary for water depth to be at least 5 meters. Paths are attributed with the video footage filename. (e.g. bl96.81s, where bl=blue hole and .81s refers to the equipment model. Other prefixes are ch=channel, cl=clearance area, tr, newcl, and south). PANCKI have expressed an interest in investigating some of these anomalies by diving the areas.

Marine Environment

Marine environment data were obtained from the Environmental Resources Information Network (ERIN). ERIN refers to this dataset as *Environment Australia (1998) Whelans Cocos GIS (1998).* This includes coastlines, bathometric contours, coral outcrops and other features.

This data is now supplied on the Cocos (Keeling) Islands GIS.

The data were supplied as ArcInfo export files, but relevant documentation was not available. Documentation provided by ERIN with the data actually referred to a different dataset, namely the Cocos (Keeling) Islands Land Use Plan of 1992.

Evaluation of the marine environment data established a match with the cadastre on West Island using a projection from UTM Zone 47 (WGS72) to CKIG92 plus an X-shift of 16.86 metres East and a Y-shift of 4.12 metres North. This is the same XY shift that was applied to both the Topography & Culture dataset and to the Detailed Survey dataset. However all other islands are significantly mis-located. Attempts to warp these features or to derive a coordinate transformation were not successful. The actual marine zone features appear to be of a relatively low resolution anyway, defining approximate rather than exact boundaries. Interestingly they seem to match the spot image. In 2003 GA projected the Marine Environment data to UTM(WGS84) using ArcView.

CAUTION

It is recommended that the use of the Marine Environment data be restricted to broad-scale applications and that caution be exercised (especially away from West Island) due to poor spatial accuracy.

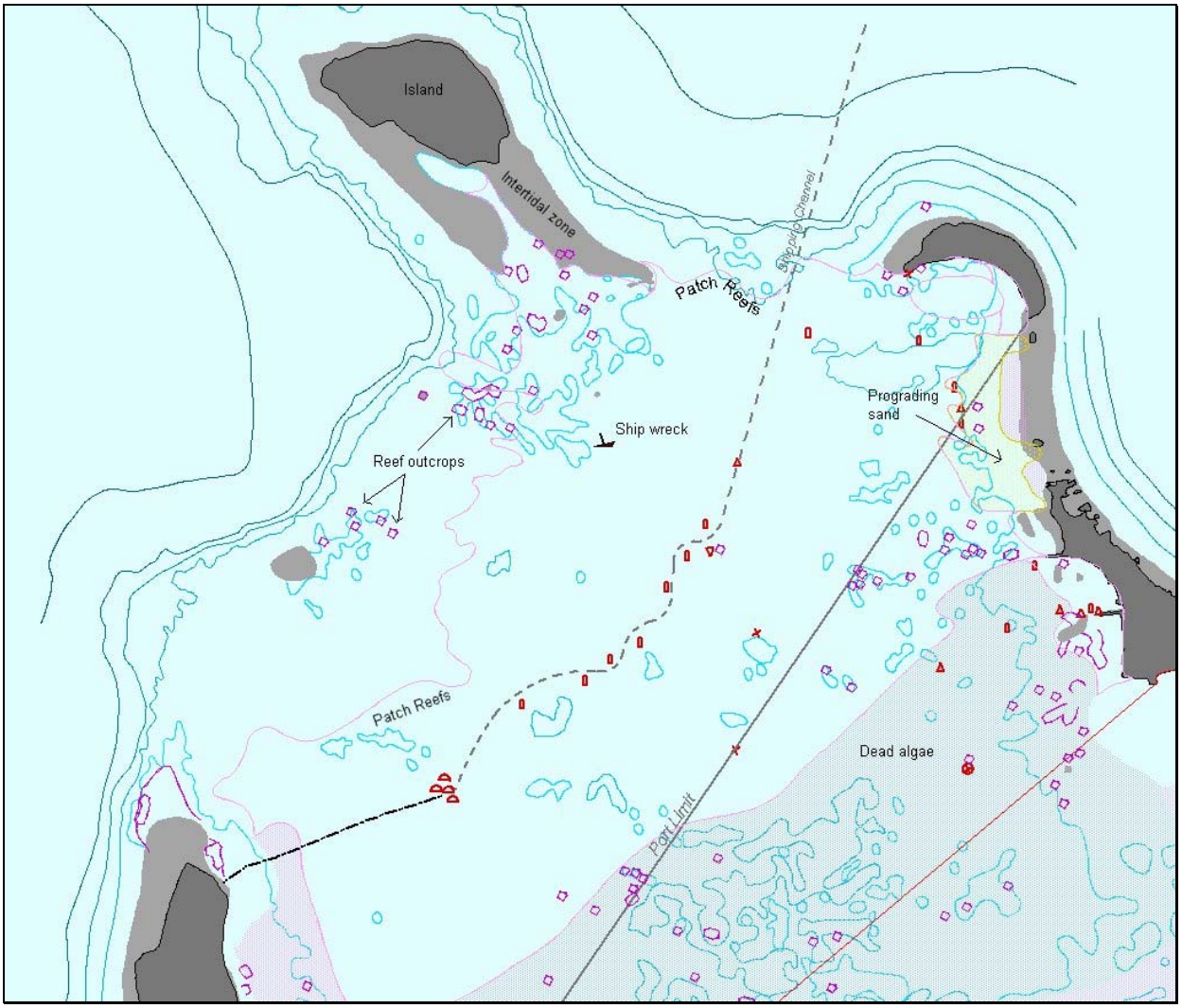


Figure 42: Data from ERIN include marine environmental data, some marine infrastructure and management zones.

Planning

The Cocos (Keeling) Islands Land Use Plan and Planning Scheme (June 1992) was prepared for the Cocos (Keeling) Islands Council by the National Capital Planning Authority (NCPA) and the Commonwealth Department of Arts, Sport, Environment and Territories (ref). As part of the planning study, a geographic information system (GIS) database was established in order to prepare base and thematic maps and to enable the production of high quality figures to illustrate the planning report and to present the plans for public consultation.

The GIS data was stored by NCPA as ESRI coverages and includes planning-related cultural and environmental layers. The data coverage is primarily for the southern atoll, but some include North Keeling Island.

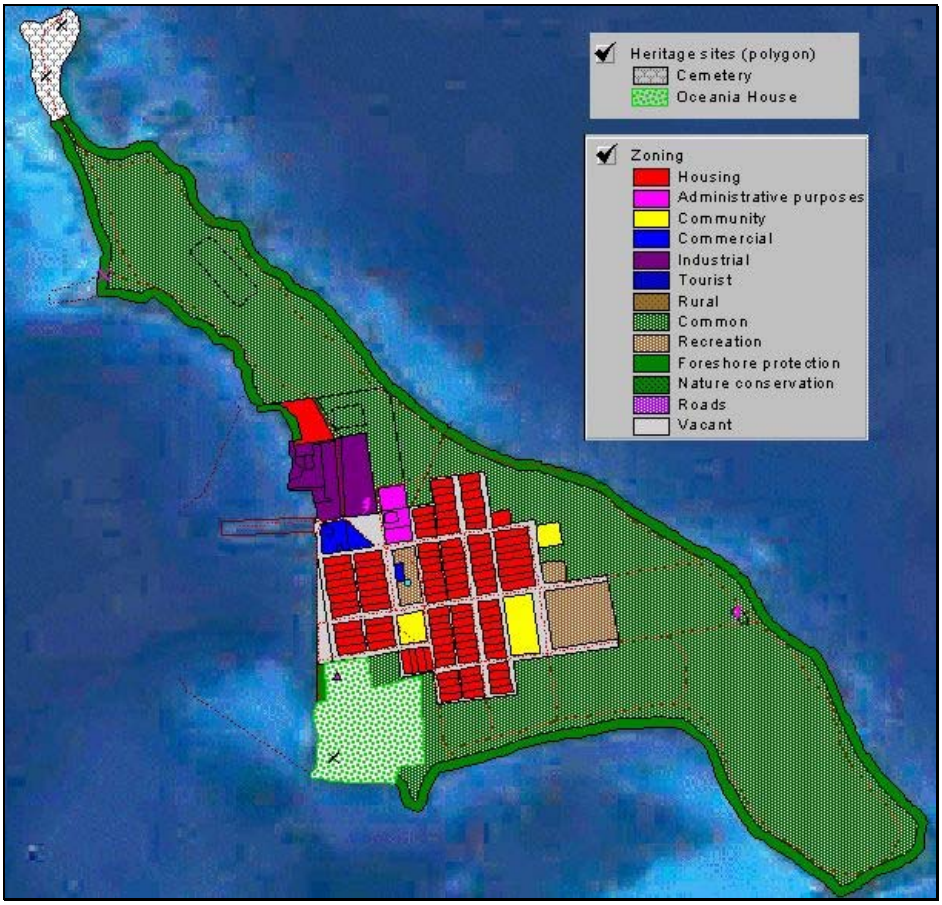


Figure 43: Data from NCPA include the 1992 Planning Scheme, together with over twenty supporting layers — all documented to a high standard.

The source coordinate system is UTM Zone 47 (WGS72). In 2003, GA projected the data to UTM(WGS84). Data accuracy is variable depending on the dataset and location.

Documentation for this dataset is of a high standard (hard copy only was supplied) and includes attribute descriptions and metadata for each dataset. (Chapter 4 is a digital version created by GA of the original 1992 GIS data documentation).

Although this data is often broad scale in nature, it has a large range of useful layers. Some of the NCPA marine data boundaries are more detailed than those received from Environment Australia.

The original digital data includes numeric feature codes whose descriptions were stored in the hard-copy documentation and for some in ArcInfo look-up tables. In some cases the look-up tables' code definitions were different from the hard copy. GA has added fields to the shapefile attribute tables to contain these feature codes and descriptions.

Water Resources

Figure 44: Water resources data supplied by ECOWISE Environmental Ltd includes freshwater lens extents, galleries and other water resources infrastructure.

ECOWISE Environmental prepared water resources data for the Cocos (Keeling) Islands. They were delivered in April 2001 in association with a report prepared for Cocos (Keeling) Islands Administration, Department of Regional Australia, Local Government, Arts and Sport and GA. Data was collected for incorporation into the Cocos GIS and subsequent distribution to stakeholders and other authorised users. ECOWISE Environmental supplied the data in the CKIG92 projection. GA projected the ECOWISE data to UTM(WGS84) using ArcView.

GA has now incorporated the layers into the Cocos (Keeling) Islands GIS and will prepare ANZLIC compliant metadata. Good non-compliant metadata was supplied with the data and is in the ECOWISE report at 'CocosGIS\data\waterres\source\documentation\Report.doc' and Chapter 10 of this report.

These data supersede the water resources layers in the planning dataset.

National Estate

Figure 45: Data from the Register of the National Estate includes point and polygon representations of registered significant sites (historic and natural).

The Australian Heritage Commission, Environment Australia, supplied data of sites on the Register of the National Estate in May 2001. The data were supplied as a polygon shapefile and a point shapefile. The data cover the whole island group, including North Keeling Island. This was supplied in the geographic coordinate system (WGS84). No other metadata was supplied with the data. However the Australian Heritage Commission (AHC) have a website (http://www.ahc.gov.au/register) which contains detailed descriptions of each heritage site and, in most cases, a photograph of the site.

After projection, the majority of polygon boundaries closely match the cadastral boundaries. If they are derivatives, they may have similar positional accuracy. The points, however, have very variable accuracy. Some seem to be based on centroids of cadastral polygons, but many appear to represent the general vicinity of a site.

This dataset includes a number of points and areas which do not appear in the 1992 planning data. The planning data includes a number of points “of heritage interest” which do not appear in this dataset, including Direction Island’s cable station ruins, the wrecks of the *Phaeton* and the *RCL*, West Island’s cemetery and the Twiss Memorial.

Other Data

There are a number of other datasets and digital products supplied on the Cocos GIS DVD.

The 'graphics' directory contains a spot-derived image covering the entire Cocos (Keeling) Islands in JPG format (Cocos_Spot.jpg). Because the original image was very large and had a substantial proportion of featureless ocean, a 256 colour clipped image covering just the southern atoll has been supplied ('CocosGIS\data\misc\spot\sthaspot.tif'). It is recommended that this clipped image be used in the GIS as a backdrop only - the positional accuracy is not sufficient for full GIS use. This is a scan of a DoTaRS poster, with the scanned image pixel size representing about 5 metres on the ground. Poster printing, scanning and JPEG resampling have degraded colour information. It is not recommended for scales closer than 1:50,000. This image does however give some indication of marine features in the central lagoon beyond the extent of the orthophotography.

The 'data/misc/property' directory contains spreadsheets with property information. GA has converted these Microsoft® Excel format spreadsheets to Dbase V tables for use in ArcView. This involved changing some field names to comply with Dbase limitations. The DBF tables can be added to ArcView as tables, and where a Pin or Loc/Lot No exists in the table, can be joined or linked (for 1 to many relationships) to the cadastre attribute table.

The 'CocosGIS\data\misc\oceansub' directory contains data relating to an Expression of Interest and subdivision proposal for the Oceania House lot on Home Island. This is an example of use of the Cocos GIS prior to its completion. Of most interest in this directory is a CAD (DXF) file of the subdivision. This file is supplied in 'CocosGIS\data\misc\oceansub\Lot14.dxf'. It is not geographically located so cannot be overlayed on Cocos GIS layers. GA could easily do the geolocation as part of future work, but future Department of Land Inforamtion (DLI) cadastre updates should reflect the new subdivision. The data can be viewed in ArcView if the Cad Reader extension is enabled.

In the 'CocosGIS\graphics' directory are digital copies of several maps and posters. The maps are stored as postscript (EPS) and Adobe® Acrobat (PDF) files. The poster is stored as a JPEG image file.

Chapter
3

Further Work

GA has identified areas where improvement could be made in several datasets. These could be addressed in future work if required.

Annotation Capture

Some datasets have annotation that is yet to be captured as attributes. The capture of annotation as attributes is useful for full GIS functionality. An important example is the contour labels in the detail survey, which are the only height information stored in that dataset. A height attribute for this data would vastly improve the value of the data. A particular example is the wreck of the Emden, which is identified only as a shipwreck in the attributes but as the Emden in annotation.

Cadastre Updates

The digital cadastre will need regular updates to maintain currency. DoLA has indicated that revision of the cadastral layer is ongoing. These should be incorporated into the system as resources allow. In addition further entries and updates could be made in the ground audit table.

Geographic Names and Road Names

Probably the most authoritative feature layers (the cadastre and the topography/culture data) do not have geographic names as attributes or annotation. The planning scheme data does have some named features (eg. island names in English and in Malay) and these could be transferred as attributes to more detailed feature layers if this is appropriate. Most road names are missing from all datasets that are currently in the Cocos GIS.

Other Data Improvements

A number of other limitations and weaknesses in the current datasets could be addressed in future. Some important potential improvements are:

- joining of the contour lines where broken (ideally completion of the contour coverage of the islands);
- improved spatial accuracy of orthophotography over North Keeling Island and Horsburgh Island (this would require authoritative coastline and/or recognisable survey marks);
- checking and correction of erroneous attribution in detail survey data;
- update of metadata to ANZLIC version 2, and storage as XML files;
- proper coding of vegetation layer and resurveying if and where necessary; and
- surveying of authoritative coastlines (especially south of Home Island and east of West Island, North Keeling Island and Horsburgh Island), remaining aware that the coastline in detail is variable over time.

References

National Capital Planning Authority and the Commonwealth Department of the Arts, Sport, the Environment and Territories, 1992, Cocos (Keeling) Islands Land Use Plan and Planning Scheme (June 1992). Prepared for the Cocos (Keeling) Islands Council.

National Capital Planning Authority (P. Kendall) and the Commonwealth Department of the Arts, Sport, the Environment and Territories, 1992, Geographic Information System Database Accompanying Documentation for the Cocos (Keeling) Islands Land Use Plan and Planning Scheme (June 1992). Prepared for the Cocos (Keeling) Islands Council.

Australian Estate Management with input from AUSLIG, AVO and AGS, 1996, Indian Ocean Territories Ground Audit Module 1 Final Report. Prepared for the Territories Office, Commonwealth Department of the Environment, Sport, and Territories.

Department of The Arts, Sport, The Environment, Tourism and Territories 1991, TERR BCH – COCOS (K) ISLANDS DEVELOPMENT PLAN – MAPPING. Unclassified file no. 91/06398

Department of Land Administration (DoLA), 1992, Christmas Island & Cocos (Keeling) Islands Land Tenure System Project Planning & Detailed Costing Report

Bureau of Transport Economics 1998, Cocos (Keeling) Islands Regional Analysis Report prepared for the Indian Ocean Territories Review

ECOWISE Environmental Ltd, 2001, Report on Water Resources Component, Cocos (Keeling) Islands GIS, by Tanya Whiteway and Tony Falkland, prepared for Cocos Island Administration, Department of Transport and Regional Services & the Australian Geological Survey Organisation April 2001

GA Catalog details for the Cocos GIS (#61840):

Cat # : 61840 Flags **Product :** Y **Publication :** N **Dataset :** N **Resource :** N **WWW :** N
Title : Cocos (Keeling) Islands GIS
Medium : **Scale :** **Contact :** Keith Porritt
Type : One-Off Product **Sub Type :** No Subtype Available **Project Id :**
Pub'n Source : **Pub'n Year :** 2005 **Vol / Part :** **ISBN :**
Abstract : The Cocos (Keeling) Islands Geographic Information System (Cocos GIS) is a collection of spatial data, viewing and analysis tools dealing with the Cocos (Keeling) Islands. The data include orthophotography, topographic, cultural and environmental features both of the islands and the ocean immediately surrounding them.
---------- Bounding Rectangle ----------
N Latitude : -11.8 **S Latitude :** -12.25 **W Longitude :** 96.8 **E Longitude :** 96.95
Comments :
Data projection is Cocos (Keeling) Islands Grid 1992. Data scale is variable, due to the data being collated from various sources.
---------- List of Authors ----------
Name :
1 Porritt, K.P.
2 Petersons, S.I.
Theme :
GIS
culture
information management
topography

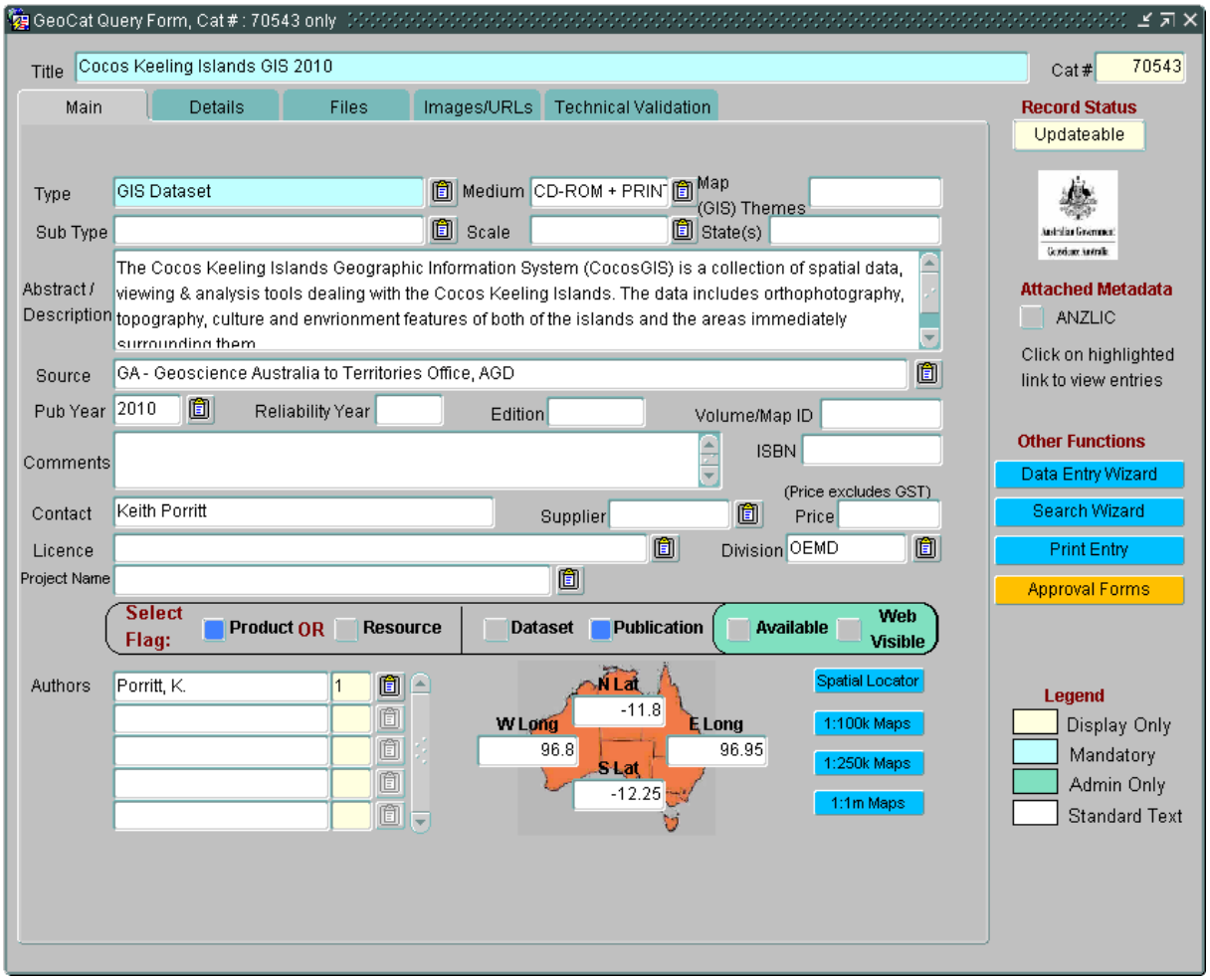


Figure 46: Cocos GIS GA Catalog entry (#70543).-

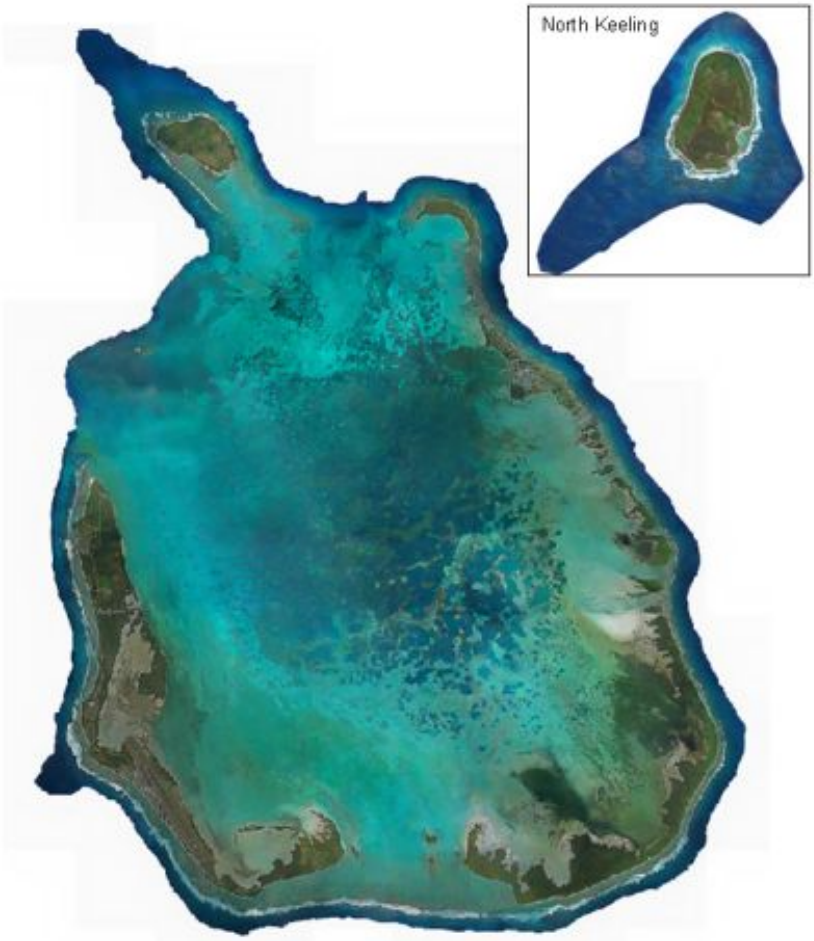
Chapter

4

Appendix 1: Metadata

Hard copy versions of the electronic metadata sheets. These metadata sheets comply with ANZLIC core metadata standards.

Cocos (Keeling) Islands GIS
Cocos Island 2011 Orthophotography
Metadata

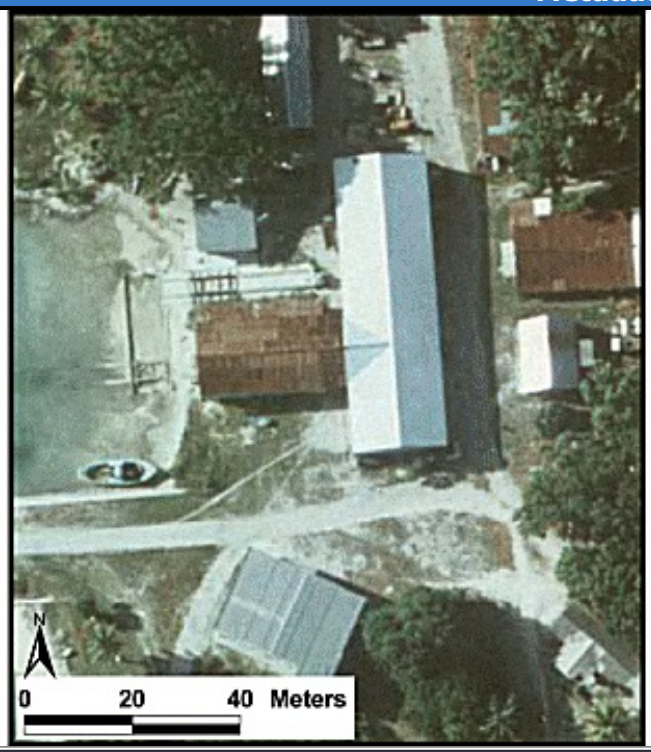


Dataset	
Title	Cocos Island 2011 Orthophotography
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	Between the 8th and 16th of August 2011 aerial photography of Cocos (Keeling) Islands was obtained by AAM using light aircraft. The imagery has a 15cm on ground pixel size resolution. This metadata sheet refers to the orthophotography mosaic of the Cocos southern atoll (Cocos_2011_orth.ecw) and of North Keeling (N_Keeling_2011_orth.ecw). AAM also provided the imagery to Geoscience Australia as 1km ecw and tiff tiles, along with the raw non-georeferenced images. Only the Christmas Island full mosaic is provided in the CIGIS package. Other data can be requested from Geoscience Australia.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Aerial PHOTOGRAPHY AND IMAGERY Plan
Geographic Extent	Cocos (Keeling) Islands Edition 1 2010 1:25000 -

Name(s)	Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	8 August 2011
Ending Date	16 August 2011
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	Not planned
Access	
Stored Data Format	DIGITAL - TIFF/ECW
Available Format Type	DIGITAL - TIFF/ECW
Access Constraint	None
Data Quality	
Lineage	In 2011 AAM was commissioned by the Commonwealth to obtain orthophotography of Cocos (Keeling) Islands. The survey was carried out using a fixed wing aircraft between the 8th and 16th of August 2011. All imagery was captured using a DiMAC UltraLight 50mmm Lens camera within approximately 2 hours of low tide. During this period tides ranged from 0.4m to 1.3m. The photo frame and tide height table lists the approximate tide height for each raw photo. Using an automated process, raw images were joined to form two mosaics, one of the Cocos southern atoll and one of North Keeling island. Colour balancing and replacement of certain areas with alternate raw images was performed for consistency. The imagery has a 15cm on ground resolution. For a detailed description of the aerial survey data please see the AAM Survey Report. The orthophotography was provided to Geoscience Australia in GDA94. It has been converted to UTM WGS 84 zone 47s using ESRI ArcMap.
Positional Accuracy	As a guide, the orthophotography is horizontally accurate to 30cm.
Attribute Accuracy	Not Relevant
Logical Consistency	Not Relevant
Completeness	Complete.
Contact Information	
Contact Organisation	Geoscience Australia

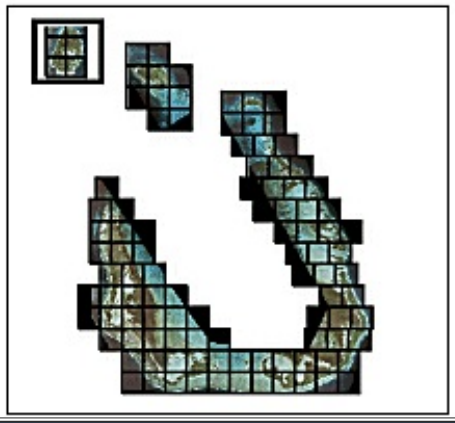
Contact Position	Keith Porritt
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	8-3-2012
Additional Metadata	
Projection	UTM (GDA94) zone 47s

Cocos (Keeling) Islands GIS
© Orthophotography
Metadata



Orthophotography

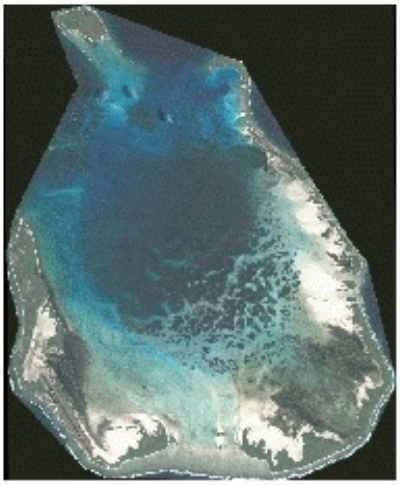
Orthophotography covers all Cocos Islands.
The sample (left) shows the vicinity of the jetty on Home Island



Dataset	
Title	Orthophotography
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	Colour orthophotography of the Cocos (Keeling) Islands, derived from aerial photography taken over the islands on 5th April 1987 (islands only, not including the lagoon). The orthophotography has a 25cm on-the-ground pixel size. The quality of the orthophotography is impressive, with acceptable resolution down to 1:400 scale.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Aerial PHOTOGRAPHY AND IMAGERY Orthophotography
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	05APR1987
Ending Date	05APR1987
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	as required
Access	

Stored Data Format	DIGITAL - ERMapper ERS & TIFF/TFW
Available Format Type	DIGITAL - ERMapper ERS & TIFF/TFW
Access Constraint	See contact details below.
Data Quality	
Lineage	Aerial photography was flown by Australian Survey Office Canberra in 1987, scanning was done by Kevron Aerial Surveys and orthorectification by LandInfo (Canberra) in 2000. In December 2003 GA projected the data to UTM (WGS84) zone 47S. In February 2005 GA reporjected the imagery as a whole and re-cut the tiff imagery to improve visualisation of data.
Positional Accuracy	GA expects the Cocos orthophotography over the main atoll to be within a meter of its true position. Exceptions to this high level of accuracy are Horsborough Island and North Keeling Island, which are on unconnected flight lines and did not have reliable ground control available. Initial indications are that the North Keeling orthophotography could be around 35 meters out, and the Horsborough Island orthophotography could be up to 20 meters out.
Attribute Accuracy	not applicable
Logical Consistency	not applicable
Completeness	Appears complete for all areas. Georeferencing of Horsburgh and North Keeling Islands has not proven to be very accurate.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Keith.Porrit@ga.gov.au
Metadata Date	13-1-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47S

Cocos (Keeling) Islands GIS
Satellite Imagery
Metadata



Satellite Imagery
Top: Detail of Home Island
Above Left: Newly included image of North Keeling Island
Above Right: The Cocos Atoll

Dataset	
Title	Satellite Imagery
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia
Description	
Abstract	Pan-sharpened satellite imagery of the Cocos

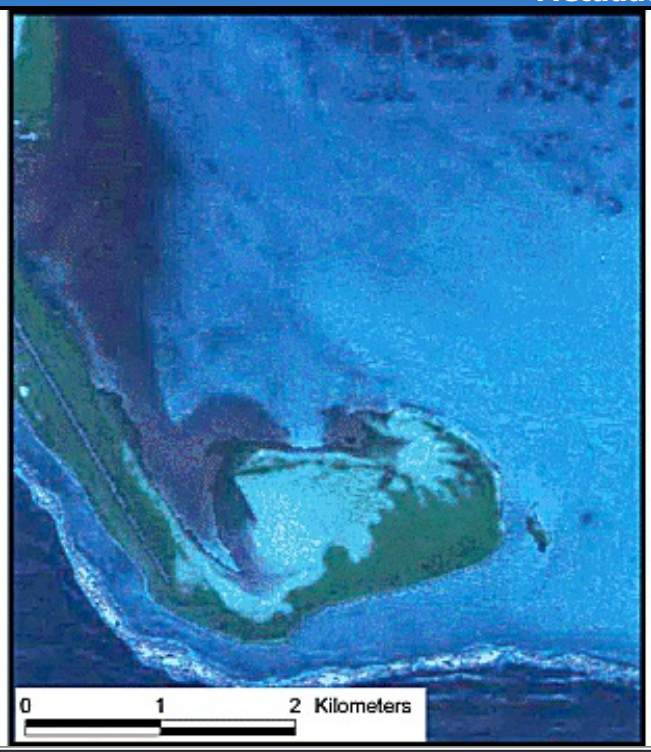
	(Keeling) Islands recorded using the QuickBird Digital Globe satellite, taken over the islands in November 2003. Each pixel represent 0.6m.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Imagery PHOTOGRAPHY AND IMAGERY Satellite
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	05NOV2003
Ending Date	07NOV2003
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	as required
Access	
Stored Data Format	DIGITAL - ERMapper ECW & TIFF/TFW
Available Format Type	DIGITAL - ERMapper ECW & TIFF/TFW
Access Constraint	Please read the license agreement for limits to the access of the satellite imagery included on this CD. If you are unsure whether you are a registered user please consult this table.
Data Quality	
Lineage	Quickbird satellite imagery of Cocos Islands was commissioned by the Department of Environment and Heritage in mid 2003 and supplied to the Australian Government by DigitalGlobe in November 2003. The Quickbird satellite recorded reflectance data of the islands in the red, green, blue, near infra-red and panchromatic bands, in 11 bit format. All sharpened imagery has a resolution of 0.6m/pixel. Geoscience Australia was supplied with the full multi-spectral data for the Cocos (Keeling) Islands in the form of an 8 bit TIFF image containing the red, green, blue and near infra-red bands. The panchromatic band was also supplied as an 8-bit TIFF. Digital Globe undertook pan-sharpening of the satellite imagery, in the process dividing the imagery into four sections. Four 8-bit pan-sharpened TIFFs, one for each of the four sections, containing the red, green and blue bands was supplied to GA. Each pixel on the pan sharpened imagery represents 0.6m. Further details regarding the satellite imagery can be viewed in the full DigitalGlobe documentation 'CocosGIS\data\sat_imagery\ DigGlobe_productguide_2003.pdf'.

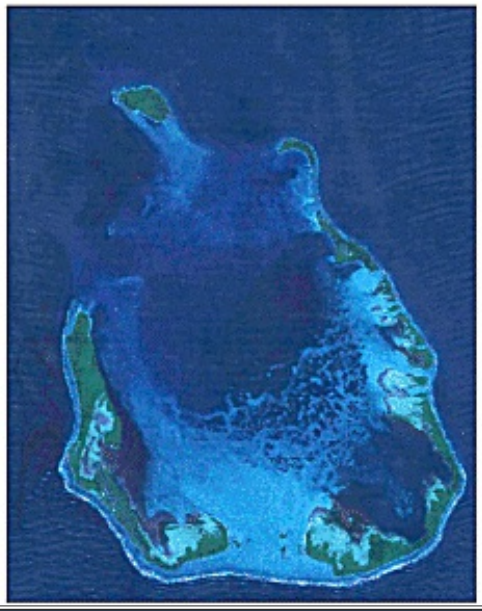
	All satellite images were supplied to Geoscience Australia in WGS84 Geographics. GA joined the images using ER Mapper 6.4 and then using the ER Mapper Geocoding Wizard GA reprojected the full image into UTM GDA94. [Previously due to restrictions in computer processing power and a file size limit in ER Mapper 6.3 the four pan sharpened images were reprojected separately which led to gaps appearing at the joins in the four sections.
	
	Also received from Digital Globe was a satellite image of North Keeling Island. As with the other satellite imagery this was supplied as a multi-chromatic, a pan-chromatic image and a pan sharpened the image. Using the ER Mapper Geocoding Wizard Geoscience Australia reprojected the image into UTM GDA94.
	
	DigitalGlobe advise that the positional accuracy of the imagery is +/-14.7m RMSE. Due to this low level of positional accuracy, an x y shift was also applied to more accurately position the imagery by correlation with the lodged cadastre on screen as follows:
	
	• Before cadastral re-alignment (see cadastre section of manual):
	  ◦ 16.9m East
	  ◦ 6.9m South
	• After cadastral re-alignment
	  ◦ 2.4m West
	  ◦ 3.14m South
	
	This shift brought the imagery inline with the current cadastre and reprojected orthophotography.
	
	Due to disk space limitations these images are stored in ECW (Enhanced Compressed Wavelet) format. The main Cocos island group is stored in the 'CocosGIS\data\sat_imagery\ecw' directory under the filename of 'cocos_satim.ecw'. The North Keeling Island ECW is located in the same directory with the filename 'nth_keeling.ecw'

Full notes from Cocos GIS 2003 release	The satellite imagery was supplied in WGS84 Geographics. Due to limitations of software and hardware Geoscience Australia projected the four 8 bit pan-sharpened TIFF images of the main atoll into UTM WGS84. The four reprojected TIFFs were then joined. As a result gaps between the four sections of imagery were apparent.

	The image in it's entirety was saved as an Enhanced Compressed Wavelet (ecw) image, where each pixel represented 0.6 metres. Nineteen 1km x 1km TIFF images, and two 1.5km x 1km TIFF images covering Home, West and Direction island were created from the image and are included with the 2004 release of the GIS. Geoscience Australia shifted the ecw image (x +16m, y - 7m) to match the more accurately positioned 2003 cadastre shapefile and the orthophotography. The TIFFs over Home and Direction Isalnds (x +16m, y-7m) and West Island (x +14m, y -9m) were also shifted to align with the orthophotography and 2003 cadastre.
Positional Accuracy	The satellite imagery has been shifted to match the 2003 cadastre. Positional accuracy of the satellite imagery therefore mimics the accuracy of cadastre2003.shp.
Attribute Accuracy	not applicable
Logical Consistency	not applicable
Completeness	Complete
Contact Information	
Contact Organisation	Geoscience Australia
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	18-02-2005
Additional Metadata	
Projection	UTM (GDA94) zone 47 S

Cocos (Keeling) Islands GIS
Spot Satellite Image
Metadata

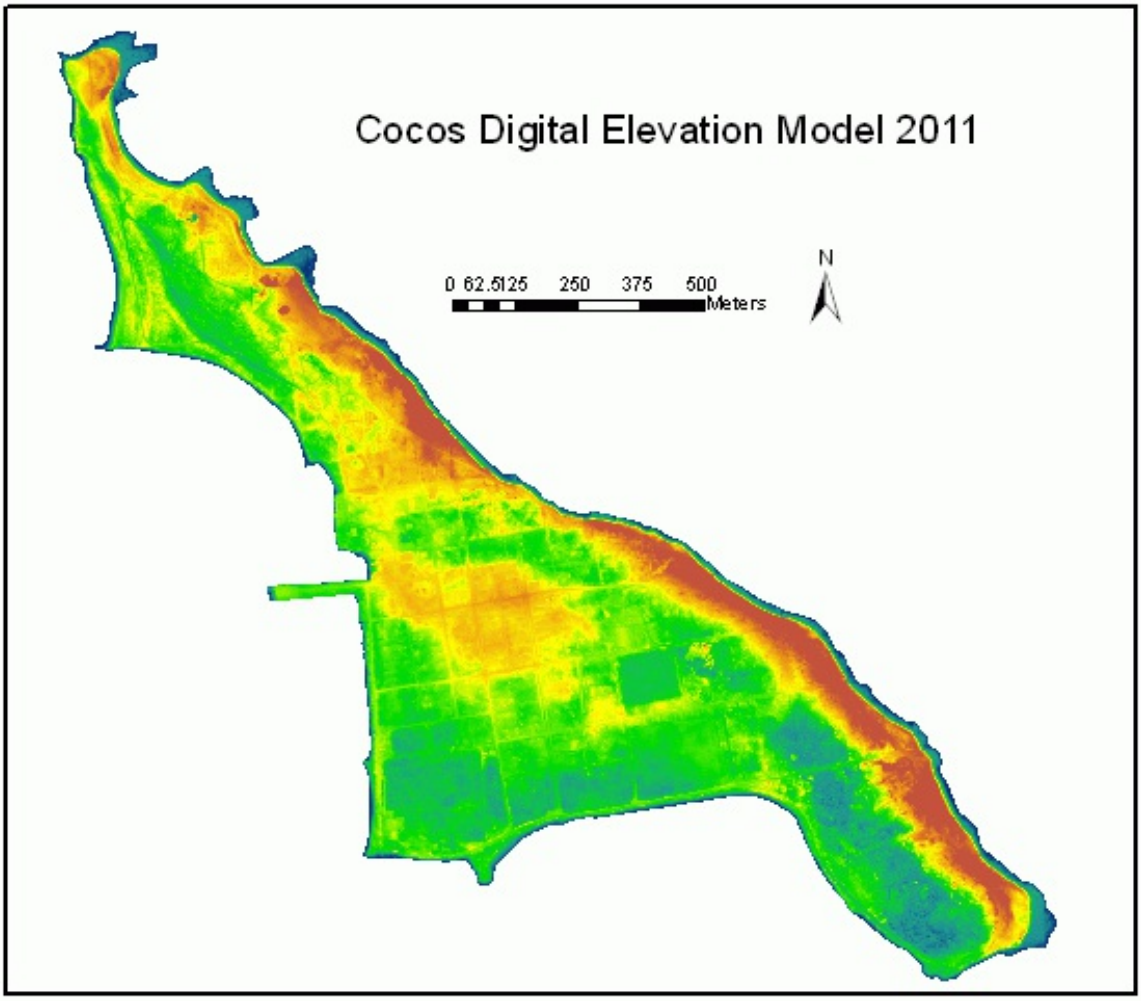




Dataset	
Title	Spot Image
Custodian	Geoscience Aust Organisation (AGSO)
Jurisdiction	Australia
Description	
Abstract	A multi spectral spot image was used in a poster that was published by AUSLIG in 1992. This image (not the poster) was then scanned by AGSO on September 4th, 2000. Both TIFF and JPG files exist. This image was created to be used in areas (eg. center of southern atoll) where there was no orthophotography coverage. This TIFF image is best used at a scale no less than 1:50000, zooming in past this results in a pixelated image and a loss of definition.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Multi Spectral PHOTOGRAPHY AND IMAGERY Spot
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	01APR1987
Ending Date	01APR1987
Dataset Status	
Progress	Complete

Maintenance and Update Frequency	not planned
Access	
Stored Data Format	DIGITAL - TIFF/TFW & JPG NON DIGITAL - Hardcopy poster
Available Format Type	DIGITAL - TIFF/TFW & JPG
Access Constraint	See contact details below.
Data Quality	
Lineage	Spot satellite imagery was originally aquired in April 1987. This was then made into a poster and publised by ANZLIC in 1992. Since then the image has been scanned by AGSO (September 2000) using a high resolution drum scanner. The image is in TIFF format and has been geolocated and a TWF file created.
Positional Accuracy	The TFW file was created by matching the TIFF image against the vector line work of the southern atoll. Because of the loss of definition as you zoom in on the image, the lines cannot be matched very precisely. This results in positional accuracy around 40m of reference lines.
Attribute Accuracy	not applicable
Logical Consistency	not applicable
Completeness	Both the scan of the Spot image and the geolocation is complete and no changes or amendments are planned.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	24-07-2000
Additional Metadata	
Projection	UTM (WGS84) zone 47S

Cocos (Keeling) Islands GIS
Cocos Island 2011 Digital Elevation Model
Metadata

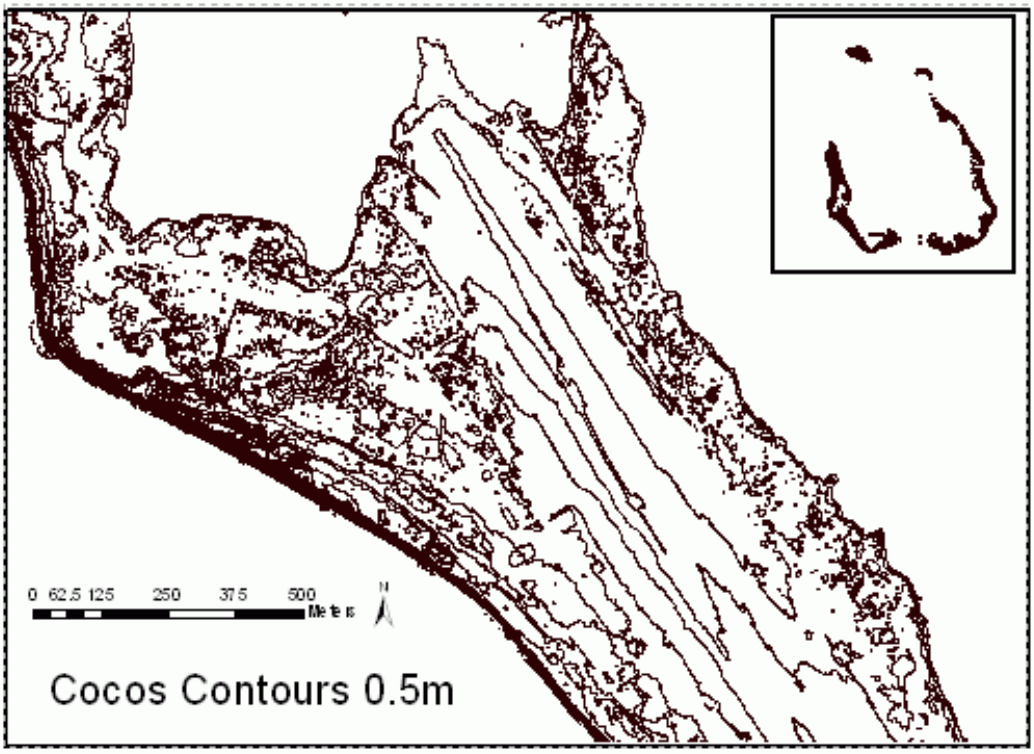


Dataset	
Title	Cocos Island 2011 Digital Elevation Model
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	The digital elevation model (DEM) grid covers the whole of the Cocos (Keeling) Islands. It was provided by AAM in 1km by 1km tiles which were then joined together using ESRI ArcMap. Each grid cell (1m x 1m) contains the height, in metres, of the ground surface derived from the 2011 LiDAR aerial survey data.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Digital Elevation Model PHOTOGRAPHY AND IMAGERY Raster PHOTOGRAPHY AND IMAGERY Grid
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	8 August 2011

Ending Date	16 August 2011
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	Not planned
Access	
Stored Data Format	DIGITAL - TIFF/ECW
Available Format Type	DIGITAL - TIFF/ECW
Access Constraint	None
Data Quality	
Lineage	In 2011 AAM was commissioned by the Commonwealth to fly an airborne laser scanning survey of Cocos (Keeling) Islands. The survey was carried out using a fixed wing aircraft between the 8th and 16th of August 2011. All data was captured within approximately 2 hours of low tide (photo frame and tide height table). During this period tides ranged from 0.4m to 1.3m. AAM classified the raw LiDAR points into ground and non-ground points using a single algorithm across the project area. The raw LiDAR points in the .las format were provided to Geoscience Australia along with 1km by 1km ESRI grid tiles generated by interpolation from the points. The tiles were then joined to create a DEM (TIFF) that covers the full extent of the Cocos (Keeling) Islands. Each cell, 1m x 1m, in the grid contains the height in metres of the ground surface. As a guide, the DEM data is vertically accurate to 15cm and horizontally accurate to 30cm. For a detailed description of the survey accuracy see the AAM Survey Report. The DEM grid file was generated in GDA94 and has been converted to UTM WGS 84 zone 47s to fit the rest of the Cocos GIS data. Vertical data was collected in the Cocos Keeling Island Height Datum (CKIHD).
Positional Accuracy	As a guide, the DEM data is vertically accurate to 15cm and horizontally accurate to 30cm. A control survey was carried out by Whelans. Manual checking and editing was carried out by AAM to improve accuracy. Positional accuracy has been checked by Geoscience Australia and was found to match the ground surface well.
Attribute Accuracy	Not Relevant
Logical Consistency	Not Relevant
Completeness	Complete
Contact Information	

Contact Organisation	Geoscience Australia
Contact Position	Keith Porritt
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	24-4-2012
Additional Metadata	
Projection	UTM (GDA94) zone 47s

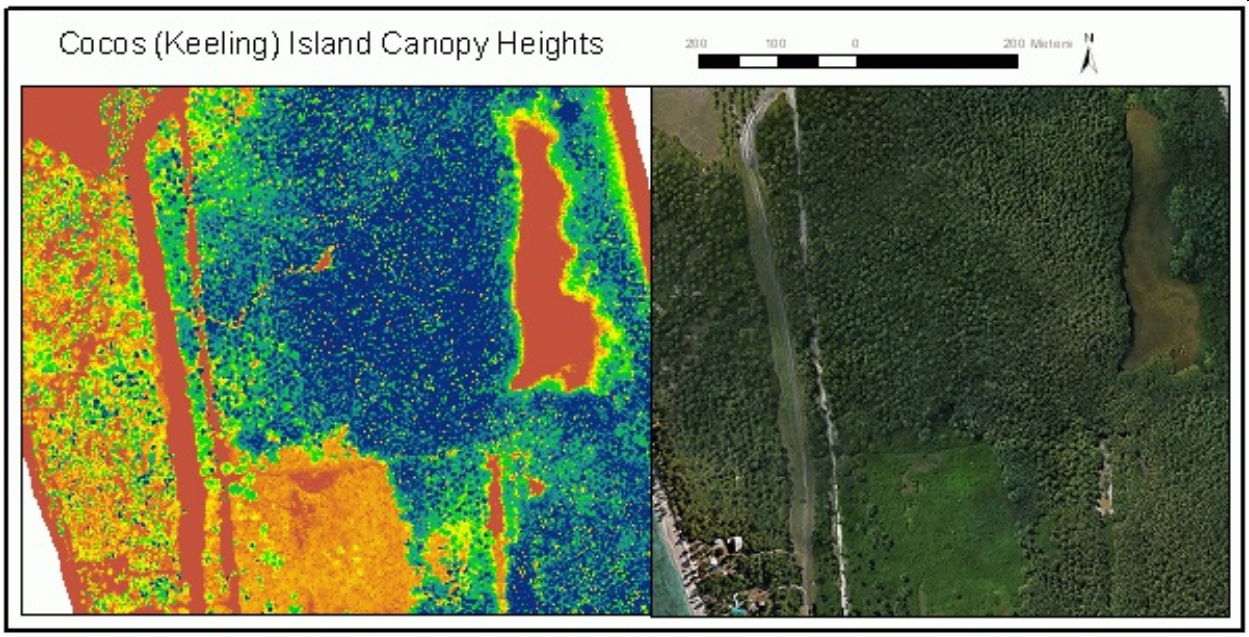
Cocos (Keeling) Islands GIS
Cocos Islands Contours 0.5m 2011
Metadata



Dataset	
Title	Cocos Island 2011 0.5m Contours
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	Contours with a 0.5m interval were generated for all of the Cocos (Keeling) Islands from the August 2011 LiDAR digital elevation model.
Search Word(s)	DEM Contours DEM Digital Elevation Model PHOTOGRAPHY AND IMAGERY Digital Elevation Model
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	8 August 2011
Ending Date	16 August 2011
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	Not planned. Additional contours of varying intervals can be generated from the DEM as required.
Access	

Stored Data Format	DIGITAL - ESRI shapefile
Available Format Type	DIGITAL - ESRI shapefile
Access Constraint	None
Data Quality	
Lineage	Contours were generated from the LiDAR digital elevation model (DEM) using the freeware GIS package Quantum GIS. When compared to a sample area generated from the same data but using ArcMap, the contours were of equal or better quality.
Positional Accuracy	The contours generated from the DEM will replicate any inaccuracies of the DEM. As a guide, the DEM data is vertically accurate to 15cm and horizontally accurate to 30cm.
Attribute Accuracy	Not Relevant
Logical Consistency	Not Relevant
Completeness	The 0.5m contours are complete for the extent of the Cocos (Keeling) Islands.
Contact Information	
Contact Organisation	Geoscience Australia
Contact Position	Keith Porritt
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	24-4-2012
Additional Metadata	
Projection	UTM (GDA94) zone 47s

Cocos (Keeling) Islands GIS
Cocos Island Canopy Height Model 2011
Metadata

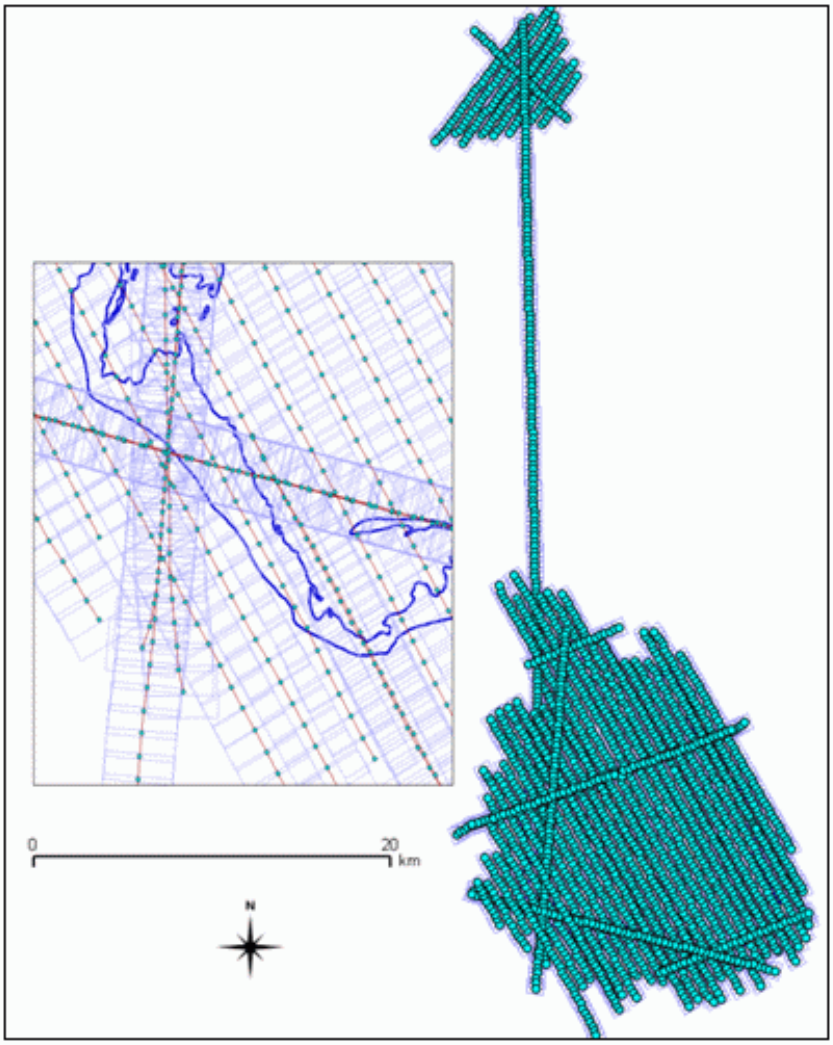


Dataset	
Title	Cocos Island Canopy Height Model (CHM) 2011
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	The CHM grid covers the whole of the Cocos (Keeling) Islands. It was provided by AAM Pty Ltd in 1km tiles which were then joined together using ESRI ArcMap. Each grid cell (2m x 2m) contains the maximum vegetation height in metres derived from the 2011 LiDAR aerial survey data.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Digital Elevation Model PHOTOGRAPHY AND IMAGERY Raster PHOTOGRAPHY AND IMAGERY Grid
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	8 August 2011
Ending Date	16 August 2011
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	Not planned
Access	
Stored Data Format	DIGITAL - TIFF grid. (Also stored as ESRI Raster)

Available Format Type	DIGITAL - TIFF (Also available as ESRI Raster)
Access Constraint	None
Data Quality	
Lineage	In 2011 AAM was commissioned by the Commonwealth to fly an airborne laser scanning survey of Cocos (Keeling) Islands. The survey was carried out using a fixed wing aircraft between the 8th and 16th of August 2011. All data was captured within approximately 2 hours of low tide (link to tide xls in height_data/source). During this period tides ranged from 0.4m to 1.3m. AAM classified the raw LiDAR points the following classes using a single algorithm across the project area. 0 Unclassified - Created, never classified 1 Default - Unclassified 2 Ground - Bare ground 3 Low vegetation - 0 - 0.3m (essentially sensor 'noise') 4 Medium vegetation - 0.3 - 2m 5 High vegetation - 2m > 6 Buildings, structures - Buildings, houses, sheds, silos etc. 7 Low / high points - Spurious high/low point returns (unusable) 8 Model key points - Reserved for 'model key points' only 9 Water - Any point in water 10 Bridge - Any bridge or overpass 11 not used - Reserved for future definition 12 Overlap points - Flight line overlap points Canopy height was generated by subtracting the ground height from the first laser return classified as vegetation. A canopy height model (CHM) was provided to Geoscience Australia as 2km by 2km ESRI grid tiles. These tiles were then joined to create a CHM (TIFF) that covers the full extent of the Cocos (Keeling) Islands. Each grid cell, 2m by 2m, contains the height in metres of the vegetation canopy. As a guide, the data is vertically accurate to 15cm and horizontally accurate to 30cm. For a detailed description of the survey accuracy see the AAM Survey Report. The canopy height model grid file was generated in GDA94 MGA zone 47 and has been left in this projection.
Positional Accuracy	As a guide, the DEM data is vertically accurate to 15cm and horizontally accurate to 30cm.

Attribute Accuracy	Not Relevant
Logical Consistency	Not Relevant
Completeness	Complete
Contact Information	
Contact Organisation	Geoscience Australia
Contact Position	Keith Porritt
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	24-4-2012
Additional Metadata	
Projection	UTM (GDA94) zone 47s

Cocos (Keeling) Islands GIS
Flight Lines, Photo Centres & Extent Rectangles
Metadata



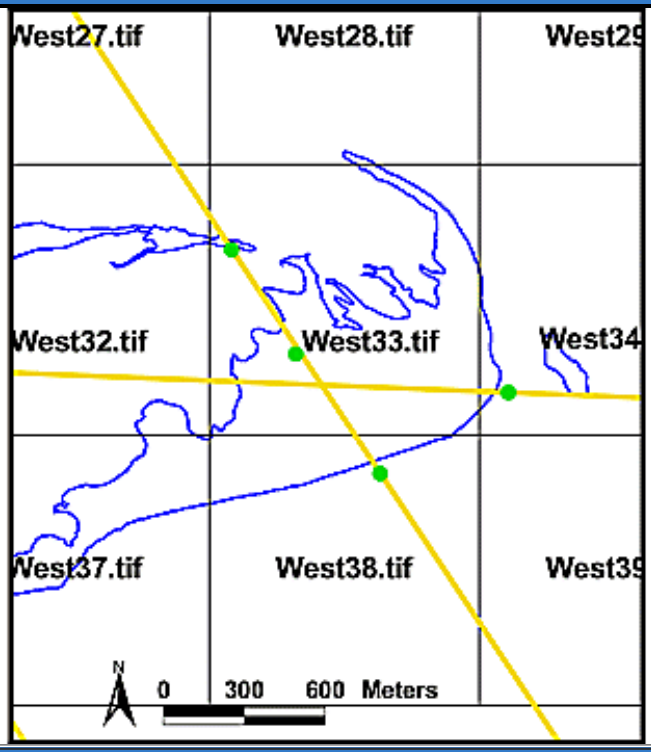
Dataset	
Title	2011 Aerial Flight Lines, Photo Centres and Extent Rectangles
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This metadata sheet refers to the following three shapefiles: • flight_lines_co11.shp • photo_centres_co11.shp • photo_rectangles_co11.shp They can all be found in the following directory: \\cocos\data\orthphto\orth2011 Together these datasets show the flight lines flown by AAM during the 2011 aerial survey of Cocos (Keeling) Islands, the centre of each aerial

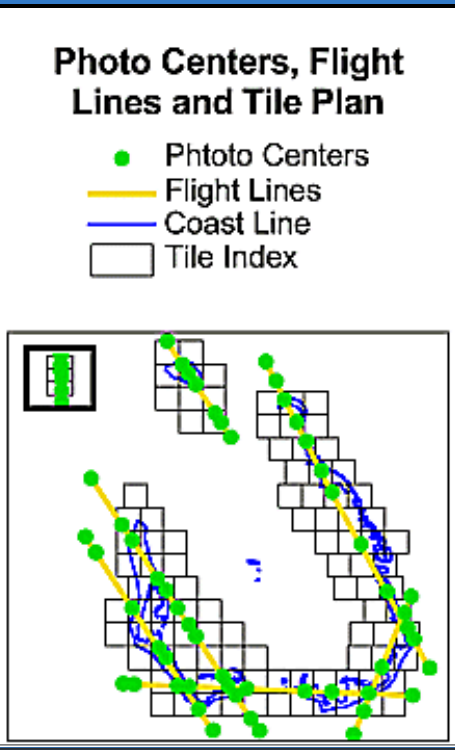
	photograph taken during flight and approximate photograph extent rectangles.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Aerial PHOTOGRAPHY AND IMAGERY Plan
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	August 2011
Ending Date	August 2011
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	Extent rectangles may be improved in the future with the provision of georeferenced aerial photographs from AAM.
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below.
Data Quality	
Lineage	The raw aerial photographs and photo point locations were provided to GA by AAM in September 2011. The photo points were joined to create flight lines using ArcMap extension XTools, based on the flight number and photo order. The angle of each flight line was calculated in ArcMap and spatial attached to the original photo points of the line. The length and height of the raw individual aerial photographs were estimated manually using previous imagery. These dimensions were also attached to the point attributes. The dimensions and angles were then used to generate the photo extents rectangles in GeoWizard.
Positional Accuracy	Flight rectangles are only intended to be approximate. In some cases the photo was not taken looking down from the central point and therefore is located to the side of the extent rectangle. The size is approximate and will match the size of some photographs better than others.
Attribute Accuracy	Not Documented
Logical Consistency	Consistent
Completeness	GA recognises that there is still more work that can be done to yield an error free data set.
Contact Information	
Contact Organisation	Geoscience Australia

Contact Position	Keith Porritt
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	29-11-2011
Additional Metadata	
Projection	UTM (GDA94) zone 47s

Cocos (Keeling) Islands GIS
Flight Lines & Photo Centres

Metadata

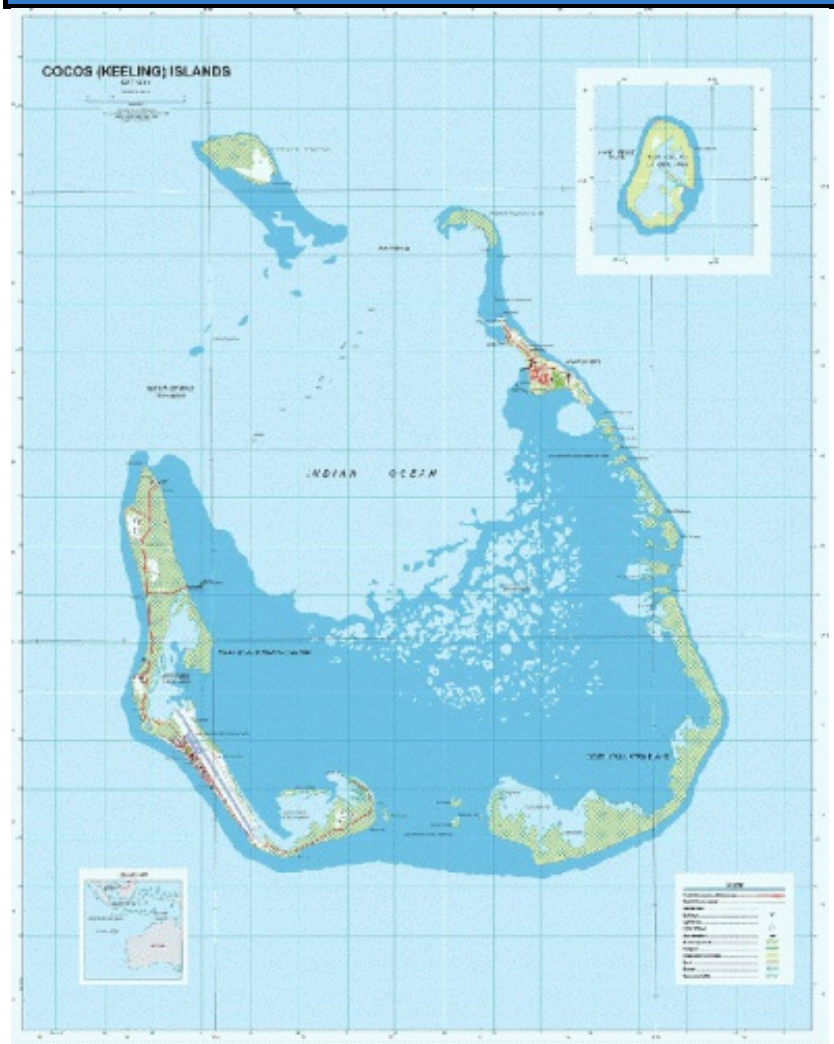




Dataset	
Title	Flight Lines and Photo Centers
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset shows the approximate flight paths (lines) and centres of the aerial photography in relation to the Cocos Islands. This data is used to establish and map the approximate coverage and location of orthophotos over the island. Two shape files were created, one to describe the flight lines the other to describe the photo centers.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Aerial PHOTOGRAPHY AND IMAGERY Plan
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	09MAY2000
Ending Date	11MAY2000
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not planned
Access	

Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below.
Data Quality	
Lineage	This data was originally provided as a flight diagram on a paper hard copy map. This was then digitised from the flight line diagram using an on-screen based scanned version of the hard copy map as polylines and points respectively. In December 2003 GA projected the data to UTM (WGS84) zone 47S using ArcView.
Positional Accuracy	This data set has been produced by GA to locate the approximate flight paths and photo centers for the orthophotography. GA has found the level of accuracy to be adequate for the purpose intended.
Attribute Accuracy	The table attributes describe the photograph number and the corresponding flight run number.
Logical Consistency	The themes are used to describe the flight paths and the photo centers of the aerial photography.
Completeness	Appears complete for areas other than Horsburgh and North Keeling Islands.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	13-1-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

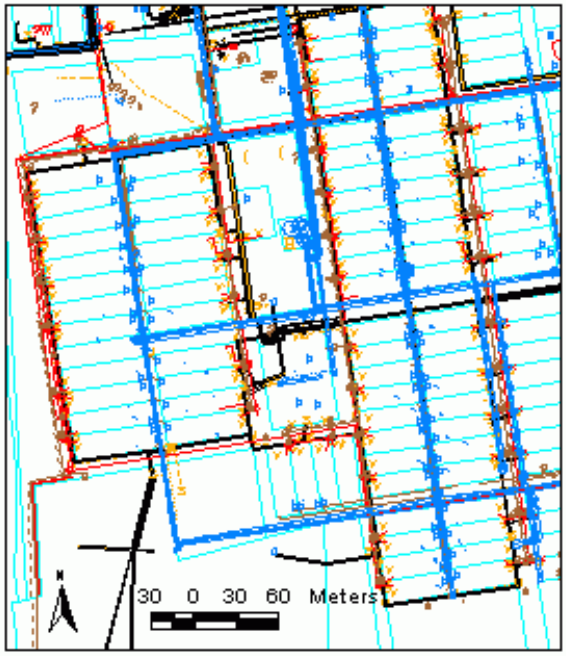
Cocos (Keeling) Islands GIS
NATMAP 1:30000
Metadata

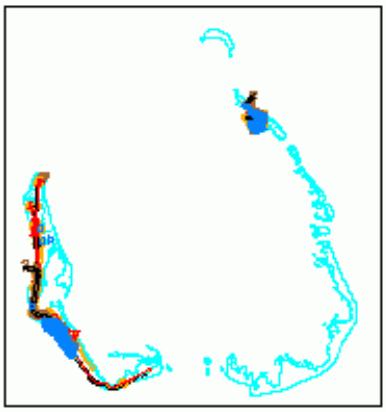


Dataset	
Title	Cocos (Keeling) Islands 1:30000 scale topographic map
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	A contoured general reference map of Cocos (Keeling) Islands showing settlements, roads and infrastructure.
Search Word(s)	Topography
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	2010
Ending Date	2010
Dataset Status	
Progress	Complete
Maintenance and	

Maintenance and Update Frequency	Not known
Access	
Stored Data Format	DIGITAL - ECW/ERS
Available Format Type	DIGITAL - ECW/ERS
Access Constraint	
Data Quality	
Lineage	Starting with the existing data for the 1:25000 topographic map of the Cocos (Keeling) Islands, feedback was sought by Geoscience Australia for new or changed features that needed to be on a new edition of the map. Information and assistance was supplied by the Attorney-General's Department (Territories of Australia) and Department of Environment, Water, Heritage and the Arts (Parks Australia). Geocsience Australia gratefully acknowledges contributions to map content.
Positional Accuracy	Topographic information checked in 2008 using satellite imagery, and supplemented using other sources in 2009.
Attribute Accuracy	Limited field checking has been undertaken on this map and therefore some information may not be accurate.
Logical Consistency	Not Relevant
Completeness	Complete
Contact Information	
Contact Organisation	Geoscience Australia
Contact Position	GEMD
Mail Address	GPS Box 378
Locality	Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	mapfeedback@ga.gov.au
Metadata Date	14-6-2012
Additional Metadata	
Projection	UTM (GDA94) zone 47s

Cocos (Keeling) Islands GIS
Utilities
Metadata

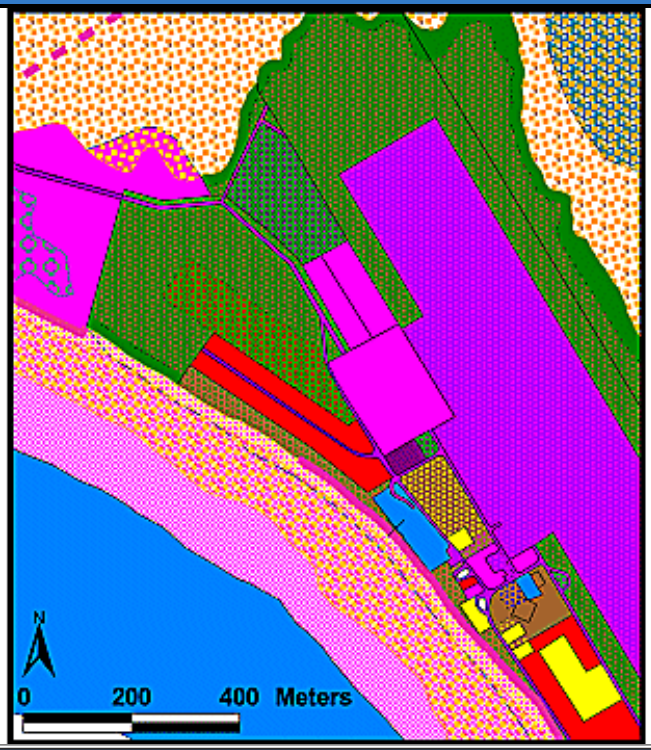




Dataset	
Title	Utilities
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia
Description	
Abstract	This dataset contains point, line and polygon water supply, waste water, power, fuel, gas and telecommunications data for the Cocos (Keeling) Islands. Coverage is of Home and West Islands.
Search Word(s)	LAND utilities
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	1994
Ending Date	25-03-2003
Dataset Status	
Progress	complete
Maintenance and Update Frequency	As required
Access	
Stored Data Format	ESRI Shapefile, DGN, DXF, DWG
Available Format Type	ESRI Shapefile
Access Constraint	Restricted, see contact details below

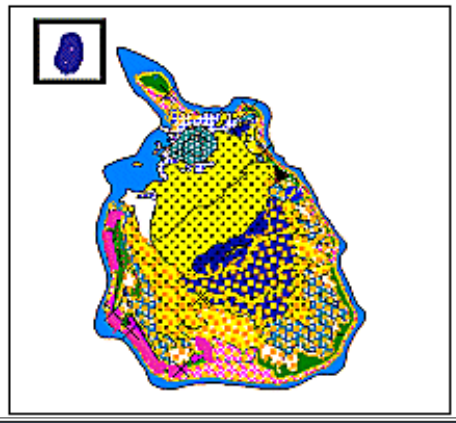
Data Quality	
Lineage	GA received ESRI shapefiles for telecommunications, gas and fuel, water supply, waste water, and power datasets. The shapefiles were in CKIG92. GA projected these shapefiles into UTM (WGS84) zone 47S. Lineage prior to receipt by GA can be viewed in the original documentation.
Positional Accuracy	Some positional errors persist in the data.
Attribute Accuracy	These details are believed to be true and accurate.
Logical Consistency	appears consistent.
Completeness	complete.
Contact Information	
Contact Organisation	Department of Transport and Regional Services
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	19-01-04
Additional Metadata	
Projection	UTM (WGS84) Zone 47S

Cocos (Keeling) Islands GIS
Land Use Plan & Planning Scheme
Metadata



Landuse and Planning Sheme

Topography & Vegetation
Planning Options & Preferences
Habitat & Lagoon Areas
Marine & Recreation Areas
Landuse Zones



Dataset	
Title	Cocos (Keeling) Islands Land Use Plan and Planning Scheme 1992 GIS Database
Custodian	Cocos (Keeling) Islands Council
Jurisdiction	Cocos (Keeling) Islands
Description	
Abstract	This dataset contains planning related cultural and environmental layers. Source data is of variable resolution as outlined in the original documentation. Standard attributes such as UFI, AREA and PERIMETER, LENGTH will be in addition to those in the following table. UFI is a unique feature identifier. Layers include:

SHAPEFILE NAME	FEATURES	EXTENT	FEATURE CLASS	ATTRIBUTES
airport.shp	Runway and parking area	West Island	Polygon	FEATURE; DESC
erosion.shp	Erosion prone coastline; Potential breach areas	West Island	Line	CODE; FEATURE; DESC
habitat.shp	Migratory bird habitats	Southern Atoll	Polygon	TYPE; FEATURE; DESC; SPECIES
islands.shp	Coastline	Southern Atoll	Polygon	FEATURE; DESC; HECTARES
lagoon.shp	Reef outline; Coastline	Southern Atoll	Polygon	ZONE; FEATURE; DESC

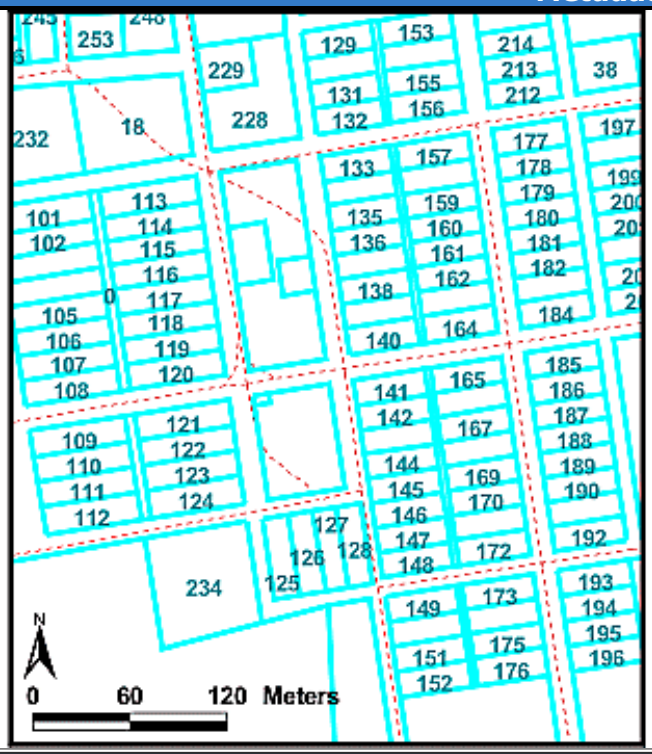
landuse.shp	Coastline; Cadastral boundaries; Existing land use	Southern Atoll	Polygon	USE; FEATURE; DESC
marine.shp	Coastline; Marine habitats	Southern Atoll	Polygon	CODE; FEATURE; DESC; HABITAT; HABITATG
marres.shp	Coastline; Important marine areas	Southern Atoll	Polygon	TYPE; FEATURE; DESC
nklagoon.shp	Reef outline; Coastline	North Keeling Island	Polygon	ZONE; FEATURE; DESC
nksites.shp	Heritage sites	North Keeling Island	Point	TYPE; FEATURE; DESC
nkuse.shp	Coastline; Cadastral boundaries; Existing land use	North Keeling Island	Polygon	USE; FEATURE; DESC
northk.shp	Coastline	North Keeling Island	Polygon	FEATURE; DESC; HECTARES
option.shp	Coastline; Planning options	Southern Atoll	Polygon	OPT; FEATURE; DESC
pref.shp	Coastline; Preferred planning options	Southern Atoll	Polygon	OPT; FEATURE; DESC
recres.shp	Coastline; Recreation facilities and water-based activities	Southern Atoll	Polygon	TYPE; FEATURE; DESC
reef.shp	Reef outline	Southern Atoll	Polygon	None
roads.shp	Sealed and unsealed roads; Cycle path	Southern Atoll	Line	TYPE; FEATURE; DESC
rubbish.shp	Coastline; Rubbish problem areas	Southern Atoll	Polygon	DUMP; FEATURE; DESC
sites.shp	Heritage sites	Southern Atoll	Point	TYPE; FEATURE; DESC
sites2.shp	Heritage sites	Southern Atoll	Polygon	TYPE; FEATURE; DESC
topo.shp	Coastline; Reef flat; Lagoon; Beaches; Swamps	Southern Atoll	Polygon	FEAT; FEATURE; DESC
tourist.shp	Proposed tourist development areas	Southern Atoll	Polygon	None
utilslin.shp	Public utilities and services infrastructure	Southern Atoll	Line	TYPE; FEATURE; DESC; LABEL
utilspnt.shp	Public utilities and services infrastructure	Southern Atoll	Point	TYPE; FEATURE; DESC; LABEL
veg.shp	Coastline; Native vegetation communities	Southern Atoll	Polygon	TYPE; FEATURE; DESC

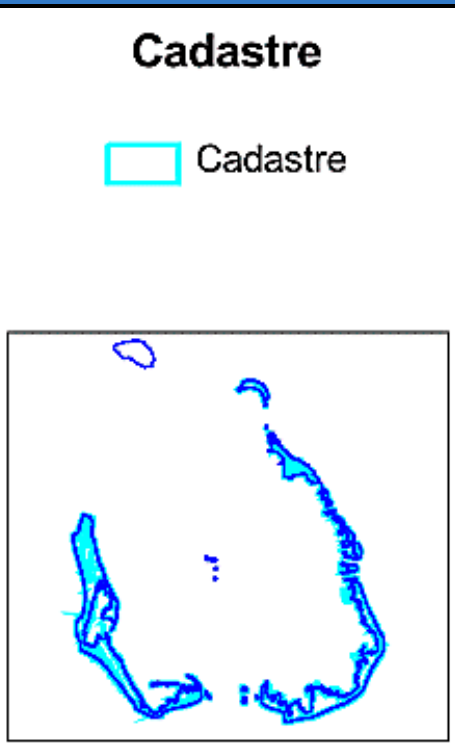
veg2.shp	Coastline; Vegetation structure	Southern Atoll	Polygon	STRUC; FEATURE; DESC
water.shp	Known and potential groundwater lenses	Southern Atoll	Polygon	LENS; FEATURE; DESC
zone.shp	Coastline; Statutory land use plan	Southern Atoll	Polygon	ZONE; FEATURE; DESC
psm.shp	Survey marks	West Island; Home Island	Point	PSM; DESC; AS2482; HEIGHT

Search Word(s)	HUMAN ENVIRONMENT Planning HUMAN ENVIRONMENT Structures and Facilities HUMAN ENVIRONMENT Urban Design
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	not known
Ending Date	1 Jan 1992
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	Not Known
Access	
Stored Data Format	ESRI Shapefile
Available Format Type	ESRI Shapefile
Access Constraint	Not Known
Data Quality	
Lineage	For lineage prior to receipt by AGSO, see original documentation (PDF). GA merged southern atoll layers where islands were separate layers, added FEATURE and DESC fields to shapefiles (description sourced from documentation and/or look-up tables). The FEATURE field contains short, upper case entries without spaces (facilitating portability). GA added UFI (Unique Feature Identifier) fields to all attribute tables. For the marine.shp shapefile, the original TYPE field was used to populate the new FEATURE and DESC fields. HABITAT is a description of the CODE field. HABITATG is a grouping of the CODE field as outlined in the original documentation for the *marres2* coverage. In December 2003 GA projected the data to UTM

	(WGS84) zone 47S.
Positional Accuracy	Variable. For descripions of accuracy see the original documentation.
Attribute Accuracy	not known
Logical Consistency	not known
Completeness	Appears complete for areas other than Horsburgh and North Keeling Islands.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	13-1-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47S - originally supplied as Universal Transverse Mercator (UTM) Zone 47S (WGS72) projection.

Cocos (Keeling) Islands GIS
Cadastre
Metadata





Dataset	
Title	Cadastre
Custodian	Department of Land Administration (DOLA)
Jurisdiction	Western Australia
Description	
Abstract	This dataset contains polygon cadastral data and non-spatial attribute data for the Cocos (Keeling) Islands. Horsburgh Island and North Keeling Atoll are not included in this dataset.
Search Word(s)	LAND Cadastre LAND Ownership
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	Not known
Ending Date	AUG2004
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not known
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile

Access Constraint	Please read the license agreement for limits to the access of the satellite imagery included on this CD. If you are unsure whether you are a registered user please consult this table.
Data Quality	
Lineage	In December 2004 Geoscience Australia received the scheduled cadastral update from Tony Yeomans of the Department of Land Information (DLI, formerly DoLA). This update consisted of two ESRI shapefiles and two access databases. One of the ESRI shapefiles contains current property boundary information and the other contains lodged changes to property boundaries. Both ESRI shapefiles arrived at Geoscience Australia pre-projected in UTM (GDA94). The reason for differences between the lodged cadastre and the current cadastre is that current data could have been calculated or digitized, etc. When lodged data is integrated into current, the area is spatially upgraded with the new survey data (lodged data) as this would be more accurate. One access database contained data relating to tenure information including address. The other contained data on reserves. In January 2005 Geoscience Australia also obtained ground audit data from Peter Brockmulen of the Department for Planning and Infrastructure (DPI, formerly DoLA). This ground audit was conducted in 2004 at the request of the Department of Territories and Rural Services in Western Australia. It contains data describing land use and reserve usage. To produce the final cadastral information the files were modified and combined as follows. Due to initial consultation with users of the GIS it was decided to keep the cadastre containing current property boundaries and the cadastre containing lodged changes to property boundaries separate. As such the following changes were made to each file separately. Additionally the cadastral boundary for North Keeling Island, taken from the last version of the cadastre, was joined to the current cadastre shapefile. From discussion with users of the GIS it became apparent that the field LOT_TYPE was causing

	confusion with it's meaning. This is because it is a computer generated field that does not reflect the tenure of the land. Instead land tenure is derived from the PI_PARCEL field. To avoid this problem Geoscience Australia removed the LOT_TYPE field and replaced it with a TENURE field derived from the PI_PARCEL field and based on the definitions from the NORM manual as supplied by DLI. Using tenure information from the database supplied by DLI and from the land audit information supplied by Peter Brockmulen, Geoscience Australia joined on the fields ADDRESS, ZONING, RESERVE, PURPOSE and MANAGEMENT were joined on lot number. For multiple instances of lot numbers information was entered manually based on the land audit information supplied by Peter Brockmulen. From reserve data supplied by DLI the fields RSV_VESTIN, RESERVE_US and LGA were joined using the PIN field. Finally Geoscience Australia made the decision to move the cadastral data to be in line with previous data such as orthophotography. As such the following xy shift was used on both the cadastre and the lodged shape files: • X+3.26m • Y-1.04m This set cadastre data within 0.1m of older versions. In the future Geoscience Australia plans to asses the positioning of the cadastre based on the GPS ground control station on West Island and the satellite imagery. In the 'cadastre_dli' folder of the cadastre directory is included the lodged and cadastre shape files as projected by DLI but with all data joined.
Notes of Previous Versions.	Territories Office contract DOLA to maintain this data under a 'Service Delivery Arrangement'. Prior to 1992 AUSLIG maintained the data on behalf of Territories Office. August 2004: Geoscience Australia was supplied with the latest Cocos (Keeling) Islands cadastre by DOLA in Western Australia as an ESRI shapefile. This included for the first time a polygon for North Keeling Island which outlined the coast. The following steps were carried out to merge the

cadastre with previously collected ground audit data:

1. The cadastre was supplied to Geoscience Australia in two halves. One contained leaseholds that were current and the other contained leaseholds that had been lodged to be changed. A new field was added to each cadastre called 'legal_stat' standing for Legal Status. In the cadastre of current leases this was set to 'final' and in the cadastre of lodged leases this was set to 'lodged'.
2. The lodged and current cadastres were combined to form a full cadastre of the Cocos (Keeling) Islands.
3. This new cadastre and the previous version's cadastre were linked via polygon pin number. This allowed GA to separate those polygons which were had different pin numbers in the new cadastre.
4. Those polygons which had not changed were joined to the additional data on pin number.
5. Polygons which had new pin numbers were joined to the ground audit data with a spatial join.
6. The tables containing the unchanged polygons and the new polygons were then merged to create the current cadastre.
7. Duplicate fields in the cadastre were removed preserving the latest data available.
8. This new cadastre was then incorporated into the Arc View and Arc Explorer projects.

These changes were made using Arc View.

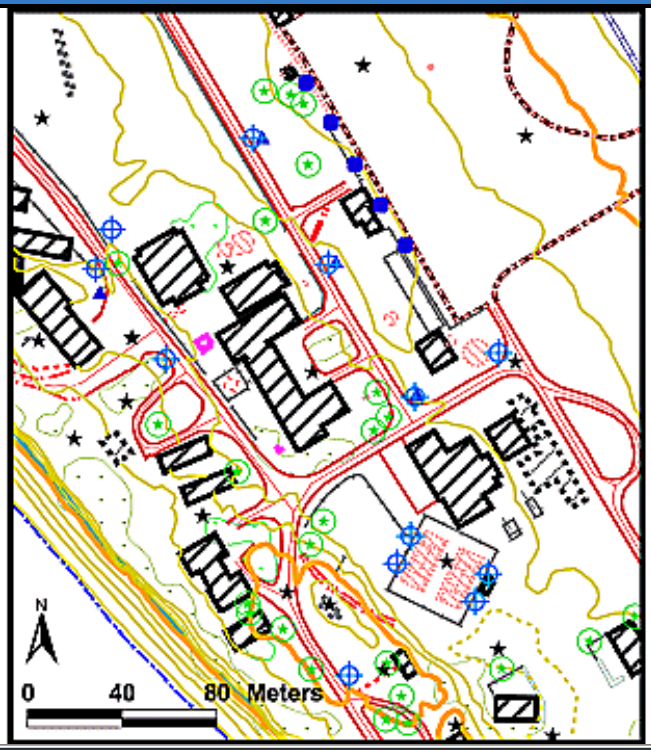
December 2003: GA received an updated cadastre from GHD Pty Ltd in the CKIG92 projection. This 2003 cadastre shapefile, and all previous versions of the cadastre were projected to UTM(WGS84) zone 47S for addition to the 2003 GIS

March 2003: Geoscience Australia obtained a resupply of the Cocos cadastre from DOLA via Nic dell'Aquila, Territories Office Canberra. The date of the shapefiles DOLA supplied were 7/2/03. The projection was geographics. Geoscience Australia projected the cadastre to CKIG92 using Arc View 3.2. Then using ArcGIS with all the new layer selected one node was snapped to the prior Cocos GIS cadastre. For the south eastern islands the prior polygons were used as these again did not match by around 40 meters. See the following lineage for an explanation. The prior attributes

	were again joined in to the DOLA cadastre. February 2000: AGSO projected the data from Geographic (WGS84) to Cocos (Keeling) Islands Grid 1992 using ArcView 3.2a projection utility. Deleted erroneous polygons (large area, small visible extent) from shapefile after checking that they were spatially non-unique and contained no attributes. AGSO also joined Cocos ground audit data acquired as a DBF to the cadastre table. August 2000: AGSO moved all small islands between Home Island and South Island to match the orthophotography. This was done by manually editing the shapefile in ArcView 3.2 (XY-shift and/or Stretch). Islands which formed logical groups were moved/stretched as a group in order to minimise modification of the original data. August 2000: AGSO warped South Island and all nearby small islands to visually match the orthophotography (translation/rotation/stretching was not adequate). This was done using the ShapeWarp 2.2 ArcView Extension and a third-order polynomial fit on 28 Ground Control Points which resulted in an RMS Error of 4.58057.
Positional Accuracy	Absolute positional accuracy is not known. Because this is understood to be the islands' authoritative cadastre, the cadastre has been used as the reference dataset. Comparison with the Orthophotography and other datasets indicate that for islands other than the main islands, accuracy may not be as high as hoped. For South Island, prior to AGSO's warping it to match the orthophotography, mismatches with the orthophotography were up to approximately 45 metres. Following warping, mismatches are up to approximately 5 metres.
Attribute Accuracy	not known (The field *A_Pin* was assumed equivalent to the *Pin* field in the Ground Audit data and the tables were joined. For a discussion of AGSO's evaluation of Ground Audit attribute accuracy see the System Documentation).
Logical Consistency	This shapefile contains lines that denote cadastral boundaries. Through their use, it has been noted that the spatial content is complete and consistent in describing cadastral boundaries. Attribute data contains fields that are not completely filled however all records have a unique ID number.
Completeness	Appears complete for areas other than Horsburgh and North Keeling Islands. Attributes are apparently not complete (there are a lot of blank

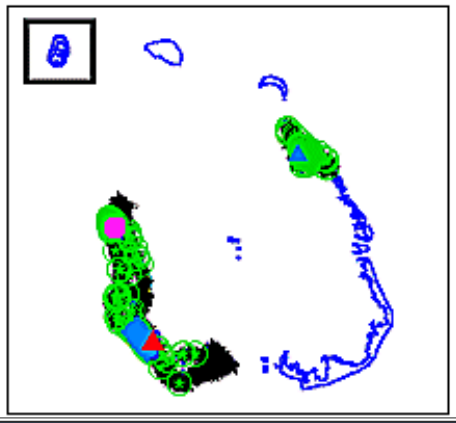
	entries where, for GIS use, entries should not be blank).
Contact Information	
Contact Organisation	Department of Land Administration (DOLA)
Contact Position	Product Officer, Land Enquiry Centre
Mail Address	PO Box 2222
Locality	Midland
State	Western Australia
Country	Australia
Postcode	6936
Telephone	(08) 9273 7344
Facsimile	(08) 9273 7655
Electronic Mail Address	Tony_Yeomanszzz@zzzdola.wa.gov.au
Metadata Date	19-01-2004
Additional Metadata	
Projection	UTM(WGS84) Zone 47 - originally supplied as Geographic (WGS84) projection.

Cocos (Keeling) Islands GIS
Topography
Metadata



Topography

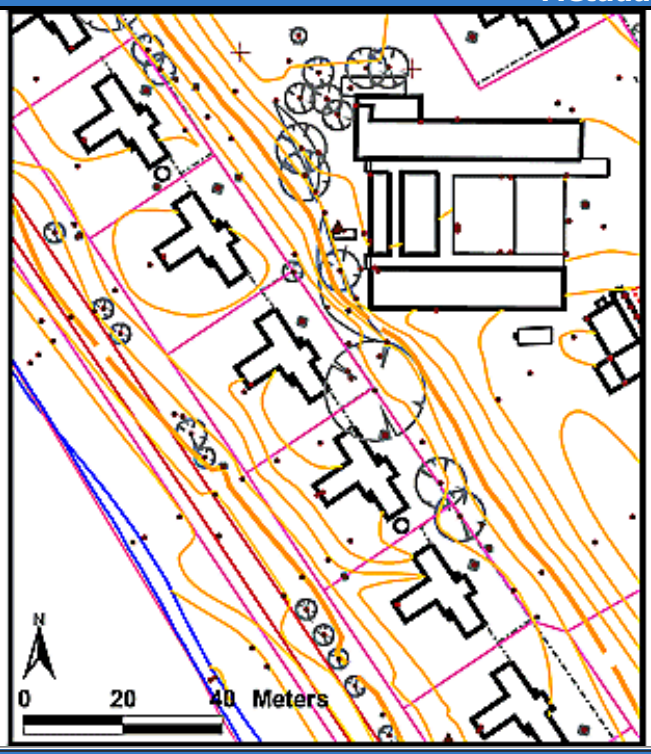
Infrastructure
Topography
Roads
Hydrography
Airport Infrastructure



Dataset	
Title	Topography
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia
Description	
Abstract	This dataset contains point, line and polygon topographic and cultural data for the Cocos (Keeling) Islands. Coverage is of Home and West Islands. To view a sample of the data showing the ArcView legend click here.
Search Word(s)	LAND Topography
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	not known
Ending Date	not known
Dataset Status	
Progress	complete
Maintenance and Update Frequency	not known
Access	
Stored Data Format	ESRI Shapefile, DGN
Available Format Type	ESRI Shapefile

Access Constraint	not known
Data Quality	
Lineage	Obtained from LandInfo (Sinclair Knight Mertz) 8/12/99 who retained the data from a project previously undertaken by the Australian Surveying and Land Information Group (AUSLIG) for the Territories Office earlier in the decade. Lineage is not known prior to receipt by GA as no metadata was received. GA converted the DGN files received into ESRI Shapefiles and projected the files to CKIG92. The files were renamed to reflect their content. Some features which were illogical were deleted (eg. Polygon contours, Runway lights labeled as golf tees). In December 2003, GA projected the topography data to UTM(WGS84) Zone 47S.
Positional Accuracy	In this GIS system the Cadastre was taken as the reference dataset. For West Island the position of features is accurate. For other islands the position of features is up to 5 metres displaced from the Cadastre. The accuracy of features in the third dimension is questionable (their are spikes in the data that are probably not real).
Attribute Accuracy	Height attributes are incomplete. Polygon runway lights were labeled as golf tees. Otherwise attributes appear to be accurate.
Logical Consistency	Appears consistent.
Completeness	Appears complete.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	19-01-2004
Additional Metadata	
Projection	UTM (WGS84) Zone 47S

Cocos (Keeling) Islands GIS
Detailed Survey
Metadata



Detailed Survey

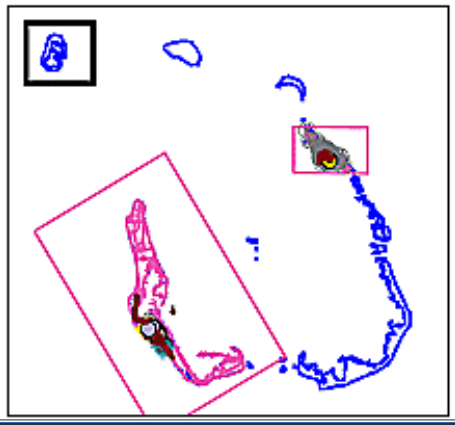
Points

Topography

Roads

Miscellaneous

Culture

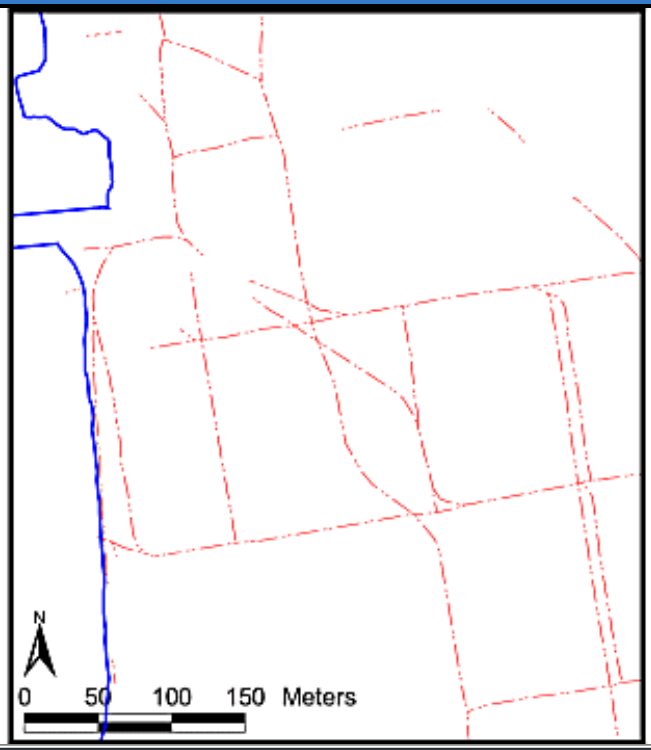


Dataset	
Title	Detailed Survey
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia
Description	
Abstract	This dataset contains points, lines and polygon data of topographical, cultural and infrastructual features. A sample of the Arc View legend that accompanies the above view can be seen here. This dataset covers all of Home Island and most of West Island however the detail is lost outside of the built up areas. The other islands and North Keeling Atoll are not included in this dataset.
Search Word(s)	HUMAN ENVIRONMENT Planning LAND Survey LAND Use
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	not known
Ending Date	not known
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not known

Access	
Stored Data Format	DIGITAL - ESRI Shapefile, DGN files
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below.
Data Quality	
Lineage	Not known prior to receipt by GA. GA converted the DGN files to shapefile format (annotation to coverage). GA projected the data to CKIG92, split the data into logical divisions for ease of use, deleted or corrected some erroneous features, and improved the attribution. In December 2003, GA projected the data into UTM (WGS84) zone 47S using Arcview.
Positional Accuracy	Appears to match orthophotography quite well. General accuracy over populated areas is good; other areas are much lower resolution. Specifically, many housing features do not appear to match actual ground features, and may have been derived from a conceptual plan not actually implemented.
Attribute Accuracy	Many features do not appear to be correctly attributed (eg. map tic marks attributed as pipes). Many features are not attributed (eg. trees). Most features appear correctly attributed.
Logical Consistency	This data seems to be a compilation of data from a variety of scales and sources. It is not consistently accurate and contains apparent duplication of features attributed differently.
Completeness	Data collection appears complete for the islands but as specified in the abstract, does not include the islands other than Home Island and West Isand, and only contains detailed data over populated areas.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au

Metadata Date	13-01-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47

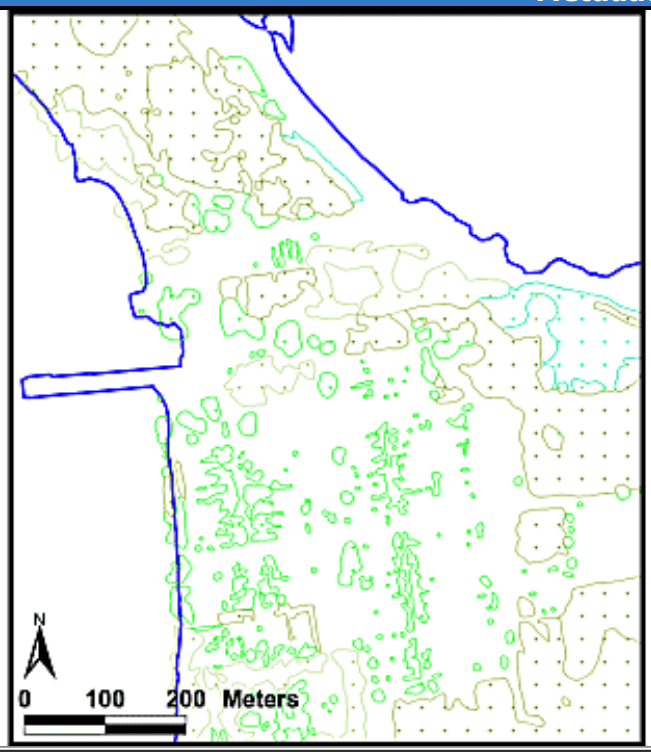
Cocos (Keeling) Islands GIS
Road Centerlines
Metadata

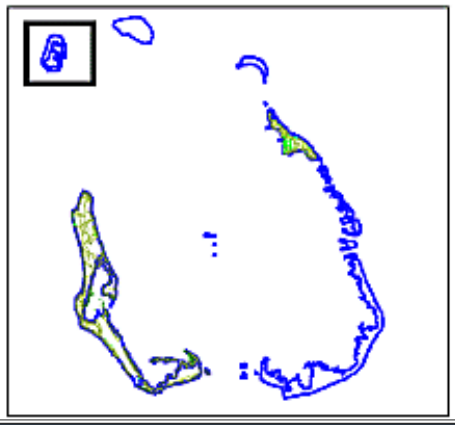


Dataset	
Title	Road Centerlines
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia
Description	
Abstract	This dataset contains road centrelines for the Cocos (Keeling) Islands derived from topography. The coverage is the same as for the road edges in the source data (incomplete).
Search Word(s)	HUMAN ENVIRONMENT Urban Design TRANSPORTATION Land
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	not known
Ending Date	not known
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not known
Access	
Stored Data Format	DIGITAL - ESRI Shapefile, ArcInfo Coverage
Available Format Type	DIGITAL - ESRI Shapefile

Access Constraint	See contact details below
Data Quality	
Lineage	The road centerlines have been generated from the topography theme using the ArcInfo 8.0.2 command CENTERLINE. Road intersections and other errors were manually edited/corrected in ArcEdit. The final version was opened, checked and attributed in ArcView 3.2 and saved as an ESRI shapefile. Roads were only extended to form obvious intersections and no missing road sections were added (for consistency and due to the age of the orthophotography). In December 2003 GA projeced the data to UTM (WGS84) zone 47S using ArcView.
Positional Accuracy	The road centrelines have a positional accuracy comparable to that of the road edges in the topography.
Attribute Accuracy	Attribute descriptions appear to match the feature types as visible on the orthophotography (1987).
Logical Consistency	This theme is a derivative of the infrastructure theme and thus all attributes are associated with this.
Completeness	Incomplete. The original feature data.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Assistant Director Policy, Non self governing Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	13-1-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47S - originally supplied as assumed Universal Transverse Mercator (UTM) Zone 47S (WGS72) projection.

Cocos (Keeling) Islands GIS
Vegetation
Metadata





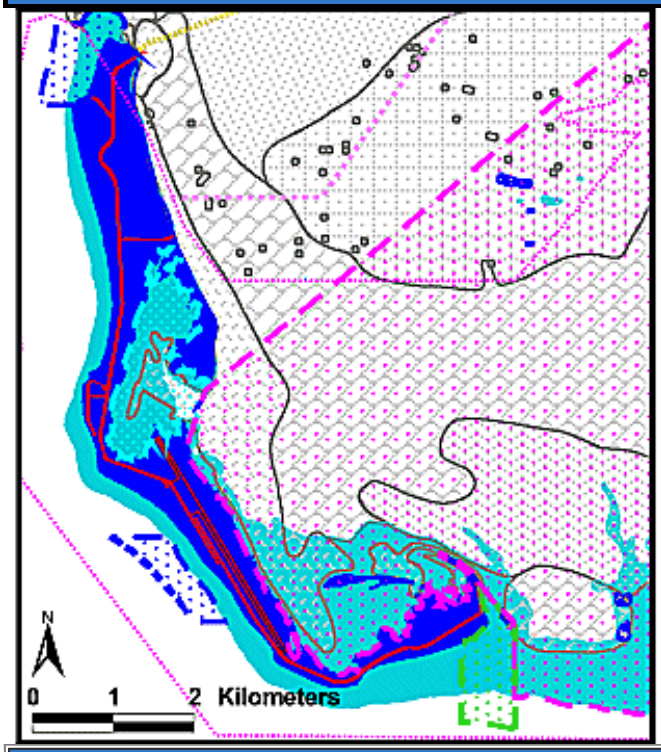
Dataset	
Title	Vegetation
Custodian	Australian Geological Survey Organisation (AGSO)
Jurisdiction	Australia
Description	
Abstract	This dataset is a polygon theme of vegetation types or structures of the Cocos (Keeling) Islands. It is derived from topography data (possibly 1:1000 scale) created by AUSLIG. The attributes are probably meaningless. Re-coding according to actual vegetation types is recommended if this layer is to be used for analysis. The vegetation appears to match the 1987 orthophotography, and would therefore be out of date in some areas (the 1992 planning data documentation reveals that areas have been cleared since the 1987 air photos). Coverage is over West and Home Islands.
Search Word(s)	ECOLOGY Ecosystem HERITAGE Natural
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	

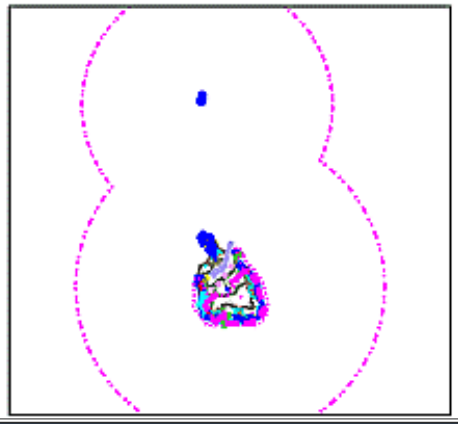
Beginning Date	not known
Ending Date	not known
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not known
Access	
Stored Data Format	DIGITAL - ESRI Shapefile, ArcInfo Coverage
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below
Data Quality	
Lineage	The vegetation theme was derived by GA from the topography data supplied by AUSLIG Canberra (via Landinfo). There are a number of features in the original topography data that do not have valid AUSLIG codes. Comparison with the orthophotography indicates that all these codes represent vegetation. GA has extracted these codes and created a polygon layer (in ArcInfo 8.1 Workstation) by including common lines as well as those coded as a particular type. The resulting layer is coded according to the erroneous codes in the original data. Because the level of detail is different from the vegetation layers in the planning data, correlation was not conclusive. Re-coding according to actual vegetation types is recommended if this layer is to be used for analysis. In December 2003, the vegetation data was projected to UTM(WGS84) Zone 47S for addition to the 2003 Cocos Islands GIS.
Positional Accuracy	The positional accuracy of this dataset is the same as the topography dataset that it was extracted from (its nominal scale is probably 1:1000). The vegetation appears to match the 1987 orthophotography, and would therefore be out of date in some areas (the 1992 planning data documentation reveals that areas have been cleared since the 1987 air photos)
Attribute Accuracy	Attributes are probably meaningless, as original codes were not according to the AUSLIG standards and no decoding sheet was available. Correlation

	with other vegetation coverages was not possible due to scale differences. Recoding according to actual vegetation types is recommended if this layer is to be used for analysis.
Logical Consistency	All themes are concerned with the vegetation on Cocos Islands.
Completeness	Appears complete for specified scale and extent.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Sean.Hambrook@ag.gov.au
Metadata Date	19-01-2004
Additional Metadata	
Projection	UTM (WGS84) Zone 47S.

Cocos (Keeling) Islands GIS
Marine Environment

Metadata





Dataset	
Title	Marine Environment
Custodian	Environmental Resources Information Network (ERIN)
Jurisdiction	Australia
Description	
Abstract	This dataset contains point, line and polygon data of the marine environment surrounding the Cocos (Keeling) Islands. It includes coastlines, bathymetric contours, coral outcrops and other features. Coverage extends to the whole of Cocos Keeling Isalnds. The themes have been grouped so as to increase the ease of use of the data. The individual themes have been grouped into the following shapefiles: • Infralin.shp - Infrastructure lines • Boundlin.shp - Boundary lines • Marinelin.shp - Marine lines • Surveylin.shp - Survey lines • Islandlin.shp - Island outlines • Marineply.shp - Marine polygon • Islandply.shp - Island polygon • Boundply.shp - Boundary polygon These shapefiles retain all spatial and non spatial data as supplied to GA.

	To view the sample of the marine environment with the legend click here. In December 2003 GA projected the data to UTM (WGS84) zone 47 using Arcview.
Search Word(s)	ECOLOGY Habitat HERITAGE Natural MARINE Coasts MARINE Reefs
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	not known
Ending Date	05OCT1998
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not known
Access	
Stored Data Format	DIGITAL - ESRI Shapefile, ArcInfo Coverage
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below
Data Quality	
Lineage	Not known prior to AGSO's receipt of the data (no metadata is available). Data was received as ArcInfo Export files. AGSO converted the data to Shapefile format. AGSO projected the data to CKIG92 with a coordinate shift to match the Cadastre (assuming it was received as UTM Zone 47 WGS72). The multitude of individual shapefiles were checked and those of similar themes were then grouped to provide a smaller set of shapefiles, thus making them more usable. The North Keeling atoll was translated and warped to more accurately match the orthophotography. The amount of translation and compression required can be found in the Cocos GIS documentation. Line themes were built into polygons to allow areas to be queried. In December 2003 GA projected the data to UTM(WGS84) zone 47
Positional Accuracy	Comparison with other datasets indicates that the

	positional accuracy of this dataset is variable. For West Island features match other datasets accurately. For other islands features may be displaced by up to 30 metres from matching features in other datasets. The North Keeling atoll was displaced about 130m to the east prior to the adjustment. After the adjustment the displacement (compared to the orthophotography) was less then 2m.
Attribute Accuracy	Attribute descriptions visually appear to match the associated spatial features. Accuracy details of the attributes are not known.
Logical Consistency	Values assigned to spatial features appear to match the description. All themes are concerned with the marine environment and have been placed into subgroups (as described in the Abstract) to more accurately describe specific aspects of the marine environment.
Completeness	Appears complete.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6274 8040
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	13-1-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

Cocos (Keeling) Islands GIS
Cocos (Keeling) Islands GPS Tracks

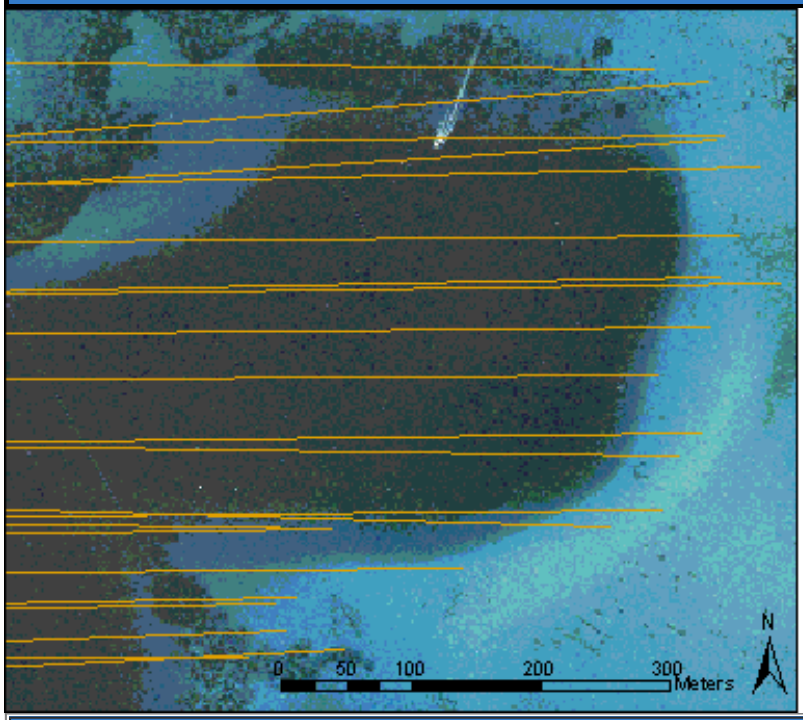
Metadata

Dataset	
Title	Cocos (Keeling) Islands GPS Tracks - Downloads from GPS of on-Island Trips
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset consists of GPS data from Cocos (Keeling) Island visitors who track their travels around the island group using GPS units. This is useful to test the accuracy of aerial imagery and road \ track location data. The inter-island ferry is also being tracked to provide location data on the various wharfes and landing sites that are used as well as the local shipping channels. The GPS measurements may not be highly accurate and have infrequent points around corners. However, over many traverses the positional accuracy of the Cocos GIS datasets is proving to be better than expected.
Search Word(s)	COCOS (KEELING) ISLANDS GPS TRACK DATA COCOS (KEELING) ISLANDS GPS ROAD DATA COCOS (KEELING) ISLANDS GPS FERRY DATA
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	May 2004

Ending Date	June 2005
Dataset Status	
Progress	Ongoing
Maintenance and Update Frequency	Annually if new data is provided
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	Unrestricted
Data Quality	
Lineage	The GPS track data is derived from direct downloads from various GPS recievers using Garfield Pro or OZI explorer software. Data has been recorded in MGA(UTM Zone 47) projection so no dataset conversion has been necessary.
Positional Accuracy	This data set is only intended to verify the positional accuracy of imagery, exsisting road and track data etc. and have proven adequate for this purpose.
Attribute Accuracy	The GPS manufacturers claim an accuracy of +/- 5m RMS.
Logical Consistency	Consistency.
Completeness	This is an ongoing data set and over time will yield an up to date data set of road, track, wharf and ferry traffic channel locations for the Cocos (Keeling) Islands.
Contact Information	
Contact Organisation	Geoscience Australia (GA)
Contact Position	
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	27-7-2005
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

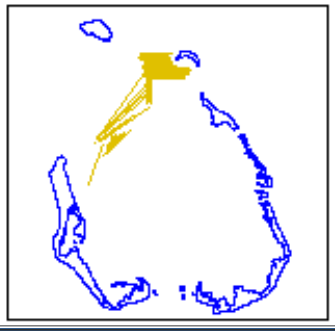
Cocos (Keeling) Islands GIS
Sidescan Sonar Paths

Metadata



Sidescan Sonar

Sonar Paths

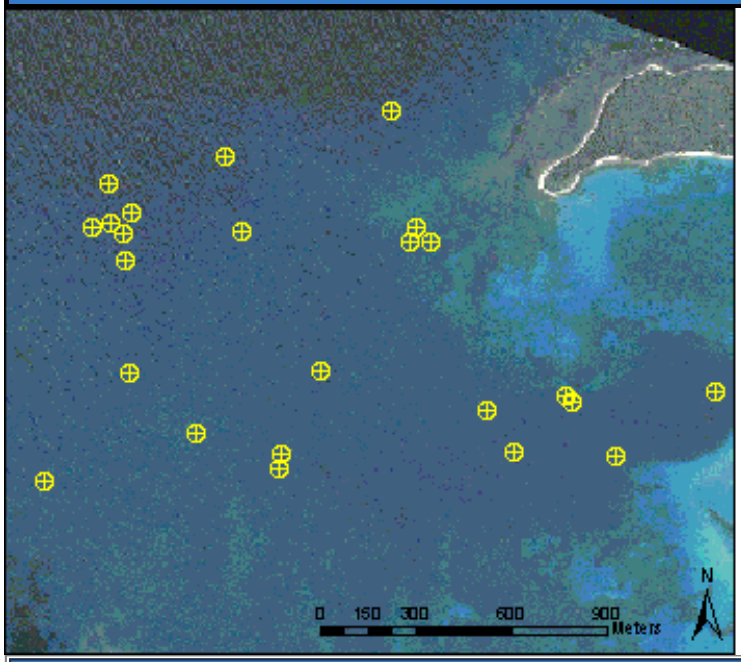


Dataset	
Title	Sidescan Sonar Paths
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset shows paths taken by a vessel holding Sidescan Sonar intruments within the waters of the Cocos (Keeling) Islands used by cargo ships.
Search Word(s)	SONAR Marine
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	20NOV2002
Ending Date	17MAR2003
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not planned
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below.
Data Quality	

Lineage	This data was originally provided as sonar video footage on CD-rom, veiwable with accompanying software (Imagenex Model 881 Sportscan Digital Sidescan Sonar V1.20). Using the latitude and longitude displayed at the beginning and end of the paths, the shapefile was made to represent the paths of the Sidescan Sonar. The shapefile represents the paths assuming travel was in a straight line from beginning to end. It is possible that the vessel wavered from this path. The data was projected to UTM (WGS84) zone 47S using ArcView.
Positional Accuracy	GA recieved little information regarding the positional accuracy of the sonar footage. Latitude and Longitude were both given to a hundredth of a minute.
Attribute Accuracy	The table attributes describe the path number.
Logical Consistency	The themes are used to describe the Sidescan Sonar paths.
Completeness	Is complete for the Sidescan Sonar footage which was provided by PANCKI.
Contact Information	
Contact Organisation	Geoscience Australia (GA)
Contact Position	
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	12-12-2005
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

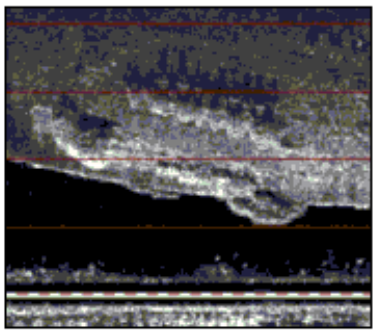
Cocos (Keeling) Islands GIS
Sidescan Sonar Interesting Features

Metadata



Sidescan Sonar

Interesting Features



Dataset	
Title	Sidescan Sonar Interesting Features
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset shows features of particular interest within the Sidescan Sonar video footage. The features have not yet been defined as being natural or unnatural.
Search Word(s)	SONAR Marine SONAR Features
Geographic Extent Name(s)	Cocos (Keeling) Islands Edition 1 2010 1:25000 - Geoscience Australia GEOCAT 70146
Data Currency	
Beginning Date	20NOV2002
Ending Date	17MAR2003
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not planned
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below.
Data Quality	

Lineage	This data was originally provided as sonar video footage on CD-rom, veiwable with accompanying software (Imagenex Model 881 Sportscan Digital Sidescan Sonar V1.20). Using the latitude and longitude displayed at the beginning and end of the paths, the shapefile was made to represent the paths of the Sidescan Sonar. The shapefile represents the paths assuming travel was in a straight line from beginning to end. It is possible that the vessel wavered from this path. The data was projected to UTM (WGS84) zone 47S using ArcView.
Positional Accuracy	GA recieved little information regarding the positional accuracy of the sonar footage. Latitude and Longitude were both given to a hundredth of a minute.
Attribute Accuracy	The table attributes describe the path number from which the features where seen.
Logical Consistency	The themes are used to describe interesting features in the Sidescan Sonar footage.
Completeness	Is complete for the Sidescan Sonar footage which was provided by PANCKI.
Contact Information	
Contact Organisation	Geoscience Australia (GA)
Contact Position	
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9971
Electronic Mail Address	Keith.Porritt@ga.gov.au
Metadata Date	12-12-2005
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

Chapter

5

Appendix 2: DVD HTML documentation

Hard copy print of the HTML pages comprising the autorun content for the DVD.

Home
Getting started
View spatial data
Metadata
Documents
CAD Plans
CocosGIS Online
3D Bathymetry

Welcome to the 2012 edition of the Cocos Keelings Islands GIS. The material on this CD-ROM is provided for general information only and should not be relied upon for any particular purpose. Please contact the Department of Regional Australia before taking any action based on material on this website. Maps and images on this CD-ROM are not intended for navigation or to precisely locate any particular feature.

The data were assembled by the Mineral Resources and Advice Group of Geoscience Australia (GA) on behalf of the Australian Commonwealth Department of Regional Australia. In compiling this product GA has translated and integrated data as received from a number of sources, including:

- the Australian Surveying and Land Information Group (AUSLIG - now the National Mapping Division of Geoscience Australia)
- the Western Australian Department of Land Administration (DOLA)
- the National Capital Planning Authority (NCPA)
- and the Commonwealth Environmental Resource Information Network (ERIN)

Consequently, no comprehensive checks were made as to the accuracy or completeness of these externally supplied datasets. Therefore the data should not be completely depended on when making decisions of a commercial nature.

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Getting started

For a more detailed guide, including troubleshooting, please see the Getting Started Guide (pdf). If you have a previous version of QGIS installed you will need to uninstall it before proceeding. Please refer to the PDF guide for steps on how to do this.

In order to have the Cocos Keeling Islands GIS fully functional, you will need to run a Microsoft Windows Operating System (Windows XP or greater) and install the following:

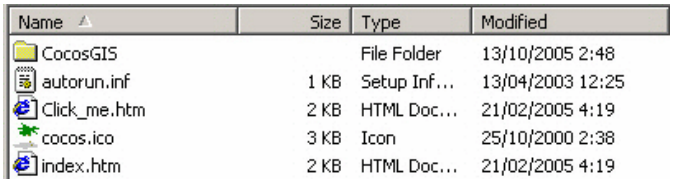
- Quantum GIS 1.7.4 Wroclaw
- Earth Resource Mapping ER Viewer v2.0c or greater

If you do not have a PDF reader (such as Adobe Reader) and either Internet Explorer or Mozilla Firefox already installed on your computer, you can find installation files below. Note that CocosGIS will not work correctly in some browsers. Also note that installing Internet Explorer 8 requires administrator privileges on your computer.

Copy CocosGIS to your hard drive

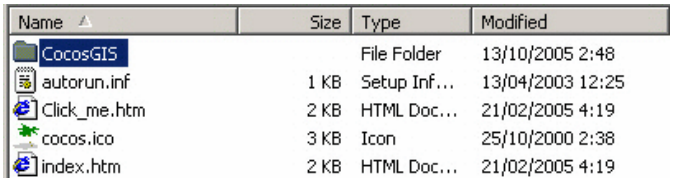
You can run the CocosGIS straight from the USB or DVD it was supplied on. However, it is advisable to copy the data onto your hard drive for faster load times. This guide assumes the completion of this step.

To copy the data simply navigate to the CocosGIS folder in the Windows Explorer window. You will now see the following directory structure.



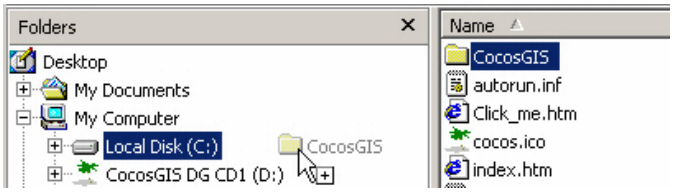
Name	Size	Type	Modified
CocosGIS		File Folder	13/10/2005 2:48
autorun.inf	1 KB	Setup Inf...	13/04/2003 12:25
Click_me.htm	2 KB	HTML Doc...	21/02/2005 4:19
cocos.ico	3 KB	Icon	25/10/2000 2:38
index.htm	2 KB	HTML Doc...	21/02/2005 4:19

Select "CocosGIS" by clicking on the folder once. As you can see below the colour of the folder turns blue.



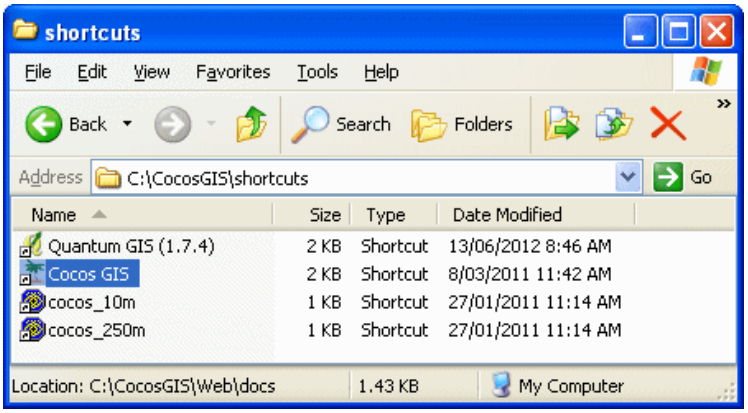
Name	Size	Type	Modified
CocosGIS		File Folder	13/10/2005 2:48
autorun.inf	1 KB	Setup Inf...	13/04/2003 12:25
Click_me.htm	2 KB	HTML Doc...	21/02/2005 4:19
cocos.ico	3 KB	Icon	25/10/2000 2:38
index.htm	2 KB	HTML Doc...	21/02/2005 4:19

With the cursor on the CocosGIS folder click and hold the left mouse button. Drag it to your hard drive (usually "C") and release the mouse button.



The CocosGIS folder will begin to copy to your hard drive. This process will take a while. If asked to overwrite existing files select 'Yes'.

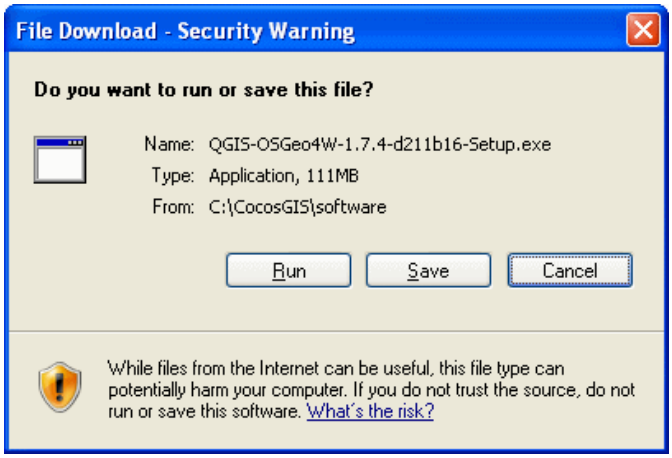
Once complete, navigate to the folder C:\CocosGIS\shortcuts and copy the file Cocos GIS to your desktop.



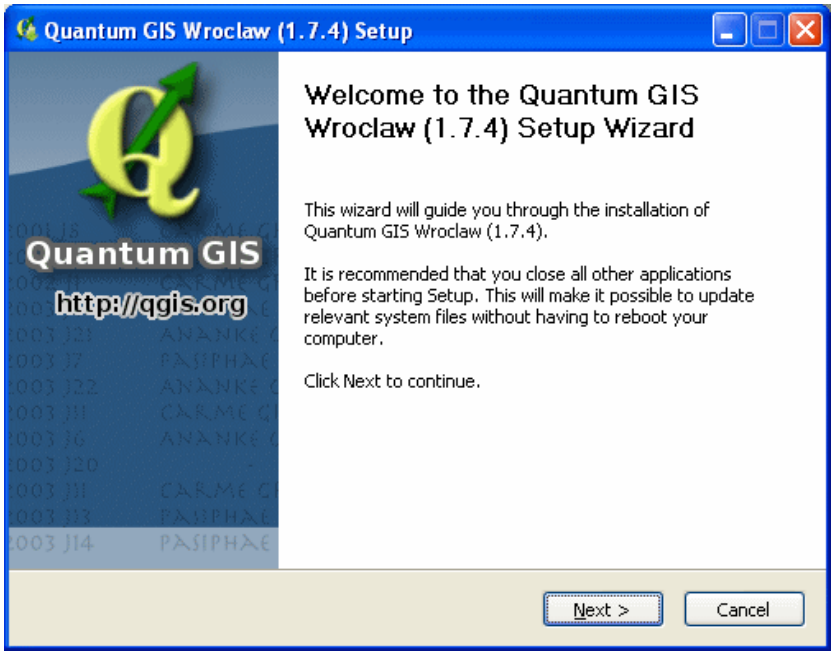
To ensure the links in this guide point to your C drive rather than the USB or DVD, please close this browser window and double click the Cocos GIS icon on your desktop. Navigate back to this point of the Getting started page and continue the guide below.

Installing Quantum GIS

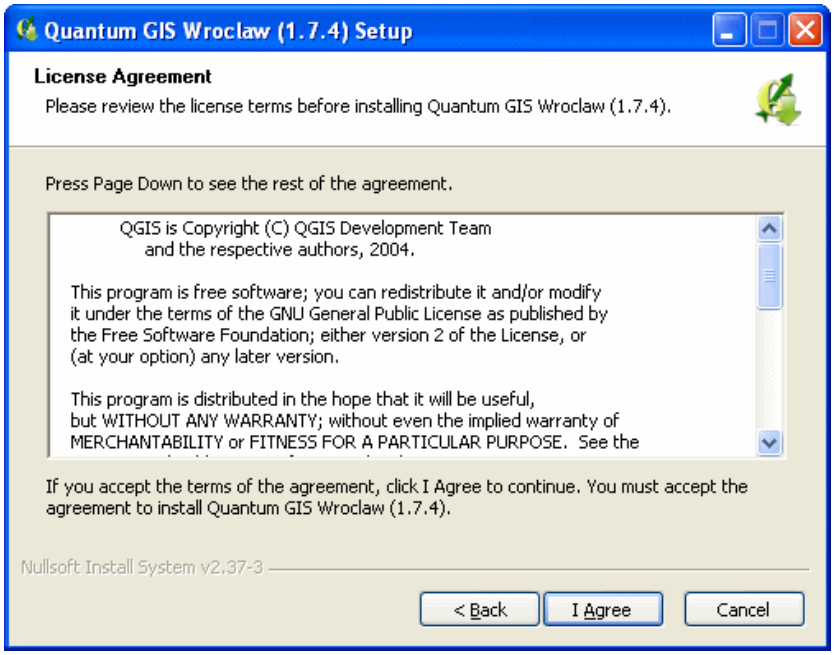
1. Click the following icon to begin installation:
2. Internet Explorer may issue a number of warnings like the ones below. Click "Run" for both.



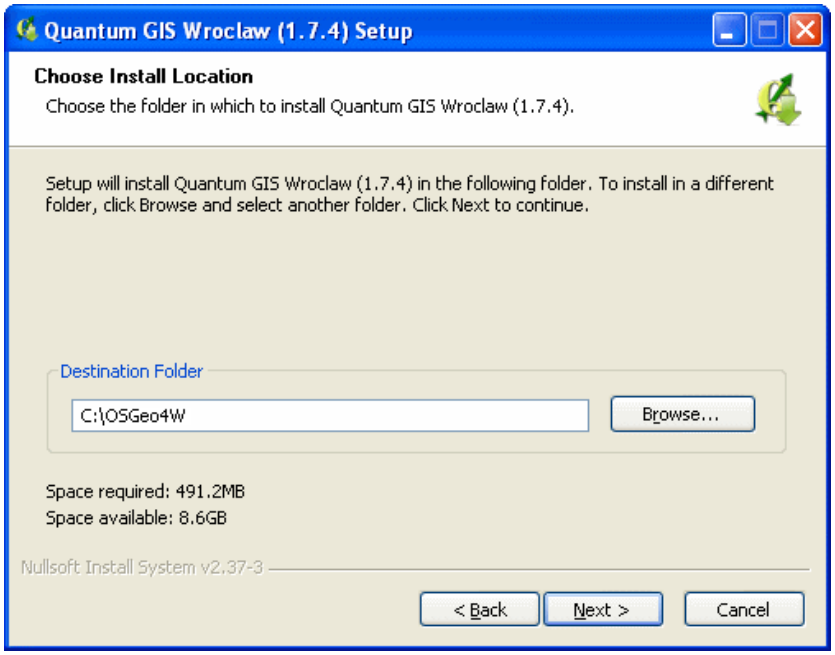
3. Click the 'Next >' button.



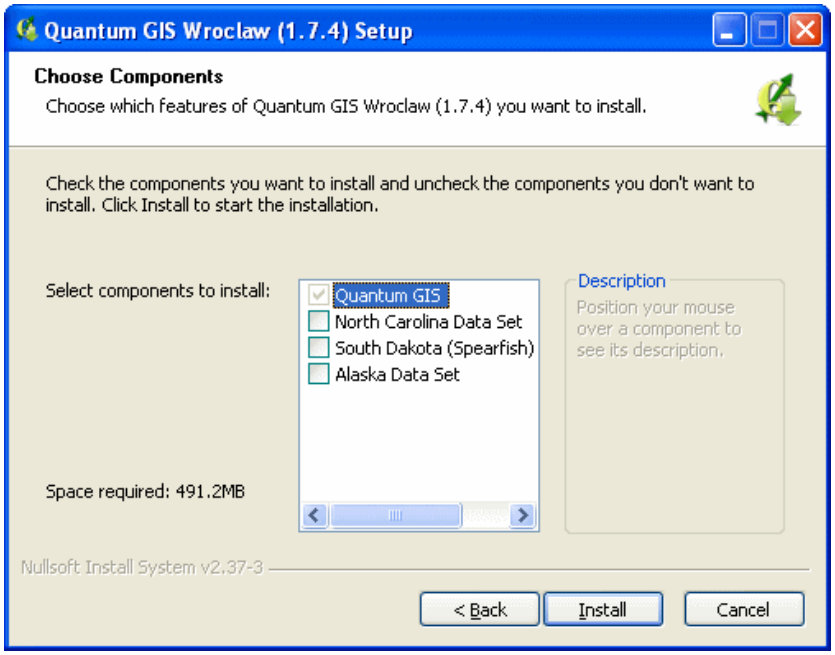
4. On the License Agreement page, click 'I Agree'..



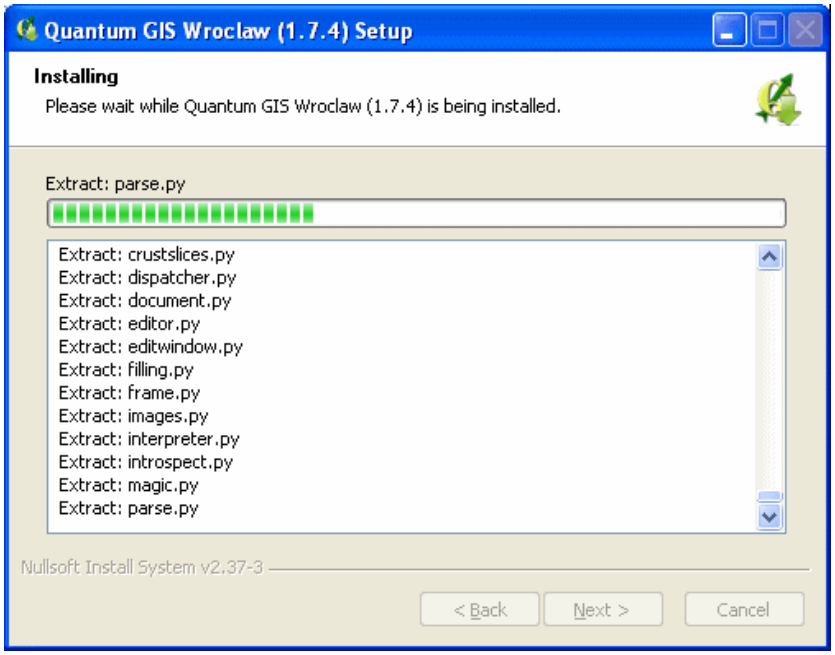
5. Change the Destination Folder so that it reads 'C:\OSGeo4W' as shown in the image below.



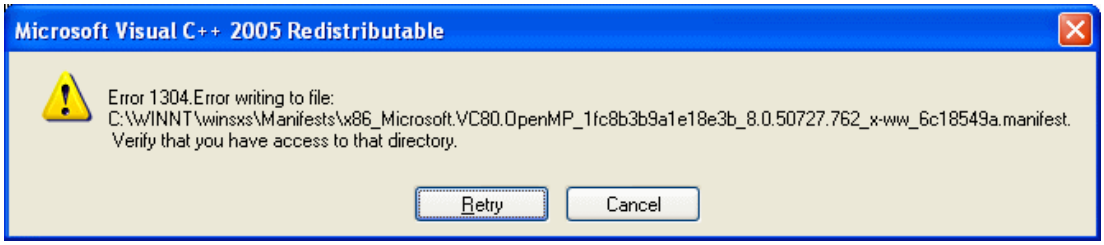
6. Click the 'Install' button to begin installation.



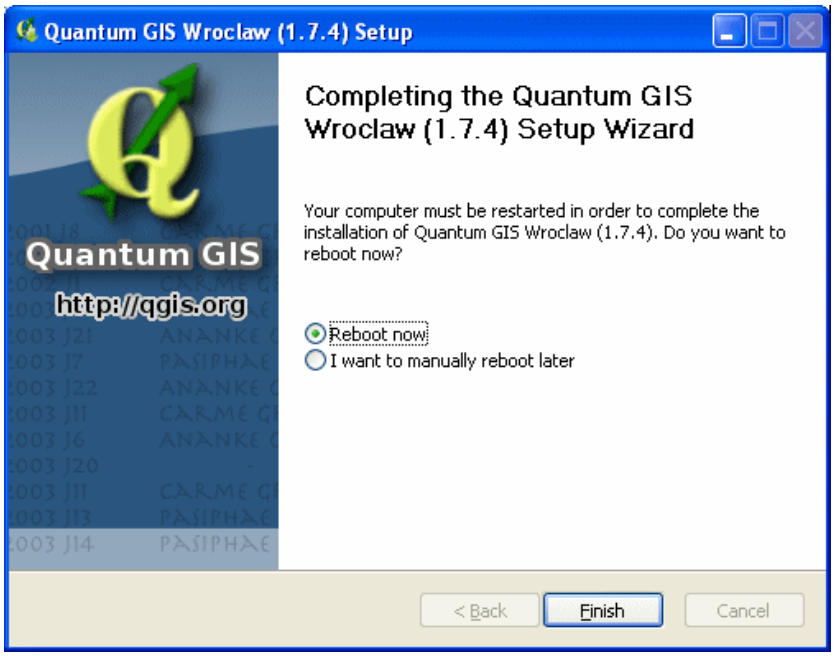
7. As QGIS installs, note that the output reads 'Extract' as shown in the image below. If it instead reads 'Skipped' then it is likely you are trying to write to a folder you do not have write access to. Ensure the install destination folder is 'C:\OSGeo4W' and try again.



8. During installation you might receive an error message such as the ones shown below. If this occurs just click 'Cancel' to continue installation.



9. After installation is complete you will be asked to restart your computer. Ensure all open documents have been saved, and then click 'Reboot now' in the QGIS installation window.



The installation of the Cocos GIS is now complete. For further information, including troubleshooting, please refer to the Getting Started Guide (pdf).

Installation of other tools

Click any of the logos below to install the respective software.

erdas The Earth to Business Company

ER Viewer allows viewing of all the orthophography alone as single ECW format images.

Foxit™ A True and Complete PDF Solution.

PDF reader allows you to open PDF documents for viewing.

Internet Explorer 8 mozilla Firefox

Either Internet Explorer or Mozilla Firefox is required to use this system.

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Australian Government
Department of Regional Australia, Regional Development and Local Government

View Data - Quantum GIS Projects

The links below start QuantumGIS projects (providing QuantumGIS is installed and you are viewing this in Internet Explorer - if not, please see Getting started). The ability to zoom, pan, identify etc is available in all projects. All projects have the 2011 orthophotography and 2012 cadastre added.

Property Information	Description of Project
Home Island Cadastre (lodged)	This project is focussed on Home Island and contains the lodged cadastre and infrastructure data.
West Island Cadastre	This project is focussed on West Island and contains the cadastre and infrastructure data.
Cocos Cadastre History	This project shows the cadastre (both cadastre and lodged) for Cocos Islands from previous years.

Utilities	Description of Project
All Utilities Data	This view has the current utilities data. Excellent water resources data such as galleries and pumps is available.
Gas and Fuel Infrastructure	This project shows the gas and fuel infrastructure present on the Island.
Power Infrastructure	This project showsthe power infrastructure present on the Island. This includes electrical cables, substations, meters, lightpoles, and switchboxes.
Telecommunications Infrastructure	This project shows the telecommunications infrastructure present on the Island.
Waste Water Infrastructure	This project shows shows the waste water infrastructure present on the Island.
Water Supply Infrastructure	This project shows the water supply infrastructure present on the Island.

Planning	Description of Project
All Planning Themes	This project is the master project for all the other projects that include planning.
Marine Plan	The data used in the project shows the marine environment of the Cocos Southern atoll.
Land Use and Planning	The themes used in the project show the current land use of Cocos Southern atoll.
North Keeling Island Plan	This view has been created for the North Keeling atoll.

Other	Description of Project
Elevation	This project includes ground elevation data for Cocos (Keeling) Island including a DEM and contours.
Image History	This project shows all aerial imagery from 1987 to 2012 of Cocos (Keeling) Island.
Master Project	This project has all the data used in the above projects.

If you wish to view the old ArcExplorer files click here.

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Australian Government
Department of Regional Australia, Local Government, Arts and Sport
Geoscience Australia

Metadata List

Important: In attempting to supply metadata according to the ANZLIC Core Metadata Elements, many elements are filled according to GA's understanding. Metadata was not available for a large number of datasets, or was informal and incomplete.

Imagery

Orthophotography	2011 Orthophotography of Cocos Keeling Islands 1987 Orthophotography of Cocos Keeling Islands
Satellite Imagery	2006 Cocos Keeling Islands Satellite Imagery 2000 Spot Satellite Imagery

Elevation/Height Information

Digital Elevation Model	2011 Cocos Island Digital Elevation Model
Contours	2011 0.5m Contours
Vegetation	2011 Canopy Height Model
Survey Control Data	Flight Lines and Photograph Centers 2011 Flight Lines and Photograph Centers

Vector Data

NATMAP 1:30,000	NATMAP 1:30,000 Map
Planning	Utilities Land Use Plan & Planning Scheme
Cadastre	Cadastre (property boundaries)
Topography/Culture	Topography/Culture
Detailed Survey	Detailed Survey
Road Centerlines	Road Centerlines
Environmental	Vegetation Marine Environment
Other Datasets	GPS road and Track Data
Sidescan Sonar	Paths Points

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Australian Government
Department of Regional Australia, Regional Development and Local Government

Documents

The documents listed below are intended to provide supplementary information regarding the Cocos (Keeling) Islands GIS. Most of the documents are in PDF format and require a PDF Reader to view them.
(click here to install if needed)

Licenses

Satellite Image License
The license agreement for usage of the Cocos (Keeling) Islands satellite images included on this DVD. If you are unsure whether you are a registered user please consult here.

Registered Users
The list of registered users for the Cocos (Keeling) Islands satellite images included on this DVD.

User Guides and Documentation

Cocos Islands GIS 2012 System Documentation
Report and product documentation for the Cocos (Keeling) Islands Geographic Information System (CocosGIS). This is a Portable Document Format (PDF) version, updated 2012.

Quantum GIS 1.7.4 (QGIS) Manual
The Cocos GIS includes a basic manual for the Quantum GIS program for those users who are less familiar with the GIS system.

Quantum GIS (QGIS), A Gentle Introduction to GIS.
This guide explains the basics of GIS in an easy to understand manner.

User Guide - Getting Started

User Guide - Using the 2011 Elevation Data (New in July 2012 release)

User Guide - Basic QGIS Functions

User Guide - Printing images from QGIS

User Guide - QGIS Print Composer

User Guide - Searching Data in QGIS

User Guide - Using Bathymetry Grids for Cocos Islands

User Guide - Downloading GPS Data to Shapefile

User Guide - Coordinate Reference Systems In QGIS

ANZLIC Metadata Guidelines (Version 1)
This is the metadata standard used in construction of the Cocos GIS metadata sheets. Metadata created after the release of ANZLIC Metadata Guidelines: Core metadata elements for geographic data in Australia

Version 2, February 2001 (ANZLIC web pages - link to offline (PDF) copy here) will comply with the newer standard. Older metadata will be gradually updated.

Landgate Cadastre Data Dictionary

Data Dictionary of those cadastre attributes that are maintained by Landgate. The cadastre layer provided in the CIGIS includes these attributes together with further attributes from Commonwealth sources such as the Ground Audit survey done in the mid 1990s.

Planning Documents

Interpretation Plan for the Shire of Cocos (Keeling) Islands

A guide to telling the stories of the people and places of the Cocos Islands, for the benefit of visitors and for future generations of the community, using the Copra Industrial Precinct as the hub. The purpose of the Interpretation Plan is to identify the key Cocos stories and to recommend ways of weaving these together into a coherent whole, so that the stories are held for future generations of Cocos Malay people and made available to visitors.

Cocos crown land management plan

Plans for Crown land on the cocos islands with regard to conservation, economic, cultural and social values and the Shire's strategic direction philosophy, Vision 2010. Includes recommendations for future use, development priorities in the short, medium and long term.

Seawall Upgrade Design Concept

This report is provided by GHD Pty Ltd. identifying the limitations of the current seawall on the western shoreline, including investigations into and upgrade of the seawall and design concept for this work.

Studies and Reports

AAM Aerial Survey 2011

This report discusses the acquisition of the aerial survey data and its accuracy.

CSIRO report - Conservation values in Commonwealth waters of the Christmas and Cocos Island

This document was produced by CSIRO Marine and Atmospheric Research (CMAR) in collaboration with Geoscience Australia to describe conservation values of the marine environment under Commonwealth jurisdiction surrounding the Christmas Island and Cocos Islands.

Climate Change Risk assessment for the Australian Indian Ocean Territories

Key vulnerabilities, climate change observations, projections and potential impacts for Cocos (Keeling) Islands and Christmas Island through a comprehensive risk assessment. Produced by Maunsell Australia in association with CSIRO and CZM Pty Ltd.

Cocos (Keeling) Islands Storm Surge Study

This report was produced by GHD Pty Ltd. to investigate storm surge levels and describes a technical study to update existing probabilistic estimates of extreme water levels.

Port Refuge Unidentified Wreck inspection report

Technical data, maps, descriptions, points and photos relevant to the Port Refuge wreck. From the department of Maritime Archaeology at WA Museum.

Phaeton (1889) Wreck inspection report

Technical data, maps, descriptions, points and photos relevant to the Phaeton shipwreck. From the department of Maritime Archaeology at WA Museum.

Direction Island Unidentified inspection report

Technical data, maps, descriptions, points and photos relevant to the Direction Island unidentified wreck. From the department of Maritime Archaeology at WA Museum.

Gerhard Cannon Site inspection report

Technical data, maps, descriptions, points and photos relevant to the Gerhard Cannon site. From the department of Maritime Archaeology at WA Museum.

Ocean House Anchor inspection report

Maps, descriptions, points and photos relevant to the Ocean House Anchor site. From the department of Maritime Archaeology at WA Museum.

Utilities Data Cocos (Keeling) Islands

This document was produced by GHD Pty Ltd. and includes metadata for the utilities data.

Water Resources Component, Cocos (Keeling) Islands GIS

This document was produced by ECOWISE Environmental Ltd for Cocos Island Administration, Attorney-General's Department & the Australian Geological Survey Organisation. It includes metadata for the associated data.

Environmental reports supplied by Parks Australia North CKI

- AQIS Survey June 2000
- Buff-Banded Rail Report
- Crazy Ant Report 2002
- Exotic Plants on Cocos 2002
- RFBB SURVEY
- Strategy
- Turtle Database 2003
- Turtle Survey Report 2000
- Turtle Survey Report 2002
- Turtle Survey Report 2003

Other Documents

Cocos (Keeling) Islands Lagoon Shipping Passage Realignment

This document was produced by GHD Pty Ltd. and outlines the process to realign the shipping pasage through the lagoon focusing on environmental impact issues.

Side Scan Sonar Paths & Interesting Features

The purpose of this survey was to confirm the revised shipping channel prior to opening in 2003 - i.e. no obstructions and markers placed appropriately. GA built shape files to show the paths taken by the sidescan sonar vessel and GA recorded a number of features that may not be natural that were subsequently inspected by Parks - however no new wreckage was located through this process.

DigitalGlobe Satellite Imagery Documentation

This document was produced by DigitalGlobe and contains information about the pan-sharpened satellite imagery obtained from the QuickBird satellite.

Cocos GPS Station

This document shows the Cocos GPS station identification, co-ordinates, equipment and information.

1992 NCPA Planning Data Documentation

This document was produced by the NCPA following the completetion of a draft plan for the Cocos (Keeling) Islands concluding in 1992. The report describes the covers produced by the Arc/Info database that was created.

West Island, Cocos (Keeling) Islands School visit 15th April 2003

Home Island, Cocos (Keeling) Islands School visit 16th April 2003

Click on each green bar above to see photos of Cocos GIS presentations at both Cocos (Keeling) Islands

schools - West Island on 15th April and Home Island on 16th April 2003.

Cocos (Keeling) Islands GIS - Stage 1 Report

This report was produced by AGSO summarising the progress of the Cocos (Keeling) Islands GIS (Cocos GIS) on completetion of Stage 1.

Register of the National Estate

Online, searchable register of more than 12,000 places of natural, historic or indigeneous significance. Use the search to find details and photographs of sites in the national estate dataset.

The Attorney-General's Department Cocos (Keeling) Islands Photo Collection

This is a link to the The Attorney-General's Department Cocos photo library page (Link to an offline copy here).

The Cocos Island Tourism Commission

This Cocos Island Tourism Commission page contains tourist information for the islands. Link to an offline copy here.

2011 Strategic Review of Geoscience Australia

Includes the terms under which GA undertakes projects for other Commonwealth Departments.

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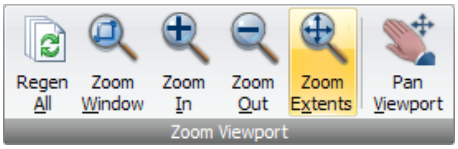
Utility CAD PDFs / DWGs

The original plans for services in place on Cocos Island can be viewed using the links below. These are stored both as CAD files and as a PDF conversion of each individual file. The PDFs cannot be guaranteed to be accurate so please use the CAD files as an absolute reference. Use the bulleted links (Power, Waste Water...) on the left navigation bar to go to the section you are interested in.

If you don't have a CAD viewer, one can be installed by clicking here.

Note: If you cannot see anything when you open a CAD file, try to *Zoom Extents*.



Power

Home Island existing underground services and survey data.
CAD: HomeIsl_CKIG92.dwg
PDF: HomeIsl_CKIG92.pdf

Home Island existing underground services and survey data (with power meters).
CAD: HomeIsl_powermeter_CKIG92.dwg
PDF: HomeIsl_powermeter_CKIG92.pdf

West Island general overview (in CKIG92 projection).
CAD: rwest_1_CKIG92.dwg
PDF: rwest_1_CKIG92.pdf

West Island general overview (only partial, in CKIG92 projection).
CAD: rwest_2_CKIG92.dwg
PDF: rwest_2_CKIG92.pdf

Home Island master plan for underground services (in CKIG92 projection).
CAD: underground_services_home_island_CKIG92.dwg
PDF: underground_services_home_island_CKIG92.pdf

West Island master plan for underground services (in CKIG92 projection).
CAD: underground_services_west_island_1_CKIG92.dwg
PDF: underground_services_west_island_1_CKIG92.pdf

West Island master plan for underground services (only partial, in CKIG92 projection).
CAD: underground_services_west_island_2_CKIG92.dwg
PDF: underground_services_west_island_2_CKIG92.pdf

West Island overview (in CKIG92 projection).
CAD: WORKS_westis_CKIG92.dwg

PDF: WORKS_westis_CKIG92.pdf

Cocos HV Reticulation upgrade stage 1
Cocos Islands Power Reticulation.
Filenames: 54e01.dwg, 54e02.dwg, 54e03.dwg
PDF:
- Single Line diagram - Part 1 - Existing and New
- Single Line diagram - Part 2 - Existing and New
- Single Line diagram - Part 3 - Existing and New

DWG:
- Single Line diagram - Part 1 - Existing and New
- Single Line diagram - Part 2 - Existing and New
- Single Line diagram - Part 3 - Existing and New

Cocos Islands Power Reticulation.
Filenames: 6915-54-e01.tif, 6915-54-e02.tif, 6915-54-e03.tif, 6915-54-e04.tif, 6915-54-e05.tif, 6915-54-e06.tif, 6915-54-e07.tif, 6915-54-e08.tif, 6915-54-e09.tif, 6915-54-e10.tif, 6915-54-e11.tif, 6915-54-e12.tif, 6915-54-e13.tif, 6915-54-e14.tif, 6915-54-e15.tif
- PDF

TIF:
- Single line diagram - Part 1 - Existing and New
- Single line diagram - Part 2 - Existing and New
- Single line diagram - Part 3 - Existing and New
- Jetty area - Substation 8
- Transmitters area - Substation 8
- Cocos Farm / Clam Farm - Substation 6
- "Q" Station Bore Field area - Substation 5
- "Q" Station North area
- "Q" Station area - Substation 3
- Receivers Site area - Substation 2
- Beacon Heights area - Substation 20
- Commercial area - Power Substation 1A & 1B
- Commercial / Residential area - Substation 11
- Residential area - Substation 12
- Residential area South

Cocos HV Reticulation upgrade stage 2
Cocos Islands Power Reticulation.
Filenames: 54E16.dwg, 54E17.dwg, 54E18.dwg, 54E19.dwg, 54E20.dwg
PDF:
- 54e16 - 54e20

DWG:
- Beacon Heights area - Substation 6 West
- Commercial area - Power Station Substation 1A & 1B
- Commercial / Residential area - Substation 7 South
- Residential area - Substation 8 South
- Residential area South

West Island Overview.
CAD: rwest.dwg
PDF: rwest.pdf

West Island Overview (Scaled).
CAD: rwest_scaled.dwg
PDF: rwest_scaled.pdf

Cocos HV Reticulation upgrade stage 3
Cocos Islands Vacuum Sewerage.
Filenames: C01.dwg, C02.dwg, C03.dwg, C04.dwg, C05.dwg, C06.dwg, C07.dwg, C08.dwg
PDF:
- C01 - C08

DWG:
- West Island - Pressure Main plan - sheet 1 of 3
- West Island - Pressure Main plan - sheet 2 of 3
- West Island - Pressure Main plan - sheet 3 of 3
- West Island - Pressure Main Longitudinal Section - sheet 1 of 2
- West Island - Pressure Main Longitudinal Section - sheet 2 of 2
- West Island - Pressure Main Miscellaneous details
- West Island - Ocean Outfall plan
- West Island - Ocean Outfall Longitudinal Section

Civil pipeline
CAD: civil.dwg
PDF: civil.pdf

Cocos West Island Overview.
CAD: cocos_west.dwg
PDF: cocos_west.pdf

Cocos Islands Power Reticulation.
Filenames: E01.dwg, E02.dwg, E03.dwg, E04.dwg, E05.dwg, E06.dwg, E07.dwg, E08.dwg, E09.dwg, E10.dwg, E11.dwg, E12.dwg, E13.dwg, E14.dwg, E15.dwg, E16.dwg
PDF:
- E01 - E16

DWG:
- Power Station and Local area
- Northern Feeder
- Southern Feeder
- Western Feeder
- Jetty area - Substation 8
- Transmitters area - Substation 7
- Rumah Baru area - Substations 5 & 6
- Commercial area & Beacon Heights
- Commercial / Residential area - Substations 11 & 12
- Residential area South
- Southern area - Substation 13
- Miscellaneous Details
- Transformer Vector diagrams

Cocos West Island main electrical line
CAD: elect2.dwg
PDF: elect2.pdf

Cocos West Island new electrical line
CAD: newline.dwg

PDF: newline.pdf

Cocos West Island Overview (Civil buildings).
CAD: west_civil.dwg
PDF: west_civil.pdf

Home Island Distribution Pillars
Installation of new LV pillars Home Island.
Filename: 24E01.dwg, 24E02.dwg, 24E03.dwg, 24E04.dwg
PDF:

- 24E01 - 24E04

DWG:

- North Community area
- Central Community area
- Miscellaneous Details
- Overall Single Line Schematic

Home Island Overview.
CAD: HomeIsl.dwg
PDF: HomeIsl.pdf

Home Island Overview (power meters).
CAD: HomeIsl_powermeter.dwg
PDF: HomeIsl_powermeter.pdf

Back to top

Waste Water

Sewer System
Home Island Water mains (in CKIG92 projection).
CAD: home_watermain_CKIG92.dwg
PDF: home_watermain_CKIG92.pdf

Home Island Overview (in CKIG92 projection).
CAD: HOMEBASE_CKIG92.dwg
PDF: HOMEBASE_CKIG92.pdf

Home Island Sewer lines (in CKIG92 projection).
CAD: HOMESEWER_CKIG92.dwg
PDF: HOMESEWER_CKIG92.pdf

Home Island Topographic Survey (in CKIG92 projection).
CAD: HOMESURVEY_CKIG92.dwg
PDF: HOMESURVEY_CKIG92.pdf

West Island Overview (in CKIG92 projection).
CAD: WESTBASE_CKIG92.dwg
PDF: WESTBASE_CKIG92.pdf

West Island Sewer lines (in CKIG92 projection).
CAD: WESTSEWER_CKIG92.dwg
PDF: WESTSEWER_CKIG92.pdf

West Island Topographic Survey (in CKIG92 projection).
CAD: WESTSURVEY_CKIG92.dwg
PDF: WESTSURVEY_CKIG92.pdf

Vacuum Sewerage System
Home Island Vacuum Pumping Station site plan.
CAD: 48C60 as cons.dwg
PDF: 48C60 as cons.pdf

West Island Vacuum Pumping Station site plan.
CAD: 48C61 as cons.dwg
PDF: 48C61 as cons.pdf

Home & West Island Pumping Station general arrangement plan.
CAD: 48C62as cons2.dwg
PDF: 48C62as cons2.pdf

Home & West Island Pumping Station general arrangement sections.
CAD: 48C63airvac as cons.dwg
PDF: 48C63airvac as cons.pdf

Home & West Island Pumping Station elevations.
CAD: 48C64airvac as cons.dwg
PDF: 48C64airvac as cons.pdf

Home & West Island Pumping Station Reinforced Concrete details.
CAD: 48C65as cons.dwg
PDF: 48C65as cons.pdf

Home & West Island Structural details.
CAD: 48C66as cons.dwg
PDF: 48C66as cons.pdf

Home & West Island Pumping Station Odour control pit.
CAD: 48C68 as cons.dwg
PDF: 48C68 as cons.pdf

Home & West Island Ocean outfall details.
CAD: 48C84as cons2.dwg
PDF: 48C84as cons2.pdf

Home Island Pumping Station Electrical building layout.
CAD: 48E01REV0as cons.dwg
PDF: 48E01REV0as cons.pdf

West Island Pumping Station Electrical building layout.
CAD: 48E01REV0as cons.dwg
PDF: 48E01REV0as consdwg.pdf

Home Island Telstra Electrical cables (in CKIG92 projection).
CAD: homebase_telstra_cables_CKIG94.dxf
PDF: homebase_telstra_cables_CKIG94.pdf

West Island Telstra Electrical cables (in CKIG92 projection).
CAD: WESTBASE_elec_CKIG94.dxf
PDF: WESTBASE_elec_CKIG92.pdf

West Island Sewer lines.
CAD: WESTSEWER.dwg
PDF: WESTSEWER.pdf

West Island Sewer main (in CKIG92 projection).
CAD: westsewer_sewer_CKIG94.dxf
PDF: westsewer_sewer_CKIG94.pdf

- **Back to top**

Water (supply/meters)

Water Meters Installation
Water Meters (as constructed).
Filenames: H001.tif, H002.tif, H003.tif, H004.tif, H005.tif, H006.tif, H007.tif, H008.tif, H009.tif, H010.tif, H011-1.tif, H012-1.tif, H013-1.tif, H014-1.tif, H015-1.tif
PDF:
- H001 - H015-1

TIF:
- Home Island site plan (1 of 15)
- Home Island site plan (2 of 15)
- Home Island site plan (3 of 15)
- Home Island site plan (4 of 15)
- Home Island site plan (5 of 15)
- Home Island site plan (6 of 15)
- Home Island site plan (7 of 15)
- West Island site plan (8 of 15)
- West Island site plan (9 of 15)
- West Island site plan (10 of 15)
- West Island site plan (11 of 15)
- West Island site plan (12 of 15)
- West Island site plan (13 of 15)
- West Island site plan (14 of 15)
- Typical Details (15 of 15)

Water Supply Upgrade
Water Supply upgrade (as constructed).

Home Island Schematic diagram
CAD file: HIH01.dwg
PDF file: HIH01.pdf

Home Island sections & details - Electric & Diesel pumps.
CAD file: HIS01.dwg
PDF file: HIS01.pdf

West Island Office modifications & Electrical services.
CAD file: WIE01.dwg

PDF file: WIE01.pdf

West Island Part site plan.
CAD file: WIH01.dwg
PDF file: WIH01.pdf

West Island Water Tank details.
CAD file: WIH02.dwg
PDF file: WIH02.pdf

West Island Dimensioned set out drawings & schematic.
CAD file: WIH03.dwg
PDF file: WIH03.pdf

West Island sections & details - Electric & Diesel pumps.
CAD file: WIS01.dwg
PDF file: WIS01.pdf

Back to top

Underground Services

Underground Services (as constructed 1994)

Home Island Existing Underground services & Survey data
CAD: underground_services_home_island_CKIG92.dwg
PDF: underground_services_home_island_CKIG92.pdf

West Island Existing Underground services & Survey data (1 of 2)
CAD: underground_services_west_island_1_CKIG92.dwg
PDF: underground_services_west_island_1_CKIG92.pdf

West Island Existing Underground services & Survey data (2 of 2)
CAD: underground_services_west_island_2_CKIG92.dwg
PDF: underground_services_west_island_2_CKIG92.pdf

Back to top

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To view the files, copy CocosGIS to drive C: as shown in Getting Started, then double click the shortcuts in this folder to start the iView viewer with a bathymetry file. Shortcuts are provided to open two files:

- cocos_final_30apr_10m.sd
- cocos_final_7apr_250m.sd

Consequently, no comprehensive checks were made as to the accuracy or completeness of these externally supplied datasets. Therefore the data should not be completely depended on when making decisions of a commercial nature.

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Commonwealth Cocos GIS data licence

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2. Cocos (Keeling) Islands Shire
3. Geoscience Australia
4. WA Department of Industry and Resources
5. WA Department of Land Administration
6. WA Department for Planning and Infrastructure
7. Cocos Island Co-operative Society Ltd
8. Cocos Dive
9. WA Department of Education and Training
10. Cocos (Keeling) Islands Tourism Association

For a more comprehensive list of registered organisations, including contact details, click here to open the pdf document.

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Australian Government
Department of Regional Australia, Regional Development and Local Government

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Department of Regional Australia, Regional Development and Local Government's Territories of Australia: Cocos (Keeling) Islands

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Perth
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The collection of other data displayed in this Cocos CD-ROM was contracted out by Territories Office to various Commonwealth and State government agencies at various times during the last ten years via several independent consultancy agreements.

The Cocos manuals and CD ROMs should remain with your employer if you leave your present position to work for another organisation.

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Level 15, 37 St Georges Terrace
Perth
WA 6000 AUSTRALIA

Postal Address:

Attorney-General's Department
PO Box Z5048
Perth
WA 6831 AUSTRALIA

Ph: 08 9225 1400
Fax: 08 9225 1429

The GIS datasets were recast and assembled by the Mineral Resources and Advice Group of Geoscience Australia as part of a project assessing opportunities for further mining of the phosphate resources on Cocos Island in balance with nature conservation and related land use management and planning issues.

For further information, contact Keith Porritt regarding the data integration.

Chapter
6

Appendix 3: Ground Audit and Cadastre Tables

The following two spreadsheets list 40 fields of data from 'cocos_cadastre.xls' and 30 fields of data from 'cocos_lodged.xls' that are displayed in the attribute table. Records are sorted by the 'PIN' field. The page order for columns is 'down, then over'. The excel spreadsheet files can be found on the DVD.

Cadastre Fields: First Section		Lodged Fields: Second Section	
Locno_str	Date_modif	Locno_str	Mgr_name
Pin	Legal_deriv	Pin	Tenure
LotNumber	Area_indic	LotNumber	Stname
Houseno	Centroid_c	Diagram	Stnamefx
Address	Date_retir	Purpose	Ain
Diagram	Date_bound	Survey	Notype
eDescription	Pityp	Piparcel	Nofrom
Improvment	Lot_type	Plan	
Purpose	Reserve_us	Calc_area	
Addresstyp	Lga	Legal_area	
Tenure	Management	Usage_code	
Survey	Mgr_name	Centlat	
Docno	Gprpfx	Centlong	
Ct	Gprsfx	Date_create	
Piparcel	Region	Date_modif	
Zoning	Postcode	Lega_deriv	
Plan	Local	Area_indic	
Calc_area		Centroid_c	
Legal_area		Date_retir	
Usage_code		Date_bound	
Centlat		Pityp	
Centlong		Lot_type	
Date_creat		Reserve	

Table 2: Full listing of cadastre.shp and lodged.shp

LOCNO	PIN	LOT_NO	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0001	1115125	1	123	NELSON MANDELA WALK		0000134267 124 AIR FORCE ROAD COCOS (KEELING) 000001 23 AIR FORCE ROAD 36082 00050 000089 G	
0001	11444270	1	5	BUFFETT CL		Vegetation	
0002	11444271	2	9	BUFFETT CL			
0003	11444272	3	11	BUFFETT CL		Vegetation	
0004	11444273	4	13	BUFFETT CL		Vegetation	
0005	11444274	5	15	BUFFETT CL			
0006	11444275	6	17	BUFFETT CL			
0007	11444276	7	19	BUFFETT CL		Vegetation	
0008	11444277	8	21	BUFFETT CL			
0009	11444278	9	23	BUFFETT CL		Trust land, cleared for housing	
0010	11444280	10	25	BUFFETT CL		Cleared for housing	
0011	11444281	11	27	BUFFETT CL		Cleared for housing	
0012	11444282	12	29	BUFFETT CL			
0013	11444283	13	31	BUFFETT CL			
0014	11444284	14	33	BUFFETT CL			
0015	11444285	15	35	BUFFETT CL			
0016	11444286	16	37	BUFFETT CL			
0017	11444287	17	39	BUFFETT CL			
0018	11444288	18	41	BUFFETT CL			
0100	1115208	100				Trust land, coconut trees	
0100	1115221	100				Trust land, coconut trees	
0100	1115209	100				Trust land, coconut trees	
0100	1115227	100				Trust land, coconut trees	
0100	1115228	100				Trust land, coconut trees	
0100	1115211	100				Trust land, coconut trees	
0100	1115219	100				Trust land, coconut trees	
0100	1115231	100				Trust land, coconut trees	
0100	1115230	100				Trust land, coconut trees	
0100	1115226	100				Trust land, coconut trees	
0100	1115216	100				Trust land, coconut trees	
0100	11496255	100				Trust land, coconut trees	
0100	1115229	100				Trust land, coconut trees	
0100	1115206	100				Trust land, coconut trees	
0100	1115220	100				Trust land, coconut trees	
0100	1115214	100				Trust land, coconut trees	
0100	1115233	100				Trust land, coconut trees	
0100	1115217	100				Trust land, coconut trees	
0100	1115207	100				Trust land, coconut trees	
0100	1115215	100				Trust land, coconut trees	
0100	1115232	100				Trust land, coconut trees	
0100	1115224	100				Trust land, coconut trees	
0100	1115225	100				Trust land, coconut trees	
0101	1115591	101					
0101	1115180	101			House 1	House 1, William Keeling Street.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0101	1115180	101			House 1	House 1, William Keeling Street.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0102	1115592	102					
0102	1115590	102					
0102	1115181	102			House 2	House 2, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0102	1115181	102			House 2	House 2, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0103	1115182	103			House 3	House 3, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0103	1115182	103			House 3	House 3, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0104	1115673	104					
0104	1115675	104					
0104	1115670	104					
0104	1115666	104					
0104	1115659	104					
0104	1115661	104					
0104	1115655	104					
0104	1115616	104					
0104	1115613	104					
0104	1115606	104					
0104	1115599	104					
0104	1115678	104					
0104	1115672	104					
0104	1115668	104					
0104	1115667	104					
0104	1115664	104					
0104	1115658	104					
0104	1115653	104					
0104	1115618	104					
0104	1115621	104					
0104	1115620	104					
0104	1115633	104					
0104	1115642	104					
0104	1113734	104					
0104	1113736	104					
0104	1115608	104					
0104	1115611	104					
0104	1115676	104					
0104	1115682	104					
0104	1115686	104					
0104	1115665	104					
0104	1115645	104					

LOCNO	PIN	LOT_NO	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0104	1115629	104					
0104	1115634	104					
0104	1113733	104					
0104	1115594	104					
0104	1115597	104					
0104	1115681	104					
0104	1115689	104					
0104	1115680	104					
0104	1115674	104					
0104	1115662	104					
0104	1115654	104					
0104	1115596	104					
0104	1115600	104					
0104	1115601	104					
0104	1115691	104					
0104	1115688	104					
0104	1115685	104					
0104	1115651	104					
0104	1115615	104					
0104	1115619	104					
0104	1115647	104					
0104	1115643	104					
0104	1115639	104					
0104	1115638	104					
0104	1115636	104					
0104	1113735	104					
0104	1115595	104					
0104	1115607	104					
0104	1115693	104					
0104	1115203	104					
0104	1115679	104					
0104	1115690	104					
0104	1115687	104					
0104	1115677	104					
0104	1115671	104					
0104	1115669	104					
0104	1115663	104					
0104	1115650	104					
0104	1115632	104					
0104	1115630	104					
0104	1115641	104					
0104	1113737	104					
0104	1115593	104					
0104	1115612	104					
0104	1115204	104					
0104	1115205	104					
0104	1115660	104					
0104	1115656	104					
0104	1115624	104					
0104	1115626	104					
0104	1115617	104					
0104	1115649	104					
0104	1115644	104					
0104	1115631	104					
0104	1115635	104					
0104	1115640	104					
0104	1115637	104					
0104	1115602	104					
0104	1115598	104					
0104	1115605	104					
0104	1115683	104					
0104	1115684	104					
0104	1115692	104					
0104	1115657	104					
0104	1115652	104					
0104	1115625	104					
0104	1115623	104					
0104	1115627	104					
0104	1115622	104					
0104	1115648	104					
0104	1115646	104					
0104	1115614	104					
0104	1115628	104					
0104	1115610	104					
0104	1115603	104					
0104	1115604	104					
0104	1115609	104					
0104	1115183	104			House 4	House 4, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0104	1115183	104			House 4	House 4, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0105	1115589	105					
0105	1115191	105			House 5	House 5, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0105	1115191	105			House 5	House 5, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0106	1115192	106			House 6	House 6, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old

LOCNO	PIN	LOT_NO	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0106	1115192	106			House 6	House 6, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0107	1115193	107			House 7	House 7, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0107	1115193	107			House 7	House 7, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0108	1115178	108			House 8	House 8, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0108	1115178	108			House 8	House 8, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0109	1115177	109			House 9	House 9, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0109	1115177	109			House 9	House 9, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0110	1115127	110			House 10	House 10, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0110	1115127	110			House 10	House 10, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0111	1115131	111			House 11	House 11, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0111	1115131	111			House 11	House 11, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0112	1115130	112			House 12	House 12, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0112	1115130	112			House 12	House 12, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0113	1115129	113			House 13	House 13, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0113	1115129	113			House 13	House 13, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0114	1115128	114			House 14	House 14, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0114	1115128	114			House 14	House 14, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0115	1115116	115			House 15	House 15, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0115	1115116	115			House 15	House 15, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0116	1115115	116			House 16	House 16, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0116	1115115	116			House 16	House 16, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0117	1115114	117			House 17	House 17, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0117	1115114	117			House 17	House 17, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0118	1115113	118			House 18	House 18, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0118	1115113	118			House 18	House 18, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0119	1115112	119			House 19	House 19, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0119	1115112	119			House 19	House 19, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0120	1115111	120			House 20	House 20, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0120	1115111	120			House 20	House 20, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0121	1115121	121	121	NELSON MANDELA WALK	0	House 21, Airforce Road.	A 25 year old, 2 bedroom, fibre cement clad and corrugated asbestos roof home with timber flooring, in fair condition
0121	1115121	121	121	NELSON MANDELA WALK	0	House 21, Airforce Road.	A 25 year old, 2 bedroom, fibre cement clad and corrugated asbestos roof home with timber flooring, in fair condition
0122	1115122	122	122	NELSON MANDELA WALK	0	House 22, Airforce Road.	A 25 year old, 2 bedroom, fibre cement clad and corrugated asbestos roof home with timber flooring, in fair condition
0122	1115122	122	122	NELSON MANDELA WALK	0	House 22, Airforce Road.	A 25 year old, 2 bedroom, fibre cement clad and corrugated asbestos roof home with timber flooring, in fair condition
0123	1115125	123	123	NELSON MANDELA WALK		0000134267 124 AIR FORCE ROAD COCOS (KEELING) 000001 23 AIR FORCE ROAD 36082 00050 000089 G	
0123	1115125	123	123	NELSON MANDELA WALK		0000134267 124 AIR FORCE ROAD COCOS (KEELING) 000001 23 AIR FORCE ROAD 36082 00050 000089 G	
0124	1115126	124	124	NELSON MANDELA WALK	House 24	House 24, Airforce Road.	A single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling approximately 10 years old.
0124	1115126	124	124	NELSON MANDELA WALK	House 24	House 24, Airforce Road.	A single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling approximately 10 years old.
0125	1115190	125			0	House 25, Caretaker's Unit. Qantas Close.	A 25 year old, one bedroom, single level brick and corrugated asbestos roof dwelling with timber flooring, in fair condition.
0125	1115190	125			0	House 25, Caretaker's Unit. Qantas Close.	A 25 year old, one bedroom, single level brick and corrugated asbestos roof dwelling with timber flooring, in fair condition.
0126	1115184	126			0	House 26, Administrator's Residence. Orion Road.	A 25 year old, 3 bedroom, asbestos clad and corrugated asbestos roof dwelling, in fair condition
0126	1115184	126			0	House 26, Administrator's Residence. Orion Road.	A 25 year old, 3 bedroom, asbestos clad and corrugated asbestos roof dwelling, in fair condition
0127	1115185	127	127	AIR FORCE RD	House 27	House 27, Airforce Road.	A 25 year old, 2 bedroom, fibre cement clad and iron roof home having timber floors in fair condition.
0127	1115185	127	127	AIR FORCE RD	House 27	House 27, Airforce Road.	A 25 year old, 2 bedroom, fibre cement clad and iron roof home having timber floors in fair condition.
0128	1115109	128	128	NELSON MANDELA WALK		Shell House	
0128	1115109	128	128	NELSON MANDELA WALK		Shell House	
0129	1115186	129	129	AIR FORCE RD	House 29	House 29, Airforce Road.	A 25 year old, 3 bedroom, single level fibre cement clad and iron roof home in fair condition.
0129	1115186	129	129	AIR FORCE RD	House 29	House 29, Airforce Road.	A 25 year old, 3 bedroom, single level fibre cement clad and iron roof home in fair condition.
0130	1115173	130				Vacant Land, Air Force Road.	Vacant residential lot.
0130	1115173	130				Vacant Land, Air Force Road.	Vacant residential lot.
0131	1115194	131			House 31	House 31, Orion Road.	A 25 year old, 3 bedroom, single level fibre cement clad and iron roof home in fair condition.
0131	1115194	131			House 31	House 31, Orion Road.	A 25 year old, 3 bedroom, single level fibre cement clad and iron roof home in fair condition.
0132	1115172	132			House 32	House 32, Airforce Road.	A 25 year old, 3 bedroom, single level fibre cement clad and asbestos roof home in fair condition.
0132	1115172	132			House 32	House 32, Airforce Road.	A 25 year old, 3 bedroom, single level fibre cement clad and asbestos roof home in fair condition.
0133	1115195	133			House 33	House 33, Airforce Road.	A 20 year old, 2 bedroom, weather-board and corrugated asbestos roof home having timber floors in fair condition.
0133	1115195	133			House 33	House 33, Airforce Road.	A 20 year old, 2 bedroom, weather-board and corrugated asbestos roof home having timber floors in fair condition.
0134	1115187	134	134	AIR FORCE RD	House 34	House 34, Airforce Road.	A 20 year old, 2 bedroom, weather-board and corrugated asbestos roof home having timber floors in fair condition
0134	1115187	134	134	AIR FORCE RD	House 34	House 34, Airforce Road.	A 20 year old, 2 bedroom, weather-board and corrugated asbestos roof home having timber floors in fair condition
0135	1115108	135	135	NELSON MANDELA WALK		Police House	
0135	1115108	135	135	NELSON MANDELA WALK		Police House	
0136	1115176	136				House 36, Mecnelec Place.	A single level three bedroom fibre cement clad and Colorbond roof dwelling approximately 10 years old.
0136	1115176	136				House 36, Mecnelec Place.	A single level three bedroom fibre cement clad and Colorbond roof dwelling approximately 10 years old.
0137	1115124	137	137	NELSON MANDELA WALK	0	House 37, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0137	1115124	137	137	NELSON MANDELA WALK	0	House 37, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0138	1115123	138	138	NELSON MANDELA WALK	0	House 38, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0138	1115123	138	138	NELSON MANDELA WALK	0	House 38, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0139	1115120	139	139	NELSON MANDELA WALK	0	House 39, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0139	1115120	139	139	NELSON MANDELA WALK	0	House 39, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0140	1115119	140	140	NELSON MANDELA WALK	0	House 40, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0140	1115119	140	140	NELSON MANDELA WALK	0	House 40, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0141	1115106	141				Single dwelling	
0141	1115106	141				Single dwelling	
0142	1115152	142			0	House 42, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0142	1115152	142			0	House 42, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0143	1115158	143			0	House 43, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0143	1115158	143			0	House 43, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0144	1115151	144			0	House 44, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0144	1115151	144			0	House 44, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0145	1115159	145			0	House 45, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0145	1115159	145			0	House 45, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0146	1115150	146			0	House 46, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0146	1115150	146			0	House 46, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0147	1115161	147			0	House 47, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0147	1115161	147			0	House 47, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.

LOCNO	PIN	LOT_NO	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0148	1115135	148			0	House 48, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0148	1115135	148			0	House 48, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0149	1115162	149			0	House 49, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0149	1115162	149			0	House 49, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0150	1115134	150			0	House 50, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0150	1115134	150			0	House 50, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0151	1115163	151			0	House 51, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0151	1115163	151			0	House 51, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0152	1115133	152			0	House 52, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0152	1115133	152			0	House 52, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0153	1115164	153			0	House 53, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0153	1115164	153			0	House 53, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0154	1115132	154			0	House 54, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0154	1115132	154			0	House 54, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0155	1115165	155			House 55	House 55, Beacon Heights Road.	A single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0155	1115165	155			House 55	House 55, Beacon Heights Road.	A single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0156	1115153	156			0	House 56, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0156	1115153	156			0	House 56, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0157	1115166	157			0	House 57, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0157	1115166	157			0	House 57, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0158	1115154	158			0	House 58, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0158	1115154	158			0	House 58, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0159	1115170	159			0	House 59, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0159	1115170	159			0	House 59, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0160	1115107	160	160	NELSON MANDELA WALK	0	Police Station, Air Force Rd.	Police Station, new building, timber frame, fibre cement clad walls and Colorbond metal deck roof over concrete floor.
0160	1115107	160	160	NELSON MANDELA WALK	0	Police Station, Air Force Rd.	Police Station, new building, timber frame, fibre cement clad walls and Colorbond metal deck roof over concrete floor.
0161	1115169	161			0	House 61, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0161	1115169	161			0	House 61, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0162	1115188	162	162	AIR FORCE RD		Vacant Land, Air Force Road.	Vacant residential lot.
0162	1115188	162	162	AIR FORCE RD		Vacant Land, Air Force Road.	Vacant residential lot.
0163	1115168	163			0	House 63, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0163	1115168	163			0	House 63, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0164	1115189	164	164	AIR FORCE RD		Vacant Land, Air Force Road.	Vacant residential lot.
0164	1115189	164	164	AIR FORCE RD		Vacant Land, Air Force Road.	Vacant residential lot.
0165	1115171	165				Vacant Land, Air Force Road.	Vacant residential lot.
0165	1115171	165				Vacant Land, Air Force Road.	Vacant residential lot.
0166	1115174	166				Protection of survey mark	
0166	1115174	166				Protection of survey mark	
0167	1115196	167					
0167	1115196	167					
0168	1115175	168				Transformer site	
0168	1115175	168				Transformer site	
0169	1115117	169	169	NELSON MANDELA WALK	Airforce Road	School, Airforce Road	School complex. Timber and metal frame structure comprising asbestos clad walls and metal clad roof, 20 yrs old.
0169	1115117	169	169	NELSON MANDELA WALK	Airforce Road	School, Airforce Road	School complex. Timber and metal frame structure comprising asbestos clad walls and metal clad roof, 20 yrs old.
0170	1115110	170	170	NELSON MANDELA WALK		Recreation/Tennis Courts	
0170	1115110	170	170	NELSON MANDELA WALK		Recreation/Tennis Courts	
0173	1115103	173				VACANT LAND, Clunies-Ross Ave	Vacant commercial lot.
0173	1115103	173				VACANT LAND, Clunies-Ross Ave	Vacant commercial lot.
0174	1115102	174			0	Supermarket, Clunies-Ross Ave	Supermarket premises, of steel frame, metal deck clad walls and roof over concrete floor, approximately 10 years old.
0174	1115102	174			0	Supermarket, Clunies-Ross Ave	Supermarket premises, of steel frame, metal deck clad walls and roof over concrete floor, approximately 10 years old.
0175	1115100	175	175	NELSON MANDELA WALK		Golf Club, Airforce Road.	Club rooms. A timber framed/asbestos clad and corrugated asbestos roof building approximately 30 years old.
0175	1115100	175	175	NELSON MANDELA WALK		Golf Club, Airforce Road.	Club rooms. A timber framed/asbestos clad and corrugated asbestos roof building approximately 30 years old.
0176	1115101	176	176	NELSON MANDELA WALK		Transformer Site LOC 176	
0176	1115101	176	176	NELSON MANDELA WALK		Transformer Site LOC 176	
0178	1115095	178			Sydney Highway.	Cocus Club/Cyclone Shelter, Sydney Highway.	Club/Cyclone shelter aprox 15 yrs old. Brick walls and asbestos roof, plus heavy duty storm shutters
0178	1115095	178			Sydney Highway.	Cocus Club/Cyclone Shelter, Sydney Highway.	Club/Cyclone shelter aprox 15 yrs old. Brick walls and asbestos roof, plus heavy duty storm shutters
0179	1115089	179				Sports Oval	
0179	1115089	179				Sports Oval	
0180	1115090	180			Sydney Highway.	The Lodge, Sydney Highway.	Asbestos/asbestos tourist amenities complex comprising 8 buildings, in fair condition aprox 20 years old
0180	1115090	180			Sydney Highway.	The Lodge, Sydney Highway.	Asbestos/asbestos tourist amenities complex comprising 8 buildings, in fair condition aprox 20 years old
0181	1115094	181			Qantas building A	Qantas building A, Sydney Highway.	Office building comprising 6 suites. Concrete stumps, timber framed/asbestos clad walls and roof, 30 years old.
0181	1115094	181			Qantas building A	Qantas building A, Sydney Highway.	Office building comprising 6 suites. Concrete stumps, timber framed/asbestos clad walls and roof, 30 years old.
0182	1115098	182			William Keeling Cres.	Hospital and Nurses' Quaters, William Keeling Cres.	Hospital and Nurses Quaters, both approx. 20 yrs old of timber frame with asbestos clad walls and metal deck roof.
0182	1115098	182			William Keeling Cres.	Hospital and Nurses' Quaters, William Keeling Cres.	Hospital and Nurses Quaters, both approx. 20 yrs old of timber frame with asbestos clad walls and metal deck roof.
0184	1115082	184			Asset Services Complex	Asset Services Complex, Sydney Highway.	Offices/Workshops/Storage, generally of steel frame with aluminium sheeting to walls and roof, rangeing between 10-15 years.
0184	1115082	184			Asset Services Complex	Asset Services Complex, Sydney Highway.	Offices/Workshops/Storage, generally of steel frame with aluminium sheeting to walls and roof, rangeing between 10-15 years.
0187	1115088	187			Cnr Emden Walk and Alexander Street	Mosque, Cnr Emden Walk and Alexander Street	Former residence with weather-board and asbestos walls and asbestos roof, approximately 50 years old.
0187	1115088	187			Cnr Emden Walk and Alexander Street	Mosque, Cnr Emden Walk and Alexander Street	Former residence with weather-board and asbestos walls and asbestos roof, approximately 50 years old.
0188	1115087	188			Shell Workshop	Shell Workshop, Emden Walk	Workshop of steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old.
0188	1115087	188			Shell Workshop	Shell Workshop, Emden Walk	Workshop of steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old.
0189	1115086	189			Shell Office	Shell Office and Workshop, Emden Walk.	Office/Workshop, steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old
0189	1115086	189			Shell Office	Shell Office and Workshop, Emden Walk.	Office/Workshop, steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old
0190	1115085	190				Sydney Highway & Emden Walk.	Vacant industrial lot.
0190	1115085	190				Sydney Highway & Emden Walk.	Vacant industrial lot.
0191	1115118	191	191	NELSON MANDELA WALK	0	House 91, Airforce Road.	A 25 year old, single level, 3 bedroom, fibre cement clad and corrugated asbestos roof dwelling in fair condition.
0191	1115118	191	191	NELSON MANDELA WALK	0	House 91, Airforce Road.	A 25 year old, single level, 3 bedroom, fibre cement clad and corrugated asbestos roof dwelling in fair condition.
0192	1115179	192	192	NELSON MANDELA WALK	0	House 92, Airforce Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0192	1115179	192	192	NELSON MANDELA WALK	0	House 92, Airforce Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0197	1115160	197				PAW	
0197	1115160	197				PAW	
0198	1115167	198				PAW	
0198	1115167	198				PAW	
0199	1115091	199			PAW		

LOCNO	PIN	LOT_NO	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0199	1115091	199			PAW		
0202	1115062	202			Civil Aviation Authority (CAA)	TRANSMITTER SITE, Civil Aviation Authority (CAA)	Transmitter building, power house and emergency power house.
0202	1115062	202			Civil Aviation Authority (CAA)	TRANSMITTER SITE, Civil Aviation Authority (CAA)	Transmitter building, power house and emergency power house.
0206	1115063	206				Transmitter Site	
0206	1115063	206				Transmitter Site	
0207	1115061	207				Transmitter Site	
0207	1115061	207				Transmitter Site	
0209	1115059	209			Airport	Bureau of Meteorology Weather Station, Airport, Alexander Street	A fibre cement clad and iron roofed office approx 20 years old. with detatched store/balloon filling shed.
0209	1115059	209			Airport	Bureau of Meteorology Weather Station, Airport, Alexander Street	A fibre cement clad and iron roofed office approx 20 years old. with detatched store/balloon filling shed.
0221	1115099	221				Memorial site	
0221	1115099	221				Memorial site	
0222	1115197	222				Memorial Site	
0222	1115197	222				Memorial Site	
0313	1115148	313				Transformer	
0313	1115148	313				Transformer	
0315	1115149	315				Vacant Land, Buffet Close.	Vacant residential lot.
0315	1115149	315				Vacant Land, Buffet Close.	Vacant residential lot.
0316	1115155	316				Grassed area, Parkland & recreation	
0316	1115155	316				Grassed area, Parkland & recreation	
0317	1115157	317				Telecommunications site	
0317	1115157	317				Telecommunications site	
0319	1189457	319				Telecommunications site	
0319	1189457	319				Telecommunications site	
0323	1194332	323				Vegetation	
0323	1194332	323				Vegetation	
0326	1215186	326				Transformer	
0326	1215186	326				Transformer	
0327	1215187	327				Old quarantine station	
0327	1215187	327				Old quarantine station	
0328	1215182	328				Old antenna site, inundation area	
0328	1215182	328				Old antenna site, inundation area	
0329	1290328	329				Foreshore/Marsh/Old Antennae Site	
0329	1290328	329				Foreshore/Marsh/Old Antennae Site	
0331	1303141	331				Clam Extraction	
0331	1303141	331				Clam Extraction	
0332	1303140	332				Clam Extraction	
0332	1303140	332				Clam Extraction	
0333	11256183	333				Sub station	Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete floor, 1 yr old.
0333	11256183	333				Sub station	Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete floor, 1 yr old.
0334	11256184	334				Jetty, cargo offloading area	
0334	11256184	334				Jetty, cargo offloading area	
0335	11299225	335				Passenger shelter, public toilets	Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete floor, 1 yr old.
0336	11218848	336			Dory's Cafe (previously Scout Hall)		Hall with concrete floor, timber framed asbestos clad walls and roof, approximately 40 years old and in poor condition.
0336	11218848	336			Dory's Cafe (previously Scout Hall)		Hall with concrete floor, timber framed asbestos clad walls and roof, approximately 40 years old and in poor condition.
0337	11218847	337			William Keeling Cres		Day/Child Care Centre approximately 30 years old comprising concrete floor, asbestos clad walls and metal roof cover.
0337	11218847	337			William Keeling Cres		Day/Child Care Centre approximately 30 years old comprising concrete floor, asbestos clad walls and metal roof cover.
0338	1365196	338				Foreshore reserve	
0338	1365196	338				Foreshore reserve	
0339	1365195	339				Oceania House gardens	
0339	1365195	339				Oceania House gardens	
0340	11299184	340				Vacant land	
0341	11299159	341				Airport	
0342	11299160	342				Foreshore/Coral Extraction	
0343	11299155	343				Waste Water Treatment Plant	
0344	11299154	344				Power station	
0345	11299151	345				RAAF demountables, Barrack store	
0346	11299152	346				Water supply	
0347	11299153	347				Airport Apron access	
0348	11299157	348				Museum/Tourist Bureau	Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos roof.
0349	11299158	349				Administration building	Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos roof.
0350	11299156	350				Fire station	
0351	11299224	351				Shell fuel tanks	STORAGE/WORKSHOP, FUEL TANKS AND PUMPING FACILITIES
0600	11607568	600					
1000	1365197	1000	39	JALAN PANTAI			
1001	1365194	1001	31	JALAN PANTAI			
1106	1113721	1106					
1107	11016564	1107					
1108	1113731	1108					
1109	1113730	1109					
3003	11444290	3003				Coconut trees, old sand mine area.	
3004	11444293	3004	14	BUFFETT CL		Grassed area	
3005	11444289	3005	18	BUFFETT CL		Grassed area	
3006	11444279	3006				Public access way	
0000	11848299	0					
0000	1115059	0			Airport	Bureau of Meteorology Weather Station, Airport, Alexander Street	A fibre cement clad and iron roofed office approx 20 years old. with detatched store/balloon filling shed.
0000	1365195	0				Oceania House gardens	
0000	11299160	0				Foreshore/Coral Extraction	
0000	11256184	0				Jetty, cargo offloading area	
0000	11299159	0				Airport	
0000	11299225	0				Passenger shelter, public toilets	Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete floor, 1 yr old.
0000	1115061	0				Transmitter Site	
0000	1215182	0				Old antenna site, inundation area	
0000	11826091	0					

LOCNO	PIN	LOT_NO	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0000	11826090	0					
0000	11299154	0				Power station	
0000	11299155	0				Waste Water Treatment Plant	
0000	11299158	0				Administration building	Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos roof.
0000	11299157	0				Museum/Tourist Bureau	Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos roof.
0000	11299156	0				Fire station	
0000	1115167	0				PAW	
0000	11299151	0					
0000	1115196	0					
0000	1215186	0				Transformer	
0000	1115062	0			Civil Aviation Authority (CAA)	TRANSMITTER SITE, Civil Aviation Authority (CAA)	Transmitter building, power house and emergency power house.
0000	1290328	0				Foreshore/Marsh/Old Antennae Site	
0000	1215187	0				Old quarantine	
0000	1115063	0				Transmitter Site	
0000	11218848	0			Dory's Cafe (previously Scout Hall)		Hall with concrete floor, timber framed asbestos clad walls and roof, approximately 40 years old and in poor condition.
0000	11826040	0					
0000	11016562	0					
0000	1215181	0					
0000	11826038	0					
0000	11826046	0					
0000	11825974	0					
0000	11825976	0					
0000	11826041	0					
0000	11826045	0					
0000	11826042	0					
0000	11826044	0					
0000	1291302	0					
0000	11826094	0					
0000	11826095	0					
0000	11826093	0					
0000	11826037	0					
0000	11826047	0					
0000	11825975	0					
0000	11826092	0					
0000	11016563	0					
0000	1215184	0					
0000	11444291	0					
0000	11826039	0					
0000	11826152	0					
0000	11826043	0					
0000	1115150	0			0	House 46, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115151	0			0	House 44, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115170	0			0	House 59, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115089	0				Sports Oval	
0000	1115098	0			William Keeling Cres.	Hospital and Nurses' Quaters, William Keeling Cres.	Hospital and Nurses Quaters, both approx. 20 yrs old of timber frame with asbestos clad walls and metal deck roof.
0000	1115178	0			House 8	House 8, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1115183	0			House 4	House 4, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1365196	0				Foreshore reserve	
0000	1115163	0			0	House 51, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115148	0				Transformer	
0000	11299153	0				Airport Apron access	
0000	1115106	0				Single dwelling	
0000	1115131	0			House 11	House 11, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1115184	0			0	House 26, Administrator's Residence. Orion Road.	A 25 year old, 3 bedroom, asbestos clad and corrugated asbestos roof dwelling, in fair condition
0000	11299184	0				Vacant land	
0000	11299152	0				Water supply	
0000	1115095	0			Sydney Highway.	Cocus Club/Cyclone Shelter, Sydney Highway.	Club/Cyclone shelter aprox 15 yrs old. Brick walls and asbestos roof, plus heavy duty storm shutters
0000	1189457	0				Telecommunications site	
0000	11218847	0			William Keeling Cres		Day/Child Care Centre approximately 30 years old comprising concrete floor, asbestos clad walls and metal roof cover.
0000	1115100	0	175	NELSON MANDELA WALK		Golf Club, Airforce Road.	Club rooms. A timber framed/asbestos clad and corrugated asbestos roof building approximately 30 years old.
0000	1115123	0	138	NELSON MANDELA WALK	0	House 38, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115181	0			House 2	House 2, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1115091	0			PAW		
0000	1115112	0			House 19	House 19, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1115190	0			0	House 25, Caretaker's Unit. Qantas Close.	A 25 year old, one bedroom, single level brick and corrugated asbestos roof dwelling with timber flooring, in fair condition.
0000	11256183	0				Sub station	Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete floor, 1 yr old.
0000	11444290	0					
0000	1115086	0			Shell Office	Shell Office and Workshop, Emden Walk.	Office/Workshop, steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old
0000	1115087	0			Shell Workshop	Shell Workshop, Emden Walk	Workshop of steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old.
0000	1115110	0	170	NELSON MANDELA WALK		Recreation/Tennis Courts	
0000	1115107	0	160	NELSON MANDELA WALK	0	Police Station, Air Force Rd.	Police Station, new building, timber frame, fibre cement clad walls and Colorbond metal deck roof over concrete floor.
0000	1115108	0	135	NELSON MANDELA WALK		Police House	
0000	1115160	0				PAW	
0000	1115153	0			0	House 56, Beacon Heights Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115088	0			Cnr Emden Walk and Alexander Street	Mosque, Cnr Emden Walk and Alexander Street	Former residence with weather-board and asbestos walls and asbestos roof, approximately 50 years old.
0000	1115099	0				Memorial site	
0000	1115117	0	169	NELSON MANDELA WALK	Airforce Road	School, Airforce Road	School complex. Timber and metal frame structure comprising asbestos clad walls and metal clad roof, 20 yrs old.
0000	1115120	0	139	NELSON MANDELA WALK	0	House 39, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115172	0			House 32	House 32, Airforce Road.	A 25 year old, 3 bedroom, single level fibre cement clad and asbestos roof home in fair condition.
0000	11299224	0				Shell fuel tanks	STORAGE/WORKSHOP, FUEL TANKS AND PUMPING FACILITIES
0000	1115164	0			0	House 53, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115134	0			0	House 50, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115161	0			0	House 47, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.

LOCNO	PIN	LOT_NO	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0000	1115158	0			0	House 43, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115157	0				Telecommunications site	
0000	1115115	0			House 16	House 16, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1115109	0	128	NELSON MANDELA WALK		Shell House	
0000	1115128	0			House 14	House 14, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1115165	0			House 55	House 55, Beacon Heights Road.	A single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115155	0				Grassed area, Parkland & recreation	
0000	1115197	0				Memorial Site	
0000	1115082	0			Asset Services Complex	Asset Services Complex, Sydney Highway.	Offices/Workshops/Storage, generally of steel frame with aluminium sheeting to walls and roof, rangeing between 10-15 years.
0000	1115101	0	176	NELSON MANDELA WALK		Transformer Site LOC 176	
0000	1115119	0	140	NELSON MANDELA WALK	0	House 40, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0000	1115175	0				Transformer site	
0000	1115182	0			House 3	House 3, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0000	1115185	0	127	AIR FORCE RD	House 27	House 27, Airforce Road.	A 25 year old, 2 bedroom, fibre cement clad and iron roof home having timber floors in fair condition.
0000	1115194	0			House 31	House 31, Orion Road.	A 25 year old, 3 bedroom, single level fibre cement clad and iron roof home in fair condition.
0000	1115174	0				Protection of survey mark	
0000	1303140	0				Clam Extraction	
0000	1303141	0				Clam Extraction	

LOCNO	PIN	PURPOSE	ADDRESSTYP	TENURE	SURVEY		DOCNO	CT	PIPARCEL		ZONING	PLAN	CALC_AREA	LEGAL_AREA	USAGE_CODE	CENTLAT
0001	1115125		L		S036082		H291165	0214200944	S036082				1065.08600000000	1065.00000000000	19	-12.19175492700
0001	11444270		H		P044688	1	J585935	0260200977	P044688	1			674.81300000000	675.00000000000	1	-12.18505984300
0002	11444271		H		P044688	2	J693981	0260200978	P044688	2			673.67600000000	674.00000000000	1	-12.18495340790
0003	11444272		H		P044688	3	J585935	0260200979	P044688	3			674.16300000000	674.00000000000	1	-12.18486251000
0004	11444273		H		P044688	4	J585935	0260200980	P044688	4			674.65900000000	675.00000000000	1	-12.18477161300
0005	11444274		H		P044688	5	K656454	0260200981	P044688	5			675.16300000000	675.00000000000	1	-12.18468071640
0006	11444275		H		P044688	6	K018432	0260200982	P044688	6			675.65300000000	676.00000000000	1	-12.18458982000
0007	11444276		H		P044688	7	J585935	0260200983	P044688	7			676.18000000000	676.00000000000	1	-12.18449892520
0008	11444277		H		P044688	8	J693979	0260200984	P044688	8			649.94800000000	650.00000000000	1	-12.18441556710
0009	11444278		H		P044688	9	K477991	0260200985	P044688	9			980.86900000000	981.00000000000	1	-12.18430996290
0010	11444280		H		P044688	10	J585935	0260200986	P044688	10			871.07000000000	871.00000000000	1	-12.18401059050
0011	11444281		H		P044688	11	J585935	0260200987	P044688	11			932.77400000000	933.00000000000	1	-12.18388302650
0012	11444282		H		P044688	12	J793762	0260200988	P044688	12			649.94400000000	650.00000000000	1	-12.18402511170
0013	11444283		H		P044688	13	J793760	0260200989	P044688	13			649.99100000000	650.00000000000	1	-12.18412012810
0014	11444284		H		P044688	14	J585935	0260200990	P044688	14			649.98600000000	650.00000000000	1	-12.18420751720
0015	11444285		H		P044688	15	J992725	0260200991	P044688	15			649.98100000000	650.00000000000	1	-12.18429490620
0016	11444286		H		P044688	16	L810420	0260200992	P044688	16			649.95700000000	650.00000000000	1	-12.18438229520
0017	11444287		H		P044688	17	J585935	0260200993	P044688	17			649.95200000000	650.00000000000	1	-12.18446968440
0018	11444288		H		P044688	18	J585935	0260200994	P044688	18			650.07600000000	650.00000000000	1	-12.18455547690
0100	1115208				P018500	100	G142628	0210300109	P018500	100			106.01900000000	106.01900000000	1	-12.17630645400
0100	1115221				P018500	100	G142628	0210300109	P018500	100			334051.40399999900	334051.40000000000	1	-12.13681754300
0100	1115209				P018500	100	G142628	0210300109	P018500	100			14242.72700000000	14242.74300000000	1	-12.19959765200
0100	1115227				P018500	100	G142628	0210300109	P018500	100			289.01900000000	289.02100000000	1	-12.17562062100
0100	1115228				P018500	100	G142628	0210300109	P018500	100			1596.56300000000	1596.56200000000	1	-12.17616662600
0100	1115211				P018500	100	G142628	0210300109	P018500	100			548447.11199999900	548447.11199999900	1	-12.20043650210
0100	1115219				P018500	100	G142628	0210300109	P018500	100			2224830.05500000000	2224828.93000000000	1	-12.16299265800
0100	1115231				P018500	100	G142628	0210300109	P018500	100			560.58800000000	560.58800000000	1	-12.16724254800
0100	1115230				P018500	100	G142628	0210300109	P018500	100			3975.75300000000	3975.75500000000	1	-12.17164575800
0100	1115226				P018500	100	G142628	0210300109	P018500	100			1380.28500000000	1380.28500000000	1	-12.17488433100
0100	1115216				P018500	100	G142628	0210300109	P018500	100			118040.17800000000	118040.27099999900	1	-12.18227674700
0100	11496255								P018500	100			292834.43199999900	292834.43199999900	1	-12.20235852460
0100	1115229				P018500	100	G142628	0210300109	P018500	100			254.88200000000	254.88200000000	1	-12.17028649600
0100	1115206				P018500	100	G142628	0210300109	P018500	100			60421.42100000000	60421.10200000000	1	-12.19502581500
0100	1115220				P018500	100	G142628	0210300109	P018500	100			218632.11600000000	218632.11600000000	1	-12.15339628600
0100	1115214				P018500	100	G142628	0210300109	P018500	100			13994.98100000000	13994.98100000000	1	-12.19834080400
0100	1115233				P018500	100	G142628	0210300109	P018500	100			10578.91600000000	10578.93000000000	1	-12.17417305700
0100	1115217				P018500	100	G142628	0210300109	P018500	100			406.91900000000	406.91900000000	1	-12.17913177400
0100	1115207				P018500	100	G142628	0210300109	P018500	100			3617.22200000000	3617.22300000000	1	-12.17553913200
0100	1115215				P018500	100	G142628	0210300109	P018500	100			83828.11600000000	83828.11600000000	1	-12.19691904600
0100	1115232				P018500	100	G142628	0210300109	P018500	100			9343.94200000000	9343.93600000000	1	-12.17028875600
0100	1115224				P018500	100	G142628	0210300109	P018500	100			313.63100000000	313.63100000000	1	-12.17359129400
0100	1115225				P018500	100	G142628	0210300109	P018500	100			328.60800000000	328.60800000000	1	-12.17368616700
0101	1115591			Plan	P018500	101	G142628	0210300110	P018500	101	Parks and Recreation; Foreshore Protection and Nature Conservation		1046972.04600000000	1046972.04600000000	1	-12.07684556700
0101	1115180			Location	P218313	101	I302759	0222300621	COCOSL	00101		0	1453.90800000000	1454.00000000000	2	-12.19284736800
0101	1115180			Location	P218313	101	I302759	0222300621	P218313	101		0	1453.90800000000	1454.00000000000	2	-12.19284736800
0102	1115592			Plan	P018500	102	G142628	0210300111	P018500	102	Parks and Recreation; Foreshore Protection and Nature Conservation		3975.51400000000	3975.51700000000	1	-12.09564637500
0102	1115590			Plan	P018500	102	G142628	0210300111	P018500	102	Parks and Recreation; Foreshore Protection and Nature Conservation		319638.66399999900	319638.26299999900	1	-12.08929395100
0102	1115181	GOVT REQUIREMENTS		Plan	P218313	102	I584705	LR0310200234	COCOSL	00102		0	1265.37900000000	1266.00000000000	2	-12.19308748500
0102	1115181	GOVT REQUIREMENTS		Plan	P218313	102	I584705	LR0310200234	P218313	102		0	1265.37900000000	1266.00000000000	2	-12.19308748500
0103	1115182			Crown Rese	P218313	103	I584705	LR0310200235	COCOSL	00103		0	802.30600000000	802.00000000000	2	-12.19332644700
0103	1115182			Crown Rese	P218313	103	I584705	LR0310200235	P218313	103		0	802.30600000000	802.00000000000	2	-12.19332644700
0104	1115673			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	357.82200000000	357.82200000000	1	-12.19941761300
0104	1115675			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	495.09900000000	495.09900000000	1	-12.19848501900
0104	1115670			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1079.02700000000	1079.02800000000	1	-12.19970748600
0104	1115666			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	198.12900000000	198.12900000000	1	-12.19889425200
0104	1115659			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2771.22500000000	2771.22700000000	1	-12.19527821500
0104	1115661			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	5997.03100000000	5997.03500000000	1	-12.19682057900
0104	1115655			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2593.05600000000	2593.05800000000	1	-12.19690216300
0104	1115616			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1352.84700000000	1352.84800000000	1	-12.16187532700
0104	1115613			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1156.73400000000	1156.19200000000	1	-12.15869709100
0104	1115606			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	500.82200000000	500.82200000000	1	-12.14811852200
0104	1115599			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	114.79500000000	114.79400000000	1	-12.13993317000
0104	1115678			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1154.11300000000	1154.11400000000	1	-12.19787718900
0104	1115672			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	261.57500000000	261.57500000000	1	-12.19858469600
0104	1115668			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	521.11900000000	521.12000000000	1	-12.20193425000
0104	1115667			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	731.71000000000	731.71100000000	1	-12.19938988800
0104	1115664			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	432.29800000000	432.29800000000	1	-12.19851618500
0104	1115658			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	351.38000000000	351.38100000000	1	-12.19462765200
0104	1115653			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	336.75500000000	336.75500000000	1	-12.19897473700
0104	1115618			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2498.24300000000	2498.24500000000	1	-12.16294011500
0104	1115621			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	380.03700000000	380.03800000000	1	-12.16402941300
0104	1115620			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	866.39900000000	866.40000000000	1	-12.16359507000
0104	1115633			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	286.09500000000	286.09500000000	1	-12.16934340400
0104	1115642			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	5517.34200000000	5517.34600000000	1	-12.18294378100
0104	1113734			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	59931.05400000000	59902.18200000000	1	-12.12754721600
0104	1113736			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	11261.90900000000	11261.91800000000	1	-12.12961485300
0104	1115608			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	113.67900000000	113.67900000000	1	-12.15370920300
0104	1115611			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1886.80900000000	1886.81000000000	1	-12.15409373400
0104	1115676			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	389.41100000000	389.41100000000	1	-12.19829915200
0104	1115682			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	221.14600000000	221.14700000000	1	-12.19627931200
0104	1115686			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	250.52900000000	250.52900000000	1	-12.19649533900
0104	1115665			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	87.05400000000	87.05400000000	1	-12.19877082800
0104	1115645			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1996.74500000000	1996.74700000000	1	-12.18499920500

LOCNO	PIN	PURPOSE	ADDRESSTYP	TENURE	SURVEY		DOCNO	CT	PIPARCEL		ZONING	PLAN	CALC_AREA	LEGAL_AREA	USAGE_CODE	CENTLAT
0104	1115629			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	308.94200000000	308.94200000000	1	-12.16570900300
0104	1115634			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	248.96700000000	248.96700000000	1	-12.17232707100
0104	1113733			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	324.95900000000	324.95900000000	1	-12.12495674700
0104	1115594			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	104.59800000000	104.59700000000	1	-12.13630049600
0104	1115597			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	129.79400000000	129.79400000000	1	-12.13730385400
0104	1115681			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	646.11000000000	646.11100000000	1	-12.19636046200
0104	1115689			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	590.21300000000	590.21300000000	1	-12.19558634500
0104	1115680			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	670.98000000000	670.98100000000	1	-12.19612806000
0104	1115674			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	340.08800000000	340.08900000000	1	-12.19816810700
0104	1115662			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	577.20700000000	577.20700000000	1	-12.19576800700
0104	1115654			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2393.17900000000	2393.18100000000	1	-12.19744837900
0104	1115596			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	151.05600000000	151.05600000000	1	-12.13740153900
0104	1115600			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	560.13600000000	560.13600000000	1	-12.14028253900
0104	1115601			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	459.34400000000	459.34500000000	1	-12.14164406400
0104	1115691			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1660.68400000000	1660.68500000000	1	-12.19478463300
0104	1115688			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	523.29700000000	523.29700000000	1	-12.19535604500
0104	1115685			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	485.27200000000	485.27200000000	1	-12.19619377100
0104	1115651			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	272.35800000000	272.35800000000	1	-12.19798390300
0104	1115615			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2599.13500000000	2597.91300000000	1	-12.16032300700
0104	1115619			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	234.44200000000	234.44200000000	1	-12.16339476400
0104	1115647			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1575.95200000000	1575.22100000000	1	-12.18506460400
0104	1115643			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	336.28500000000	336.28600000000	1	-12.18473632000
0104	1115639			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	226.42400000000	226.42400000000	1	-12.18146251000
0104	1115638			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	690.64800000000	690.64900000000	1	-12.18323666000
0104	1115636			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	256.64000000000	256.64100000000	1	-12.17727974000
0104	1113735			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1660.84700000000	1660.04600000000	1	-12.12911654600
0104	1115595			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	824.79200000000	824.79300000000	1	-12.13611959200
0104	1115607			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	100090.11300000000	100090.19000000000	1	-12.15362920800
0104	1115693			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	3561220.84299999000	3561220.84299999000	1	-12.20154555800
0104	1115203			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	29577.31800000000	29577.34000000000	1	-12.19740413200
0104	1115679			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	183.60400000000	183.60400000000	1	-12.19840426300
0104	1115690			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2254.80500000000	2254.80700000000	1	-12.19581883100
0104	1115687			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	216.17700000000	216.17700000000	1	-12.19670969800
0104	1115677			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	206.00700000000	206.00700000000	1	-12.19753059000
0104	1115671			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1715.52300000000	1715.52500000000	1	-12.20152698100
0104	1115669			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1329.17300000000	1329.17400000000	1	-12.20139871500
0104	1115663			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	7646.23300000000	7646.23800000000	1	-12.19666880800
0104	1115650			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	295.80400000000	295.80400000000	1	-12.19778615900
0104	1115632			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	878.62400000000	878.62400000000	1	-12.16777096100
0104	1115630			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	321.81800000000	321.81900000000	1	-12.16899761800
0104	1115641			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	863.08400000000	863.08400000000	1	-12.18398491300
0104	1113737			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	17165.02500000000	17165.03400000000	1	-12.13132637000
0104	1115593			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	35647.89500000000	35647.92200000000	1	-12.13383963000
0104	1115612			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	829.75400000000	829.75400000000	1	-12.15407637500
0104	1115204			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	20380.89300000000	20380.90900000000	1	-12.20118886300
0104	1115205			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	6738.58500000000	6738.59000000000	1	-12.20001403100
0104	1115660			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	797.13900000000	797.14000000000	1	-12.19588295000
0104	1115656			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1114.70600000000	1114.70700000000	1	-12.19719404100
0104	1115624			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2746.73800000000	2746.74000000000	1	-12.16491641500
0104	1115626			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	962.22600000000	962.22700000000	1	-12.16332195800
0104	1115617			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	452.21500000000	452.21500000000	1	-12.16273579200
0104	1115649			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	5329.37700000000	5326.89200000000	1	-12.18853294300
0104	1115644			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	173.73600000000	173.73600000000	1	-12.18436975400
0104	1115631			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	963.67400000000	963.67400000000	1	-12.16852222300
0104	1115635			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	126.27400000000	126.27300000000	1	-12.17244640800
0104	1115640			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	406.76000000000	406.76000000000	1	-12.18373253500
0104	1115637			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	503.44700000000	503.44800000000	1	-12.18212295300
0104	1115602			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1280.27300000000	1280.27400000000	1	-12.14176258500
0104	1115598			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	192050.25000000000	192050.24200000000	1	-12.14057168400
0104	1115605			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	194610.06500000000	194609.92700000000	1	-12.14748944100
0104	1115683			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	701.51200000000	701.51300000000	1	-12.19662267900
0104	1115684			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	508.02200000000	508.02300000000	1	-12.19649315000
0104	1115692			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	117.50500000000	117.50400000000	1	-12.19679995600
0104	1115657			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	3250.68200000000	3250.68500000000	1	-12.19738201600
0104	1115652			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1659.89900000000	1659.90000000000	1	-12.19823864500
0104	1115625			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2005.96100000000	2005.96300000000	1	-12.16370091400
0104	1115623			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2877.28500000000	2877.28700000000	1	-12.16571318500
0104	1115627			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	707.68500000000	707.68500000000	1	-12.16383851500
0104	1115622			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	478.25700000000	478.25700000000	1	-12.16391606900
0104	1115648			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	2970.36200000000	2970.36500000000	1	-12.18601730600
0104	1115646			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	146.11500000000	146.11500000000	1	-12.18566795400
0104	1115614			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	43064.23600000000	43064.26900000000	1	-12.15806278500
0104	1115628			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	967.83700000000	967.83700000000	1	-12.16653516200
0104	1115610			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	314.66300000000	314.66300000000	1	-12.15353694800
0104	1115603			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1193.17400000000	1193.17500000000	1	-12.14267808100
0104	1115604			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	222.89400000000	222.89500000000	1	-12.14335247800
0104	1115609			Plan	P018500	104	G142628	0210300113	P018500	104	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	20340.50600000000	20340.53000000000	1	-12.15554812400
0104	1115183	GOVT REQUIREMENTS		Location	P218313	104	I584705	LR0310200236	COCOSL	00104		0	857.76100000000	858.00000000000	2	-12.19352604600
0104	1115183	GOVT REQUIREMENTS		Location	P218313	104	I584705	LR0310200236	P218313	104		0	857.76100000000	858.00000000000	2	-12.19352604600
0105	1115589				P018500	105	G142628	0210300114	P018500	105	Foreshore Protection and Nature Conservation		1265212.63299999000	1265212.63299999000	1	-11.83229458200
0105	1115191			Plan	P218313	105	J919471	0210600117	COCOSL	00105		0	1101.39800000000	1101.00000000000	2	-12.19328949100
0105	1115191			Plan	P218313	105	J919471	0210600117	P218313	105		0	1101.39800000000	1101.00000000000	2	-12.19328949100
0106	1115192			Location	P218313	106	K318323	0209500716	COCOSL	00106		0	1114.12200000000	1114.00000000000	2	-12.19303430500

LOCNO	PIN	PURPOSE	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA	LEGAL_AREA	USAGE_CODE	CENTLAT
0106	1115192			Location	P218313 106	K318323	0209500716	P218313 106		0	1114.12200000000	1114.00000000000	2	-12.19303430500
0107	1115193			Location	P218313 107	K318324	0209500717	COCOSL 00107		0	1047.85700000000	1048.00000000000	2	-12.19277920600
0107	1115193			Location	P218313 107	K318324	0209500717	P218313 107		0	1047.85700000000	1048.00000000000	2	-12.19277920600
0108	1115178			Crown Rese	P218313 108	I584705	LR0310200240	COCOSL 00108		0	949.54400000000	950.00000000000	2	-12.19245087300
0108	1115178			Crown Rese	P218313 108	I584705	LR0310200240	P218313 108		0	949.54400000000	950.00000000000	2	-12.19245087300
0109	1115177			Location	P218313 109	I100620	0221400428	COCOSL 00109		0	901.24800000000	901.00000000000	2	-12.19241781100
0109	1115177			Location	P218313 109	I100620	0221400428	P218313 109		0	901.24800000000	901.00000000000	2	-12.19241781100
0110	1115127			Plan	P218319 110	I162201	0209500719	COCOSL 00110		0	1161.50200000000	1161.00000000000	2	-12.19220844700
0110	1115127			Plan	P218319 110	I162201	0209500719	P218319 110		0	1161.50200000000	1161.00000000000	2	-12.19220844700
0111	1115131			Crown Rese	P218319 111	I693865	LR0310200243	COCOSL 00111		0	1078.34200000000	1078.00000000000	2	-12.19196223700
0111	1115131			Crown Rese	P218319 111	I693865	LR0310200243	P218319 111		0	1078.34200000000	1078.00000000000	2	-12.19196223700
0112	1115130			Plan	P218319 112	I908787	0255800276	COCOSL 00112		0	1041.70700000000	1042.00000000000	2	-12.19174586800
0112	1115130			Plan	P218319 112	I908787	0255800276	P218319 112		0	1041.70700000000	1042.00000000000	2	-12.19174586800
0113	1115129			Plan	P218319 113	I159138	0221400431	COCOSL 00113		0	1023.78300000000	1024.00000000000	2	-12.19153347200
0113	1115129			Plan	P218319 113	I159138	0221400431	P218319 113		0	1023.78300000000	1024.00000000000	2	-12.19153347200
0114	1115128	GOVT REQUIREMENTS		Plan	P218319 114	I693865	LR0310200246	COCOSL 00114		0	1018.22900000000	1018.00000000000	2	-12.19132276100
0114	1115128	GOVT REQUIREMENTS		Plan	P218319 114	I693865	LR0310200246	P218319 114		0	1018.22900000000	1018.00000000000	2	-12.19132276100
0115	1115116			Location	P218319 115	I182966	0209500720	COCOSL 00115		0	892.32400000000	892.00000000000	2	-12.19111780600
0115	1115116			Location	P218319 115	I182966	0209500720	P218319 115		0	892.32400000000	892.00000000000	2	-12.19111780600
0116	1115115	GOVT REQUIREMENTS		Plan	P218319 116	I693865	LR0310200248	COCOSL 00116		0	873.67700000000	874.00000000000	2	-12.19090514500
0116	1115115	GOVT REQUIREMENTS		Plan	P218319 116	I693865	LR0310200248	P218319 116		0	873.67700000000	874.00000000000	2	-12.19090514500
0117	1115114			Location	P218319 117	I100622	0221400429	COCOSL 00117		0	877.00700000000	877.00000000000	2	-12.19069245600
0117	1115114			Location	P218319 117	I100622	0221400429	P218319 117		0	877.00700000000	877.00000000000	2	-12.19069245600
0118	1115113			Plan	P218319 118	I922283	0257500823	COCOSL 00118		0	851.88000000000	852.00000000000	2	-12.19048054000
0118	1115113			Plan	P218319 118	I922283	0257500823	P218319 118		0	851.88000000000	852.00000000000	2	-12.19048054000
0119	1115112	GOVT REQUIREMENTS		Location	P218319 119	I693865	LR0310200251	COCOSL 00119		0	864.42500000000	864.00000000000	2	-12.19026826500
0119	1115112	GOVT REQUIREMENTS		Location	P218319 119	I693865	LR0310200251	P218319 119		0	864.42500000000	864.00000000000	2	-12.19026826500
0120	1115111			Location	P218319 120	J371571	0221400432	COCOSL 00120		0	797.86200000000	798.00000000000	2	-12.19006040200
0120	1115111			Location	P218319 120	J371571	0221400432	P218319 120		0	797.86200000000	798.00000000000	2	-12.19006040200
0121	1115121		L	Location	P218319 121	I921902	0208800244	COCOSL 00121		Y	917.24200000000	918.00000000000	2	-12.19120645200
0121	1115121		L	Location	P218319 121	I921902	0208800244	P218319 121		Y	917.24200000000	918.00000000000	2	-12.19120645200
0122	1115122		L	Location	P218319 122	G474889	0208800243	COCOSL 00122		Y	937.61100000000	938.00000000000	2	-12.19144453700
0122	1115122		L	Location	P218319 122	G474889	0208800243	P218319 122		Y	937.61100000000	938.00000000000	2	-12.19144453700
0123	1115125		L		S036082	H291165	0214200944	COCOSL 00123			1065.08600000000	1065.00000000000	2	-12.19175492700
0123	1115125		L		S036082	H291165	0214200944	P218319 123			1065.08600000000	1065.00000000000	2	-12.19175492700
0124	1115126		L	Location	P218319 124	G390001	0209500722	COCOSL 00124		0	965.70700000000	966.00000000000	2	-12.19198303000
0124	1115126		L	Location	P218319 124	G390001	0209500722	P218319 124		0	965.70700000000	966.00000000000	2	-12.19198303000
0125	1115190	GOVT REQUIREMENTS		Plan	P218313 125	I584705	LR0310200257	COCOSL 00125		Y	773.39000000000	773.00000000000	2	-12.19347528300
0125	1115190	GOVT REQUIREMENTS		Plan	P218313 125	I584705	LR0310200257	P218313 125		Y	773.39000000000	773.00000000000	2	-12.19347528300
0126	1115184			Crown Rese	P218313 126	I584705	LR0310200258	COCOSL 00126		Y	2239.61700000000	2240.00000000000	2	-12.19373968100
0126	1115184			Crown Rese	P218313 126	I584705	LR0310200258	P218313 126		Y	2239.61700000000	2240.00000000000	2	-12.19373968100
0127	1115185	GOVT REQUIREMENTS	L	Plan	P218313 127	I584705	LR0310200259	COCOSL 00127		0	1264.60100000000	1265.00000000000	2	-12.19265019100
0127	1115185	GOVT REQUIREMENTS	L	Plan	P218313 127	I584705	LR0310200259	P218313 127		0	1264.60100000000	1265.00000000000	2	-12.19265019100
0128	1115109	GOVT REQUIREMENTS	L	Location	P218319 128	I118045	LR0312600663	COCOSL 00128			991.53800000000	991.00000000000	2	-12.18998899500
0128	1115109	GOVT REQUIREMENTS	L	Location	P218319 128	I118045	LR0312600663	P218319 128			991.53800000000	991.00000000000	2	-12.18998899500
0129	1115186		L	Plan	P218313 129	H352009	0209500723	COCOSL 00129		0	1204.72500000000	1205.00000000000	2	-12.19293535400
0129	1115186		L	Plan	P218313 129	H352009	0209500723	P218313 129		0	1204.72500000000	1205.00000000000	2	-12.19293535400
0130	1115173			Plan	P218317 130	H274862	0214200954	COCOSL 00130		Air Force Road.	875.90700000000	876.00000000000	2	-12.19418208400
0130	1115173			Plan	P218317 130	H274862	0214200954	P218317 130		Air Force Road.	875.90700000000	876.00000000000	2	-12.19418208400
0131	1115194	GOVT REQUIREMENTS		Plan	P218313 131	I584705	LR0310200263	COCOSL 00131		0	1076.01100000000	1076.00000000000	2	-12.19403791600
0131	1115194	GOVT REQUIREMENTS		Plan	P218313 131	I584705	LR0310200263	P218313 131		0	1076.01100000000	1076.00000000000	2	-12.19403791600
0132	1115172	GOVT REQUIREMENTS		Plan	P218317 132	I693865	LR0310200264	COCOSL 00132		0	1366.24800000000	1366.00000000000	2	-12.19431129000
0132	1115172	GOVT REQUIREMENTS		Plan	P218317 132	I693865	LR0310200264	P218317 132		0	1366.24800000000	1366.00000000000	2	-12.19431129000
0133	1115195			Location	P218313 133	I296139	0222300615	COCOSL 00133		0	682.32500000000	682.00000000000	2	-12.19391120400
0133	1115195			Location	P218313 133	I296139	0222300615	P218313 133		0	682.32500000000	682.00000000000	2	-12.19391120400
0134	1115187		L	Plan	P218313 134	K275577	0214200934	COCOSL 00134		0	1204.80000000000	1205.00000000000	2	-12.19321436600
0134	1115187		L	Plan	P218313 134	K275577	0214200934	P218313 134		0	1204.80000000000	1205.00000000000	2	-12.19321436600
0135	1115108	GOVT REQUIREMENTS	L	Plan	P218319 135	I693865	LR0310200267	COCOSL 00135			1106.94400000000	1107.00000000000	2	-12.18973306900
0135	1115108	GOVT REQUIREMENTS	L	Plan	P218319 135	I693865	LR0310200267	P218319 135			1106.94400000000	1107.00000000000	2	-12.18973306900
0136	1115176			Location	P218313 136	H278686	0214200938	COCOSL 00136		Mecnelec Place.	972.27500000000	972.00000000000	2	-12.19217726600
0136	1115176			Location	P218313 136	H278686	0214200938	P218313 136		Mecnelec Place.	972.27500000000	972.00000000000	2	-12.19217726600
0137	1115124		L	Location	P218319 137	L169492	0214200935	COCOSL 00137		Y	1006.42000000000	1007.00000000000	2	-12.19188882600
0137	1115124		L	Location	P218319 137	L169492	0214200935	P218319 137		Y	1006.42000000000	1007.00000000000	2	-12.19188882600
0138	1115123		L	Crown Rese	P218319 138	I693866	LR0310200270	COCOSL 00138		N	1143.50300000000	1144.00000000000	2	-12.19170109300
0138	1115123		L	Crown Rese	P218319 138	I693866	LR0310200270	P218319 138		N	1143.50300000000	1144.00000000000	2	-12.19170109300
0139	1115120	GOVT REQUIREMENTS	L	Plan	P218319 139	I693866	LR0310200271	COCOSL 00139		Y	1804.56700000000	1805.00000000000	2	-12.19141714100
0139	1115120	GOVT REQUIREMENTS	L	Plan	P218319 139	I693866	LR0310200271	P218319 139		Y	1804.56700000000	1805.00000000000	2	-12.19141714100
0140	1115119	GOVT REQUIREMENTS	L	Location	P218319 140	I693866	LR0310200272	COCOSL 00140		Y	1261.53200000000	1262.00000000000	2	-12.19116651400
0140	1115119	GOVT REQUIREMENTS	L	Location	P218319 140	I693866	LR0310200272	P218319 140		Y	1261.53200000000	1262.00000000000	2	-12.19116651400
0141	1115106	GOVT REQUIREMENTS		Location	P218319 141	I693866	LR0310200273	COCOSL 00141			1044.20600000000	1044.00000000000	2	-12.18973423300
0141	1115106	GOVT REQUIREMENTS		Location	P218319 141	I693866	LR0310200273	P218319 141			1044.20600000000	1044.00000000000	2	-12.18973423300
0142	1115152			Location	P218315 142	J428962	0214200997	COCOSL 00142		Y	954.52300000000	955.00000000000	2	-12.18584061800
0142	1115152			Location	P218315 142	J428962	0214200997	P218315 142		Y	954.52300000000	955.00000000000	2	-12.18584061800
0143	1115158	GOVT REQUIREMENTS		Plan	P218315 143	I251070	LR0310200275	COCOSL 00143		Y	974.18600000000	974.00000000000	2	-12.18621689900
0143	1115158	GOVT REQUIREMENTS		Plan	P218315 143	I251070	LR0310200275	P218315 143		Y	974.18600000000	974.00000000000	2	-12.18621689900
0144	1115151	GOVT REQUIREMENTS		Location	P218315 144	I251070	LR0310200276	COCOSL 00144		Y	909.63900000000	910.00000000000	2	-12.18566694400
0144	1115151	GOVT REQUIREMENTS		Location	P218315 144	I251070	LR0310200276	P218315 144		Y	909.63900000000	910.00000000000	2	-12.18566694400
0145	1115159			Location	P218315 145	J726973	0221400435	COCOSL 00145		Y	960.76400000000	961.00000000000	2	-12.18606585200
0145	1115159			Location	P218315 145	J726973	0221400435	P218315 145		Y	960.76400000000	961.00000000000	2	-12.18606585200
0146	1115150	GOVT REQUIREMENTS		Plan	P218315 146	I251070	LR0310200278	COCOSL 00146		Y	825.50200000000	825.00000000000	2	-12.18550134200
0146	1115150	GOVT REQUIREMENTS		Plan	P218315 146	I251070	LR0310200278	P218315 146		Y	825.50200000000	825.00000000000	2	-12.18550134200
0147	1115161	GOVT REQUIREMENTS		Plan	P218315 147	I251070	LR0310200279	COCOSL 00147		Y	971.07800000000	971.00000000000	2	-12.18588690570
0147	1115161	GOVT REQUIREMENTS		Plan	P218315 147	I251070	LR0310200279	P218315 147		Y	971.07800000000	971.00000000000	2	-12.18588690570

LOCNO	PIN	PURPOSE	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA	LEGAL_AREA	USAGE_CODE	CENTLAT
0148	1115135			Leasehold	P218315 148	K915034	0221400437	COCOSL 00148		Y	779.46100000000	779.00000000000	2	-12.18527146400
0148	1115135			Leasehold	P218315 148	K915034	0221400437	P218315 148		Y	779.46100000000	779.00000000000	2	-12.18527146400
0149	1115162			Plan	P218315 149	I335141	0222300686	COCOSL 00149		Y	896.26900000000	896.00000000000	2	-12.18574326540
0149	1115162			Plan	P218315 149	I335141	0222300686	P218315 149		Y	896.26900000000	896.00000000000	2	-12.18574326540
0150	1115134	GOVT REQUIREMENTS		Plan	P218315 150	I251070	LR0310200282	COCOSL 00150		Y	999.61300000000	1000.00000000000	2	-12.18510570700
0150	1115134	GOVT REQUIREMENTS		Plan	P218315 150	I251070	LR0310200282	P218315 150		Y	999.61300000000	1000.00000000000	2	-12.18510570700
0151	1115163			Crown Rese	P218315 151	I251070	LR0310200283	COCOSL 00151		Y	945.92500000000	946.00000000000	2	-12.18559523440
0151	1115163			Crown Rese	P218315 151	I251070	LR0310200283	P218315 151		Y	945.92500000000	946.00000000000	2	-12.18559523440
0152	1115133			Location	P218315 152	J607334	0214200939	COCOSL 00152		Y	904.35000000000	905.00000000000	2	-12.18492688900
0152	1115133			Location	P218315 152	J607334	0214200939	P218315 152		Y	904.35000000000	905.00000000000	2	-12.18492688900
0153	1115164			Crown Rese	P218315 153	I251070	LR0310200285	COCOSL 00153		Y	1068.89900000000	1069.00000000000	2	-12.18543349480
0153	1115164			Crown Rese	P218315 153	I251070	LR0310200285	P218315 153		Y	1068.89900000000	1069.00000000000	2	-12.18543349480
0154	1115132			Location	P218315 154	J296666	0261500337	COCOSL 00154		Y	798.54900000000	799.00000000000	2	-12.18476611900
0154	1115132			Location	P218315 154	J296666	0261500337	P218315 154		Y	798.54900000000	799.00000000000	2	-12.18476611900
0155	1115165	GOVT REQUIREMENTS		Plan	P218315 155	I251070	LR0310200287	COCOSL 00155		0	1045.86100000000	1046.00000000000	2	-12.18526545750
0155	1115165	GOVT REQUIREMENTS		Plan	P218315 155	I251070	LR0310200287	P218315 155		0	1045.86100000000	1046.00000000000	2	-12.18526545750
0156	1115153	GOVT REQUIREMENTS		Location	P218315 156	I251070	LR0310200288	COCOSL 00156		Y	1234.53500000000	1234.00000000000	2	-12.18601195600
0156	1115153	GOVT REQUIREMENTS		Location	P218315 156	I251070	LR0310200288	P218315 156		Y	1234.53500000000	1234.00000000000	2	-12.18601195600
0157	1115166			Plan	P218315 157	J296665	0261500336	COCOSL 00157		Y	940.75400000000	940.00000000000	2	-12.18510395340
0157	1115166			Plan	P218315 157	J296665	0261500336	P218315 157		Y	940.75400000000	940.00000000000	2	-12.18510395340
0158	1115154	GOVT REQUIREMENTS		Location	P218315 158	I958158	0257300836	COCOSL 00158		Y	1183.13600000000	1183.00000000000	2	-12.18618101200
0158	1115154	GOVT REQUIREMENTS		Location	P218315 158	I958158	0257300836	P218315 158		Y	1183.13600000000	1183.00000000000	2	-12.18618101200
0159	1115170			Crown Rese	P218315 159	I251070	LR0310200291	COCOSL 00159		N	818.78600000000	819.00000000000	2	-12.18664135400
0159	1115170			Crown Rese	P218315 159	I251070	LR0310200291	P218315 159		N	818.78600000000	819.00000000000	2	-12.18664135400
0160	1115107		L	Crown Rese	P218319 160	I699078	LR0310200292	COCOSL 00160		Y	1400.09600000000	1400.00000000000	2	-12.18948146400
0160	1115107		L	Crown Rese	P218319 160	I699078	LR0310200292	P218319 160		Y	1400.09600000000	1400.00000000000	2	-12.18948146400
0161	1115169			Plan	P218315 161	H274696	0214200950	COCOSL 00161		N	889.18600000000	889.00000000000	2	-12.18674996100
0161	1115169			Plan	P218315 161	H274696	0214200950	P218315 161		N	889.18600000000	889.00000000000	2	-12.18674996100
0162	1115188		L	Plan	P218313 162	J428150	0214200942	COCOSL 00162		Air Force Road.	808.42700000000	808.00000000000	2	-12.19344846100
0162	1115188		L	Plan	P218313 162	J428150	0214200942	P218313 162		Air Force Road.	808.42700000000	808.00000000000	2	-12.19344846100
0163	1115168			Location	P218315 163	G482612	0209500725	COCOSL 00163		N	1174.63300000000	1174.00000000000	2	-12.18685245900
0163	1115168			Location	P218315 163	G482612	0209500725	P218315 163		N	1174.63300000000	1174.00000000000	2	-12.18685245900
0164	1115189		L	Location	P218313 164	J954718	0209800012	COCOSL 00164		Air Force Road.	1035.87900000000	1036.00000000000	2	-12.19365473600
0164	1115189		L	Location	P218313 164	J954718	0209800012	P218313 164		Air Force Road.	1035.87900000000	1036.00000000000	2	-12.19365473600
0165	1115171			Plan	P218317 165	H277058	0214200943	COCOSL 00165		Air Force Road.	696.52900000000	697.00000000000	2	-12.19449158900
0165	1115171			Plan	P218317 165	H277058	0214200943	P218317 165		Air Force Road.	696.52900000000	697.00000000000	2	-12.19449158900
0166	1115174	PROTECTION OF SURVEY MARK		Plan	P218317 166	G308945	LR0310200298	COCOSL 00166	FORESHORE PROTECTION AND NATURE CONSERVATION		1994.00500000000	1994.00000000000	2	-12.19546428400
0166	1115174	PROTECTION OF SURVEY MARK		Plan	P218317 166	G308945	LR0310200298	P218317 166	FORESHORE PROTECTION AND NATURE CONSERVATION		1994.00500000000	1994.00000000000	2	-12.19546428400
0167	1115196	RECREATION & FORESHORE M'MENT		Plan	P218316 167	G698759	LR0308100832	COCOSL 00167	FORESHORE PROTECTION AND NATURE CONSERVATION		39577.45100000000	34881.00000000000	2	-12.19585862550
0167	1115196	RECREATION & FORESHORE M'MENT		Plan	P218316 167	G698759	LR0308100832	P218316 167	FORESHORE PROTECTION AND NATURE CONSERVATION		39577.45100000000	34881.00000000000	2	-12.19585862550
0168	1115175	SUB STATION		Location	P218313 168	I584705	LR0310200300	COCOSL 00168			74.84000000000	75.00000000000	2	-12.19207930500
0168	1115175	SUB STATION		Location	P218313 168	I584705	LR0310200300	P218313 168			74.84000000000	75.00000000000	2	-12.19207930500
0169	1115117	SCHOOL	L	Location	P218319 169	G308947	LR0310200301	COCOSL 00169	PUBLIC PURPOSE - SCHOOL	School	11433.24300000000	11433.00000000000	2	-12.19041166800
0169	1115117	SCHOOL	L	Location	P218319 169	G308947	LR0310200301	P218319 169	PUBLIC PURPOSE - SCHOOL	School	11433.24300000000	11433.00000000000	2	-12.19041166800
0170	1115110	RECREATION	L	Location	P218319 170	G308946	LR0307900866	COCOSL 00170			6991.72100000000	6991.00000000000	2	-12.18925486200
0170	1115110	RECREATION	L	Location	P218319 170	G308946	LR0307900866	P218319 170			6991.72100000000	6991.00000000000	2	-12.18925486200
0173	1115103			Plan	P218319 173	I923246	0210600119	COCOSL 00173		Clunies-Ross Ave	1533.35100000000	1533.00000000000	2	-12.18897282000
0173	1115103			Plan	P218319 173	I923246	0210600119	P218319 173		Clunies-Ross Ave	1533.35100000000	1533.00000000000	2	-12.18897282000
0174	1115102			Location	P218319 174	H936247	0221400418	COCOSL 00174		Y	1757.62300000000	1758.00000000000	2	-12.18879409900
0174	1115102			Location	P218319 174	H936247	0221400418	P218319 174		Y	1757.62300000000	1758.00000000000	2	-12.18879409900
0175	1115100	RECREATION	L	Plan	P218319 175	I699078	LR0310200306	COCOSL 00175	PARKS AND RECREATION	Airforce Road.	1002.06400000000	1002.00000000000	2	-12.18868653800
0175	1115100	RECREATION	L	Plan	P218319 175	I699078	LR0310200306	P218319 175	PARKS AND RECREATION	Airforce Road.	1002.06400000000	1002.00000000000	2	-12.18868653800
0176	1115101	SUB STATION	L	Plan	P218319 176	I699078	LR0310200307	COCOSL 00176	PARKS AND RECREATION		129.53300000000	130.00000000000	2	-12.18888548490
0176	1115101	SUB STATION	L	Plan	P218319 176	I699078	LR0310200307	P218319 176	PARKS AND RECREATION		129.53300000000	130.00000000000	2	-12.18888548490
0178	1115095			Crown Rese	P218318 178	I693866	LR0310200309	COCOSL 00178		Cocus Club/Cyclone Shelter	1222.06300000000	1222.00000000000	2	-12.18797461100
0178	1115095			Crown Rese	P218318 178	I693866	LR0310200309	P218318 178		Cocus Club/Cyclone Shelter	1222.06300000000	1222.00000000000	2	-12.18797461100
0179	1115089	RECREATION		Plan	P218318 179	G308943	LR0310200310	COCOSL 00179			9209.94500000000	9209.00000000000	2	-12.18721829500
0179	1115089	RECREATION		Plan	P218318 179	G308943	LR0310200310	P218318 179			9209.94500000000	9209.00000000000	2	-12.18721829500
0180	1115090	GOVT REQUIREMENTS		Plan	P218318 180	J063281	0257500891	COCOSL 00180		The Lodge	9383.40400000000	9383.00000000000	2	-12.18773688400
0180	1115090	GOVT REQUIREMENTS		Plan	P218318 180	J063281	0257500891	P218318 180		The Lodge	9383.40400000000	9383.00000000000	2	-12.18773688400
0181	1115094			Location	P218318 181	G915983	0209800013	COCOSL 00181		0	726.18300000000	726.00000000000	2	-12.18884788100
0181	1115094			Location	P218318 181	G915983	0209800013	P218318 181		0	726.18300000000	726.00000000000	2	-12.18884788100
0182	1115098	GOVT REQUIREMENTS		Plan	P218319 182	I693866	LR0310200313	COCOSL 00182	PUBLIC PURPOSE - HOSPITAL	Hospital and Nurses' Quaters	2000.69000000000	2001.00000000000	2	-12.18916435100
0182	1115098	GOVT REQUIREMENTS		Plan	P218319 182	I693866	LR0310200313	P218319 182	PUBLIC PURPOSE - HOSPITAL	Hospital and Nurses' Quaters	2000.69000000000	2001.00000000000	2	-12.18916435100
0184	1115082			Crown Rese	P218318 184	I702117	LR0310200315	COCOSL 00184		0	15168.35400000000	15168.00000000000	2	-12.18566324600
0184	1115082			Crown Rese	P218318 184	I702117	LR0310200315	P218318 184		0	15168.35400000000	15168.00000000000	2	-12.18566324600
0187	1115088	CHURCH SITE		Location	P218318 187	H368050	LR0310200318	COCOSL 00187		Mosque	1137.35200000000	1137.00000000000	2	-12.18638980100
0187	1115088	CHURCH SITE		Location	P218318 187	H368050	LR0310200318	P218318 187		Mosque	1137.35200000000	1137.00000000000	2	-12.18638980100
0188	1115087	GOVT REQUIREMENTS		Location	P218318 188	I693866	LR0310200319	COCOSL 00188		0	521.61600000000	522.00000000000	2	-12.18649729700
0188	1115087	GOVT REQUIREMENTS		Location	P218318 188	I693866	LR0310200319	P218318 188		0	521.61600000000	522.00000000000	2	-12.18649729700
0189	1115086			Crown Rese	P218318 189	I693866	LR0310200320	COCOSL 00189		Y	568.49900000000	569.00000000000	2	-12.18656846400
0189	1115086			Crown Rese	P218318 189	I693866	LR0310200320	P218318 189		Y	568.49900000000	569.00000000000	2	-12.18656846400
0190	1115085			Plan	P218318 190	H926794	0209800014	COCOSL 00190			705.29200000000	705.00000000000	2	-12.18664877700
0190	1115085			Plan	P218318 190	H926794	0209800014	P218318 190			705.29200000000	705.00000000000	2	-12.18664877700
0191	1115118		L	Plan	P218319 191	J640291	0214200952	COCOSL 00191		Y	1048.63000000000	1049.00000000000	2	-12.19089895200
0191	1115118		L	Plan	P218319 191	J640291	0214200952	P218319 191		Y	1048.63000000000	1049.00000000000	2	-12.19089895200
0192	1115179		L	Plan	P218313 192	G511209	0210600120	COCOSL 00192		Y	1219.14000000000	1219.00000000000	2	-12.19224051400
0192	1115179		L	Plan	P218313 192	G511209	0210600120	P218313 192		Y	1219.14000000000	1219.00000000000	2	-12.19224051400
0197	1115160	PEDESTRIAN ACCESS WAY		Plan	P218315 197	G308948	LR0310200326	COCOSL 00197			164.85500000000	165.00000000000	2	-12.18597669670
0197	1115160	PEDESTRIAN ACCESS WAY		Plan	P218315 197	G308948	LR0310200326	P218315 197			164.85500000000	165.00000000000	2	-12.18597669670
0198	1115167			Crown Rese	P218315 198	G308954	LR0310200327	COCOSL 00198			125.80500000000	126.00000000000	2	-12.18502099530
0198	1115167			Crown Rese	P218315 198	G308954	LR0310200327	P218315 198			125.80500000000	126.00000000000	2	-12.18502099530
0199	1115091			Crown Rese	P218318 199	G308953	LR0310200328	COCOSL 00199			99.62500000000	100.00000000000	2	-12.18835327980

LOCNO	PIN	PURPOSE	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA	LEGAL_AREA	USAGE_CODE	CENTLAT
0199	1115091			Crown Rese	P218318 199	G308953	LR0310200328	P218318 199			99.62500000000	100.00000000000	2	-12.18835327980
0202	1115062			Vacant Cro	P218218 202	K820057	LR0300400958	COCOSL 00202		TRANSMITTER SITE	112118.34600000000	112108.00000000000	2	-12.14532863200
0202	1115062			Vacant Cro	P218218 202	K820057	LR0300400958	P218218 202		TRANSMITTER SITE	112118.34600000000	112108.00000000000	2	-12.14532863200
0206	1115063			Vacant Cro	P218218 206	K820057	LR0300400960	COCOSL 00206			32044.37200000000	32022.00000000000	2	-12.14342673100
0206	1115063			Vacant Cro	P218218 206	K820057	LR0300400960	P218218 206			32044.37200000000	32022.00000000000	2	-12.14342673100
0207	1115061			Vacant Cro	P218218 207	K820057	LR0300400962	COCOSL 00207			24283.37800000000	24285.00000000000	2	-12.14760692500
0207	1115061			Vacant Cro	P218218 207	K820057	LR0300400962	P218218 207			24283.37800000000	24285.00000000000	2	-12.14760692500
0209	1115059	METEOROLOGY STATION		Plan	P218225 209	I699078	LR0310200338	COCOSL 00209	SPECIAL USE - METEOROLOGICAL STATION	Bureau of Meteorology Weather Station	41171.46400000000	41198.00000000000	2	-12.18786279710
0209	1115059	METEOROLOGY STATION		Plan	P218225 209	I699078	LR0310200338	P218225 209	SPECIAL USE - METEOROLOGICAL STATION	Bureau of Meteorology Weather Station	41171.46400000000	41198.00000000000	2	-12.18786279710
0221	1115099	MEMORIAL SITE		Location	P218319 221	G308949	LR0310200344	COCOSL 00221	FORESHORE PROTECTION AND NATURE CONSERVATION		15.01400000000	15.00000000000	2	-12.19042694600
0221	1115099	MEMORIAL SITE		Location	P218319 221	G308949	LR0310200344	P218319 221	FORESHORE PROTECTION AND NATURE CONSERVATION		15.01400000000	15.00000000000	2	-12.19042694600
0222	1115197			Crown Rese	P218316 222	G308952	LR0310200345	COCOSL 00222			39.37000000000	39.00000000000	2	-12.18836367400
0222	1115197			Crown Rese	P218316 222	G308952	LR0310200345	P218316 222			39.37000000000	39.00000000000	2	-12.18836367400
0313	1115148	SUB STATION		Plan	P218315 313	I251070	LR0310200359	COCOSL 00313			34.98200000000	35.00000000000	2	-12.18503775800
0313	1115148	SUB STATION		Plan	P218315 313	I251070	LR0310200359	P218315 313			34.98200000000	35.00000000000	2	-12.18503775800
0315	1115149			Plan	P218315 315	J402480	0210600122	COCOSL 00315		Buffet Close.	1023.06800000000	1023.00000000000	2	-12.18534276700
0315	1115149			Plan	P218315 315	J402480	0210600122	P218315 315		Buffet Close.	1023.06800000000	1023.00000000000	2	-12.18534276700
0316	1115155				P218315 316	G308955	LR0310200361	COCOSL 00316			6759.03300000000	6758.00000000000	2	-12.18531480700
0316	1115155				P218315 316	G308955	LR0310200361	P218315 316			6759.03300000000	6758.00000000000	2	-12.18531480700
0317	1115157	TELECOMMUNICATION SITE		Location	P218315 317	G308951	LR0310200362	COCOSL 00317			911.43900000000	911.00000000000	2	-12.18636232500
0317	1115157	TELECOMMUNICATION SITE		Location	P218315 317	G308951	LR0310200362	P218315 317			911.43900000000	911.00000000000	2	-12.18636232500
0319	1189457	TELECOMMUNICATION SITE		Plan	P191375 319	G308950	LR0310200364	COCOSL 00319			117.51700000000	118.00000000000	2	-12.18843672900
0319	1189457	TELECOMMUNICATION SITE		Plan	P191375 319	G308950	LR0310200364	P191375 319			117.51700000000	118.00000000000	2	-12.18843672900
0323	1194332			Location	P193057 323	G449167	0209800015	COCOSL 00323	SPECIAL USE		1032.99300000000	1032.84100000000	2	-12.18476986900
0323	1194332			Location	P193057 323	G449167	0209800015	P193057 323	SPECIAL USE		1032.99300000000	1032.84100000000	2	-12.18476986900
0326	1215186			Plan	P219651 326	H041229	LR0310900985	COCOSL 00326	GENERAL RURAL		276.90500000000	277.00000000000	2	-12.17095581300
0326	1215186			Plan	P219651 326	H041229	LR0310900985	P219651 326	GENERAL RURAL		276.90500000000	277.00000000000	2	-12.17095581300
0327	1215187			Vacant Cro	P219651 327	H041228	LR0310900986	COCOSL 00327			208791.80300000000	211459.00000000000	2	-12.17494120400
0327	1215187			Vacant Cro	P219651 327	H041228	LR0310900986	P219651 327			208791.80300000000	211459.00000000000	2	-12.17494120400
0328	1215182			Vacant Cro	P219652 328	H192134	LR0309800918	COCOSL 00328			99589.13600000000	102826.00000000000	2	-12.18222591100
0328	1215182			Vacant Cro	P219652 328	H192134	LR0309800918	P219652 328			99589.13600000000	102826.00000000000	2	-12.18222591100
0329	1290328			Vacant Cro	P219652 329	H192134	LR0309800919	COCOSL 00329			332.94100000000	333.00000000000	2	-12.18018438500
0329	1290328			Vacant Cro	P219652 329	H192134	LR0309800919	P219652 329			332.94100000000	333.00000000000	2	-12.18018438500
0331	1303141			Plan	P194602 331	H506461	LR0311500959	COCOSL 00331			49875.02500000000	49875.00000000000	2	-12.16814099000
0331	1303141			Plan	P194602 331	H506461	LR0311500959	P194602 331			49875.02500000000	49875.00000000000	2	-12.16814099000
0332	1303140			Vacant Cro	P194602 332	H506461	LR0311500960	COCOSL 00332			49999.96600000000	50000.00000000000	2	-12.18622092300
0332	1303140			Vacant Cro	P194602 332	H506461	LR0311500960	P194602 332			49999.96600000000	50000.00000000000	2	-12.18622092300
0333	11256183				P040839 333	I875001	LR0313100177	COCOSL 00333			89.99800000000	90.00000000000	2	-12.13837926000
0333	11256183				P040839 333	I875001	LR0313100177	P040839 333			89.99800000000	90.00000000000	2	-12.13837926000
0334	11256184				P040839 334	I875001	LR0313100178	COCOSL 00334			10593.39600000000	10555.00000000000	2	-12.13796472700
0334	11256184				P040839 334	I875001	LR0313100178	P040839 334			10593.39600000000	10555.00000000000	2	-12.13796472700
0335	11299225				P042276 335	I930414	LR0313400759	P042276 335			11945.23500000000	12311.00000000000	1	-12.13752347890
0336	11218848			Crown Rese	P027316 336	I702117	LR0311800369	COCOSL 00336		1527.677	1233.92600000000	1235.00000000000	2	-12.18948962650
0336	11218848			Crown Rese	P027316 336	I702117	LR0311800369	P027316 336		1527.677	1233.92600000000	1235.00000000000	2	-12.18948962650
0337	11218847	KINDERGARTEN		Plan	P027316 337	I702117	LR0311800370	COCOSL 00337	PUBLIC PURPOSE - SCHOOL	Day/Child Care Centre	1082.53700000000	1082.00000000000	2	-12.18978370000
0337	11218847	KINDERGARTEN		Plan	P027316 337	I702117	LR0311800370	P027316 337	PUBLIC PURPOSE - SCHOOL	Day/Child Care Centre	1082.53700000000	1082.00000000000	2	-12.18978370000
0338	1365196	FORESHORE MANAGEMENT		Location	P027660 338	I202046	LR0312900415	COCOSL 00338	FORESHORE PROTECTION AND NATURE CONSERVATION		6524.60900000000	6524.60900000000	2	-12.12133130800
0338	1365196	FORESHORE MANAGEMENT		Location	P027660 338	I202046	LR0312900415	P027660 338	FORESHORE PROTECTION AND NATURE CONSERVATION		6524.60900000000	6524.60900000000	2	-12.12133130800
0339	1365195			Crown Rese	P027660 339	I553518	LR0312500597	COCOSL 00339			22562.45700000000	22566.38200000000	2	-12.12041791100
0339	1365195			Crown Rese	P027660 339	I553518	LR0312500597	P027660 339			22562.45700000000	22566.38200000000	2	-12.12041791100
0340	11299184				P042275 340	I921025	LR0313400762	P042275 340			1139.08600000000	1139.00000000000	1	-12.18654440540
0341	11299159				P042274 341	J029903	LR0313300400	P042274 341			985021.28300000000	985509.00000000000	1	-12.19163946330
0342	11299160				P042274 342	J029903	LR0313300401	P042274 342			55485.94200000000	55486.00000000000	1	-12.20567732000
0343	11299155				P042274 343	J029903	LR0313300402	P042274 343			1920.15600000000	1920.00000000000	1	-12.18458756320
0344	11299154				P042274 344	J029903	LR0313300403	P042274 344			3340.43700000000	3340.00000000000	1	-12.18501273990
0345	11299151				P042274 345	J029903	LR0313300404	P042274 345			4128.42800000000	4128.00000000000	1	-12.18564368160
0346	11299152				P042274 346	J029903	LR0313300405	P042274 346			42.00000000000	42.00000000000	1	-12.18599221070
0347	11299153				P042274 347	J029903	LR0313300406	P042274 347			1631.83300000000	1632.00000000000	1	-12.18612776820
0348	11299157				P042274 348	J029903	LR0313300407	P042274 348			1268.54900000000	1268.00000000000	1	-12.18821952600
0349	11299158				P042274 349	J029903	LR0313300408	P042274 349			2458.56600000000	2458.00000000000	1	-12.18847682670
0350	11299156				P042274 350	J029903	LR0313300409	P042274 350			2024.72700000000	2025.00000000000	1	-12.18819988170
0351	11299224				P042276 351	I930414	LR0313300568	P042276 351			15406.52200000000	15365.00000000000	1	-12.13733869680
0600	11607568				P052168 600	K066022	0264700273	P052168 600			1517.45500000000	1517.00000000000	1	-12.18856945440
1000	1365197		H	Plan	P027660 1000	I268597	0221400422	P027660 1000	Special Use		12610.79800000000	12612.00000000000	1	-12.12063611000
1001	1365194		H	Plan	P027660 1001	I900776	0221400423	P027660 1001	Special Use		6870.88000000000	6871.00000000000	1	-12.11951194300
1106	1113721			Plan	P030520 1106	I163747	0254900671	P030520 1106	General Useage	18500	844512.40700000000	844512.41000000000	1	-12.11703578900
1107	11016564			Plan	P030520 1107	I163747	0254900672	P030520 1107	Foreshore Protection and Nature Conservation		2005.43300000000	2000.00000000000	1	-12.11829679220
1108	1113731			Plan	P030520 1108	I163747	0254900673	P030520 1108	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	1080.52600000000	1080.52600000000	1	-12.10363772800
1109	1113730			Plan	P030520 1109	I163747	0254900674	P030520 1109	Parks and Recreation; Foreshore Protection and Nature Conservation	18500	536.89200000000	536.89400000000	1	-12.10590363600
3003	11444290				P044688 3003	J585935	LR0313600731	P044688 3003			81291.43700000000	81230.00000000000	1	-12.18365739970
3004	11444293		H		P044688 3004	J585935	0260200995	P044688 3004			624.32700000000	624.00000000000	1	-12.18483322690
3005	11444289		H		P044688 3005	J585935	0260200996	P044688 3005			835.45800000000	835.00000000000	1	-12.18455767550
3006	11444279				P044688 3006	J585935	0260200997	P044688 3006			136.15000000000	136.00000000000	1	-12.18416685820
0000	11848299							P ROAD			17426.00200000000	17426.00200000000	13	-12.20546136080
0000	1115059	METEOROLOGY STATION		Plan	P218225 209	I699078	LR0310200338	R 47322	SPECIAL USE - METEOROLOGICAL STATION	Bureau of Meteorology Weather Station	41171.46400000000	41198.00000000000	3	-12.18786279710
0000	1365195			Crown Rese	P027660 339	I553518	LR0312500597	R 47112			22562.45700000000	22566.38200000000	3	-12.12041791100
0000	11299160				P042274 342	J029903	LR0313300401	R 47727			55485.94200000000	55486.00000000000	3	-12.20567732000
0000	11256184				P040839 334	I875001	LR0313100178	R 47639			10593.39600000000	10555.00000000000	3	-12.13796472700
0000	11299159				P042274 341	J029903	LR0313300400	R 47727			985021.28300000000	985509.00000000000	3	-12.19163946330
0000	11299225				P042276 335	I930414	LR0313400759	R 47721			11945.23500000000	12311.00000000000	3	-12.13752347890
0000	1115061			Vacant Cro	P218218 207	K820057	LR0300400962	V CROWN LAND			24283.37800000000	24285.00000000000	6	-12.14760692500
0000	1215182			Vacant Cro	P219652 328	H192134	LR0309800918	V CROWN LAND			99589.13600000000	102826.00000000000	6	-12.18222591100
0000	11826091							P ROAD			11598.00600000000	11598.00600000000	13	-12.19389631700

LOCNO	PIN	PURPOSE	ADDRESSTYP	TENURE	SURVEY		DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA	LEGAL_AREA	USAGE_CODE	CENTLAT
0000	11826090								P ROAD			19952.14100000000	19952.14100000000	13	-12.20117174780
0000	11299154				P042274	344	J029903	LR0313300403	R 47729			3340.43700000000	3340.00000000000	3	-12.18501273990
0000	11299155				P042274	343	J029903	LR0313300402	R 47728			1920.15600000000	1920.00000000000	3	-12.18458756320
0000	11299158				P042274	349	J029903	LR0313300408	R 47743			2458.56600000000	2458.00000000000	3	-12.18847682670
0000	11299157				P042274	348	J029903	LR0313300407	R 47743			1268.54900000000	1268.00000000000	3	-12.18821952600
0000	11299156				P042274	350	J029903	LR0313300409	R 47744			2024.72700000000	2025.00000000000	3	-12.18819988170
0000	1115167			Crown Rese	P218315	198	G308954	LR0310200327	R 44520			125.80500000000	126.00000000000	3	-12.18502099530
0000	11299151				P042274	345	J029903	LR0313300404	R 47730			4128.42800000000	4128.00000000000	3	-12.18564368160
0000	1115196	RECREATION & FORESHORE M'MENT		Plan	P218316	167	G698759	LR0308100832	R 44516	FORESHORE PROTECTION AND NATURE CONSERVATION		39577.45100000000	34881.00000000000	3	-12.19585862550
0000	1215186			Plan	P219651	326	H041229	LR0310900985	V CROWN LAND	GENERAL RURAL		276.90500000000	277.00000000000	6	-12.17095581300
0000	1115062			Vacant Cro	P218218	202	K820057	LR0300400958	V CROWN LAND		TRANSMITTER SITE	112118.34600000000	112108.00000000000	6	-12.14532863200
0000	1290328			Vacant Cro	P219652	329	H192134	LR0309800919	V CROWN LAND			332.94100000000	333.00000000000	6	-12.18018438500
0000	1215187			Vacant Cro	P219651	327	H041228	LR0310900986	V CROWN LAND			208791.80300000000	211459.00000000000	6	-12.17494120400
0000	1115063			Vacant Cro	P218218	206	K820057	LR0300400960	V CROWN LAND			32044.37200000000	32022.00000000000	6	-12.14342673100
0000	11218848			Crown Rese	P027316	336	I702117	LR0311800369	V CROWN LAND		1527.677	1233.92600000000	1235.00000000000	6	-12.18948962650
0000	11826040								P ROAD			4526.25200000000	4526.25200000000	13	-12.18789921200
0000	11016562			Road					P ROAD			8247.76900000000	8241.00000000000	13	-12.11819443000
0000	1215181			Road					P ROAD			2101.07600000000	2122.00000000000	13	-12.18055664400
0000	11826038								P ROAD			2895.45600000000	2895.45600000000	13	-12.18543746070
0000	11826046								P ROAD			9041.05400000000	9041.05400000000	13	-12.19148271620
0000	11825974								P ROAD			17875.39800000000	17875.39800000000	13	-12.14097736250
0000	11825976								P ROAD			10590.34400000000	10590.34400000000	13	-12.14751598560
0000	11826041								P ROAD			1090.23800000000	1090.23800000000	13	-12.18826325200
0000	11826045								P ROAD			306.61700000000	306.61700000000	13	-12.19232082940
0000	11826042								P ROAD			9213.89500000000	9213.89500000000	13	-12.19033618390
0000	11826044								P ROAD			984.91000000000	984.91000000000	13	-12.19386365260
0000	1291302			Road					P ROAD			23131.81600000000	23131.98000000000	13	-12.20290342400
0000	11826094								P ROAD			12397.32300000000	12397.32300000000	13	-12.17034139950
0000	11826095								P ROAD			440.78600000000	440.78600000000	13	-12.18539380000
0000	11826093								P ROAD			19338.18700000000	19338.18700000000	13	-12.18369425360
0000	11826037								P ROAD			2970.33700000000	2970.33700000000	13	-12.18712460130
0000	11826047								P ROAD			1432.65000000000	1432.65000000000	13	-12.19309141220
0000	11825975								P ROAD			10318.38800000000	10318.38800000000	13	-12.15930390900
0000	11826092								P ROAD			6025.34100000000	6025.34100000000	13	-12.18581340690
0000	11016563			Road					P ROAD			345.80600000000	346.00000000000	13	-12.11655246000
0000	1215184								P ROAD			3814.91300000000	3826.00000000000	13	-12.17508264340
0000	11444291								P ROAD			4429.82600000000	4430.00000000000	13	-12.18473343690
0000	11826039								P ROAD			1407.80000000000	1407.80000000000	13	-12.18669896230
0000	11826152								P ROAD			1864.09000000000	1864.09000000000	13	-12.18861103210
0000	11826043								P ROAD			9591.12800000000	9591.12800000000	13	-12.19438627500
0000	1115150	GOVT REQUIREMENTS		Plan	P218315	146	I251070	LR0310200278	R 47366		Y	825.50200000000	825.00000000000	3	-12.18550134200
0000	1115151	GOVT REQUIREMENTS		Location	P218315	144	I251070	LR0310200276	R 47365		Y	909.63900000000	910.00000000000	3	-12.18566694400
0000	1115170			Crown Rese	P218315	159	I251070	LR0310200291	R 47373		N	818.78600000000	819.00000000000	3	-12.18664135400
0000	1115089	RECREATION		Plan	P218318	179	G308943	LR0310200310	R 44517			9209.94500000000	9209.00000000000	3	-12.18721829500
0000	1115098	GOVT REQUIREMENTS		Plan	P218319	182	I693866	LR0310200313	R 47342	PUBLIC PURPOSE - HOSPITAL	Hospital and Nurses' Quaters	2000.69000000000	2001.00000000000	3	-12.18916435100
0000	1115178			Crown Rese	P218313	108	I584705	LR0310200240	R 47346		0	949.54400000000	950.00000000000	3	-12.19245087300
0000	1115183	GOVT REQUIREMENTS		Location	P218313	104	I584705	LR0310200236	R 47345		0	857.76100000000	858.00000000000	3	-12.19352604600
0000	1365196	FORESHORE MANAGEMENT		Location	P027660	338	I202046	LR0312900415	R 46883	FORESHORE PROTECTION AND NATURE CONSERVATION		6524.60900000000	6524.60900000000	3	-12.12133130800
0000	1115163			Crown Rese	P218315	151	I251070	LR0310200283	R 47369		Y	945.92500000000	946.00000000000	3	-12.18559523440
0000	1115148	SUB STATION		Plan	P218315	313	I251070	LR0310200359	R 47323			34.98200000000	35.00000000000	3	-12.18503775800
0000	11299153				P042274	347	J029903	LR0313300406	R 47742			1631.83300000000	1632.00000000000	3	-12.18612776820
0000	1115106	GOVT REQUIREMENTS		Location	P218319	141	I693866	LR0310200273	R 47363			1044.20600000000	1044.00000000000	3	-12.18973423300
0000	1115131			Crown Rese	P218319	111	I693865	LR0310200243	R 47347		0	1078.34200000000	1078.00000000000	3	-12.19196223700
0000	1115184			Crown Rese	P218313	126	I584705	LR0310200258	R 47354		Y	2239.61700000000	2240.00000000000	3	-12.19373968100
0000	11299184				P042275	340	I921025	LR0313400762	R 44518			1139.08600000000	1139.00000000000	3	-12.18654440540
0000	11299152				P042274	346	J029903	LR0313300405	R 47741			42.00000000000	42.00000000000	3	-12.18599221070
0000	1115095			Crown Rese	P218318	178	I693866	LR0310200309	R 47374		Cocus Club/Cyclone Shelter	1222.06300000000	1222.00000000000	3	-12.18797461100
0000	1189457	TELECOMMUNICATION SITE		Plan	P191375	319	G308950	LR0310200364	R 44525			117.51700000000	118.00000000000	3	-12.18843672900
0000	11218847	KINDERGARTEN		Plan	P027316	337	I702117	LR0311800370	R 47450	PUBLIC PURPOSE - SCHOOL	Day/Child Care Centre	1082.53700000000	1082.00000000000	3	-12.18978370000
0000	1115100	RECREATION	L	Plan	P218319	175	I699078	LR0310200306	R 47326	PARKS AND RECREATION	Airforce Road.	1002.06400000000	1002.00000000000	3	-12.18868653800
0000	1115123		L	Crown Rese	P218319	138	I693866	LR0310200270	R 47360		N	1143.50300000000	1144.00000000000	3	-12.19170109300
0000	1115181	GOVT REQUIREMENTS		Plan	P218313	102	I584705	LR0310200234	R 47343		0	1265.37900000000	1266.00000000000	3	-12.19308748500
0000	1115091			Crown Rese	P218318	199	G308953	LR0310200328	R 44521			99.62500000000	100.00000000000	3	-12.18835327980
0000	1115112	GOVT REQUIREMENTS		Location	P218319	119	I693865	LR0310200251	R 47352		0	864.42500000000	864.00000000000	3	-12.19026826500
0000	1115190	GOVT REQUIREMENTS		Plan	P218313	125	I584705	LR0310200257	R 47353		Y	773.39000000000	773.00000000000	3	-12.19347528300
0000	11256183				P040839	333	I875001	LR0313100177	R 47638			89.99800000000	90.00000000000	3	-12.13837926000
0000	11444290				P044688	3003	J585935	LR0313600731	R 47378			81291.43700000000	81230.00000000000	3	-12.18365739970
0000	1115086			Crown Rese	P218318	189	I693866	LR0310200320	R 47376		Y	568.49900000000	569.00000000000	3	-12.18656846400
0000	1115087	GOVT REQUIREMENTS		Location	P218318	188	I693866	LR0310200319	R 47375		0	521.61600000000	522.00000000000	3	-12.18649729700
0000	1115110	RECREATION	L	Location	P218319	170	G308946	LR0307900866	R 44514			6991.72100000000	6991.00000000000	3	-12.18925486200
0000	1115107		L	Crown Rese	P218319	160	I699078	LR0310200292	R 47328		Y	1400.09600000000	1400.00000000000	3	-12.18948146400
0000	1115108	GOVT REQUIREMENTS	L	Plan	P218319	135	I693865	LR0310200267	R 47359			1106.94400000000	1107.00000000000	3	-12.18973306900
0000	1115160	PEDESTRIAN ACCESS WAY		Plan	P218315	197	G308948	LR0310200326	R 44519			164.85500000000	165.00000000000	3	-12.18597669670
0000	1115153	GOVT REQUIREMENTS		Location	P218315	156	I251070	LR0310200288	R 47371		Y	1234.53500000000	1234.00000000000	3	-12.18601195600
0000	1115088	CHURCH SITE		Location	P218318	187	H368050	LR0310200318	R 47324		Mosque	1137.35200000000	1137.00000000000	3	-12.18638980100
0000	1115099	MEMORIAL SITE		Location	P218319	221	G308949	LR0310200344	R 44526	FORESHORE PROTECTION AND NATURE CONSERVATION		15.01400000000	15.00000000000	3	-12.19042694600
0000	1115117	SCHOOL	L	Location	P218319	169	G308947	LR0310200301	R 44513	PUBLIC PURPOSE - SCHOOL	School	11433.24300000000	11433.00000000000	3	-12.19041166800
0000	1115120	GOVT REQUIREMENTS	L	Plan	P218319	139	I693866	LR0310200271	R 47361		Y	1804.56700000000	1805.00000000000	3	-12.19141714100
0000	1115172	GOVT REQUIREMENTS		Plan	P218317	132	I693865	LR0310200264	R 47358		0	1366.24800000000	1366.00000000000	3	-12.19431129000
0000	11299224				P042276	351	I930414	LR0313300568	R 47722			15406.52200000000	15365.00000000000	3	-12.13733869680
0000	1115164			Crown Rese	P218315	153	I251070	LR0310200285	R 47370		Y	1068.89900000000	1069.00000000000	3	-12.18543349480
0000	1115134	GOVT REQUIREMENTS		Plan	P218315	150	I251070	LR0310200282	R 47368		Y	999.61300000000	1000.00000000000	3	-12.18510570700
0000	1115161	GOVT REQUIREMENTS		Plan	P218315	147	I251070	LR0310200279	R 47367		Y	971.07800000000	971.00000000000	3	-12.18588690570

LOCNO	PIN	PURPOSE	ADDRESSTYP	TENURE	SURVEY		DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA	LEGAL_AREA	USAGE_CODE	CENTLAT
0000	1115158	GOVT REQUIREMENTS		Plan	P218315	143	I251070	LR0310200275	R 47364		Y	974.18600000000	974.00000000000	3	-12.18621689900
0000	1115157	TELECOMMUNICATION SITE		Location	P218315	317	G308951	LR0310200362	R 44524			911.43900000000	911.00000000000	3	-12.18636232500
0000	1115115	GOVT REQUIREMENTS		Plan	P218319	116	I693865	LR0310200248	R 47350		0	873.67700000000	874.00000000000	3	-12.19090514500
0000	1115109	GOVT REQUIREMENTS	L	Location	P218319	128	I118045	LR0312600663	R 47356			991.53800000000	991.00000000000	3	-12.18998899500
0000	1115128	GOVT REQUIREMENTS		Plan	P218319	114	I693865	LR0310200246	R 47349		0	1018.22900000000	1018.00000000000	3	-12.19132276100
0000	1115165	GOVT REQUIREMENTS		Plan	P218315	155	I251070	LR0310200287	R 47417		0	1045.86100000000	1046.00000000000	3	-12.18526545750
0000	1115155				P218315	316	G308955	LR0310200361	R 44523			6759.03300000000	6758.00000000000	3	-12.18531480700
0000	1115197			Crown Rese	P218316	222	G308952	LR0310200345	R 44522			39.37000000000	39.00000000000	3	-12.18836367400
0000	1115082			Crown Rese	P218318	184	I702117	LR0310200315	R 47418		0	15168.35400000000	15168.00000000000	3	-12.18566324600
0000	1115101	SUB STATION	L	Plan	P218319	176	I699078	LR0310200307	R 47325	PARKS AND RECREATION		129.53300000000	130.00000000000	3	-12.18888548490
0000	1115119	GOVT REQUIREMENTS	L	Location	P218319	140	I693866	LR0310200272	R 47362		Y	1261.53200000000	1262.00000000000	3	-12.19116651400
0000	1115175	SUB STATION		Location	P218313	168	I584705	LR0310200300	R 47327			74.84000000000	75.00000000000	3	-12.19207930500
0000	1115182			Crown Rese	P218313	103	I584705	LR0310200235	R 47344		0	802.30600000000	802.00000000000	3	-12.19332644700
0000	1115185	GOVT REQUIREMENTS	L	Plan	P218313	127	I584705	LR0310200259	R 47355		0	1264.60100000000	1265.00000000000	3	-12.19265019100
0000	1115194	GOVT REQUIREMENTS		Plan	P218313	131	I584705	LR0310200263	R 47357		0	1076.01100000000	1076.00000000000	3	-12.19403791600
0000	1115174	PROTECTION OF SURVEY MARK		Plan	P218317	166	G308945	LR0310200298	R 44515	FORESHORE PROTECTION AND NATURE CONSERVATION		1994.00500000000	1994.00000000000	3	-12.19546428400
0000	1303140			Vacant Cro	P194602	332	H506461	LR0311500960	LGE I1506462			49999.96600000000	50000.00000000000	4	-12.18622092300
0000	1303141			Plan	P194602	331	H506461	LR0311500959	LGE I1506462			49875.02500000000	49875.00000000000	4	-12.16814099000

LOCNO	PIN	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE_US	LGA	MANAGEMENT	MGR_NAME	GPRPFX	GPRSFX	REGION
0001	1115125	96.83211640900	1994/09/22	2010/03/11	KY		M	0000/00/00	0000/00/00	1	STPLN					Z		
0001	11444270	96.82571572190	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	1	FHOLD					C	LSD	R
0002	11444271	96.82558460920	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	1	FHOLD					P		R
0003	11444272	96.82544686510	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0004	11444273	96.82530912330	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	1	FHOLD					C	LSD	R
0005	11444274	96.82517138220	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					P		R
0006	11444275	96.82503364180	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	1	FHOLD					P		R
0007	11444276	96.82489590120	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0008	11444277	96.82475192380	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	1	FHOLD					P		R
0009	11444278	96.82456523720	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					P		R
0010	11444280	96.82469060560	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0011	11444281	96.82489480580	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0012	11444282	96.82505744650	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					P		R
0013	11444283	96.82518746190	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					P		R
0014	11444284	96.82531963940	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0015	11444285	96.82545181690	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					P		R
0016	11444286	96.82558399450	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					P		R
0017	11444287	96.82571617210	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0018	11444288	96.82585190020	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0100	1115208	96.83065878900	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115221	96.82147241600	1994/09/22	2005/09/13	KY		M	0000/00/00	2005/01/18	1	FHOLD					L	901	R
0100	1115209	96.86598214800	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115227	96.82721560900	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115228	96.82813287700	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115211	96.85584297220	1994/09/22	2010/03/11	CO		M	0000/00/00	2005/09/13	1	FHOLD					L	901	R
0100	1115219	96.82344486200	1994/09/22	2005/09/13	KY		M	0000/00/00	2005/01/18	1	FHOLD					L	901	R
0100	1115231	96.82506961300	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115230	96.82428366600	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115226	96.82815353800	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115216	96.83061538100	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	11496255	96.85645852560	2005/09/13	2010/03/11	CO		M	0000/00/00	0000/00/00	1	FHOLD							
0100	1115229	96.82447647600	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115206	96.84971866100	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115220	96.81982085800	1994/09/22	2010/03/11	CO		M	0000/00/00	1999/06/24	1	FHOLD					L	901	R
0100	1115214	96.83615303600	1994/09/22	2010/03/11	CO		M	0000/00/00	2005/01/18	1	FHOLD					L	901	R
0100	1115233	96.82280057400	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115217	96.82800891100	1994/09/22	2005/09/13	CO		M	0000/00/00	2005/01/18	1	FHOLD					L	901	R
0100	1115207	96.83119503800	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115215	96.83911392800	1994/09/22	2010/03/11	CO		M	0000/00/00	2005/01/18	1	FHOLD					L	901	R
0100	1115232	96.82369463800	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115224	96.82712617100	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0100	1115225	96.82746519200	1994/09/22	2005/09/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0101	1115591	96.83965034400	1994/09/29	2009/08/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0101	1115180	96.83181843600	1994/09/22	2002/04/10	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0101	1115180	96.83181843600	1994/09/22	2002/04/10	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0102	1115592	96.88683193300	1994/09/29	2000/03/03	CO	N	M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0102	1115590	96.88469978100	1994/09/29	2000/03/03	CO	N	O	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0102	1115181	96.83204745300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0102	1115181	96.83204745300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0103	1115182	96.83220558400	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0103	1115182	96.83220558400	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0104	1115673	96.88977072000	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115675	96.89038659400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115670	96.89305839600	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115666	96.90200502300	1994/09/29	1994/09/29	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115659	96.90555959700	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115661	96.90768146200	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115655	96.91120752500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115616	96.91496717100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115613	96.91966291100	1994/09/29	2003/09/05	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115606	96.91406812700	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115599	96.91435287400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115678	96.88824447400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115672	96.89131845900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115668	96.89553993400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115667	96.90192518800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115664	96.90206764100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115658	96.90523237700	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115653	96.91445380200	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115618	96.91742998700	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115621	96.91801213800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115620	96.91807185800	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115633	96.92104761900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115642	96.92175974100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1113734	96.90846146400	1994/09/12	2003/09/05	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1113736	96.90890124600	1994/09/12	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115608	96.91484973600	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115611	96.91579867100	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115676	96.88702286300	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115682	96.88765970300	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115686	96.88848612500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115665	96.90209745300	1994/09/29	1994/09/29	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115645	96.91847099500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R

LOCNO	PIN	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE_US	LGA	MANAGEMENT	MGR_NAME	GPRPFX	GPRSFX	REGION
0104	1115629	96.91977887900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115634	96.92266345400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1113733	96.90724698700	1994/09/12	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115594	96.90956181300	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115597	96.91268654900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115681	96.88732115600	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115689	96.88742502800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115680	96.88746507900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115674	96.89037702400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115662	96.90358288900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115654	96.91259467800	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115596	96.91098101600	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115600	96.91418317900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115601	96.91501232800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115691	96.88703925400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115688	96.88756943900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115685	96.88845161200	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115651	96.91362935700	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115615	96.91705342400	1994/09/29	2003/09/05	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115619	96.91771110900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115647	96.92050288600	1994/09/29	2011/01/14	CO	N	M	0000/00/00	2011/01/14	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115643	96.92129769400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115639	96.92292128800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115638	96.92475369300	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115636	96.92588922900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1113735	96.90749728200	1994/09/12	2003/09/05	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115595	96.90987345800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115607	96.91746197500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115693	96.90876096400	1994/09/29	2010/03/11	CO		M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115203	96.87905738000	1994/09/22	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115679	96.88753777000	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115690	96.88782346100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115687	96.88809450400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115677	96.88806466500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115671	96.89400589900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115669	96.89719976300	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115663	96.90236794300	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115650	96.91243889100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115632	96.92029309500	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115630	96.92113235500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115641	96.92253700900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1113737	96.90984093100	1994/09/12	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115593	96.91030096100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115612	96.91521935200	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115204	96.87916497300	1994/09/22	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115205	96.88377094600	1994/09/22	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115660	96.90601538000	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115656	96.91022492200	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115624	96.91557703400	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115626	96.91607198200	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115617	96.91818744600	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115649	96.92006081000	1994/09/29	2011/01/14	CO	N	O	0000/00/00	2011/01/14	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115644	96.92068868900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115631	96.92106180100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115635	96.92252491300	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115640	96.92285531800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115637	96.92300252500	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115602	96.91465377400	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115598	96.91615634500	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115605	96.91992402800	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115683	96.88766293700	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115684	96.88817192500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115692	96.88991332900	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115657	96.90939255000	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115652	96.91417253400	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115625	96.91523523000	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115623	96.91663853600	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115627	96.91719223200	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115622	96.91751077600	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115648	96.91951948200	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115646	96.91988258800	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115614	96.91823923500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115628	96.92007936100	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115610	96.91369826300	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115603	96.91528708000	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115604	96.91565970500	1994/09/29	2000/03/04	CO	N	M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115609	96.91577908500	1994/09/29	2000/03/04	CO	N	O	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
0104	1115183	96.83239386300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0104	1115183	96.83239386300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0105	1115589	96.82014187200	1994/09/29	2009/08/13	CO		M	0000/00/00	0000/00/00	1	FHOLD					L	901	R
0105	1115191	96.83267031700	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0105	1115191	96.83267031700	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0106	1115192	96.83254099900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R

LOCNO	PIN	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE_US	LGA	MANAGEMENT	MGR_NAME	GPRPFX	GPRSFX	REGION
0106	1115192	96.83254099900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0107	1115193	96.83238813000	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0107	1115193	96.83238813000	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0108	1115178	96.83211765100	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0108	1115178	96.83211765100	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0109	1115177	96.83184739800	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0109	1115177	96.83184739800	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0110	1115127	96.83164890500	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0110	1115127	96.83164890500	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0111	1115131	96.83150715900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0111	1115131	96.83150715900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0112	1115130	96.83135849500	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0112	1115130	96.83135849500	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0113	1115129	96.83121256200	1994/09/22	2002/04/10	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0113	1115129	96.83121256200	1994/09/22	2002/04/10	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0114	1115128	96.83106558700	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0114	1115128	96.83106558700	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0115	1115116	96.83090201400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0115	1115116	96.83090201400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0116	1115115	96.83075589600	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0116	1115115	96.83075589600	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0117	1115114	96.83060975800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0117	1115114	96.83060975800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0118	1115113	96.83046415400	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0118	1115113	96.83046415400	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0119	1115112	96.83031830200	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0119	1115112	96.83031830200	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0120	1115111	96.83017635200	1994/09/22	2002/04/10	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0120	1115111	96.83017635200	1994/09/22	2002/04/10	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0121	1115121	96.83179999200	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0121	1115121	96.83179999200	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0122	1115122	96.83194515900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0122	1115122	96.83194515900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0123	1115125	96.83211640900	1994/09/22	2010/03/11	KY		M	0000/00/00	0000/00/00	2	CROWN					Z		
0123	1115125	96.83211640900	1994/09/22	2010/03/11	KY		M	0000/00/00	0000/00/00	1	CROWN					Z		
0124	1115126	96.83227082600	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	C		R
0124	1115126	96.83227082600	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	C		R
0125	1115190	96.83278221200	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0125	1115190	96.83278221200	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0126	1115184	96.83279583100	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0126	1115184	96.83279583100	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0127	1115185	96.83266081800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0127	1115185	96.83266081800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0128	1115109	96.83105072300	1994/09/22	2002/06/06	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0128	1115109	96.83105072300	1994/09/22	2002/06/06	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0129	1115186	96.83283695600	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0129	1115186	96.83283695600	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0130	1115173	96.83365790300	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0130	1115173	96.83365790300	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0131	1115194	96.83326732500	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0131	1115194	96.83326732500	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0132	1115172	96.83347539100	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0132	1115172	96.83347539100	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0133	1115195	96.83348972600	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0133	1115195	96.83348972600	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0134	1115187	96.83300708500	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0134	1115187	96.83300708500	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0135	1115108	96.83089370000	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0135	1115108	96.83089370000	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0136	1115176	96.83196607400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0136	1115176	96.83196607400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0137	1115124	96.83190434400	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0137	1115124	96.83190434400	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0138	1115123	96.83176952000	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0138	1115123	96.83176952000	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0139	1115120	96.83158222500	1994/09/22	2004/01/08	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0139	1115120	96.83158222500	1994/09/22	2004/01/08	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0140	1115119	96.83141844600	1994/09/22	2004/01/08	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0140	1115119	96.83141844600	1994/09/22	2004/01/08	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0141	1115106	96.83022387500	1994/09/22	2004/03/18	KY	N	M	0000/00/00	2004/03/18	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0141	1115106	96.83022387500	1994/09/22	2004/03/18	KY	N	M	0000/00/00	2004/03/18	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0142	1115152	96.82639868800	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0142	1115152	96.82639868800	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0143	1115158	96.82623316700	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0143	1115158	96.82623316700	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0144	1115151	96.82613576800	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0144	1115151	96.82613576800	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0145	1115159	96.82600430900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0145	1115159	96.82600430900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0146	1115150	96.82589264300	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0146	1115150	96.82589264300	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0147	1115161	96.82573691720	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0147	1115161	96.82573691720	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R

LOCNO	PIN	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE_US	LGA	MANAGEMENT	MGR_NAME	GPRPFX	GPRSFX	REGION
0148	1115135	96.82553973300	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0148	1115135	96.82553973300	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0149	1115162	96.82551205900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0149	1115162	96.82551205900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0150	1115134	96.82528613400	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0150	1115134	96.82528613400	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0151	1115163	96.82529369190	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0151	1115163	96.82529369190	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0152	1115133	96.82501526700	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0152	1115133	96.82501526700	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0153	1115164	96.82505389730	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0153	1115164	96.82505389730	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0154	1115132	96.82477285700	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	2	CROWN				Cocos (Keeling) Islands Administration	C	DHA	R
0154	1115132	96.82477285700	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	1	CROWN				Cocos (Keeling) Islands Administration	C	DHA	R
0155	1115165	96.82479915980	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0155	1115165	96.82479915980	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0156	1115153	96.82672327700	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0156	1115153	96.82672327700	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0157	1115166	96.82456134730	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	C	DHA	R
0157	1115166	96.82456134730	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	C	DHA	R
0158	1115154	96.82698322400	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0158	1115154	96.82698322400	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0159	1115170	96.82690159400	1994/09/22	2006/02/08	KY		M	0000/00/00	2005/01/06	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0159	1115170	96.82690159400	1994/09/22	2006/02/08	KY		M	0000/00/00	2005/01/06	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0160	1115107	96.83069607100	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN	POLICE	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0160	1115107	96.83069607100	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN	POLICE	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0161	1115169	96.82713172900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0161	1115169	96.82713172900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0162	1115188	96.83314005500	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0162	1115188	96.83314005500	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0163	1115168	96.82736915100	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0163	1115168	96.82736915100	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0164	1115189	96.83321487600	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0164	1115189	96.83321487600	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0165	1115171	96.83384423700	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0165	1115171	96.83384423700	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0166	1115174	96.83437045700	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN			COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	S	LSD	R
0166	1115174	96.83437045700	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN			COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	S	LSD	R
0167	1115196	96.83451136650	1994/09/22	2010/02/25	KY		M	0000/00/00	2010/02/25	2	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0167	1115196	96.83451136650	1994/09/22	2010/02/25	KY		M	0000/00/00	2010/02/25	1	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0168	1115175	96.83209640900	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0168	1115175	96.83209640900	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0169	1115117	96.83096899400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN			COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	S	LSD	R
0169	1115117	96.83096899400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN			COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	S	LSD	R
0170	1115110	96.83018864100	1994/09/22	2005/01/27	KY		M	0000/00/00	2004/03/18	2	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0170	1115110	96.83018864100	1994/09/22	2005/01/27	KY		M	0000/00/00	2004/03/18	1	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0173	1115103	96.82971102300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0173	1115103	96.82971102300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0174	1115102	96.83001857800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0174	1115102	96.83001857800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0175	1115100	96.83030642800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0175	1115100	96.83030642800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0176	1115101	96.83039641240	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN					S	LSD	R
0176	1115101	96.83039641240	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN					S	LSD	R
0178	1115095	96.82891295100	1994/09/22	2005/01/27	KY		M	0000/00/00	2005/01/18	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0178	1115095	96.82891295100	1994/09/22	2005/01/27	KY		M	0000/00/00	2005/01/18	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0179	1115089	96.82857298200	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0179	1115089	96.82857298200	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0180	1115090	96.82807732000	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0180	1115090	96.82807732000	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0181	1115094	96.82905876500	1994/09/22	2007/02/01	KY		M	0000/00/00	2007/02/01	2	CROWN				Cocos (Keeling) Islands Administration	P		R
0181	1115094	96.82905876500	1994/09/22	2007/02/01	KY		M	0000/00/00	2007/02/01	1	CROWN				Cocos (Keeling) Islands Administration	P		R
0182	1115098	96.82916566400	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0182	1115098	96.82916566400	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0184	1115082	96.82752328900	1994/09/22	2005/01/27	KY		M	0000/00/00	1997/05/14	2	CROWN	GOVERNMENT REQUIREMENTS-FEDERA	SHIRE OF CHRISTMAS ISLAND		Asset Services	S	LSD	R
0184	1115082	96.82752328900	1994/09/22	2005/01/27	KY		M	0000/00/00	1997/05/14	1	CROWN	GOVERNMENT REQUIREMENTS-FEDERA	SHIRE OF CHRISTMAS ISLAND		Asset Services	S	LSD	R
0187	1115088	96.82824958900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0187	1115088	96.82824958900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0188	1115087	96.82806543600	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0188	1115087	96.82806543600	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0189	1115086	96.82794488600	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0189	1115086	96.82794488600	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0190	1115085	96.82780170500	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0190	1115085	96.82780170500	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0191	1115118	96.83161030900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0191	1115118	96.83161030900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0192	1115179	96.83239651400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	C		R
0192	1115179	96.83239651400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	C		R
0197	1115160	96.82587131270	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN			SHIRE		S	LSD	R
0197	1115160	96.82587131270	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN			SHIRE		S	LSD	R
0198	1115167	96.82443038110	1994/09/22	2006/02/08	KY		M	0000/00/00	2004/09/17	2	CROWN	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND			S	LSD	R
0198	1115167	96.82443038110	1994/09/22	2006/02/08	KY		M	0000/00/00	2004/09/17	1	CROWN	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND			S	LSD	R
0199	1115091	96.82868943210	1994/09/22	2007/02/01	KY		M	0000/00/00	2007/02/01	2	CROWN	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND			S	LSD	R

LOCNO	PIN	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE_US	LGA	MANAGEMENT	MGR_NAME	GPRPFX	GPRSFX	REGION
0199	1115091	96.82868943210	1994/09/22	2007/02/01	KY		M	0000/00/00	2007/02/01	1	CROWN	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND			S	LSD	R
0202	1115062	96.81864105100	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0202	1115062	96.81864105100	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0206	1115063	96.81893051700	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0206	1115063	96.81893051700	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0207	1115061	96.81905079200	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0207	1115061	96.81905079200	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0209	1115059	96.83397475970	1994/09/22	2005/01/18	KY		M	0000/00/00	2005/01/18	2	CROWN				Bureau of Meteorology	S	LSD	R
0209	1115059	96.83397475970	1994/09/22	2005/01/18	KY		M	0000/00/00	2005/01/18	1	CROWN				Bureau of Meteorology	S	LSD	R
0221	1115099	96.83006330170	1994/09/22	2005/01/18	KY		M	0000/00/00	0000/00/00	2	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0221	1115099	96.83006330170	1994/09/22	2005/01/18	KY		M	0000/00/00	0000/00/00	1	CROWN			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0222	1115197	96.82820509300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	2	CROWN	MEMORIAL	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0222	1115197	96.82820509300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	1	CROWN	MEMORIAL	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0313	1115148	96.82599229500	1994/09/22	2006/02/08	KY		M	0000/00/00	1997/06/24	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0313	1115148	96.82599229500	1994/09/22	2006/02/08	KY		M	0000/00/00	1997/06/24	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	R
0315	1115149	96.82605808900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	2	CROWN				Cocos (Keeling) Islands Administration	Z		R
0315	1115149	96.82605808900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	1	CROWN				Cocos (Keeling) Islands Administration	Z		R
0316	1115155	96.82643752500	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	2	CROWN					S	LSD	R
0316	1115155	96.82643752500	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	1	CROWN					S	LSD	R
0317	1115157	96.82645496400	1994/09/22	2006/02/08	KY		M	0000/00/00	2005/01/06	2	CROWN			AUST. T'COMMUNICATION COMM	Cocos (Keeling) Islands Administration	S	LSD	R
0317	1115157	96.82645496400	1994/09/22	2006/02/08	KY		M	0000/00/00	2005/01/06	1	CROWN			AUST. T'COMMUNICATION COMM	Cocos (Keeling) Islands Administration	S	LSD	R
0319	1189457	96.82916395800	1996/12/31	2005/01/27	KY		M	0000/00/00	2005/01/18	2	CROWN			COMMONWEALTH OF AUSTRALIA		S	LSD	R
0319	1189457	96.82916395800	1996/12/31	2005/01/27	KY		M	0000/00/00	2005/01/18	1	CROWN			COMMONWEALTH OF AUSTRALIA		S	LSD	R
0323	1194332	96.82724149200	1997/03/07	2005/01/27	AN	N	M	0000/00/00	2005/01/18	2	CROWN					C		R
0323	1194332	96.82724149200	1997/03/07	2005/01/27	AN	N	M	0000/00/00	2005/01/18	1	CROWN					C		R
0326	1215186	96.82126226500	1997/10/24	2003/10/07	KY	N	M	0000/00/00	1999/06/24	2	CROWN					C		R
0326	1215186	96.82126226500	1997/10/24	2003/10/07	KY	N	M	0000/00/00	1999/06/24	1	CROWN					C		R
0327	1215187	96.81959826900	1997/10/24	2005/01/27	KY	N	M	0000/00/00	1999/06/24	2	CROWN				Cocos (Keeling) Islands Administration	C		R
0327	1215187	96.81959826900	1997/10/24	2005/01/27	KY	N	M	0000/00/00	1999/06/24	1	CROWN				Cocos (Keeling) Islands Administration	C		R
0328	1215182	96.82105667000	1997/10/24	2006/02/08	KY	N	M	0000/00/00	2006/02/02	2	CROWN				Cocos (Keeling) Islands Administration	C		R
0328	1215182	96.82105667000	1997/10/24	2006/02/08	KY	N	M	0000/00/00	2006/02/02	1	CROWN				Cocos (Keeling) Islands Administration	C		R
0329	1290328	96.81994348300	1999/06/23	2005/01/27	KY		M	0000/00/00	1999/06/24	2	CROWN				Cocos (Keeling) Islands Administration	C		R
0329	1290328	96.81994348300	1999/06/23	2005/01/27	KY		M	0000/00/00	1999/06/24	1	CROWN				Cocos (Keeling) Islands Administration	C		R
0331	1303141	96.85037986100	1999/10/13	2010/03/11	AN	Y	M	0000/00/00	2000/09/29	2	CROWN					C		R
0331	1303141	96.85037986100	1999/10/13	2010/03/11	AN	Y	M	0000/00/00	2000/09/29	1	CROWN					C		R
0332	1303140	96.85525546500	1999/10/13	2010/03/11	AN	Y	M	0000/00/00	2000/09/29	2	CROWN				Cocos (Keeling) Islands Administration	C		R
0332	1303140	96.85525546500	1999/10/13	2010/03/11	AN	Y	M	0000/00/00	2000/09/29	1	CROWN				Cocos (Keeling) Islands Administration	C		R
0333	11256183	96.82233786000	2004/02/17	2005/01/18	KY		M	0000/00/00	2005/01/18	2	CROWN					S	LSD	R
0333	11256183	96.82233786000	2004/02/17	2005/01/18	KY		M	0000/00/00	2005/01/18	1	CROWN					S	LSD	R
0334	11256184	96.82358241610	2004/02/17	2010/08/02	KY		M	0000/00/00	2005/01/18	2	CROWN					S	LSD	R
0334	11256184	96.82358241610	2004/02/17	2010/08/02	KY		M	0000/00/00	2005/01/18	1	CROWN					S	LSD	R
0335	11299225	96.82333978000	2004/06/01	2005/01/18	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0336	11218848	96.82977948120	2003/11/07	2004/03/18	KY		M	0000/00/00	2004/03/18	2	CROWN	MUSEUM	SHIRE OF CHRISTMAS ISLAND		Cocos (Keeling) Islands Administration	C		T
0336	11218848	96.82977948120	2003/11/07	2004/03/18	KY		M	0000/00/00	2004/03/18	1	CROWN	MUSEUM	SHIRE OF CHRISTMAS ISLAND		Cocos (Keeling) Islands Administration	C		T
0337	11218847	96.82998588000	2003/11/07	2004/03/18	KY		M	0000/00/00	2004/03/18	2	CROWN				Cocos (Keeling) Islands Administration	S	LSD	T
0337	11218847	96.82998588000	2003/11/07	2004/03/18	KY		M	0000/00/00	2004/03/18	1	CROWN				Cocos (Keeling) Islands Administration	S	LSD	T
0338	1365196	96.89378516200	2001/07/03	2010/03/11	CO		M	0000/00/00	2002/08/22	2	CROWN			SHIRE		S	LSD	T
0338	1365196	96.89378516200	2001/07/03	2010/03/11	CO		M	0000/00/00	2002/08/22	1	CROWN			SHIRE		S	LSD	T
0339	1365195	96.89520775600	2001/07/03	2010/03/11	AN	N	M	0000/00/00	2002/08/22	2	CROWN	GARDENS	SHIRE OF COCOS KEELING ISLAND			S	LSD	T
0339	1365195	96.89520775600	2001/07/03	2010/03/11	AN	N	M	0000/00/00	2002/08/22	1	CROWN	GARDENS	SHIRE OF COCOS KEELING ISLAND			S	LSD	T
0340	11299184	96.82666761530	2004/06/01	2006/02/08	KY		M	0000/00/00	2005/01/06	1	FHOLD					C	LSD	R
0341	11299159	96.83403724330	2004/06/01	2009/05/25	KY		M	0000/00/00	2009/05/25	1	FHOLD					C	LSD	R
0342	11299160	96.84317866000	2004/06/01	2010/07/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0343	11299155	96.82771114090	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0344	11299154	96.82799666090	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0345	11299151	96.82837624160	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0346	11299152	96.82838803530	2004/06/01	2005/01/27	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	LSD	R
0347	11299153	96.82867762300	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0348	11299157	96.82920098130	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0349	11299158	96.82944908020	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0350	11299156	96.82989815430	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0351	11299224	96.82242075910	2004/06/01	2005/01/18	KY		M	0000/00/00	2005/01/18	1	FHOLD					C	LSD	R
0600	11607568	96.82886050640	2006/10/13	2007/02/01	KY		M	0000/00/00	2007/02/01	1	FHOLD					P		R
1000	1365197	96.89431586100	2001/07/03	2002/08/22	AN	N	M	0000/00/00	2002/08/22	1	FHOLD					P		T
1001	1365194	96.89430866500	2001/07/03	2002/08/22	AN	N	M	0000/00/00	2002/08/22	1	FHOLD					L	901	T
1106	1113721	96.89943384500	1994/09/12	2003/09/25	KY		M	0000/00/00	2003/09/25	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
1107	11016564	96.89370699280	2002/05/13	2003/08/12	KY		M	0000/00/00	2003/08/12	1	FHOLD					L	901	R
1108	1113731	96.88706862000	1994/09/12	2003/08/12	CO		M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
1109	1113730	96.88808860000	1994/09/12	2003/08/12	CO		M	0000/00/00	0000/00/00	1	FHOLD				Cocos (Keeling) Islands Shire	L	901	R
3003	11444290	96.82424531220	2005/05/11	2007/07/27	KY		M	0000/00/00	2007/07/27	1	FHOLD					C	LSD	R
3004	11444293	96.82607378770	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	1	FHOLD					C	PLV	R
3005	11444289	96.82633623860	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	1	FHOLD					C	PLV	R
3006	11444279	96.82462096230	2005/05/11	2006/02/08	KY		M	0000/00/00	0000/00/00	1	FHOLD					C	PAW	R
0000	11848299	96.84524997480	2009/10/09	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	1115059	96.83397475970	1994/09/22	2005/01/18	KY		M	0000/00/00	2005/01/18	3	RESVE				Bureau of Meteorology	S	LSD	R
0000	1365195	96.89520775600	2001/07/03	2010/03/11	AN	N	M	0000/00/00	2002/08/22	3	RESVE	GARDENS	SHIRE OF COCOS KEELING ISLAND			S	LSD	T
0000	11299160	96.84317866000	2004/06/01	2010/07/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	11256184	96.82358241610	2004/02/17	2010/08/02	KY		M	0000/00/00	2005/01/18	3	RESVE					S	LSD	R
0000	11299159	96.83403724330	2004/06/01	2009/05/25	KY		M	0000/00/00	2009/05/25	3	RESVE					C	LSD	R
0000	11299225	96.82333978000	2004/06/01	2005/01/18	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	1115061	96.81905079200	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	3	OTHER				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1215182	96.82105667000	1997/10/24	2006/02/08	KY	N	M	0000/00/00	2006/02/02	3	OTHER				Cocos (Keeling) Islands Administration	C		R
0000	11826091	96.86087256810	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							

LOCNO	PIN	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE_US	LGA	MANAGEMENT	MGR_NAME	GPRPFX	GPRSFX	REGION
0000	11826090	96.85866985280	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11299154	96.82799666090	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	11299155	96.82771114090	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	11299158	96.82944908020	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	11299157	96.82920098130	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	11299156	96.82989815430	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	1115167	96.82443038110	1994/09/22	2006/02/08	KY		M	0000/00/00	2004/09/17	3	RESVE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND			S	LSD	R
0000	11299151	96.82837624160	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	1115196	96.83451136650	1994/09/22	2010/02/25	KY		M	0000/00/00	2010/02/25	3	RESVE			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0000	1215186	96.82126226500	1997/10/24	2003/10/07	KY	N	M	0000/00/00	1999/06/24	3	OTHER					C		R
0000	1115062	96.81864105100	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	3	OTHER				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1290328	96.81994348300	1999/06/23	2005/01/27	KY		M	0000/00/00	1999/06/24	3	OTHER				Cocos (Keeling) Islands Administration	C		R
0000	1215187	96.81959826900	1997/10/24	2005/01/27	KY	N	M	0000/00/00	1999/06/24	3	OTHER				Cocos (Keeling) Islands Administration	C		R
0000	1115063	96.81893051700	1994/09/22	2009/01/14	KY	N	M	0000/00/00	0000/00/00	3	OTHER				Cocos (Keeling) Islands Administration	S	LSD	R
0000	11218848	96.82977948120	2003/11/07	2004/03/18	KY		M	0000/00/00	2004/03/18	3	OTHER	MUSEUM	SHIRE OF CHRISTMAS ISLAND		Cocos (Keeling) Islands Administration	C		T
0000	11826040	96.82859973490	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11016562	96.89382959000	2002/05/13	2003/08/12	KY		M	0000/00/00	2003/08/12	3	ROAD				Cocos (Keeling) Islands Shire			
0000	1215181	96.82030186100	1997/10/24	2009/05/25	KY		M	0000/00/00	1999/06/24	3	ROAD				Cocos (Keeling) Islands Shire			
0000	11826038	96.82791867140	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826046	96.83086146350	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11825974	96.82168546710	2009/05/21	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11825976	96.82035303040	2009/05/21	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826041	96.82967060950	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826045	96.83224494960	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826042	96.83152840700	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826044	96.83318292110	2009/05/25	0000/00/00	AN	Y	M	0000/00/00	0000/00/00	3	ROAD							
0000	1291302	96.83968549300	1999/07/01	2005/01/18	CO		M	0000/00/00	2005/01/18	3	ROAD				Cocos (Keeling) Islands Shire			
0000	11826094	96.82148857760	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826095	96.82571638710	2009/05/25	0000/00/00	AN	Y	M	0000/00/00	0000/00/00	3	ROAD							
0000	11826093	96.82629960640	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826037	96.82897010510	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826047	96.83230957250	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11825975	96.82122485240	2009/05/21	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826092	96.82605096210	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11016563	96.89360531000	2002/05/13	2003/08/12	KY		M	0000/00/00	2003/08/12	3	ROAD				Cocos (Keeling) Islands Shire			
0000	1215184	96.82072131720	1997/10/24	2009/05/25	KY		M	0000/00/00	1999/06/24	3	ROAD							
0000	11444291	96.82599262140	2005/05/11	2006/02/08	KY		M	0000/00/00	2006/02/02	3	ROAD							
0000	11826039	96.82818457880	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826152	96.82984241580	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	11826043	96.83399742810	2009/05/25	0000/00/00	CO		M	0000/00/00	0000/00/00	3	ROAD							
0000	1115150	96.82589264300	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115151	96.82613576800	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115170	96.82690159400	1994/09/22	2006/02/08	KY		M	0000/00/00	2005/01/06	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115089	96.82857298200	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115098	96.82916566400	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115178	96.83211765100	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115183	96.83239386300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1365196	96.89378516200	2001/07/03	2010/03/11	CO		M	0000/00/00	2002/08/22	3	RESVE			SHIRE		S	LSD	T
0000	1115163	96.82529369190	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115148	96.82599229500	1994/09/22	2006/02/08	KY		M	0000/00/00	1997/06/24	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	11299153	96.82867762300	2004/06/01	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	1115106	96.83022387500	1994/09/22	2004/03/18	KY	N	M	0000/00/00	2004/03/18	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115131	96.83150715900	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115184	96.83279583100	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	11299184	96.82666761530	2004/06/01	2006/02/08	KY		M	0000/00/00	2005/01/06	3	RESVE					C	LSD	R
0000	11299152	96.82838803530	2004/06/01	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE					C	LSD	R
0000	1115095	96.82891295100	1994/09/22	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1189457	96.82916395800	1996/12/31	2005/01/27	KY		M	0000/00/00	2005/01/18	3	RESVE			COMMONWEALTH OF AUSTRALIA		S	LSD	R
0000	11218847	96.82998588000	2003/11/07	2004/03/18	KY		M	0000/00/00	2004/03/18	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	T
0000	1115100	96.83030642800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115123	96.83176952000	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115181	96.83204745300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115091	96.82868943210	1994/09/22	2007/02/01	KY		M	0000/00/00	2007/02/01	3	RESVE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND			S	LSD	R
0000	1115112	96.83031830200	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115190	96.83278221200	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	11256183	96.82233786000	2004/02/17	2005/01/18	KY		M	0000/00/00	2005/01/18	3	RESVE					S	LSD	R
0000	11444290	96.82424531220	2005/05/11	2007/07/27	KY		M	0000/00/00	2007/07/27	3	RESVE					C	LSD	R
0000	1115086	96.82794488600	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115087	96.82806543600	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115110	96.83018864100	1994/09/22	2005/01/27	KY		M	0000/00/00	2004/03/18	3	RESVE			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115107	96.83069607100	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE	POLICE	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115108	96.83089370000	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115160	96.82587131270	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE			SHIRE		S	LSD	R
0000	1115153	96.82672327700	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115088	96.82824958900	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115099	96.83006330170	1994/09/22	2005/01/18	KY		M	0000/00/00	0000/00/00	3	RESVE			SHIRE	Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115117	96.83096899400	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	3	RESVE			COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115120	96.83158222500	1994/09/22	2004/01/08	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115172	96.83347539100	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	11299224	96.82242075910	2004/06/01	2005/01/18	KY		M	0000/00/00	2005/01/18	3	RESVE					C	LSD	R
0000	1115164	96.82505389730	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115134	96.82528613400	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115161	96.82573691720	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R

LOCNO	PIN	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE_US	LGA	MANAGEMENT	MGR_NAME	GPRPFX	GPRSFX	REGION
0000	1115158	96.82623316700	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115157	96.82645496400	1994/09/22	2006/02/08	KY		M	0000/00/00	2005/01/06	3	RESVE			AUST. T'COMMUNICATION COMM	Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115115	96.83075589600	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115109	96.83105072300	1994/09/22	2002/06/06	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115128	96.83106558700	1994/09/22	2004/01/07	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115165	96.82479915980	1994/09/22	2006/02/08	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115155	96.82643752500	1994/09/22	2006/02/08	KY		M	0000/00/00	2006/02/02	3	RESVE					S	LSD	R
0000	1115197	96.82820509300	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE	MEMORIAL	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115082	96.82752328900	1994/09/22	2005/01/27	KY		M	0000/00/00	1997/05/14	3	RESVE	GOVERNMENT REQUIREMENTS-FEDERA	SHIRE OF CHRISTMAS ISLAND		Asset Services	S	LSD	R
0000	1115101	96.83039641240	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE					S	LSD	R
0000	1115119	96.83141844600	1994/09/22	2004/01/08	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115175	96.83209640900	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115182	96.83220558400	1994/09/22	2003/10/09	KY	N	M	0000/00/00	0000/00/00	3	RESVE	GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND		Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115185	96.83266081800	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115194	96.83326732500	1994/09/22	2005/01/27	KY		M	0000/00/00	0000/00/00	3	RESVE				Cocos (Keeling) Islands Administration	S	LSD	R
0000	1115174	96.83437045700	1994/09/22	1996/12/31	KY	N	M	0000/00/00	0000/00/00	3	RESVE			COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	S	LSD	R
0000	1303140	96.85525546500	1999/10/13	2010/03/11	AN	Y	M	0000/00/00	2000/09/29	3	LEASE				Cocos (Keeling) Islands Administration	C		R
0000	1303141	96.85037986100	1999/10/13	2010/03/11	AN	Y	M	0000/00/00	2000/09/29	3	LEASE					C		R

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0001	11444270	6799	WEST ISLAND COCOS (KEELIN
0002	11444271	6799	WEST ISLAND COCOS (KEELIN
0003	11444272	6799	WEST ISLAND COCOS (KEELIN
0004	11444273	6799	WEST ISLAND COCOS (KEELIN
0005	11444274	6799	WEST ISLAND COCOS (KEELIN
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0122	1115122	6799	WEST ISLAND COCOS (KEELIN
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0349	11299158		
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0351	11299224		
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1001	1365194	6799	HOME ISLAND COCOS (KEELIN
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0000	1115107	6799	WEST ISLAND COCOS (KEELIN
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0000	1115119	6799	WEST ISLAND COCOS (KEELIN
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0000	1303141		

LOCNO_STR	PIN	LOT_NO	DIAGRAM	PURPOSE	SURVEY		PIPARCEL		PLAN	CALC_AREA	LEGAL_AREA
0001	11204434	1	JALAN BUNGA MAWAR		P018504	1	P018504	1	HOUSE 117	716.93000000000	717.00000000000
0001	11204608	55	Co-op building. JALAN MELATI		P019715	1	P019715	55	1047.12	298.48300000000	298.00000000000
0001	11204532	1	JALAN BUNGA KANGKONG				P018506	1	HOUSE 168	448.06000000000	448.00000000000
0001	11204487	1	JALAN BUNGA KANGKONG				P018505	1	HOUSE 161	463.49600000000	464.00000000000
0002	11204486	2	JALAN BUNGA KANGKONG				P018505	2	HOUSE 155	241.40400000000	241.00000000000
0002	11204533	2	JALAN BUNGA KANGKONG				P018506	2	HOUSE 175	221.60700000000	222.00000000000
0002	11204435	2	JALAN BUNGA MAWAR		P018504	2	P018504	2	HOUSE 122	380.42200000000	380.00000000000
0018	11204599	18			P019715	18	P019715	18	19715	3613.82700000000	3617.00000000000
0025	11203797	25			P018530	25	P018530	25		23037.33500000000	23286.00000000000
0027	11203795	27			P018529	27	P018529	27	18529	28716.62400000000	29190.00000000000
0029	11203799	29			P018531	29	P018531	29	18531	74545.05400000000	74545.00000000000
0030	11203788	30			P018528	30	P018528	30	18528	3281.55600000000	3283.00000000000
0033	11203786	33	18523		P018523	33	P018523	33	RAAF RECEIVER SITE	180539.16200000000	180526.00000000000
0038	11204539	38	NURSES HOUSE		P018511	38	P018511	38	1200.043	1200.05600000000	1200.00000000000
0039	11204541	39	JALAN MASJID		P018512	39	P018512	39	Medical Centre	2599.85300000000	2600.00000000000
0040	11204543	40			P018513	40	P018513	40	18513	653.36300000000	654.00000000000
0041	11204545	41	18514		P018514	41	P018514	41	PRIMARY SCHOOL	10540.88500000000	10540.00000000000
0043	11203766	43			P018518	43	P018518	43	18524	14638.20700000000	14639.00000000000
0043	11203767	43			P018518	43	P018518	43	18524	7941.30500000000	7941.00000000000
0101	11204410	101	JALAN PANTAI		P018504	101	P018504	101	HOUSE 101	1013.70800000000	1013.00000000000
0102	11204411	102	JALAN PANTAI	GOVT REQUIREMENTS	P018504	102	P018504	102	HOUSE 102	867.87600000000	867.00000000000
0103	11204412	103	JALAN PANTAI	GOVT REQUIREMENTS	P018504	103	P018504	103	HOUSE 103	922.29500000000	922.00000000000
0104	11204413	104	JALAN PANTAI	GOVT REQUIREMENTS	P018504	104	P018504	104	HOUSE 104	896.82700000000	896.00000000000
0105	11204414	105	JALAN PANTAI		P018504	105	P018504	105	HOUSE 105	929.98300000000	929.00000000000
0106	11204415	106	JALAN PANTAI		P018504	106	P018504	106	HOUSE 106	932.06100000000	932.00000000000
0107	11204416	107	JALAN PANTAI		P018504	107	P018504	107	HOUSE 107	904.35400000000	904.00000000000
0108	11204417	108	JALAN PANTAI	GOVT REQUIREMENTS	P018504	108	P018504	108	HOUSE 108	931.20400000000	931.00000000000
0109	11204418	109	JALAN PANTAI		P018504	109	P018504	109	HOUSE 109	964.56200000000	964.00000000000
0110	11204419	110	JALAN PANTAI		P018504	110	P018504	110	HOUSE 110	933.64200000000	933.00000000000
0111	11204420	111	JALAN PANTAI	GOVT REQUIREMENTS	P018504	111	P018504	111	HOUSE 111	935.20400000000	935.00000000000
0112	11204421	112	JALAN PANTAI		P018504	112	P018504	112	HOUSE 112	1030.03500000000	1030.00000000000
0113	11204422	113	JALAN BUNGA MAWAR		P018504	113	P018504	113	house 113	1014.72000000000	1014.00000000000
0114	11204423	114	JALAN BUNGA MAWAR	GOVT REQUIREMENTS	P018504	114	P018504	114	house 114	904.14700000000	904.00000000000
0115	11204424	115	JALAN BUNGA MAWAR		P018504	115	P018504	115	HOUSE 115	890.53100000000	890.00000000000
0116	11204425	116	JALAN BUNGA MAWAR	GOVT REQUIREMENTS	P018504	116	P018504	116	HOUSE 116	917.52700000000	917.00000000000
0117	11204426	117	JALAN BUNGA MAWAR		P018504	117	P018504	117	HOUSE 117	986.22000000000	986.00000000000
0118	11204427	118	JALAN BUNGA MAWAR		P018504	118	P018504	118	HOUSE 118	903.24400000000	903.00000000000
0119	11204428	119	JALAN BUNGA MAWAR	GOVT REQUIREMENTS	P018504	119	P018504	119	HOUSE 119	913.07600000000	913.00000000000
0120	11204429	120	JALAN BUNGA MAWAR		P018504	120	P018504	120	HOUSE 120	930.93100000000	931.00000000000
0121	11204430	121	JALAN BUNGA MAWAR		P018504	121	P018504	121	HOUSE 121	955.73100000000	955.00000000000
0122	11204431	122	JALAN BUNGA MAWAR		P018504	122	P018504	122	HOUSE 122	920.54800000000	920.00000000000
0123	11204432	123	JALAN BUNGA MAWAR		P018504	123	P018504	123	HOUSE 123	911.58200000000	911.00000000000
0124	11204433	124	JALAN BUNGA MAWAR		P018504	124	P018504	124	HOUSE 124	1026.89600000000	1026.00000000000
0125	11204492	125	JALAN KIPAS	GOVT REQUIREMENTS	P018506	125	P018506	125	HOUSE 125	784.88800000000	784.00000000000
0126	11204493	126	JALAN KIPAS	GOVT REQUIREMENTS	P018506	126	P018506	126	HOUSE 126	800.01000000000	799.00000000000
0127	11204494	127	JALAN KIPAS	GOVT REQUIREMENTS	P018506	127	P018506	127	HOUSE 127	713.29100000000	713.00000000000
0128	11204495	128	JALAN KIPAS	GOVT REQUIREMENTS	P018506	128	P018506	128	HOUSE 128	755.98400000000	755.00000000000
0129	11204446	129	JALAN KEMBANG MOLOK		P018505	129	P018505	129	HOUSE 129	720.72700000000	720.00000000000
0130	11204447	130	JALAN KEMBANG MOLOK		P018505	130	P018505	130	HOUSE 130	638.88000000000	638.00000000000
0131	11204448	131	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018505	131	P018505	131	HOUSE 131	693.41200000000	693.00000000000
0132	11204449	132	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018505	132	P018505	132	HOUSE 132	690.93300000000	690.00000000000
0133	11204450	133	JALAN KEMBANG MOLOK		P018505	133	P018505	133	HOUSE 133	687.52000000000	687.00000000000
0134	11204451	134	JALAN KEMBANG MOLOK		P018505	134	P018505	134	HOUSE 134	634.36500000000	634.00000000000
0135	11204452	135	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018505	135	P018505	135	HOUSE 135	685.41500000000	685.00000000000
0136	11204453	136	JALAN KEMBANG MOLOK		P018505	136	P018505	136	HOUSE 136	671.62300000000	671.00000000000
0137	11204454	137	JALAN KEMBANG MOLOK		P018505	137	P018505	137	HOUSE 137	654.56200000000	654.00000000000
0138	11204455	138	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018505	138	P018505	138	HOUSE 138	679.42700000000	679.00000000000
0139	11204456	139	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018505	139	P018505	139	HOUSE 139	645.53000000000	645.00000000000
0140	11204457	140	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018505	140	P018505	140	HOUSE 140	745.77000000000	745.00000000000
0141	11204496	141	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018506	141	P018506	141	HOUSE 141	713.96700000000	714.00000000000
0142	11204497	142	JALAN KEMBANG MOLOK		P018506	142	P018506	142	HOUSE 142	684.90600000000	684.00000000000
0143	11204498	143	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018506	143	P018506	143	HOUSE 143	660.45500000000	660.00000000000
0144	11204499	144	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018506	144	P018506	144	HOUSE 144	671.58800000000	671.00000000000
0145	11204500	145	JALAN KEMBANG MOLOK		P018506	145	P018506	145	HOUSE 145	679.87400000000	679.00000000000
0146	11204501	146	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018506	146	P018506	146	HOUSE 146	685.01900000000	685.00000000000
0147	11204502	147	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018506	147	P018506	147	HOUSE 147	683.74500000000	683.00000000000
0148	11204503	148	JALAN KEMBANG MOLOK		P018506	148	P018506	148	HOUSE 148	668.56900000000	668.00000000000
0149	11204504	149	JALAN KEMBANG MOLOK		P018506	149	P018506	149	HOUSE 149	712.20000000000	711.00000000000
0150	11204505	150		GOVT REQUIREMENTS	P018506	150	P018506	150	18506	665.68800000000	665.00000000000
0151	11204506	151	JALAN KEMBANG MOLOK	GOVT REQUIREMENTS	P018506	151	P018506	151	HOUSE 151	702.13200000000	701.00000000000
0152	11204507	152	JALAN KEMBANG MOLOK		P018506	152	P018506	152	HOUSE 152	733.00900000000	732.00000000000
0153	11204458	153	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	153	P018505	153	HOUSE 153	743.45900000000	743.00000000000
0154	11204459	154	JALAN BUNGA KANGKONG		P018505	154	P018505	154	HOUSE 154	701.93200000000	701.00000000000
0155	11204460	155	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	155	P018505	155	HOUSE 155	709.70700000000	709.00000000000
0156	11204461	156	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	156	P018505	156	HOUSE 156	763.69000000000	763.00000000000
0157	11204462	157	JALAN BUNGA KANGKONG		P018505	157	P018505	157	HOUSE 157	728.36700000000	728.00000000000
0158	11204463	158	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	158	P018505	158	HOUSE 158	678.58600000000	678.00000000000
0159	11204464	159	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	159	P018505	159	HOUSE 159	682.24300000000	682.00000000000
0160	11204465	160	JALAN BUNGA KANGKONG	POLICE STATION	P018505	160	P018505	160	house 160	684.05800000000	684.00000000000
0161	11204466	161	JALAN BUNGA KANGKONG		P018505	161	P018505	161	HOUSE 161	688.83400000000	688.00000000000
0162	11204467	162	JALAN BUNGA KANGKONG		P018505	162	P018505	162	HOUSE 162	702.73900000000	702.00000000000
0163	11204468	163	JALAN BUNGA KANGKONG		P018505	163	P018505	163	HOUSE 163	678.71600000000	678.00000000000
0164	11204469	164	JALAN BUNGA KANGKONG		P018505	164	P018505	164	HOUSE 164	754.41200000000	754.00000000000

LOCNO_STR	PIN	LOT_NO	DIAGRAM	PURPOSE	SURVEY		PIPARCEL		PLAN	CALC_AREA	LEGAL_AREA
0165	11204508	165	JALAN BUNGA KANGKONG		P018506	165	P018506	165	HOUSE 165	686.56900000000	687.00000000000
0166	11204509	166	JALAN BUNGA KANGKONG	PROTECTION OF SURVEY MARK	P018506	166	P018506	166	HOUSE 166	670.00800000000	669.00000000000
0167	11204510	167	JALAN BUNGA KANGKONG	RECREATION & FORESHORE M'MENT	P018506	167	P018506	167	HOUSE 167	694.98200000000	694.00000000000
0168	11204511	168	JALAN BUNGA KANGKONG	SUB STATION	P018506	168	P018506	168	HOUSE 168	671.69500000000	671.00000000000
0169	11204512	169	JALAN BUNGA KANGKONG	SCHOOL	P018506	169	P018506	169	HOUSE 169	676.98000000000	676.00000000000
0170	11204513	170	JALAN BUNGA KANGKONG	RECREATION	P018506	170	P018506	170	HOUSE 170	694.37900000000	694.00000000000
0171	11204514	171	JALAN BUNGA KANGKONG		P018506	171	P018506	171	HOUSE 171	665.42500000000	665.00000000000
0172	11204515	172	JALAN BUNGA KANGKONG		P018506	172	P018506	172	HOUSE 172	721.57300000000	721.00000000000
0173	11204516	173	JALAN BUNGA KANGKONG		P018506	173	P018506	173	HOUSE 173	695.71500000000	695.00000000000
0174	11204517	174	JALAN BUNGA KANGKONG		P018506	174	P018506	174	HOUSE 174	660.85400000000	660.00000000000
0175	11204518	175	JALAN BUNGA KANGKONG	RECREATION	P018506	175	P018506	175	HOUSE 175	678.11600000000	678.00000000000
0176	11204519	176	JALAN BUNGA KANGKONG	SUB STATION	P018506	176	P018506	176	HOUSE 176	766.09100000000	766.00000000000
0177	11204470	177	JALAN BUNGA KANGKONG		P018505	177	P018505	177	HOUSE 177	742.51200000000	742.00000000000
0178	11204471	178	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	178	P018505	178	HOUSE 178	686.47400000000	686.00000000000
0179	11204472	179	JALAN BUNGA KANGKONG	RECREATION	P018505	179	P018505	179	HOUSE 179	686.47400000000	686.00000000000
0180	11204473	180	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	180	P018505	180	HOUSE 180	686.46900000000	686.00000000000
0181	11204474	181	JALAN BUNGA KANGKONG		P018505	181	P018505	181	HOUSE 181	686.26400000000	686.00000000000
0182	11204475	182	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	182	P018505	182	HOUSE 182	686.46800000000	686.00000000000
0183	11204476	183	JALAN BUNGA KANGKONG		P018505	183	P018505	183	HOUSE 183	686.23800000000	686.00000000000
0184	11204477	184	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018505	184	P018505	184	HOUSE 184	720.06900000000	720.00000000000
0185	11204520	185	JALAN BUNGA KANGKONG		P018506	185	P018506	185	HOUSE 185	693.93800000000	694.00000000000
0186	11204521	186	JALAN BUNGA KANGKONG		P018506	186	P018506	186	HOUSE 186	742.56800000000	742.00000000000
0187	11204522	187	JALAN BUNGA KANGKONG	CHURCH SITE	P018506	187	P018506	187	HOUSE 187	686.30600000000	686.00000000000
0188	11204523	188	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018506	188	P018506	188	HOUSE 188	686.30600000000	686.00000000000
0189	11204524	189	JALAN BUNGA KANGKONG	GOVT REQUIREMENTS	P018506	189	P018506	189	HOUSE 189	686.28200000000	686.00000000000
0190	11204525	190	JALAN BUNGA KANGKONG		P018506	190	P018506	190	HOUSE 190	686.28200000000	686.00000000000
0191	11204526	191	JALAN BUNGA KANGKONG		P018506	191	P018506	191	HOUSE 191	686.30500000000	686.00000000000
0192	11204527	192	JALAN BUNGA KANGKONG		P018506	192	P018506	192	HOUSE 192	692.21300000000	692.00000000000
0193	11204528	193	JALAN BUNGA KANGKONG		P018506	193	P018506	193	HOUSE 193	710.11800000000	710.00000000000
0194	11204529	194	JALAN BUNGA KANGKONG		P018506	194	P018506	194	HOUSE 194	710.14400000000	710.00000000000
0195	11204530	195	JALAN BUNGA KANGKONG		P018506	195	P018506	195	HOUSE 195	710.17900000000	710.00000000000
0196	11204531	196	JALAN BUNGA KANGKONG		P018506	196	P018506	196	HOUSE 196	710.15500000000	710.00000000000
0197	11204478	197	Fire station	PEDESTRIAN ACCESS WAY	P018505	197	P018505	197	682.03	681.98600000000	682.00000000000
0198	11204479	198		PEDESTRIAN ACCESS WAY	P018505	198	P018505	198	18505	682.23700000000	682.00000000000
0199	11204480	199		PEDESTRIAN ACCESS WAY	P018505	199	P018505	199	18505	681.99600000000	682.00000000000
0200	11204481	200			P018505	200	P018505	200	18505	682.23600000000	682.00000000000
0201	11204482	201			P018505	201	P018505	201	18505	681.98800000000	682.00000000000
0202	11204483	202			P018505	202	P018505	202	18505	682.21300000000	682.00000000000
0203	11204484	203			P018505	203	P018505	203	18505	682.01300000000	682.00000000000
0204	11204485	204			P018505	204	P018505	204	18505	681.90900000000	682.00000000000
0207	11204406	207	84541		D084541	207	D084541	207		899.99700000000	900.00000000000
0208	11204621	208			P019717	208	P019717	208	19717	17465.58800000000	17461.00000000000
0209	11204623	209		METEOROLOGY STATION	P019717	209	P019717	209	19717	18660.14800000000	18661.00000000000
0210	11204622	210	19717		P019717	210	P019717	210	MEDICAL CENTRE	3835.17800000000	3835.00000000000
0211	11204549	211	Nurses house		P019712	211	P019712	211	1200.069	1200.04000000000	1200.00000000000
0212	11204629	212		GOVT REQUIREMENTS	P019718	212	P019718	212	19718	687.14900000000	687.00000000000
0213	11204630	213			P019718	213	P019718	213	19718	685.71000000000	685.00000000000
0214	11204631	214			P019718	214	P019718	214	19718	683.45300000000	684.00000000000
0215	11204632	215			P019718	215	P019718	215	19718	681.81100000000	682.00000000000
0215	11203778	215	18519		P018519	215	P018519	215	AIRFORCE ROAD	3586.96700000000	3397.00000000000
0216	11203777	216	AIRFORCE ROAD		P018519	216	P018519	216	SCOUT PARK	2396.83500000000	2400.00000000000
0216	11204633	216			P019718	216	P019718	216	19718	679.75100000000	680.00000000000
0217	11204634	217			P019718	217	P019718	217	19718	678.36100000000	678.00000000000
0217	11203776	217			P018519	217	P018519	217	18500	33.98600000000	34.00000000000
0218	11204635	218			P019718	218	P019718	218	19718	676.09700000000	676.00000000000
0219	11204636	219			P019718	219	P019718	219	19718	674.65100000000	674.00000000000
0219	11203791	219	HORTICULTURAL BLOCK		P018520	219	P018520	219	41170.58	41170.54700000000	41177.00000000000
0220	11203790	220	Mahoon Road		P018520	220	P018520	220	Horticulture block	27060.39300000000	27061.00000000000
0220	11204637	220			P019718	220	P019718	220	19718	687.60300000000	688.00000000000
0221	11204638	221		MEMORIAL SITE	P019718	221	P019718	221	19718	691.26200000000	691.00000000000
0222	11204639	222		MEMORIAL SITE	P019718	222	P019718	222	19718	695.19400000000	695.00000000000
0223	11204618	223			P019716	223	P019716	223	19716	3041.01100000000	3040.00000000000
0223	11203686	223			P018517	223	P018517	223		59579.80400000000	59580.00000000000
0224	11203668	224	TOURIST SITE		D084545	224	D084545	224	TRANNIES BEACH	60955.77900000000	60964.00000000000
0224	11204617	224			P019716	224	P019716	224	19716	56.84100000000	57.00000000000
0225	11204586	225			P019713	225	P019713	225	19713	4658.59900000000	4657.00000000000
0225	11203673	225	HEARTBREAK DRIVE		P018516	225	P018516	225	TRANNIES BEACH	54180.18100000000	52700.00000000000
0226	11203768	226			P018518	226	P018518	226		149.55200000000	150.00000000000
0226	11204588	226			P019713	226	P019713	226	19713	441.53200000000	441.00000000000
0226	11203769	226	WATER FRONTAGE - BOATING PURPOSES. SEE ALSO PIN 1115080 (P018518 226 IS COMPRISED OF TWO PARCELS)		P018518	226	P018518	226	RUMAH BARU	2061.69200000000	2250.00000000000
0227	11204587	227			P019713	227	P019713	227	19713	821.92000000000	822.00000000000
0227	11203647	227	84542		D084542	227	D084542	227		21015.55600000000	21016.00000000000
0228	11203782	228			P018519	228	P018519	228	18500	71.99900000000	72.00000000000
0228	11204589	228	19713		P019713	228	P019713	228	Jalan Masjid	2660.03500000000	2659.00000000000
0229	11204590	229	19713		P019713	229	P019713	229	JALAN BUNGA MAWAR	914.69900000000	916.00000000000
0230	1294099	230			D087096	230	D087096	230		18182.12900000000	18182.00000000000
0230	11204591	230			P019713	230	P019713	230	19713	5153.51200000000	5153.00000000000
0231	11204592	231			P019713	231	P019713	231	19713	1201.29300000000	1201.00000000000
0232	11204598	232			P019715	232	P019715	232	19715	3428.14000000000	3428.00000000000
0233	11204578	233			P019712	233	P019712	233		2449.42400000000	2449.00000000000
0234	11204616	234			P019716	234	P019716	234	19716	4196.15400000000	4195.00000000000
0236	11204624	236			P019717	236	P019717	236	19717	128.76800000000	129.00000000000
0237	11204595	237	3467.82		P019714	237	P019714	237	Y	3467.87000000000	3468.00000000000

LOCNO_STR	PIN	LOT_NO	DIAGRAM	PURPOSE	SURVEY	PIPARCEL	PLAN	CALC_AREA	LEGAL_AREA
0239	11204644	239			P019940 239	P019940 239		1151.38200000000	1151.00000000000
0240	11204606	240			P019715 240	P019715 240	19715	648.11500000000	648.00000000000
0241	11204607	241	Co-op Bulk Rice Store. JALAN MELATAI/JALAN JUKON		P019715 241	P019715 241	357.217	357.20800000000	357.00000000000
0242	11204642	242			P019940 242	P019940 242	242	2489.46800000000	2500.00000000000
0243	11204609	243	Co-op hardware store. JALAN MELATI		P019715 243	P019715 243	1093.957	1093.97600000000	1094.00000000000
0244	11204611	244			P019715 244	P019715 244	19715	59.23200000000	59.00000000000
0245	11204610	245	Co-op building. JALAN MELATI		P019715 245	P019715 245	1047.12	1047.10500000000	1047.00000000000
0246	11204548	246			P019712 246	P019712 246	19712	254.52300000000	255.00000000000
0247	11204600	247	19715		P019715 247	P019715 247	Co-op Timber Store. JALAN MELATI/JALAN SEMPIT	669.37100000000	669.00000000000
0248	11204601	248	19715		P019715 248	P019715 248	NEW POWER STATION	1526.82200000000	1527.00000000000
0249	11204604	249	19715		P019715 249	P019715 249	Plant shed / workshop. JALAN MELATI	466.61800000000	467.00000000000
0250	11204603	250	19715		P019715 250	P019715 250	Workshop. JALAN MELATI	292.32200000000	292.00000000000
0251	11204605	251	19715		P019715 251	P019715 251	Gas Bottle & Diesel Storage Shed. JALAN SEMPIT	393.80700000000	394.00000000000
0253	11204602	253			P019715 253	P019715 253	19715	909.09000000000	909.00000000000
0254	11204673	254			P019942 254	P019942 254	19942	9467.41100000000	9468.00000000000
0255	11204408	255	84544		D084544 255	D084544 255		1702.69300000000	1703.00000000000
0256	11204643	256			P019940 256	P019940 256	19440	3215.40300000000	3215.00000000000
0256	11204671	256			P019941 256	P019941 256	18500	8936.22500000000	8933.00000000000
	11203801	229			COCOSL 00229	COCOSL 00229		6796.91700000000	6797.00000000000
	11203801	229				P019943 229		6796.91700000000	6797.00000000000
	11203793	0				P ROAD		2066.33500000000	2066.00000000000
	11204571	0				P ROAD		625.93600000000	626.00000000000
	11204551	0				P ROAD		2260.52200000000	2260.00000000000
	11204569	0				P ROAD		1861.06900000000	1861.00000000000
	11204670	0				P ROAD		14957.37800000000	14957.00000000000
	11203809	0				P ROAD		8785.06800000000	8785.00000000000
	11203687	0				P ROAD		28465.58700000000	28466.00000000000
	11203773	0				P ROAD		759.11300000000	759.00000000000
	11204596	0				P ROAD		12667.04700000000	12665.00000000000
	11204667	0				P ROAD		1089.12600000000	1089.00000000000
	11204669	0				P ROAD		1839.49700000000	1839.00000000000
	11204552	0				P ROAD	19712	2387.41200000000	2391.00000000000
	11203771	0				P ROAD		5727.91900000000	5728.00000000000
	11203772	0				P ROAD		6954.05800000000	6954.00000000000
	11204576	0				P ROAD		8224.10100000000	8224.00000000000
	11204614	0				P ROAD		1914.70400000000	1915.00000000000
	11204572	0				P ROAD		2047.47000000000	2047.00000000000
	11204564	0				P ROAD		973.23800000000	973.00000000000
	11204556	0				P ROAD		2541.74600000000	2542.00000000000
	11204577	0				P ROAD		1102.37700000000	1102.00000000000
	11204546	0				P ROAD		1237.71700000000	1238.00000000000
	11203811	0				P ROAD	18500	31309.95000000000	31310.00000000000
	11203770	0				P ROAD	18500	348.98700000000	349.00000000000
	11203810	0				P ROAD	18500	3520.92100000000	3521.00000000000
	11203674	0				P ROAD		3620.27000000000	3620.00000000000
	11204613	0				P ROAD		906.22800000000	906.00000000000
	11204557	0				P ROAD		554.45100000000	554.00000000000
	11204573	0				P ROAD	18500	1790.23500000000	1790.00000000000
	11204558	0				P ROAD		647.69500000000	648.00000000000
	11204575	0				P ROAD		1223.52100000000	1224.00000000000
	11204668	0				P ROAD		1354.45300000000	1354.00000000000
	11204570	0				P ROAD		1488.23900000000	1488.00000000000
	11204555	0				P ROAD		8339.67300000000	8340.00000000000
	11204562	0				P ROAD		7065.19200000000	7065.00000000000
	11204666	0				P ROAD		9552.73900000000	9553.00000000000
	11203774	0				P ROAD		7275.96400000000	7276.00000000000
	11204675	0				P ROAD		1994.71000000000	1995.00000000000
	11204612	0				P ROAD		528.08200000000	528.00000000000
	11204550	0				P ROAD		906.22800000000	906.00000000000
	11204565	0				P ROAD		973.93200000000	974.00000000000
	11204559	0				P ROAD		1046.96300000000	1047.00000000000
	11204554	0				P ROAD		12246.86700000000	12247.00000000000
	11203806	0				P ROAD		2108.01100000000	2122.00000000000
	11203792	0				P ROAD	18500	362.98900000000	363.00000000000
	11203808	0				P ROAD	18500	3585.26400000000	3585.00000000000
	11204568	0				P ROAD		1860.76300000000	1861.00000000000
	11204567	0				P ROAD		1240.20300000000	1240.00000000000
	11203807	0				P ROAD		3817.01500000000	3826.00000000000
	11204674	0				P ROAD		1882.72400000000	1883.00000000000
	11204436	0				P ROAD		1933.01500000000	1933.00000000000
	11204566	0				P ROAD		1860.24200000000	1860.00000000000
	11204560	0				P ROAD		1109.52500000000	1110.00000000000
	11204563	0				P ROAD		1237.71700000000	1238.00000000000
	11203802	0				P ROAD		38189.92300000000	38190.00000000000
	11204574	0				P ROAD		1835.60600000000	1836.00000000000
	11204561	0				P ROAD		2977.63000000000	2978.00000000000
	11204676	0				P ROAD		10116.59200000000	10117.00000000000
	11204553	0				P ROAD	19712	1979.83700000000	1980.00000000000
	11896216	260				D084543 260		15557.87100000000	15770.00000000000

LOCNO_STR	PIN	USAGE_CODE	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE	MGR_NAME	TENURE	STNAME	STNAMESFX	AIN	NOTYP	NOFROM
0001	11204434	1	-12.11772985000	96.89449223000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237552	L	1
0001	11204608	1	-12.11618071000	96.89399122000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237695	L	1
0001	11204532	1	-12.11871427000	96.89637679000	2003/09/25	2003/09/25	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237907	L	1
0001	11204487	1	-12.11747180000	96.89618305000	2003/09/25	2003/09/25	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237889	L	1
0002	11204486	1	-12.11650479000	96.89603187000	2003/09/25	2003/09/25	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237890	L	2
0002	11204533	1	-12.11965051000	96.89651961000	2003/09/25	2003/09/25	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237908	L	2
0002	11204435	1	-12.11871069000	96.89465232000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237553	L	2
0018	11204599	1	-12.11678323000	96.89461380000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237696	L	18
0025	11203797	1	-12.18166676000	96.82273211000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0		Plan	SYDNEY	HW	10236796	L	25
0027	11203795	1	-12.16249802000	96.83054423000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236795	L	27
0029	11203799	1	-12.20612670640	96.84679936230	2003/09/24	2005/09/05	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236797	L	29
0030	11203788	1	-12.19310122000	96.85983904000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236792	L	30
0033	11203786	1	-12.19945649000	96.85825777000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Asset Services	Plan			10236791	L	33
0038	11204539	1	-12.11646893000	96.89730316000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237667	L	38
0039	11204541	1	-12.11681617000	96.89822765000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237668	L	39
0040	11204543	1	-12.11828638000	96.90194019000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237669	L	40
0041	11204545	1	-12.11850036000	96.89782034000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237670	L	41
0043	11203766	1	-12.15732921000	96.82376791000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Asset Services	Plan			0		0
0043	11203767	1	-12.15819768000	96.82372013000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Asset Services	Plan			0		0
0101	11204410	1	-12.11729769000	96.89411666000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237554	L	101
0102	11204411	1	-12.11743909000	96.89413490000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47343	Cocos (Keeling) Islands Shire	Plan			10237555	L	102
0103	11204412	1	-12.11757124000	96.89416618000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47344	Cocos (Keeling) Islands Shire	Plan			10237556	L	103
0104	11204413	1	-12.11770785000	96.89418520000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47345	Cocos (Keeling) Islands Shire	Plan			10237557	L	104
0105	11204414	1	-12.11784449000	96.89420761000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237558	L	105
0106	11204415	1	-12.11798399000	96.89422939000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237559	L	106
0107	11204416	1	-12.11812157000	96.89425140000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237560	L	107
0108	11204417	1	-12.11825904000	96.89427400000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47346	Cocos (Keeling) Islands Shire	Plan			10237561	L	108
0109	11204418	1	-12.11853989000	96.89431770000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237562	L	109
0110	11204419	1	-12.11868172000	96.89434449000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237563	L	110
0111	11204420	1	-12.11882173000	96.89436766000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47347	Cocos (Keeling) Islands Shire	Plan			10237564	L	111
0112	11204421	1	-12.11896913000	96.89438997000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237565	L	112
0113	11204422	1	-12.11720462000	96.89471383000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237566	L	113
0114	11204423	1	-12.11734498000	96.89474186000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47349	Cocos (Keeling) Islands Shire	Plan			10237567	L	114
0115	11204424	1	-12.11747815000	96.89475863000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237568	L	115
0116	11204425	1	-12.11761159000	96.89478265000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47350	Cocos (Keeling) Islands Shire	Plan			10237569	L	116
0117	11204426	1	-12.11775326000	96.89480278000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237570	L	117
0118	11204427	1	-12.11789437000	96.89482207000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237571	L	118
0119	11204428	1	-12.11802973000	96.89484516000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47352	Cocos (Keeling) Islands Shire	Plan			10237572	L	119
0120	11204429	1	-12.11816778000	96.89486717000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237573	L	120
0121	11204430	1	-12.11844795000	96.89491272000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237574	L	121
0122	11204431	1	-12.11859047000	96.89493094000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237575	L	122
0123	11204432	1	-12.11872928000	96.89495511000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237576	L	123
0124	11204433	1	-12.11887669000	96.89498123000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237577	L	124
0125	11204492	1	-12.11921139000	96.89546499000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47353	Cocos (Keeling) Islands Shire	Plan			10237627	L	125
0126	11204493	1	-12.11919400000	96.89560959000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47354	Cocos (Keeling) Islands Shire	Plan			10237628	L	126
0127	11204494	1	-12.11916526000	96.89574569000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47355	Cocos (Keeling) Islands Shire	Plan			10237629	L	127
0128	11204495	1	-12.11914833000	96.89587964000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47356	Cocos (Keeling) Islands Shire	Plan			10237630	L	128
0129	11204446	1	-12.11633105000	96.89578976000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237587	L	129
0130	11204447	1	-12.11647222000	96.89580949000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237588	L	130
0131	11204448	1	-12.11661071000	96.89583115000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47357	Cocos (Keeling) Islands Shire	Plan			10237589	L	131
0132	11204449	1	-12.11675560000	96.89585113000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47358	Cocos (Keeling) Islands Shire	Plan			10237590	L	132
0133	11204450	1	-12.11701927000	96.89589415000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237591	L	133
0134	11204451	1	-12.11715590000	96.89591378000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237592	L	134
0135	11204452	1	-12.11729175000	96.89593516000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47359	Cocos (Keeling) Islands Shire	Plan			10237593	L	135
0136	11204453	1	-12.11743105000	96.89595758000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237594	L	136
0137	11204454	1	-12.11756709000	96.89597834000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237595	L	137
0138	11204455	1	-12.11770364000	96.89599933000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47360	Cocos (Keeling) Islands Shire	Plan			10237596	L	138
0139	11204456	1	-12.11783912000	96.89601923000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47361	Cocos (Keeling) Islands Shire	Plan			10237597	L	139
0140	11204457	1	-12.11798089000	96.89604132000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47362	Cocos (Keeling) Islands Shire	Plan			10237598	L	140
0141	11204496	1	-12.11826680000	96.89608738000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47363	Cocos (Keeling) Islands Shire	Plan			10237631	L	141
0142	11204497	1	-12.11840765000	96.89610838000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237632	L	142
0143	11204498	1	-12.11854308000	96.89612951000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47364	Cocos (Keeling) Islands Shire	Plan			10237633	L	143
0144	11204499	1	-12.11867774000	96.89614710000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47365	Cocos (Keeling) Islands Shire	Plan			10237634	L	144
0145	11204500	1	-12.11881381000	96.89616949000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237635	L	145
0146	11204501	1	-12.11895172000	96.89618939000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47366	Cocos (Keeling) Islands Shire	Plan			10237636	L	146
0147	11204502	1	-12.11908993000	96.89621077000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47367	Cocos (Keeling) Islands Shire	Plan			10237637	L	147
0148	11204503	1	-12.11922670000	96.89623095000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237638	L	148
0149	11204504	1	-12.11947371000	96.89626769000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237639	L	149
0150	11204505	1	-12.11961249000	96.89628935000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47368	Cocos (Keeling) Islands Shire	Plan			10237640	L	150
0151	11204506	1	-12.11974950000	96.89631144000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47369	Cocos (Keeling) Islands Shire	Plan			10237641	L	151
0152	11204507	1	-12.11989239000	96.89633586000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237642	L	152
0153	11204458	1	-12.11626252000	96.89622792000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47370	Cocos (Keeling) Islands Shire	Plan			10237599	L	153
0154	11204459	1	-12.11640488000	96.89624833000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237600	L	154
0155	11204460	1	-12.11654330000	96.89626691000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47417	Cocos (Keeling) Islands Shire	Plan			10237601	L	155
0156	11204461	1	-12.11668713000	96.89628505000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47371	Cocos (Keeling) Islands Shire	Plan			10237602	L	156
0157	11204462	1	-12.11695283000	96.89632919000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237603	L	157
0158	11204463	1	-12.11709082000	96.89635287000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47372	Cocos (Keeling) Islands Shire	Plan			10237604	L	158
0159	11204464	1	-12.11722514000	96.89637226000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47373	Cocos (Keeling) Islands Shire	Plan			10237605	L	159
0160	11204465	1	-12.11736014000	96.89639264000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47328	Cocos (Keeling) Islands Shire	Plan			10237606	L	160
0161	11204466	1	-12.11749624000	96.89641228000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237607	L	161
0162	11204467	1	-12.11763382000	96.89643659000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237608	L	162
0163	11204468	1	-12.11777155000	96.89645541000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237609	L	163
0164	11204469	1	-12.11791416000	96.89647884000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237610	L	164

LOCNO_STR	PIN	USAGE_CODE	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE	MGR_NAME	TENURE	STNAME	STNAMESFX	AIN	NOTYP	NOFROM
0165	11204508	1	-12.11819736000	96.89652060000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237643	L	165
0166	11204509	1	-12.11833346000	96.89654350000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44515	Cocos (Keeling) Islands Shire	Plan			10237644	L	166
0167	11204510	1	-12.11847078000	96.89656407000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44516	Cocos (Keeling) Islands Shire	Plan			10237645	L	167
0168	11204511	1	-12.11860817000	96.89658482000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47327	Cocos (Keeling) Islands Shire	Plan			10237646	L	168
0169	11204512	1	-12.11874358000	96.89660602000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44513	Cocos (Keeling) Islands Shire	Plan			10237647	L	169
0170	11204513	1	-12.11888166000	96.89662466000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44514	Cocos (Keeling) Islands Shire	Plan			10237648	L	170
0171	11204514	1	-12.11901787000	96.89664739000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237649	L	171
0172	11204515	1	-12.11915740000	96.89666620000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237650	L	172
0173	11204516	1	-12.11940678000	96.89670329000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237651	L	173
0174	11204517	1	-12.11954269000	96.89672486000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237652	L	174
0175	11204518	1	-12.11967739000	96.89674633000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47326	Cocos (Keeling) Islands Shire	Plan			10237653	L	175
0176	11204519	1	-12.11982321000	96.89677025000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47325	Cocos (Keeling) Islands Shire	Plan			10237654	L	176
0177	11204470	1	-12.11687072000	96.89687725000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237611	L	177
0178	11204471	1	-12.11701269000	96.89689865000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47374	Cocos (Keeling) Islands Shire	Plan			10237612	L	178
0179	11204472	1	-12.11714910000	96.89691922000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44517	Cocos (Keeling) Islands Shire	Plan			10237613	L	179
0180	11204473	1	-12.11728551000	96.89693978000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47377	Cocos (Keeling) Islands Shire	Plan			10237614	L	180
0181	11204474	1	-12.11742189000	96.89696034000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237615	L	181
0182	11204475	1	-12.11755827000	96.89698090000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47342	Cocos (Keeling) Islands Shire	Plan			10237616	L	182
0183	11204476	1	-12.11769466000	96.89700146000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237617	L	183
0184	11204477	1	-12.11783438000	96.89702252000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47418	Cocos (Keeling) Islands Shire	Plan			10237618	L	184
0185	11204520	1	-12.11811345000	96.89706458000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237655	L	185
0186	11204521	1	-12.11825617000	96.89708610000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237656	L	186
0187	11204522	1	-12.11839812000	96.89710750000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47324	Cocos (Keeling) Islands Shire	Plan			10237657	L	187
0188	11204523	1	-12.11853449000	96.89712806000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47375	Cocos (Keeling) Islands Shire	Plan			10237658	L	188
0189	11204524	1	-12.11867085000	96.89714862000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47376	Cocos (Keeling) Islands Shire	Plan			10237659	L	189
0190	11204525	1	-12.11880723000	96.89716918000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237660	L	190
0191	11204526	1	-12.11894360000	96.89718974000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237661	L	191
0192	11204527	1	-12.11908046000	96.89721096000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237662	L	192
0193	11204528	1	-12.11932718000	96.89724758000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237663	L	193
0194	11204529	1	-12.11946828000	96.89726884000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237664	L	194
0195	11204530	1	-12.11960938000	96.89729012000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237665	L	195
0196	11204531	1	-12.11975049000	96.89731139000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237666	L	196
0197	11204478	1	-12.11679012000	96.89737125000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44519	Cocos (Keeling) Islands Shire	Plan			10237619	L	197
0198	11204479	1	-12.11692874000	96.89739215000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44520	Cocos (Keeling) Islands Shire	Plan			10237620	L	198
0199	11204480	1	-12.11706736000	96.89741304000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44521	Cocos (Keeling) Islands Shire	Plan			10237621	L	199
0200	11204481	1	-12.11720598000	96.89743394000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237622	L	200
0201	11204482	1	-12.11734460000	96.89745484000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237623	L	201
0202	11204483	1	-12.11748322000	96.89747574000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237624	L	202
0203	11204484	1	-12.11762185000	96.89749663000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237625	L	203
0204	11204485	1	-12.11776044000	96.89751748000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237626	L	204
0207	11204406	1	-12.11470276000	96.89358421000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Diagram			10237548	L	207
0208	11204621	1	-12.11833379000	96.89883953000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237712	L	208
0209	11204623	1	-12.11960156000	96.89903054000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47322	Cocos (Keeling) Islands Shire	Plan			10237713	L	209
0210	11204622	1	-12.11736884000	96.89831529000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237714	L	210
0211	11204549	1	-12.11641306000	96.89766621000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237671	L	211
0212	11204629	1	-12.11660795000	96.89683737000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	47378	Cocos (Keeling) Islands Shire	Plan			10237716	L	212
0213	11204630	1	-12.11647127000	96.89681621000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237717	L	213
0214	11204631	1	-12.11633459000	96.89679505000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237718	L	214
0215	11204632	1	-12.11619794000	96.89677387000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237719	L	215
0215	11203778	1	-12.19339273000	96.86057666000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236788	L	215
0216	11203777	1	-12.19868682000	96.86326016000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236789	L	216
0216	11204633	1	-12.11606128000	96.89675274000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237720	L	216
0217	11204634	1	-12.11592459000	96.89673158000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237721	L	217
0217	11203776	1	-12.20486533000	96.85077873000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236790	L	217
0218	11204635	1	-12.11578791000	96.89671042000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237722	L	218
0219	11204636	1	-12.11565124000	96.89668926000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237723	L	219
0219	11203791	1	-12.15278411000	96.82252435000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236793	L	219
0220	11203790	1	-12.15472332000	96.82264967000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236794	L	220
0220	11204637	1	-12.11573488000	96.89615182000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237724	L	220
0221	11204638	1	-12.11587366000	96.89617157000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44526	Cocos (Keeling) Islands Shire	Plan			10237725	L	221
0222	11204639	1	-12.11601241000	96.89619130000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	44522	Cocos (Keeling) Islands Shire	Plan			10237726	L	222
0223	11204618	1	-12.11857043000	96.89556951000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237709	L	223
0223	11203686	1	-12.14198613000	96.82028730000	2003/09/23	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0		Plan			10236730	L	223
0224	11203668	1	-12.13977439000	96.82059986000	2003/09/23	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Diagram			10236701	L	224
0224	11204617	1	-12.11833275000	96.89535361000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237710	L	224
0225	11204586	1	-12.11759343000	96.89542664000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237687	L	225
0225	11203673	1	-12.14143423000	96.81861866000	2003/09/23	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236724	L	225
0226	11203768	1	-12.15692714000	96.82804302000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236787	L	226
0226	11204588	1	-12.11764475000	96.89555269000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237688	L	226
0226	11203769	1	-12.15660118000	96.82814729000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10236787	L	226
0227	11204587	1	-12.11752154000	96.89529167000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237689	L	227
0227	11203647	1	-12.16190266000	96.82947999000	2003/09/23	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Diagram			10236682	L	227
0228	11203782	1	-12.20393910000	96.85239723000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			0		0
0228	11204589	1	-12.11667369000	96.89532175000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0	Cocos (Keeling) Islands Shire	Plan			10237690	L	228
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LOCNO_STR	PIN	USAGE_CODE	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RETIR	DATE_BOUND	PITYP	LOT_TYPE	RESERVE	MGR_NAME	TENURE	STNAME	STNAMESFX	AIN	NOTYP	NOFROM
0239	11204644	1	-12.11545272000	96.89355747000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0		Plan			10237727	L	239
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	11203801	2	-12.13851271000	96.82322146000	2003/09/24	0000/00/00	KY		M	0000/00/00	0000/00/00	2	CROWN	0		Location			0		0
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	11204551	13	-12.11650975000	96.89419540000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	3	ROAD	0	Cocos (Keeling) Islands Shire	Road			0		0
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	11204576	13	-12.11829166000	96.89387744000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	3	ROAD	0	Cocos (Keeling) Islands Shire	Road			0		0
	11204614	13	-12.11650083000	96.89430046000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	3	ROAD	0	Cocos (Keeling) Islands Shire	Road			0		0
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	11204577	13	-12.11616851000	96.89599889000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	3	ROAD	0	Cocos (Keeling) Islands Shire	Road			0		0
	11204546	13	-12.11855909000	96.89738721000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	3	ROAD	0	Cocos (Keeling) Islands Shire	Road			0		0
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	11204676	13	-12.11542745000	96.89721384000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	3	ROAD	0	Cocos (Keeling) Islands Shire	Road			0		0
	11204553	13	-12.11794073000	96.90179289000	2003/09/25	0000/00/00	KY		M	0000/00/00	0000/00/00	3	ROAD	0	Cocos (Keeling) Islands Shire	Road			0		0
	11896216	1	-12.10781174000	96.88873189000	2010/09/09	0000/00/00	KY		M	0000/00/00	0000/00/00	1	FHOLD	0					0		0

Chapter
7

Appendix 4: Memorandum of Arrangement – Particulars of Services

Memorandum of Arrangement – Particulars of Services

" To develop a Geographic Information System (GIS) for Cocos (Keeling) Islands. GA's proposals, dated 17 November 1998 and 6 May 1999 for the development of the GIS, form part of this MOA. (Attachment 1)

The Services include the provision of detailed orthophotography and feature datasets based on a two stage approach as follows:

Stage 1.

 The creation of a sample of the orthophotography similar to Christmas Island GIS (CIGIS) resolution standards;

 The retrieval and integration of available line and point data held by AUSLIG, the WA Department of Land Administration (DOLA), or the Commonwealth Environmental Resource Information Network covering Cocos (Keeling) Islands;

 The installation and demonstration of the Stage 1 version of the Cocos (Keeling) Islands GIS (CKIGIS) on the Territories Office GIS PC; and

 The provision of sample colour maps, posters and an interim CD backup.

Stage 2.

 The creation of the remainder of the orthophotography;

 The integration of ground audit data with DOLA cadastral boundaries;

 The integration to the extent possible of existing datasets that come to light through the process of carrying out Stage 1;

 The documentation of the system to the CIGIS standards;

 The publishing of the whole system on DVD and delivery of five copies to the Department; and

 The installation and demonstration to the Contact Officer of the GIS at the Department's PC GIS location

The Timetable for the Services is:

Milestone	Due Date
Stage 1 completed	2 months from execution of MOU
Stage 2 completed	3 months after acceptance of Stage 1

Chapter

8

Appendix 5: Data Licensing and Agreements

Data Licensing and Agreements

The collection of nearly all the data sets on the DVD comprising the Cocos GIS was commissioned by the Territories Office (Commonwealth Government) under a series of consultancy arrangements with various data suppliers over the past fifteen years. An exception is the Environment Australia Marine Environment data layer. The Cocos GIS is an assembly of multiple data collections (each of which may comprise some man-years of work) into a single easy-to-use integrated system and so represents a valuable Commonwealth asset.

Commonwealth Cocos GIS data licence

The copyright for all the data in the Cocos GIS resides with the Commonwealth (see data acknowledgments on page 6). Legal advice to Geoscience Australia and Territories Office recommends the protection of the Commonwealths interests in any distribution of the Cocos Islands GIS by way of a licence agreement. Following are a one-page licence agreement and an associated covering letter. A key purpose of the Cocos GIS licensing is that the user organisation signifies their acceptance that the data is not error free. This licence relates to all the data except the original content of the Environment Australia (EA) marine data for which a separate EA licence must be used. To simplify usage of the Cocos GIS, the EA data has been moved to CD-ROM 4, which is not included in the standard Cocos GIS distribution.

Risks of not licensing the data include: -

- allegations of liability for damages as a result of errors in the data,
- commercialisation of the data,
- proliferation of faceless data variants,
- inequitable government support between competing businesses,
- perceived breaches of privacy, and
- potential future denial of access by the Commonwealth to the data.

Arguments against licensing include: -

- it may in some cases stultify legitimate and effective use of the data for public good purposes, and
- it introduces a cumbersome overhead for both the data supplier and the data user.

On receipt, this data should have been received with two copies of the license agreement. One original signed copy of the Commonwealth Cocos GIS data licence is to be retained by the licensee and one original signed copy is to be posted back. An electronic copy of the Commonwealth Cocos GIS data licence (for reference) is stored on the Cocos GIS DVD at directory '\document\licenses' in file 'cocosgis_license.doc '.

A generic covering letter is also stored in this directory (file 'generic_licensecover.doc' and together the two documents comprise the licensing advice to each stakeholder. The covering letter should be edited to correctly describe the particular proposed licensee and two copies of both documents printed for packaging with the data. One original signed copy of the Commonwealth Christmas Island GIS data licence is to be retained by the licensee and one original signed copy is to be posted back.

The covering letter is only half a page. The Licence Terms are just over one page in length. It is important to retain this brevity. Experience indicates that long-winded licence agreements are often not read and their conditions are consequently at a greater risk of being ignored. Some users are put off using the data when there is a long and complex licence agreement to come to grips with. Consequently an important public-good benefit that might be delivered by the use of the data may never be realised.

Australian Government

Department of Regional Australia, Local Government, Arts and Sport

Our Reference: CocosGIS2012
Contact: Mr. Shane Warnock

Friday, 15 June 2012.

Organisation name:
Organisation address:

Dear Sir/Madam,

Thank you for your request for Territories Office to supply *Organisation name* with a copy of the Cocos (Keeling) Islands GIS ('Licensed Data'), which is in the package accompanying this letter. Territories Office offers *Organisation name* a right to use the Data in accordance with the Licence Terms enclosed with this letter. A copy of the Licence Terms is also inside the package.

BEFORE OPENING THE PACKAGE, all of the Licence Terms should be read and accepted by the User, or an authorised representative of the User. Acceptance of the Licence Terms is indicated by the User's authorised signature in the space provided below on both copies of this letter, and returning one copy to Territories Office. A fee waiver is granted for Use by *Private Organisation*, however such Use is limited to work for the Commonwealth. Use of the data by *Private Organisation* for other clients requires a separate negotiation. *OR* A fee waiver is granted for Use by *Government Organisation*, however provision of new data back to the Cocos (Keeling) Islands GIS pool by *Government Organisation* is expected in return.

If the Data is used, then acceptance of the Licence Terms is deemed to have occurred even if the acceptance procedure described in the preceding paragraph has not been followed. If the Licence Terms are unacceptable, then the package, together with both copies of this letter should be immediately returned to Territories Office and the Data must not be Used by any person for any purpose.

Territories Office grants permission for *Organisation name* to freely distribute hardcopy products or hardcopy digital equivalents (eg bitmap images or powerpoint slides) created from the licensed CocosGIS.

Yours Faithfully

Mr. Keith Porritt
Geoscience Australia
representing the Commonwealth of Australia
for Territories Office
Date:

……
User / User's Authorised Representative
Name:

Position in User's Organisation:

Date:

TERMS OF A LICENCE CONCERNING DIGITAL DATA
from
the Territories Office of the Commonwealth Department of Regional Australia, Local Government, Arts and Sport
('Licence')

IMPORTANT NOTES

'Territories Office' means the Commonwealth of Australia represented by the Territories Office of the Commonwealth Department of Regional Australia, Local Government, Arts and Sport.

'Data' means the Licensed Data, including any copy, reproduction, modification, adaptation, digital manipulation or graphical representation of the Licensed Data made by the User in any form, including electronic or hard-copy form.

'Fee' means the fee payable to Territories Office for the right to use the data in accordance with this Licence.

'including' is not a word of limitation.

'Licensed Data' means Territories Office's data, including metadata and documentation, supplied by Territories Office under the letter from Territories Office to which these Licence Terms are attached.

'Use' as a noun means any use or disclosure, and, as a verb, has an equivalent meaning.

'User' means any person who Uses the Data, or, if the Use is in connection with the person's employment, the person's employer.

The Data is intended for use only by people who have professional knowledge of the use and application of geographic information system (GIS) data.

TERMS

The User:

(a) must pay the Fee to Territories Office in accordance with Territories Office's directions;
(b) may, on a non-exclusive basis, use and disclose the Data only for the User's internal business purposes carried out in person by its employees, or by the User's consultants exclusively for work on the User's internal business, or, if the User is an individual, the User's personal use ('**Purpose**');
(c) may make back-up copies of the Data; and
(d) must not, except as provided under **paragraph (b)**, distribute or transmit the whole or any part of the Data, whether alone or in combination with any other data or information in any form, to any person.

Nothing in this Licence affects ownership of any person's rights in the Data.

WARRANTY

To the full extent allowed by the applicable law Territories Office excludes from this Licence all warranties, express or implied, including any warranty of fitness of the Data for any purpose. If Territories Office breaches any warranty that, by the applicable law, cannot be excluded, then Territories Office's sole liability to the User for that breach will be, at its choice, to resupply the Data without additional charge to the User or refund the Fee.

ASSUMPTION OF RISK

The User assumes sole risk and responsibility for its Use of the Data.

Territories Office does not warrant or make any representations:

(a) that the Data will be complete, accurate, reliable or error free;
(b) as to the accuracy, reliability or content of any information obtained from Using the Data.

Territories Office disclaims any and all liability for any injury, damage or loss (including, but not limited to, economic loss) howsoever arising out of any Use of the Data.

Territories Office is not responsible for any failure to carry out its obligations under this Licence if that failure is for any cause beyond Territories Office's reasonable control.

TERMINATION

Territories Office may terminate this Licence immediately by written notice if the User breaches this Licence or for convenience on 30 days notice.

When this Licence ends the User must return or destroy all copies of the Data in its possession or under its control.

APPLICABLE LAW

This Licence will be interpreted according to the laws of the Australian Capital Territory, Australia.

ALTERATION

This Licence be altered only in writing signed by Territories Office and an authorised representative of the User.

WAIVER

Waiver of any provision or right under this Licence:

(a) must be in writing signed by the party entitled to the benefit of that provision or right; and
(b) is effective only to the extent set out in the written waiver.

ENTIRE AGREEMENT

This Licence:
(a) constitutes the entire agreement between Territories Office and the User as to its subject matter; and
(b) in relation to that subject matter, supersedes any prior understanding or agreement between Territories Office and the User and any prior condition, warranty, indemnity or representation imposed, given or made by Territories Office or the User.

UN CONVENTION

Territories Office and the User agree that the provisions of the United Nations Convention on Contracts for the International Sale of Goods are expressly excluded from this Agreement.

DISPUTE RESOLUTION

The parties (meaning Territories Office and the User) must attempt to resolve any dispute or difference that may arise between them in relation to this Agreement (**'Dispute'**) through amicable consultation, based on principles of mutual benefit, equality, cooperation and trust. Accordingly, a party must not start arbitration or court proceedings (except proceedings seeking interlocutory relief) about a Dispute unless it has complied with the following **paragraphs (a) - (e)**:

(a) A party claiming that a Dispute has arisen must notify the other party to the Dispute giving details of the Dispute (**'Notification'**);
(b) On receipt of a Notification each party must negotiate in good faith to resolve the Dispute and, if necessary to

resolve the Dispute, involve the Chief Executive Officers or other senior officers of the parties directly in those negotiations;

(c) If the Dispute involves technical matters and has not been resolved by negotiations under paragraph (b) within a reasonable time, then the parties will refer the Dispute for determination by an independent expert agreed by the parties in the technical field the subject of the Dispute;

(d) If the Dispute is not resolved under **paragraph (b) or (c)** within thirty days (or longer period agreed between the parties), and if the User's principal address is in Australia, then the parties must refer the Dispute for mediation by the Australian Commercial Dispute Centre Limited ('ACDC') for resolution in accordance with the Mediation Rules of the ACDC;

(e) If the Dispute is not resolved under **paragraph (b) or (c)** within thirty days (or longer period agreed between the parties), and if the User's principal address is not in Australia, then the parties must refer the Dispute to arbitration for resolution in accordance with the UNCITRAL Model Law on International Commercial Arbitration. Notwithstanding any provision of the UNCITRAL rules to the contrary, the parties agree that:

(i) the number if arbitrators shall be one;

(ii) the place of arbitration will be Canberra, Australian Capital Territory, Australia;

(iii) all proceedings will be conducted in the English Language;

(iv) the applicable law is the law of the Australian Capital Territory; and

(v) the determination of the arbitrator shall be final and binding on the parties and the costs of the arbitration shall be borne and paid for as the arbitrator directs.

(f) If the Dispute is not resolved under **paragraph (d) or (e)** within sixty days after referral (or longer period agreed between the parties) either party may initiate proceedings in a court

FURTHER INFORMATION

Historical information may be contained in the Data, metadata or documentation of the Data. If the User requires further information about the Data or it's history, then contact

Territories Office Perth,
Department of Regional Australia, Local Government, Arts and Sport.
Ph: (08) 6211-8527
Fax: (08) 6211-8581

License for use of Satellite Imagery.

Copied here is the text file 'MULTIPLE_ORGANIZATION.TXT' which contains the license agreement for the use of the satellite imagery bundled with this manual. Please read before continuing.
Also here is a copy of the table of registered users, found in the 'registered_users.pdf'.

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Multiple Organization
End User License Agreement

REGISTERED USERS

	Registered Organisations
1	Department of Regional Australia, Local Government, Arts and Sport
2	Cocos (Keeling) Islands Shire
3	Geoscience Australia
4	WA Department of Industry and Resources
5	WA Department of Land Administration
6	WA Department for Planning and Infrastructure
7	Cocos Island Co-operative Society Ltd
8	Cocos Dive
9	WA Department of Education and Training
10	Cocos (Keeling) Islands Tourism Association
11	WA Department of Fisheries
12	WA Department of Environment
13	Department of Finance and Administration
14	Department of Environment and Heritage
15	Gutteridge Haskins & Davey Pty Ltd (GHD)

Table 3: Registered users of the satellite imagery bundled with this manual.

Environment Australia Marine Data licence.

For each organisation the current Cocos GIS cd-rom #4 (DVD) is to be passed to, the following licence agreement with Environment Australia (EA) need first be signed by a representative of the organisiation. This license specifically relates to the marine data sourced from EA. The EA system refers to this data set as the ' Whelans Cocos GIS (1998)'.

An electronic copy of the EA data licence is stored on the Cocos GIS DVD at directory '\document\licenses' in file 'ea_marine_data_licence.doc'. Details for the licensee organisation need be entered in the following fields on the document:-

Name/Title:	[enter your – Name]
Company/Organisation:	[enter your – Organisation]
Address:	[enter your – Address]
Telephone:	[enter your – Telephone]
Facsimile:	[enter your – Fax]
E-mail Address:	[enter your – Email]
The Data will be used by the Licensee for:	[enter your – Data Use]

Licensees would generally need to fill the 'Data Use' item themselves. However, all the other items in the document could be edited in advance to correctly describe the particular proposed licensee and two copies printed for packaging with the data as per the advice in the covering letter.

One original signed copy of the EA agreement is to be retained by the licensee and one original signed copy is to be posted to:-

Mr. Keith Porritt
Geoscience Australia
GPO Box 378,
CANBERRA ACT 2601

in accordance with the current dispensation by Environment Australia for GA to distribute the revised Cocos GIS data on behalf of the Department of Regional Australia, Local Government, Arts and Sportw, including the data for which Environment Australia is custodian.

Environment Australia
Department of the Environment and Heritage

Agreement for the Supply of Data

Important: The completed Schedule and Licence Conditions set out below will constitute a legal agreement between the Commonwealth of Australia ("the Commonwealth") and you ("the Licensee") in relation to the data. If you agree with the Conditions, please tick the 'Agreed' box, sign and date beside it and ensure your licensee details are filled out below.

If you are entering into this agreement on behalf of a company or organisation, you warrant that you have the authority to do so.

Agreed

Not Agreed

The Schedule

Date:

Commonwealth

The Commonwealth of Australia is represented by the Department of the Environment and Heritage. The contact details are:

Name/Title: Gavan Thomas, Project Officer

Address: Environmental Resource Information Network (ERIN)
Environment Australia
GPO Box 787 Canberra ACT 2601

Telephone: 02 6274 2736
Facsimile: 02 6274 1333

Email Address: gavan.thomas@ea.gov.au

Licensee

Name/Title: *[enter your – Name]*

Company/Organisation: *[enter your – Organisation]*

Address: *[enter your – Address]*

Telephone: *[enter your – Telephone]*

Facsimile: *[enter your – Fax]*

Email Address: *[enter your – Email]*

The Data

The data is referred to as the 'Marine Environment' data in the GA-DoTaRS Cocos GIS. The ERIN system refers to the data as the ' Whelans Cocos GIS (1998)'.

This dataset contains point, line and polygon data of the marine environment surrounding the Cocos (Keeling) Islands. It includes coastlines, bathymetric contours, coral outcrops and other features. Coverage extends to the whole of Cocos Keeling Islands. The themes have been grouped by GA into the following shapefiles so as to increase the ease of use of the data:

Infralin.shp - Infrastructure lines
Boundlin.shp - Boundary lines
Marinelin.shp - Marine lines
Surveylin.shp - Survey lines
Islandlin.shp - Island outlines
Marineply.shp - Marine polygon
Islandply.shp - Island polygon
Boundply.shp - Boundary polygon

These shapefiles retain all spatial and non spatial data as supplied to GA.

Data are provided in shape file format and also as ERIN originally supplied in a zip of ARC export files. Both formats are supplied on DVD of the Cocos GIS produced in 2000 by GA for Territories Office. Accompanying metadata for the data is also supplied.

Contributors

Item: 'Marine Environment' data referred to by ERIN as the ' Whelans Cocos GIS (1998)'.

Contributor: GA
Data was received by GA from ERIN as ArcInfo Export files. GA converted the data to shape file format. GA projected the data to CKIG92 with a coordinate shift to match the Cadastre (assuming it was received as UTM Zone 47 WGS72).
The many individual layers were checked and those of similar themes were then grouped to provide a smaller set of layers, thus making the data more useable.
The North Keeling atoll was translated and warped to more accurately match the orthophotography. Line themes were built into polygons to allow areas to be queried.

Additional Conditions: The I.P. for work done on the data by GA is not covered in this licence agreement between your organisation and EA. A separate agreement with

the Commonwealth may apply to this particular component of I.P. in conjunction with the remainder of the GA-DoTaRS Cocos GIS data.

Use

The Data will be used by the Licensee for:

[enter your – Data Use]

Licence Conditions

1 Interpretation

1.1 In these Conditions, unless the contrary intention appears:

"Commercialise" in respect of the Data or a product or service derived from the Data, includes distributing, giving away, selling, letting for hire, or by way of trade, offering or exposing for sale or hire any article embodying the Data or any product or service derived from or incorporating the Data;

"Contributor" means:

I. (in relation to the Commonwealth) an agency of the Commonwealth which is custodian of a particular item of Data on behalf of the Commonwealth; or

II. third party contributors

identified in the Schedule to this Agreement as having provided particular items of Data which are the subject of this Licence Agreement;

"Data" means the data to which access is made available, and which is listed in the Schedule and includes any Enhancements to the Data;

"Enhancement", in relation to the Data, includes any modification, adaptation or redevelopment of the Data, any work derived from the Data, machine readable representations of any of the foregoing and any associated material intended at the time of its creation to be used primarily in conjunction with the Data;

"Intellectual Property" includes all copyright, and all rights in relation to registered and unregistered trademarks (including service marks), registered designs and confidential information (including trade secrets and know-how), and all other rights resulting from intellectual activity in the industrial, scientific, literary or artistic fields;

"Licence" means the licence referred to in Condition 3.

2 Duration

2.1 The Licence commences on the date of the Agreement as set out in the Schedule, and continues in force for a period of five (5) years unless terminated in accordance with Condition 10.1.

3 Licence Conditions

3.1 The Commonwealth grants to the Licensee, a royalty-free, non-exclusive, non-transferable licence to use, reproduce, make Enhancements to and print the Data, and combine it with other data held by the Licensee.

3.2 The Licence is limited to personal use of the Data or use within the Licensee's organisation only.

3.3 The Licensee shall not Commercialise the Data or any product or service derived from the Data.

3.4 The Commonwealth warrants that the grant of the Licence does not infringe the Intellectual Property rights of any person and that it is entitled to grant the licence in relation to the data of third party Contributors.

3.5 Data items identified in the Schedule as having been provided by individual Contributors are subject to the additional conditions (if any) set out in the Schedule. In the event of any conflict between the terms of the Licence Conditions and any additional condition set out in the Schedule, the terms of the Licence Conditions shall take precedence.

4 Intellectual Property Rights Reserved

4.1 All rights not expressly granted to the Licensee under Condition 3 are reserved.

4.2 The Licensee acknowledges that the Data is a special, unique and valuable product in which the copyright and other applicable Intellectual Property rights vest in the Contributors as listed in the Schedule.

4.3 The Contributors of items of Data retain ownership of that Data, whether in its original form or as modified by the Licensee and of the Intellectual Property rights therein.

4.4 Intellectual Property in any Enhancement to the Data vests, upon its creation, in the Contributor named in the Schedule in relation to the relevant item of Data.

5 Custody of the Data

5.1 The Licensee shall maintain the Data in safe custody.

5.2 The Licensee shall take all reasonable steps to ensure that any person given access to the Data is aware of these Conditions and uses the Data only in accordance with this Agreement.

6 Precautions

6.1 THE COMMONWEALTH CANNOT GUARANTEE THAT THE DATA, INCLUDING ANY THIRD PARTY DATA, IS FREE FROM ERRORS, AND DOES NOT WARRANT THE QUALITY, PERFORMANCE OR SUITABILITY OF THE DATA FOR ANY PURPOSE.

6.2 THE LICENSEE ASSUMES RESPONSIBILITY FOR SELECTION OF THE DATA TO ACHIEVE ANY INTENDED RESULTS, AND FOR ITS USE.

6.3 THE LICENSEE ASSUMES RESPONSIBILITY FOR THE INTERPRETATION OF ANY RESULTS OBTAINED FROM USE OF THE DATA, AND MUST EXERCISE ALL APPROPRIATE PRECAUTIONS BEFORE PLACING RELIANCE ON THOSE RESULTS.

7 Release and Indemnity

7.1 THE LICENSEE:

A) RELEASES THE COMMONWEALTH, ITS OFFICERS, EMPLOYEES AND AGENTS AND ALL CONTRIBUTORS IN RESPECT OF ALL LIABILITY FOR LOSS, DAMAGE OR INJURY, WHICH MAY BE SUFFERED BY THE LICENSEE OR ARISING FROM THE LICENSEE'S USE OF THE DATA; AND

B) INDEMNIFIES THE COMMONWEALTH, ITS OFFICERS, EMPLOYEES AND AGENTS AND ALL CONTRIBUTORS IN RESPECT OF ALL LIABILITY FOR LOSS, DAMAGE OR INJURY, WHICH MAY BE SUFFERED BY ANY PERSON ARISING FROM THAT PERSON'S USE OF THE DATA.

8 Retention of Notices

8.1 The Licensee shall not remove, obscure or interfere with any copyright notice, trademark, warning or disclaimer incorporated in the Data.

9. Commercial Exploitation

9.1 The licensee shall not Commercialise the Data or any product or service derived from incorporating the Data without the prior written consent of the relevant Contributor(s).

9.2 A Contributor may grant or refuse consent in their absolute discretion and subject to any condition whatsoever, including payment of royalties.

9.3 Any of the Data or any product or service derived from incorporating the Data which is Commercialised in accordance with this clause, must be accompanied by or incorporate an appropriate acknowledgment of the Contributor as the source of the Data in the terms specified in the Schedule.

10 Termination

10.1 If the Licensee breaches any of these Conditions, the Commonwealth may terminate the Agreement immediately by notice in writing to the Licensee.

10.2 The termination of the Agreement under Condition 10.1 shall be without prejudice to the rights of either party accrued under the Agreement prior to termination.

10.3 The Licensee shall cease using the Data for any purpose from the date of termination of the Agreement and shall return the Data and any copies made of it to the Commonwealth within 30 days of the date of termination.

11 Entire Agreement

11.1 The Agreement supersedes all prior agreements and understandings between the parties relating to the Data and Data Products and constitutes the entire agreement between the parties.

12 Variation

12.1 No addition to or modification of any provision of the Agreement shall be binding unless in writing signed by both parties.

13 Assignment

13.1 The rights granted under the Licence are restricted solely to the Licensee and may not be assigned, transferred or sublicensed without the prior written consent of the Commonwealth.

13.2 The Commonwealth may grant or refuse consent in its absolute discretion and subject to any condition whatsoever.

14 Law

14.1 The Agreement shall be governed by and construed in accordance with the laws of the Australian Capital Territory.

15 Waiver

15.1 No forbearance, delay or indulgence by a party in enforcing the provisions of the Agreement shall prejudice or restrict the rights of that party, nor shall waiver of those rights operate as a waiver of any subsequent breach.

16 Severance

16.1 Any reading down or severance of a particular provision does not affect the remaining provisions of the Agreement.

17 Application

17.1 Where the Licensee is an agency of the Commonwealth of Australia, such that it is not permitted to enter into a binding legal agreement except as the Commonwealth, then the conditions shall be read as merely giving rise to an arrangement between the Department of the Environment and Heritage and the Licensee.

Territories Office—DoLA Arrangement for cadastre

Through Territories Office, the Commonwealth pays the Western Australian Department of Lands Administration (DoLA) to maintain the cadastre as passed from Australian Land Information Group (AUSLIG) in 1992.

Chapter 9

Appendix 6: Land Use Plan 1992 Data Documentation

Note: This land use plan was converted to digital form by GA by a scan/OCR process from a hard copy original: formatting will vary slightly and some errors may exist.

Cocos (Keeling) Islands

Geographic Information System Database
Accompanying Documentation

Cocos (Keeling) Islands

Geographic Information System Database
Accompanying Documentation

Prepared by P. Kendall

Environmental Planning Unit
National Capital Planning Authority

February 1992

BACKGROUND

The National Capital Planning Authority, between November 1991 and March 1992, assisted the Commonwealth Department of Arts, Sport, Environment, Tourism and Territories in preparing a draft plan for the Cocos (Keeling) Islands. As part of the planning study, a geographic information system (GIS) database was established in order to prepare base and thematic maps and to enable the production of high quality figures to illustrate the planning report and to present the plans for public consultation.

The database contains many layers of environmental and planning information and has a range of potential uses beyond the planning exercise. DASETT subsequently briefed the NCPA to carry out some additional work to adapt the database for its ongoing purposes and to make the database available through the Department's ERIN computer network.

The GIS database was created using the software package pc ARC/INFO and can be readily translated for use on other ARC/INFO hardware platforms and under other GIS software systems. The brief required the provision of files in ARC/INFO export format and in 20 metre grid format, both on floppy disk media.

It is currently proposed that data layers will be added to the database when these become available from the Australian Survey and Land Information Group (AUSLIG). In particular, this additional data will include cadastral information which can replace the temporary cadastral covers prepared for the planning study. Other data layers should complement those currently in the database.

This documentation explains the general features of and structure and content of the database, together with some notes to assist in its future use through ERIN.

GENERAL FEATURES OF THE DATABASE

The database consists of 48 covers, 11 of which are simple base covers used for building more complex thematic maps and for defining map extents when using ARCPLOT. A further 6 covers are used mainly as the foundations for adding details such as topography, cadastral boundaries, roads and utilities to thematic maps. The remaining covers comprise 14 covers providing 11 resource map layers and 17 covers providing four land use and planning layers.

So as to provide flexibility in the preparation of map compositions at different scales and showing different features, the land use and planning layers each consist of separate covers for each of the main islands or island groups (ie West Island, Home Island, South Island, the small islands between South and Home Islands, Direction/Horsburgh Islands and North Keeling). Not all islands are represented in each data layer. This was so particularly where there were no features to show on particular islands or an alternative cover from a different layer could be used in a map composition to complete the full atoll coverage. Most of the remaining coverages include all of the southern Cocos atoll.

North Keeling, because of its geographic isolation is always included as a separate cover and represented in map compositions as an inset rather than in its correct location. Only a few of the thematic layers have been compiled for North Keeling. There is little mapped information available for this island and no air photo or field mapping was undertaken during the planning study.

All of the covers are topologically structured and checked for correct polygon closure and labelling. However, in some instances not all polygons have attribute information, where this was found to be unnecessary.

The accuracy of the data are sufficient for planning purposes and are largely governed by the accuracy of existing map sources. Only limited field checking had been undertaken during a one week visit to the islands. Detailed mapping would need to be undertaken for management purposes particularly related to public utilities and services infrastructure, using detailed plans (in non-digital form) held by ACS in Perth.

STRUCTURE AND CONTENT OF THE DATABASE

The information is summarised in two parts in the accompanying attachments. The first is a tabular description of the ARC/INFO coverages which includes details on map extent and coverage features. The second is a description of the map layers by theme, which includes details on covers and feature included, where the information was obtained and its accuracy, attribute classifications and lists of associated lookup tables, key files and macro files for generating the map compositions for the report figures and presentation maps.

USE OF THE DATABASE

Use of the database in its basic form will require a working knowledge of ARC/INFO, particularly for complex queries, preparation of catographic output, updating and further development. Simple automated queries by non-skilled operators using ARC/INFO would require the development of a set of macros designed for user-friendly operation. However, this would require identification of the types of standard queries by users. The use of the new ESRI product ARCVIEW should enable easy use of the database for some queries, without the need for a detailed knowledge of ARC/INFO.

All coverages should function correctly without modification on ARC/INFO platforms once imported. However, there are a number of enhancements which could be made to make better use of the additional features and capabilities of the full ARC/INFO package.

It may be simpler for the user, if some of the covers were combined (by MAPJOIN) to create full atoll coverages for each theme, particularly for use on more powerful hardware platforms where display speed and storage space are less critical than is the case on a pc. This would achieve the same result without having to specify multiple coverages to create a map composition for the whole atoll.

Since the annotation for specific islands was sized to suit the map compositions required, there will be incompatibility in the sizing when covers are joined. This can be fixed easily by using the select and calculate commands in **ARCEDIT.**

Some macros (SML's) are included in the set of files. These have been developed specifically for producing plot files (these were developed to produce the figures in the planning report or the presentation maps). They are included to provide examples of map compositions. Several modification would be required to convert them to workable AML's, including changes to pc SML lines not recognised by ARC/INFO, changes to textfonts, textsets, shadesets, etc and commands for creating plot files. However, most ARCPLOT commands would not need to be changed.

The lookup tables and key files are specifically set up to use the 100 shades in the COLOR shadeset in pc ARC/INFO. They would need to be amended for other shadesets. A few lookup and key files have been included which were developed for use with the CMYK shadeset on the NRIC computer system. They apply only to the land use and planning map covers.

In some instances a parallel set of SML's, key files and coverage annotation levels have been prepared using the Cocos-Malay language. The annotation levels are normally on or two levels higher than the English version and the SML and Key files contain an M at the end of the file name to distinguish them.

Attached are some sample SML's and AML's used for creating map compositions for the planning scheme maps. The full set of SML's is included on the disks provided.

SUMMARY OF COVERS IN DATABASE

COVER NAME	EXTENT	FEATURES	FEATURE CLASS	ATTRIBUTES	ANNOTATION
ISLANDS	Southern atoll	Coastlines	Polygons	None	Island names Level 1 - English Level 2 - Malay
NORTHK	North Keeling	Coastline	Polygon	None	Island name (as above)
WEST	West Island	Coastline	Polygons	None	None
SOUTH	South Island	Coastline	Polygons	None	None
HOME	Home Island	Coastline	Polygons	None	None
NORTH	Horsburgh and Direction Isl.	Coastlines	Polygons	None	None
OTHER	Small islands south of Home Island	Coastlines	Polygons	None	None
REEF	Southern atoll	Reef edge	Polygons	None	Identifying label - level 1 - English - level 2 - Malay
NKREEF	North Keeling	Reef edge	Polygons	None	None
LAGOON	Southern atoll	Reef edge, coastlines and lagoon	Polygons	ZONE	None
NKLAGOON	North Keeling	Reef edge, coastline and lagoon	Polygons	ZONE	None
TOPO	Southern atoll	Coastlines, reef flat, lagoon, beaches, swamps	Polygons	FEAT (feature)	None
WESTCAD	West Island	Coastline, lot boundaries and numbers	Polygons	LOTNO (lot number) TENURE	Level 1 - Lot descriptions Level 2 - Lot numbers
HOMECAD	Home Island	As above	Polygons	LOTNO (lot number)	Level 1 - Lot numbers Level 2 - House/Lot numbers

COVER NAME	EXTENT	FEATURES	FEATURE CLASS	ATTRIBUTES	ANNOTATION
ROADS	Southern atoll	Sealed and unsealed roads, cycle path	Lines	TYPE	None
UTILS	Southern atoll	Public utilities and services infrastructure	Points and lines	TYPE LABEL	None
AIRPORT	West Island	Runway and parking area	Polygons	None	None
WATER	West, Home, South and Horsburgh	Known groundwater lenses	Polygons	None	None
EROSION	West Island	Erosion prone coastline Potential breach areas	Lines	CODE	None
VEG	Southern atoll	Coastlines, Native vegetation communities	Polygons	TYPE	None
VEG2	Southern atoll	Coastlines, Vegetation structure	Polygons	STRUC	None
HABITAT	Southern atoll	Migratory bird habitats	Polygons	TYPE	Species information and notes
MARINE	Southern atoll	Coastlines, Marine habitats	Polygons	TYPE CODE	Polygon codes
MARRES	Southern atoll	Coastlines, important marine areas	Polygons	TYPE	Identifying labels
MARRES2	Southern atoll	Coastlines, marine habitats (similar to MARRES)	Polygons	TYPE CODE	None
RECRES	Southern atoll	Coastlines, recreation facilities and water-based activities	Polygons	TYPE	Identifying labels
SITES	Southern atoll	Heritage sites	Points	TYPE	Identifying labels
NKSITES	North Keeling	Heritage site	Points	TYPE	Identifying label
SITES2	Home Island	Heritage sites	Polygons	TYPE	None
TOURIST	Southern atoll	Proposed tourist development areas	Polygons	None	Identifying labels

COVER NAME	EXTENT	FEATURES	FEATURE CLASS	ATTRIBUTES	ANNOTATION
RUBBISH	Southern atoll	Coastlines, rubbish problem areas	Polygons	DUMP	None
WESTUSE2	West Island	Coastline, cadastral boundaries existing land use	Polygons	USE (land use category)	Identifying labels
HOMEUSE2	Home Island	as above	Polygons	as above	as above
NORTHUSE	Horsburgh and Direction Islands	as above	Polygons	as above	as above
SOUTHUSE	South Island	as above	Polygons	as above	Legend symbols
OTHERUSE	Islands south of Home Island	as above	Polygons	as above	None
NKUSE	North Keeling	as above	Polygons	as above	None
WESTOPT	West Island	Coastline, planning options	Polygons	OPT (options category)	Level 1 - English notes Level 2 - English legend symbols Level 3 - Malay notes Level 4 - Malay legend symbols
HOMEOPT	Home Island	as above	Polygons	as above	Level 1 - English notes Level 2 - Malay notes
NORTHOPT	Horsburgh and Direction Islands	as above	Polygons	as above	Level 1 - English notes Level 2 - English legend symbols Level 3 - Malay notes Level 4 - Malay legend symbols
WESTPREF	West Island	Coastline, preferred planning options	Polygons	OPT (options category)	as above
HOMEPREF	Home Island	as above	Polygons	as above	Level 1 - English notes Level 2 - Malay notes
NORPREF	Horsburgh and Direction Islands	as above	Polygons	as above	Level 1 - English notes Level 2 - English legend symbols Level 3 - Malay notes Level 4 - Malay legend symbols

COVER NAME	EXTENT	FEATURES	FEATURE CLASS	ATTRIBUTES	ANNOTATION
WESTZONE	West Island	Coastline, statutory land use plan	Polygons	ZONE (zone and reserve categories)	as above
HOMEZONE	Home Island	as above	Polygons	as above	Level 1 - English legend symbols Level 2 - Malay legend symbols
NORZONE	Horsburgh and Direction Island	as above	Polygons	as above	as above
OTHZONE	Islands south of Home Island	as above	Polygons	as above	None
SOUZONE	South Island	as above	Polygons	as above	Level 1 - English legend symbols Level 2 - Malay legend symbols

DESCRIPTION OF RESOURCE AND LAND USE MAP LAYERS

TOPOGRAPHY

COVER: **TOPO**

FEATURES: Island coastlines, semi-saline swamps, beaches (sand or coral rubble below high water mark), edge of reef flat and lagoon with attributes to identify features

SOURCES AND ACCURACY: 1:10,000 cadastral maps for coastlines of all islands except South Island and North Keeling other features from 1:25,000 topo maps and air photos. Note - constant coastline changes mean that the current coastline may not be accurately represented in published maps. Some minor changes have been made to reflect the effects of recent lagoon filling on West and Home Island. The 1:10,000 cadastral maps show the coastline above HWM while the1:25,000 topo maps show the coastline at LWM. Only the South Island coastline was digitized from the 1:25,000 maps.

ATTRIBUTES: FEAT (topographic features)

1 Reef flat and lagoon
2 Islands above HWM
3 Beach
4 Semi-saline swamp
5 Deep hole in lagoon

LOOKUP TABLE: TOPO.LUT (pc ARC/INFO - shadeset COLOR)

CADASTRAL

COVERS: **WESTCAD, HOMECAD**

FEATURES: Lot boundaries and lot numbers with attributes to identify lot numbers and land ownership

SOURCES AND ACCURACY: 1:10,000 cadastral maps of West and Home Islands supplemented by survey plans for individual lots and 1:1000 detail map of Home Island settlement. Note: Cadastral mapping is being undertaken by AUSLIG and will replace these temporary covers when available

ATTRIBUTES: LOTNO – as defined on cadastral plans

TENURE

1 Commonwealth Owned
2 Council land licenced to Commonwealth
3 Council Land

LOOKUP TABLE: CAD.LUT (pc ARC/INFO - shadeset COLOR)

KEY FILE: CAD.KEY

SML: WESTTEN.SML (creates plot file used in report)

ROADS

COVER: **ROADS**

FEATURES: Sealed and unsealed roads and cycle path with attributes to identify type

SOURCES AND ACCURACY: Detailed maps of settlement areas on West and Home Islands, 1: 10,000 cadastral map for Sydney Highway and 1:25,000 topo maps for other roads and tracks. Cyclepath was field mapped.

ATTRIBUTES: TYPE (road type) - line features

1 Sydney Highway
2 Other sealed roads
3 Other roads and tracks
4 Cycle path

LOOKUP TABLE: ROADS.LUT

UTILITIES AND SERVICES

COVER: **UTILS**

FEATURES: Line features - jettys, boat ramps, seawalls and breakwaters, sewer outfalls and fuel pipeline

Point features - power stations, radio masts, navigation beacons, bores, sand and gravel pits and associated services buildings

Both are identified in attribute tables by type code and text label.

SOURCES AND ACCURACY: Detailed maps of settlement areas on West and Home Islands and 1:25,000 topo maps for other areas plus some air photo and field mapping

ATTRIBUTES: TYPE - Line features

1 Boat ramps and jettys
2 Breakwaters and seawalls
3 Pipelines

TYPE - Point features

1 Power supply facility
2 Communication facility
3 Navigation facility
4 Navigation buoy
5 Water supply facility
6 Services building
7 Fuel storage tanks
8 Sand or gravel pit

LABEL - text descriptions of both line and point features

LOOKUP TABLES: UTIL.LUT, UTIL2.LUT (pc ARC/INFO)

KEY FILES: UTIL.KEY, UTIL2.KEY

COVER: AIRPORT

FEATURES: Runway and aircraft parking area

SOURCES AND ACCURACY: 1:4000 survey map of West Island settlement area

ATTRIBUTES: None.

WATER RESOURCES

COVER: WATER

FEATURES: Extent of known groundwater lenses

SOURCES AND ACCURACY: Boundaries as mapped by T. Falkland in reports to DASETT Note - many boundaries are based on predicted extent rather than precise location.

ATTRIBUTES:	None (Note - bores and wells are mapped as point features in the cover UTILS).
KEY FILE:	WATER.KEY
SML:	WATER.SML (creates plot file used in report)

EROSION

COVER:	**EROSION**
FEATURES:	Erosion prone coastline and potential breach areas on West Island (Note - no major erosion problems on other islands have been noted)
SOURCES AND ACCURACY:	Generalised areas based on advice from ANPWS Conservator (P. Stevenson) and field inspection of some locations
ATTRIBUTES:	CODE (Erosion category) 1 Erosion prone coastline 2 Potential breach zones
LOOKUP TABLE:	EROSION.LUT (pc ARC/INFO - shadeset COLOR)
KEY FILE:	EROSION.KEY
SML:	WESTDUMP.SML (creates plot file used in report, combined with cover RUBBISH, for West Island only)

VEGETATION

COVER:	**VEG**
FEATURES:	Remnant native vegetation and stands of *Pemphis* on sandbanks in lagoon
SOURCES AND ACCURACY:	1:25,000 maps by D. Williams showing *Pemphis* community on one map and 14 classes of remnant vegetation on another. Both maps were corrected for distortion when digitized by refererence to AUSLIG 1:25,000 topo maps. Note - North Keeling is assumed to have mainly native vegetation but information on types was not available during the planning study.
ATTRIBUTES:	TYPE (vegetation classification) - see D. Williams report for explanation of types A to N

0	Other vegetation
1	Pemphis
2	Remnant veg type A
3	Remnant veg type B
4	Remnant veg type C
5	Remnant veg type D
6	Remmant veg type E
7	Remnant veg type F
8	Remnant veg type G
9	Remnant veg type H
10	Remnant veg type 1
11	Remnant veg type J
12	Remnant veg type K
13	Remnant veg type L
14	Remnant veg type M
15	Remnant veg type N

LOOKUP TABLE: VEG.LUT (pc ARC/INFO - shadeset COLOR)

KEY FILE: VEG.KEY

SML: VEG.SMI (creates plot file used in report, which includes VEG2 cover)

COVER: VEG2

FEATURES: Simplified vegetation structure including cleared areas which are predominantly grassed or built up, sparsely treed areas (mostly coconut palms), densely treed areas (coconut plantations) and semisaline swamp communities (mostly unvegetated mudflats with dense fringing shrub cover)

SOURCES AND ACCURACY: Mostly generalised boundaries derived from interpretation of air photographs and field inspection (some areas have been cleared since the 1987 air photos and are not shown on previous maps hence boundaries are only approximate - based on brief field inspection). Note - a more detailed mapping of vegetation structure would be required for detailed planning and management purposes.

ATTRIBUTES: STRUC (vegetation structure)

1	Cleared land
2	Sparse coconut trees & grass
3	Coconut plantations
4	Shrub cover
5	Settlement area
6	Swamp vegetation
7	Unvegetated beach

LOOKUP TABLE: VEG2.LUT (pc ARC/INFO - shadeset COLOR)

KEY FILE: VEG2.KEY

SML: VEG.SML (creates plot file used in report, which includes VEG cover)

BIRD HABITATS

COVER:	**HABITAT**
FEATURES:	Habitat areas used by migratory water birds together with some notes on species which are found in certain locations
SOURCES AND ACCURACY:	Generalised boundaries based on the advice of ANPWS Conservator (P. Stevenson).
ATTRIBUTES:	TYPE (habitat type) 1 Migratory birds
SML:	HABITAT.SML (creates a plot file)

MARINE HABITATS

COVER:	**MARINE**
FEATURES:	Marine habitat classification as mapped and classified by D. Williams with a generalised grouping into reef slope, reef flat and lagoon. Note - no marine habitats classificiation was available for North Keeling, however, the edge of the reef was digitized from the AUSLIG 1:5000 topographic map of North Keeling and is included in the cover NKREEF.
SOURCES AND ACCURACY:	1:25,000 map by D. Williams, based on a classified SPOT satellite image. The map was corrected for distortion when digitized by refererence to AUSLIG 1:25,000 topo maps.
ATTRIBUTES:	TYPE (generalised grouping of habitats) 1 Islands 2 Reef slope 3 Reef flat 4 Lagoon CODE (habitat classification) A Outer reef B Coral and algal flat C Coral flat D Aligned coral flat E Seagrass flat F Prograding sand sheet G Intertidal sand & silt flat H Seagrass sand & silt flat

I	Seagrass flat
J	Coral and algal flat
K	Blue hole mosaic 1
L	Blue hole mosaic 2
M	Blue hole mosaic 3
N	Algal covered staghorn
O	Massive coral outcrops
P	Emergent reef
Q	Sandy lagoon floor
R	Sand shoal
S	Sandy with seagrass
T	Seagrass bed
U	Seagrass bed - Syringodium
V	Mixed seagrass and algal bed
Y	Unidentified (code missing in original map)
Z	Islands

LOOKUP TABLE: MARTYPE.LUT (for TYPE) (pc ARC/INFO - shadeset COLOR)
MARINE.LUT (for CODE) (pc ARC/INFO – shadeset COLOR)

MARINE RESOURCES

COVER: **MARRES**

FEATURES: Important marine features including the navigation channels, 'The Rip', reef flat replenishment zone and fish nursery, which combine with the features in MARRES2 cover to produce the MARINE RESOURCES map used in the planning report

SOURCES AND ACCURACY: Generalised areas based on advice from ANPWS Conservator (P. Stevenson)

ATTRIBUTES: TYPE

0	Islands
1	The rip
2	Boat channel
3	Reef flat replenishment zone

LOOKUP TABLE: MARRES.LUT (pc ARC/INFO - shadeset COLOR)

SML: MARRES.SML (creates plot file for map used in report - combined with cover MARRES2)

COVER: MARRES2

FEATURES: As for MARINE cover, however, the cover was modified to overcome the polygon size limitation of pc ARC/INFO by subdividing large polygons. This cover is not needed for use in other ARC/INFO systems since the cover MARINE can be used. For the purposes of preparing a simplified map for the MARINE RESORCES map in the planning report, some habitat codes were grouped as indicated in the attributes section below.

SOURCES AND ACCURACY: As for MARINE cover.

ATTRIBUTES: TYPE AND CODE as for MARINE cover with grouping of codes as follows:

Seaward Reef Slope (A)
Coral and Algal Reef Flat (B, C, D, E)
Prograding Sand Sheet (F)
Intertidal Sand and Silt Flat (G)
Seagrass Flats (H,I,S,T,U, V)
Coral Flat and Patch Reefs (J,N,O,P)
Blue Holes (K,L,M)
Sandy Lagoon Floor (Q R)

LOOKUP TABLE: MARTYPE.LUT (for TYPE) (pc ARC/INFO - shadeset COLOR)
MARRES2.LUT (for CODE) (pc ARC/INFO - shadeset COLOR)

KEY FILE: MARRES2.KEY

SML: MARRES.SML (creates plot file for map used in report - combined with cover MARRES)

RECREATION RESOURCES

COVER: **RECRES**

FEATURES: Major locations of recreation activities including picnic and swimming areas, sailing, surfing, diving, reef walking, sports facilities, and other recreation areas such as the golf course and recreation spaces around West Island settlement. Other open space areas are areas with no specific facilities which are available for informal recreation.

SOURCES AND ACCURACY: Generalised boundaries based on advice from ANPWS Conservator (P. Stevenson) and others and field observations

ATTRIBUTES: TYPE (recreation resource type)

0	Open space
1	Picnic and swimming areas
2	Sports facilities
3	Other recreation space
4	Marine recreation

LOOKUP TABLE: RECRES.LUT (pc ARC/INFO - shadeset COLOR)

KEY FILE: RECRES.KEY

SML: RECRES.SML (creates plot file for map used in report)

HERITAGE SITES

COVERS: **SITES, SITES2, NKSITES**

FEATURES: Sites on the Register of the National Estate (polygons in SITES2 coverage) and other sites of heritage interest (points in SITES coverage) including cemeteries, ship wrecks, monuments and war relics. NKSITES cover includes the wreck of the 'EMDEN'.

SOURCES AND ACCURACY: Generalised locations based on advice of ANPWS Conservator (P. Stevenson) and field inspection of some sites.

ATTRIBUTES: TYPE (heritage site type) - point features in SITES and NKSITES covers

1	Oceania House

2 Cemeterys
3 Memorials
4 Ship wrecks
5 Other sites (guns, cable stn etc)

Note - site names are identified in annotation

TYPE - polygon features in SITES2 cover

1 Sites on the RNE

LOOKUP TABLE: SITES.LUT (pc ARC/INFO)

KEY FILE: SITES2.KEY

SML: SITES.SML (creates plot file for map report, using combination of these covers)

TOURIST RESORT PROPOSALS

COVER: TOURIST

FEATURES: Areas in which tourist resorts have been proposed and studies have been carried out

SOURCES AND ACCURACY: Notional boundaries suggested by proponents but not surveyed in detail

ATTRIBUTES: None

SML: TOURIST.SML (creates plot file for map used in report)

RUBBISH PROBLEM AREAS

COVER: RUBBISH

FEATURES: Areas in which dumped rubbish is a problem, mostly on beaches and in the lagoon

SOURCES AND ACCURACY: Generalised areas based on advice from ANPWS Conservator (P. Stevenson), mostly field inspected but not accurately mapped

ATTRIBUTES: DUMP

1 Rubbish problem areas

KEY FILE: RUBBISH.KEY

SML'S:	RUBBISH.SMI, WESTDUMP.SW, HOMEDUMP.SML (createplot files for maps used in report)
COVERS:	**WESTUSE2, HOMEUSE2, NORTHUSE, SOUTHUSE, OTHERUSE, NKUSE**
FEATURES:	Areas classified according to their existing use in the planning study
SOURCES AND ACCURACY:	Based on 1:10,000 cadastral map boundaries and detalled maps of settlement areas. Many boundaries were defined during the planning study.
ATTRIBUTES:	USE (land use category)

1	Airport
2	Residential
3	Community facilities
4	Commercial
5	Admin. and utility services
6	Industrial and extractive
7	Tourism
8	Recreation facilities
9	Horticulture
10	Open space
11	Roads and carparks
12	Vacant urban land

LOOKUP TABLE:	LANDUSE.LUT (pc ARC/INFO - shadeset COLOR) USE5.LUT (ARC/INFO Rev. 6 - shadeset CMYK)
KEY FILES:	LANDUSE.KEY, LANDUSE2.KEY, WESTUSE.KEY, HOMEUSE.KEY (pc ARC/INFO) USE5.KEY (ARC/INFO Rev. 6)
SML'S:	LANDUSE.SML, WESTUSE.SML, HOMEUSE.SML, (create plot files for maps used in report)
AML:	LANDUSE5.AML

LAND USE PLANNING OPTIONS

COVERS:	**WESTOPT, HOMEOPT, NORTHOPT**
FEATURES:	Areas identified in planning study as having potential for particular future uses

SOURCES AND ACCURACY:	Based on existing land use covers - boundaries defined during the planning study
ATTRIBUTES:	OPT (planning options categories - an extension of the existing land use categories)

1	Airport
2	Housing
4	Commercial Development
6	Industrial Area
7	Tourism Development
11	Roads
12	No specific Use
13	Foreshore Protection
14	Rural/Nature Conservation
15	Commonwealth Sites
16	Existing Settlements

LOOKUP TABLE:	OPT.LUT (pc ARC/INFO - shadeset COLOR) OPT2.LUT (ARC/INFO Rev. 6 - shadeset CMYK)
KEY FILES:	OPTIONS.KEY, OPTIONS2.KEY, WESTOPT.KEY, HOMEOPT.KEY (pc ARC/INFO) OPTIONSM.KEY, OPTIONS2M.KEY, WESTOPTM.KEY, HOMEOPTM.KEY (pc ARC/INFO - Cocos-Malay version) OPT5.KEY (ARC/INFO Rev. 6) OPT5M.KEY (ARC/INFO Rev. 6 - Cocos-Malay version)
SML'S:	OPTIONS.SML, WESTOPT.SML, HOMEOPT.SML, OPTIONSM.SML, WESTOPM.SML, HOMEOPTMSML (create plot files for maps used in report - last letter ‘M’ of filename indicates Cocos-Malay version)
AML:	OPTIONS2.AML

DRAFT LAND USE PLAN

COVERS:	**WESTPREF, HOMEPREF, NORPREF**
FEATURES:	Areas identified in planning study as being part of the preferred short to medium term planning strategy and included in the Draft Land Use Plan
SOURCES AND ACCURACY:	Based on planning options covers - boundaries defined during the planning study
ATTRIBUTES:	OPT (planning options categories - an extension of the existing land use categories and the same as used in the planning options covers)

1	Airport
2	Housing
4	Commercial Development
6	Industrial Area
7	Tourism Development
11	Roads
12	No specific Use
13	Foreshore Protection
14	Rural/Nature Conservation
15	Commonwealth Sites
16	Existing Settlements

LOOKUP TABLE: OPT.LUT (pc ARC/INFO - shadeset COLOR)
OPT2.LUT (ARC/INFO Rev. 6 - shadeset CMYK)

KEY FILES: OPTIONS.KEY, OPTIONS2.KEY, WESTOPT.KEY, HOMEPREF.KEY (pc ARC/INFO)
OPTIONSM.KEY, OPTION2M.KEY, WESTOTTM.KEY, HOMEPREM.KEY (pc ARC/INFO - Cocos-Malay version)

OPT5.KEY (ARC/INFO Rev. 6)

SML'S: PREF.SML, WESTPREF.SML, HOMEPREF.SML, PREM.SML, WESTPREM.SML, HOMEPREM.SML (create plot files for maps used in report - last letter M of filename indicates Cocos-Malay version)

AML: PREF2.AML

DRAFT PLANNING SCHEME

COVERS: WESTZONE, HOMEZONE, NORZONE, SOUZONE, OTHZONE

FEATURES: Areas identified in planning study as the statutory planning scheme zone and reserved land areas

SOURCES AND ACCURACY: Based on planning options covers - boundaries defined during the planning study

ATTRIBUTES: ZONE (planning scheme classification)

1	Nature Conservation
2	Foreshore Protection
3	Marine Protection
4	Common
5	Administrative Purposes
6	Housing

	7	Community
	8	Recreation
	9	Commercial
	10	Tourist
	11	Industrial
	12	Rural
	13	Vacant
	14	Roads

LOOKUP TABLE: ZONE.LUT (pc ARC/INFO - shadeset COLOR)
ZONE2.LUT (ARC/INFO Rev. 6 - shadeset CMYK)

KEY FILES: ZONE.KEY, RESERVE.KEY, WESTZONE.KEY, WESTRES.KEY, HOMEZONE.KEY, HOMERES.KEY (pc ARC/INFO)
ZONEM.KEY, RESERVEM.KEY, WESTZM.KEY, WESTRESM.KEY, HOMEZM.KEY, HOMERESM.KEY (pc ARC/INFO - Cocos-Malay version)
ZONE3.KEY, RESERVE3.KEY (ARC/INFO, Rev. 6)
ZONE3M.KEY, RES3M.KEY (ARC/INFO, Rev. 6 - Cocos-Malay version)

SML'S: ZONE.SML, WESTZONE.SML, WIINSET.SML, HOMEZONE.SML, ZONEM.SML, WESTZM.SML, WIINSETM.SML, HOMEZM.SMI, (create plot files used for maps in report - last letter M of filename indicates Cocos-Malay version)

AML: ZONE2.AML

SAMPLE SML'S AND AML'S

ZONE.SML - USED TO CREATE A PLOT FILE USING PC ARC/INFO FOR OUTPUT TO EITHER A HP 8 PEN PLOTTER OR A TEKTRONIX COLOUR PRINTER FOR THE PLANNING SCHEME MAP OF COCOS ISLANDS

(Note - the colour printer produces best fit on an A4 page rather than drawing to scale dimensions are set for an A1 page for plotter output)

```
&rem Produces a plot of Cocos islands (all)

&label start
&type
&type "Producing a colour plot of Cocos Islands"
&type
&ask 1 "Type <RETURN> to continue"
&type
&type "Enter cover required:"
&type
&ask 1 "> [ISLANDS] " ISLANDS
&type

&label dudname

&type
&type "Plot file will be named ZONEx.PLT"
&ask 6 "Enter file name [ZONE]: "ZONE
&sv 6 %6.PLT
&goto okname &if &nf %6
dialogclear
&type "%6 already exists..."
&goto dudname

&label okname

dialogclear
&type
&query 5 "Continue " &Y
&goto end &if &eq %5 N
dialogclear

&label makemap
```

```
map %6
mapext %1
mapunits meters
pageunits inches
pagesize 22 32
mapscale 25000
mappos cen cen

textfont 1
textcolor 1
textquality proportional
shadeset color

maplimits 0 0 22 26
polygonshades lagoon zone zone.lut
polygonshades westzone zone zone.lut
polygonshades souzone zone zone.lut
polygonshades homezone zone zone.lut
polygonshades othzone zone zone.lut
polygonshades norzone zone zone.lut

arclines reef 4
arclines westzone
arclines west 4
arclines home 4
arclines roads 2
arclines south 4
arclines north 4

annotext islands
annotext reef
annotext westzone 2
annotext homezone
annotext southuse
annotext norzone

maplimits 126.5 7 31
mapext nkuse
polygonshades nklagoon zone zone.lut
polygonshades nkuse use landuse.lut
arclines northk 4
arclines nkreef 4
annotext northk
annotext nkuse

maplimits page
```

```
textsize .6
move 9 31
text 'DRAFT SCHEME MAP,
textsize .25
move .5 1
text 'See Figures 19 and 20'
move .5 .5
text 'for details of West, Direction and Home Islands'


keybox .5 .5
keyseparation .75 .25

move 9 30
text 'RESERVED LAND'
keyposition 9 29.5
keyshade reserve.key
move 9.75 29.25
text 'NC'
move 9.75 27
text 'C'

move 17 30
text 'ZONES'
keyposition 17 29.5
keyshade zone.key
move 17.75 26.25
text 'T'

linesym 13
box 0 0 22 32
box 126.5 7 31

map end

&label end
```

ZONEM.SML - SIMILAR TO ZONE.SML, BUT USED TO CREATE A PLOT FILE OF THE PLANNING SCHEME IN THE COCOS-MALAY LANGUAGE

```
&rem Produces a plot of Cocos islands (all)

&label start
&type
&type "Producing a colour plot of Cocos Islands

&type
&ask 1 "Type <RETURN> to continue"
&type
&type "Enter cover required:"
&type
&ask 1 "> [ISLANDS] " ISLANDS
&type

&label dudname,

&type
&type "Plot file will be named ZONEx.PLT"
&ask 6 "Enter file name [ZONE]: "ZONE

&sv 6 %6.PLT
&goto okname &if &nf %6
dialogclear
&type "%6 already exists..."
&goto dudname

&label okname

dialogclear
&type
&query 5 "Continue " &Y
&goto end &if &eq %5 N
dialogclear

&label makemap

map %6
mapext %1
mapunits meters
pageunits inches
pagesize 22 32
mapscale 25000
mappos cen cen
```

```
textfont 1
textcolor 1
textquality proportional
shadeset color

maplimits 0 0 22 26
polygonshades lagoon2 zone zone.lut
polygonshades westzone zone zone.lut
polygonshades souzone zone zone.lut
polygonshades homezone zone zone.lut
polygonshades othzone zone zone.lut
polygonshades norzone zone zone.lut

arclines lagoon 4
arclines westzone 1
arclines west 4
arclines home 4
arclines roads 2
arclines south 4
arclines north 4

annotext islands 2
annotext lagoon 2
annotext westzone 4
annotext homezone 2
annotext southuse 2
annotext norzone 3 4

maplimits 126.5 7 31
mapext nkuse
polygonshades nklagoon zone zone.lut
polygonshades nkuse use landuse.lut
arclines northk 4
arclines nkreef 4

annotext northk 2
annotext nkuse 2

maplimits page,

textsize .6
move 9 31
text 'CONTOH KAR SKEMA'
textsize .25
move .5 1
text 'Lihat gambar 19 dan 20'
move .5 .5
text 'di mana ada keterangan pasal Pulu Tikus, Pulu Panjang dan Home Island.'
```

```
keybox .5 .5
keyseparation .75 .25

move 9 30
text 'TANAH LINDUNGAN'
keyposition 9 29.5
keyshade reservem.key
move 9.75 29.25
text 'PA'
move 9.75 27
text TU

move 17 30
text 'VATASAN-WATASAN'
keyposition 17 29.5
keyshade zonem.key
move 17.75 26.25
text 'P'



linesym 13
box 0 0 22 32
box 126.5 7 31

map end

&label end
```

ZONE2.AML - USED TO CREATE A PLOT FILE USING ARC/INFO REV. 6 AND A CALCOMP ELECTROSTATIC PLOTTER TO PRODUCE AN AO PRESENTATION MAP OF THE PLANNING SCHEME

```
ap
disp 1040
zone2.gra

mapext islands
mapunits meters
pageunits inches
pagesize 32 46
mapscale 18000
mappos cen cen

textfont 92534
textcolor 1
textquality proportional
shadeset cmyk
textset /esrimods/symbols/ncarto.txt

maplimits 0 0 32 36

polygonshades lagoon zone zone2.lut
polygonshades westzone zone zone2.lut
polygonshades souzone zone zone2.lut
polygonshades homezone zone zone2.lut
polygonshades othzone zone zone2.lut
polygonshades norzone zone zone2.lut

arclines reef 4
arclines westzone 1
arclines homezone 1
arclines norzone 1
arclines islands 4
arclines roads 2
arclines utils 3
arclines airport 3

annotext islands
annotext reef
annotext westzone 12
annotext homezone 1
annotext souzone 1
annotext norzone 1

maplimits 2 37 10 43
mapext tics nkuse
```

Chapter 10

Appendix 7: ECOWISE Environmental Report of Water Resources Component, Cocos (Keeling) Islands GIS.

Note: Includes maps supplied with the report and data.

EHYD2000/10

Report
on

Water Resources Component
Cocos (Keeling) Islands GIS

by
Tanya Whiteway and Tony Falkland
Ecowise Environmental

prepared for
Cocos Island Administration,
Department of Transport and Regional Services
&
the Australian Geological Survey Organisation

April 2001

Table of Contents

1. EXECUTIVE SUMMARY 1

1.1. Introduction 1

1.2. Outputs 1

1.3. Recommendations 1

2. DATA LOCATION AND CD STRUCTURE 2

2.1. Cocos.apr 2

2.2. Documentation Directory 3

2.3. Data Directory 3

2.3.1. Shapefiles Sub-Directory 3

2.3.2. Images Sub-Directory 4

2.3.3. Excel&dbf Sub-Directory 4

3. SHAPEFILES METADATA 5

3.1. Bores.shp 5

3.2. Homeis_Galleries.shp 5

3.3. Homeis_Pumpst.shp 5

3.4. Homeis_Manholes.shp 6

3.5. Homeis_Saline_testpts.shp 6

3.6. Homeis_lens.shp 6

3.7. Homeislens_line.shp 7

3.8. Westis_Galleries.shp 7

3.9. Westis_Pumpst.shp 7

3.10. Westis_Manholes.shp 8

3.11. Westis_lens.shp 8

3.12. Westislens_line.shp 8

3.13. Possiblelens_extent.shp 9

3.14. Southis_lens.shp 9

3.15. Southis_lensli.shp 9

3.16. Cocos_line.shp, Cocos_land.shp and cocos.shp 10

4. LIST OF REFERENCES 10

Abbreviations

AGSO Australian Geological Survey Organisation

DTRS Department of Transport and Regional Services

1. Executive Summary

1.1. Introduction

As outlined in the "Proposal for developing water resources 'layers' for the Cocos GIS", water resources data has been collated and entered into digital format for the following islands on the South Keeling atoll of the Cocos (Keeling) Islands;

- Home Island,
- West Island, and
- South Island.

The following data layers have been collated on a CD in ArcView shapefile format:

- Locations of freshwater lenses showing boundaries as best current information will allow.
- Locations of salinity monitoring and pollution monitoring boreholes, including co-ordinates.

Additional data and information on the CD includes:

- Tabular and graphical data showing variation of salinity (expressed in electrical conductivity units) monitoring borehole data. Data collected covers the full period of record from commencement of monitoring to late 2000.
- Tabular water quality data have been obtained from the pollution monitoring boreholes between 1998 and early 2001.
- Locations of pumping wells and manholes at the Settlement and galleries on Home Island and in the northern part of West Island (for former Quarantine Station and horticultural block), as best current information will allow.
- List of relevant reports and additional reference information.

1.2. Outputs

As required, outputs of this project include:

- Water resources layers with spatial data and attribute data on a CD (entitled Cocos Water Resources CD). This CD will be made available to the Australian Geological Survey Organisation for incorporation into the overall Cocos GIS and for subsequent distribution to the Cocos Island Administration, the Department of Transport and Regional Services and other authorised users. Separate copies of the CD can be made available, on request, to the Cocos Island Administration and the Department of Transport and Regional Services.
- This report summarising the data layers on the accompanying CD.

1.3. Recommendations

<u>(a) Need for greater accuracy of some locations</u>

While this project has mapped boreholes and water supply pumping infrastructure as accurately as possible, it is recommended that the location of boreholes and pumping wells be obtained more accurately in the field. In particular, boreholes and pump wells in the northern part of West Island should be more accurately located with differential GPS or surveyed by standard procedures. In addition, the position of gallery 8 in the northern part of Home island should be more accurately located once as-constructed drawings are finalised by others.

(b) Need for updating of water quality data at 2 year intervals

The water quality data obtained from boreholes and other sites (e.g. gallery pump wells) is obtained at regular intervals and databases are updated as part of regular monitoring program. It is recommended that the water resources information contained in this GIS be updated at appropriate intervals (e.g. every 2 years).

2. Data Location and CD Structure

The Cocos Water Resources CD consists of the following files and directories:

- Cocos.apr file
- Data directory
- Documentation directory

Details of each of these are described below:

2.1. Cocos.apr

"Cocos.apr" is an Arcview project which includes base data from "Cocos (Keeling) Islands GIS Stage 1 Report" CD data, and rectified aerial photography, as obtained from AGSO.

The project is in the same projection as the base data using Cocos (Keeling) Islands Grid 1992 (CKIG92) projection.

The project is set up with six Views:

(a) Cocos Islands Working View. (Views the entire Cocos Island water resources data set including all data sets.)

(b) West Island South View. (Detailed View of southern part of West Island including the airfield and Settlement showing boreholes, pumping wells and the approximate boundary of the "Airfield" freshwater lens.)

(c) West Island North View. (Detailed View of northern part of West Island showing boreholes, galleries for former Quarantine Station and horticultural block and the approximate boundary of the "West Island Northern" freshwater lens.)

(d) Home Island View (Detailed View of Home Island showing boreholes and approximate boundary of "Home Island Main" and "Home Island Northern" freshwater lenses.)

(e) South Island View. (Detailed View of South Island showing boreholes and approximate boundary of freshwater lenses.)

(f) Home Island Infiltration Galleries View. (Detailed View of Home Island, including boreholes and Infiltration Gallery Layouts.).

The hotlink tool (in all views of Cocos.apr) has been set up to connect salinity monitoring borehole locations with graphs showing the change in salinity from 1987 through to 2000 at each borehole. To access the hotlink, click on the hotlink button and then click on a borehole point. This will bring up an image of the graph in Internet Explorer.

There are also six layout windows (A4 paper size), one per view.

2.2. Documentation Directory

The contents of the Documentation Directory are summarised in the table below.

Contents of the Documentation Directory

File Name and Type	Properties/Description
Report.doc	• Summary of Data collection process, and data collected • Outlines the type and location of data on the CD • Outlines the metadata for all shapefiles on the CD • Lists other references to the data, and includes other sources of information for Cocos Islands water resources
Cocos Gallery Cross section (from Woodroffe and Falkland, 1997).bmp	Cross sectional Diagram of a buried infiltration gallery (Home island type)
Salinity_monitoring_bore.bmp	Cross sectional Diagram of a Salinity Monitoring Borehole
Pollution_monitoring_bore.bmp	Cross sectional Diagram of a Pollution Monitoring Borehole

2.3. Data Directory

The Data Directory consists of the following sub-directories:

- Shapefiles sub-directory
- Images sub-directory
- Excel&dbf sub-directory

2.3.1. Shapefiles Sub-Directory

The contents of the shapefiles sub-directory are summarised in the table below. Additional metadata for each shapefile, has been recorded in the metadata section of this report.

Contents of the Shapefiles sub-directory

Shapefile Name	Description
Bores.shp	Point location of salinity and pollution monitoring boreholes on all islands
Homeis_Galleries.shp	Line location of buried infiltration galleries on Home Island on Home Island
Homeis_Saline_testpts.shp	Point location of salinity testing sites situated on an infiltration gallery on Home Island
Homeis_Pumpst.shp	Point location of pump stations, pumping from an infiltration gallery on Home Island
Homeis_Manholes.shp	Point location of manholes providing access to infiltration galleries on Home Island
Homeis_lens.shp	Polygon shapefile, delineating the approximate location of the freshwater lens on Home Island
Homeislens_line.shp	Line shapefile, outlining the approximate boundary of the freshwater lens on Home Island

Westis_lens.shp	Polygon shapefile, delineating the approximate location of the freshwater lens on West Island
Westislens_line.shp	Line shapefile, outlining the approximate boundary of the freshwater lens on West Island
Westis_pumpst.shp	Point location of pump stations, pumping from an infiltration gallery on West Island
Westis_manholes.shp	Point location of manholes providing access to infiltration galleries on West Island
Westis_galleries.shp	Line location of buried infiltration galleries on West Island
Southis_lens.shp	Polygon shapefile, delineating the approximate location of the freshwater lens on South Island
Southis_lensli.shp	Line shapefile, outlining the approximate boundary of the freshwater lens on South Island
Possiblelens_extent.shp	Line shapefile indicating the possible further extent of the freshwater lens on Home Island.
Cocos_line.shp, Cocos_land.shp, and Cocos.shp	Base data collected in the initial data collection and stored on the "Cocos Stage 1 CD.

2.3.2. Images Sub-Directory

There are 89 Mr Sid rectified images for the whole of South Keeling atoll in the images sub-directory. Mr Sid files can only be read in ArcView if the Mr Sid Image Support extension tool has been selected via the files/extension menu.

2.3.3. Excel&dbf Sub-Directory

The contents of the Excel&dbf sub-directory are summarised in the table below.

Contents of the Excel&dbf sub-directory

File Name and Type	Properties/Description
AGAL_test_results_environmental_ galleries&borholes.xls	Water quality data from both galleries and pollution monitoring boreholes. Data has been recorded for June 1998, April 1999, May 1999, June 2000, April 2000, October 2000 and January 2001.
Cocos_bore_data.xls	Cocos borehole salinity data from 1987 to 2000, at approximately 3 month intervals.
Graphs_Images sub-Directory	This sub-directory contains 82 files in wmf and jpg format showing graphs of salinity (electrical conductivity or EC) variations for each salinity monitoring borehole over the full period of monitoring. The monitoring periods vary according to the year of drilling, the earliest being 1987. The graphs show the depth below ground surface to the following salinity (EC) values: 1000, 2500, 10,000, 25,000 and 40,000 µS/cm, based on linear interpolation from measurements at specific depths. These EC values correspond to salinities of 2%, 5%, 20%, 50% and 80% of seawater.

3. Shapefiles Metadata

All shapefiles collected on the CD have been converted to Cocos (Keeling) Islands Grid 1992 (CKIG92) projection, World Geodetic System 1984 (WGS 84) Datum. Metadata and a description of each shapefile is provided below.

3.1. Bores.shp

The 'bores' shapefile contains point locations of salinity monitoring and pollution monitoring boreholes.

Accuracy: Data was originally digitised from points surveyed by Nolan and Partners Surveyors, Perth. Points have been modified based on data collected from hand drawn maps, reports and local island knowledge (see references). Accuracy is within ± 20m for 80% of the points. 20% of the points, especially some of those situated on the northern part of West Island and Home Island have an accuracy of ± 50m.

Field	Properties/Description
Shape	Shapefile type (points)
Label	Borehole Labels (Excluding Island Prefix)
Borehole	Borehole Name (Including Island Prefix)
Bore Type	Salinity or Pollution Monitoring Borehole
Graph_link	Hotlink to Graphs of salinity (EC) v's time for each borehole
x-coord	X coordinates of boreholes in CKIG92, WGS 84 projection
y-coord	Y coordinates of boreholes in CKIG92, WGS 84 projection

3.2. Homeis_Galleries.shp

Homeis_Galleries.shp is a line shapefile showing location of infiltration galleries.

Accuracy: Lines have been recorded based on data collected from hand drawn maps and reports and local knowledge (see references). Location of Galleries should fall within ± 20m accuracy.

Field	Properties/Description
Shape	Shapefile type (line)
ID	Identifier
Name	Gallery Name and Number

3.3. Homeis_Pumpst.shp

The 'Homeis_Pumpst' shapefile contains point locations of water pumping wells, either as part of an infiltration gallery (Home Island and northern West Island) or as wells with short lateral pipes (West Island Settlement).

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of pumping wells should fall within ± 20m accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
Id	Identifier
Code	Name and number of Pump station

3.4. Homeis_Manholes.shp

The 'Homeis_Manholes' shapefile contains point locations of manholes providing access to infiltration galleries shown in "homeis_galleries.shp".

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of manholes has been based on the location of infiltration galleries, therefore the location of manholes should fall within ± 20m accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
Id	Identifier

3.5. Homeis_Saline_testpts.shp

The 'Homeis_saline_testpts' shapefile contains point locations of salinity testing sites located along Home Island infiltration galleries.

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of salinity testing points has been based on the location of infiltration galleries. Therefore, the location of salinity testing points should fall within ± 20m accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
ID	Identifier
Name	Gallery Name and Number of the test point

3.6. Homeis_lens.shp

The 'Homeis_lens' shapefile contains polygon data indicating the approximate boundary of the Home Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (polygons)
Fid	Identifier
Perimeter	Total lens perimeter
Area	Total lens area

3.7. Homeislens_line.shp

The 'Homeislens_line' shapefile contains line data indicating the approximate boundary of the Home Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier
Fid	Identifier
Length	Line length

3.8. Westis_Galleries.shp

Westisis_Galleries.shp is a line shapefile showing location of infiltration galleries.

Accuracy: Lines have been recorded based on data collected from hand drawn maps and reports and local knowledge (see references). Location of Galleries should fall within ± 20m accuracy.

Field	Properties/Description
Shape	Shapefile type (line)
ID	Identifier
FID	Identifier
Name	Gallery Name and Number

3.9. Westis_Pumpst.shp

The 'Westis_Pumpst' shapefile contains point locations of water pumping wells, either as part of an infiltration gallery (Home Island and northern West Island) or as wells with short lateral pipes (West Island Settlement).

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of pumping wells should fall within ± 20m accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
Id	Identifier
FID	Identifier
Code	Name and number of Pump station

3.10. Westis_Manholes.shp

The 'Westis_Manholes' shapefile contains point locations of manholes providing access to infiltration galleries shown in "homeis_galleries.shp".

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of manholes has been based on the location of infiltration galleries, therefore the location of manholes should fall within ± 20m accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
FID	Identifier
Id	Identifier

3.11. Westis_lens.shp

The 'Westis_lens' shapefile contains polygon data indicating the approximate boundary of the West Island freshwater lenses.

Accuracy: Estimated extent of the freshwater boundary is based on information from salinity monitoring boreholes and some estimation based on knowledge of freshwater lens behaviour near the edges of coral islands. The boundaries are somewhat subjective and in fact are not fixed as they will move according to wet and dry periods. Hence, it is difficult to provide a general accuracy estimate. It could be said that the freshwater lens boundary would normally be within ± 30m of the boundary shown, but that this could be greater during very dry or very wet periods

Field	Properties/Description
Shape	Shapefile type (polygons)
Fid	Identifier
Perimeter	Total lens perimeter
Area	Total lens area

3.12. Westislens_line.shp

The 'Westislens_line' shapefile contains line data indicating the approximate boundary of the West Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier
Fid	Identifier
Length	Line length

3.13. Possiblelens_extent.shp

The 'Possiblelens_extent' shapefile contains line data indicating possible further extent of the freshwater lenses on Home Island.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier

3.14. Southis_lens.shp

The 'Southis_lens' shapefile contains polygon data indicating the approximate boundary of the South Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (polygons)
Fid	Identifier
Area	Total lens area
Perimeter	Total lens perimeter

3.15. Southis_lensli.shp

The 'Southis_lensli' shapefile contains line data indicating the approximate boundary of the South Island freshwater lens.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier
Length	Line length

3.16. Cocos_line.shp, Cocos_land.shp and cocos.shp

These shapefiles have been used as base data, from the original Cocos stage 1 CD. Data type and accuracy relates directly to initial data collection, carried out by AGSO. This has been reported in:

'Cocos (Keeling) Islands GIS Stage 1 Report' for Territories Office, DTRS, K Porritt, B McKay and A Lucas, AGSO, 10/2/2000.

4. List of References

(a) Reports (prepared by former Department of Housing & Construction and by ACTEW Corporation and Ecowise Environmental)

Falkland A.C. (1988). Cocos (Keeling) Islands Water Resources and Management Study. Report HWR 88/12. Hydrology and Water Resources Section, ACT Electricity and Water. prepared for Australian Construction Services, WA Region.

Falkland A.C. (1991). Cocos (Keeling) Islands. South Island Water Resources Study. Report HWR 91/002. prepared for the Cocos (Keeling) Islands Administration and the Cocos (Keeling) Islands Section of the Department of the Arts, Sport, the Environment, Tourism and Territories.

Falkland A.C. (1992). Cocos (Keeling) Islands. Review of Groundwater Resources on Home and West Islands. Report HWR 92/001. prepared for Australian Construction Services, Department of Administrative Services.

Falkland A.C. (1992). Cocos (Keeling) Islands. Further Investigations of the Northern Freshwater Lens, West Island. Report HWR92/002, Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Australian Construction Services, Department of Administrative Services.

Falkland A.C. (1993). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos HWR93/01 to HWR93/06. Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Asset Services, Cocos (Keeling) Islands.

Falkland A.C. (1994). Home Island water supply options. Rpt No. HWR94/05, ACT Electricity and Water Canberra, Australia, prepared for Cocos (Keeling) Islands Section, Territories Branch, Department of the Arts, Sport and Territories

Falkland A.C. (1994). Cocos (Keeling) Islands. South Island Water Supply Scheme, Preliminary Design & Costs. Report HWR94/01, Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Australian Construction Services, Department of Administrative Services.

Falkland A.C. (1994). Cocos (Keeling) Islands. Water Monitoring Reports. Reports Nos HWR94/02 (Jan-Feb), HWR94/06 (Mar-Apr), HWR94/07 (May-Jun), HWR94/08 (Jul-Aug), HWR94/10 (Sep-Oct), HWR95/04 (Annual). Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Asset Services, Cocos (Keeling) Islands.

Falkland A.C. (1995). Cocos (Keeling) Islands. Guidelines for Water Supply Galleries. Report No HWR94/09. Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Asset Services, Cocos (Keeling) Islands.

Falkland A.C. and Pink B.J. (1995). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos HWR95/07 (Jan-Mar), HWR95/08 (Apr-Jun), HWR95/11 (Jul-Sep), HWR96/03 (Annual). Hydrology Services, ACTEW Corporation, prepared for Asset Services, Cocos (Keeling) Islands.

Pink B.J. and Falkland A.C. (1996). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos HWR96/05 (Jan-Mar), HWR96/07 (Apr-Jun), HWR96/09 (Jul-Sep), HWR97/01 (Annual). Ecowise Environmental, ACTEW Corporation. prepared for Asset Services, Cocos (Keeling) Islands.

Falkland A.C. (1997). Drilling of Salinity and Environmental Pollution Monitoring Boreholes, Cocos (Keeling) Islands. Report No HWR96/10, ECOWISE Environmental, ACTEW Corporation, prepared for WORKS Australia, April 1997.

Alam K. and Falkland A.C. (1997). Home Island Groundwater Modelling and Potential Future Groundwater Development. Report No HWR97/02, ECOWISE Environmental, ACTEW Corporation, prepared for WORKS Australia, April 1997.

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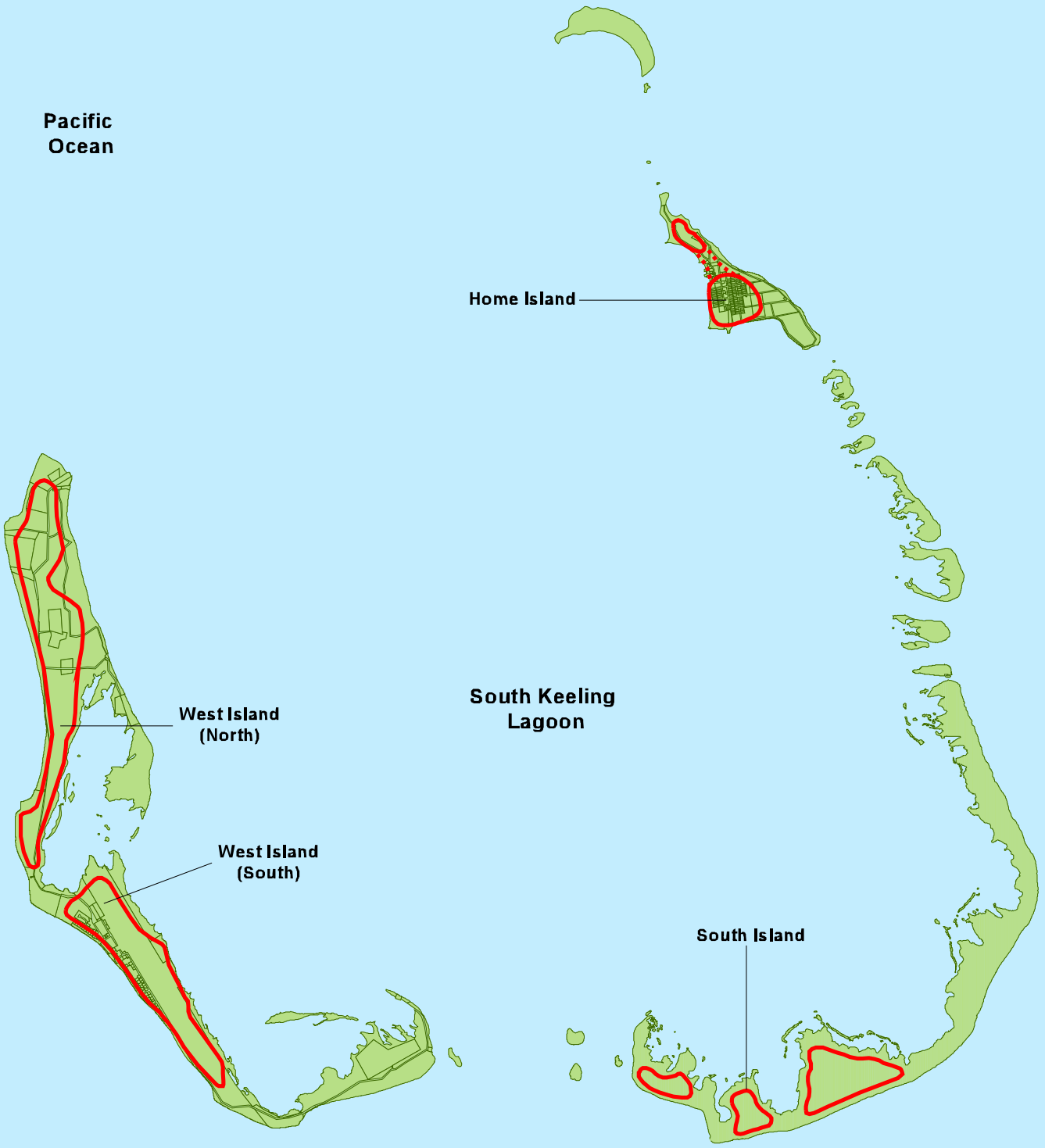
Cocos (Keeling) Islands



Map Legend

Approximate Boundary of Freshwater Lens

Cocos (Keeling) Islands

Possible further extent of freshwater lens

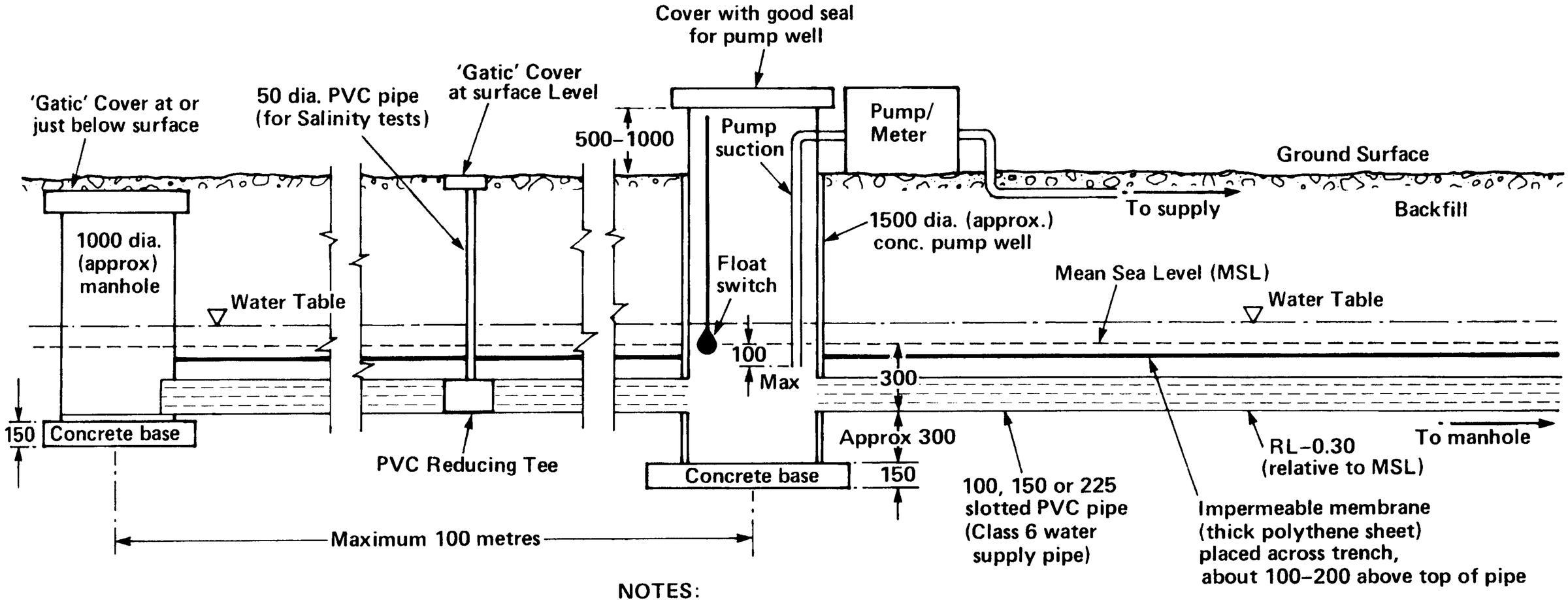
N

700 0 700 1400 2100 2800 Meters

1:70000

Projection: CKIG 1992
Datum: WGS 84

ECOWISE ENVIRONMENTAL



NOTES:

1. All joints between pipes and pump wells/manholes to be well sealed
2. Float switch level to be as close above base of pump suction as possible (without causing vortex)
3. Optional housing over pump well and pump/meter (not shown)
4. All figures in mm but drawing not to scale

Cocos (Keeling) Islands

Home Island Infiltration Galleries

Map Legend

Boreholes
- Pollution Monitoring
- Salinity Monitoring
- Salinity Test Points
- Pumping Stations
- Manholes
- Gallery Pipes
- Approximate Boundary of Freshwater Lens
- Possible further extent of Freshwater lens

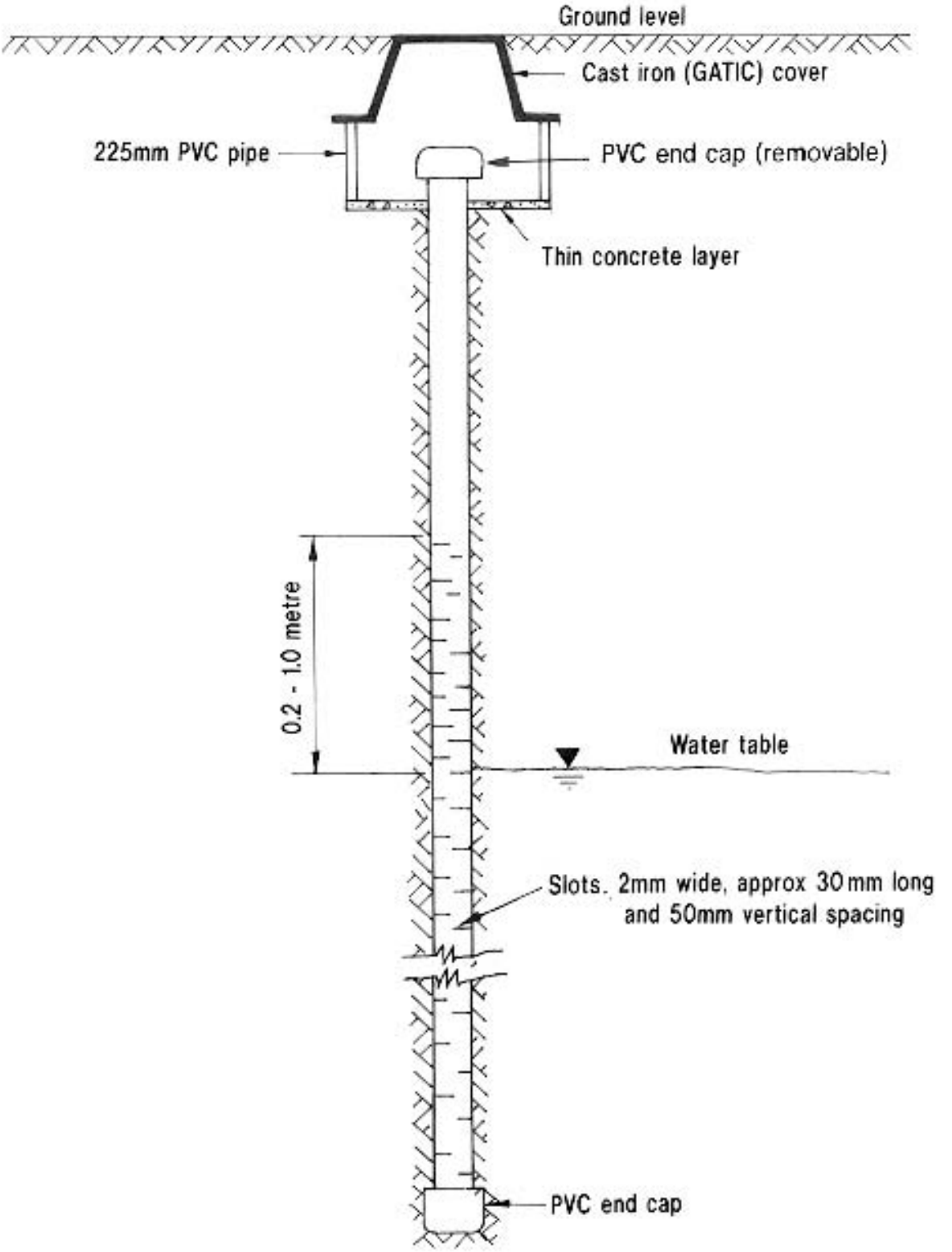
N

40 0 40 80 120 160 Meters

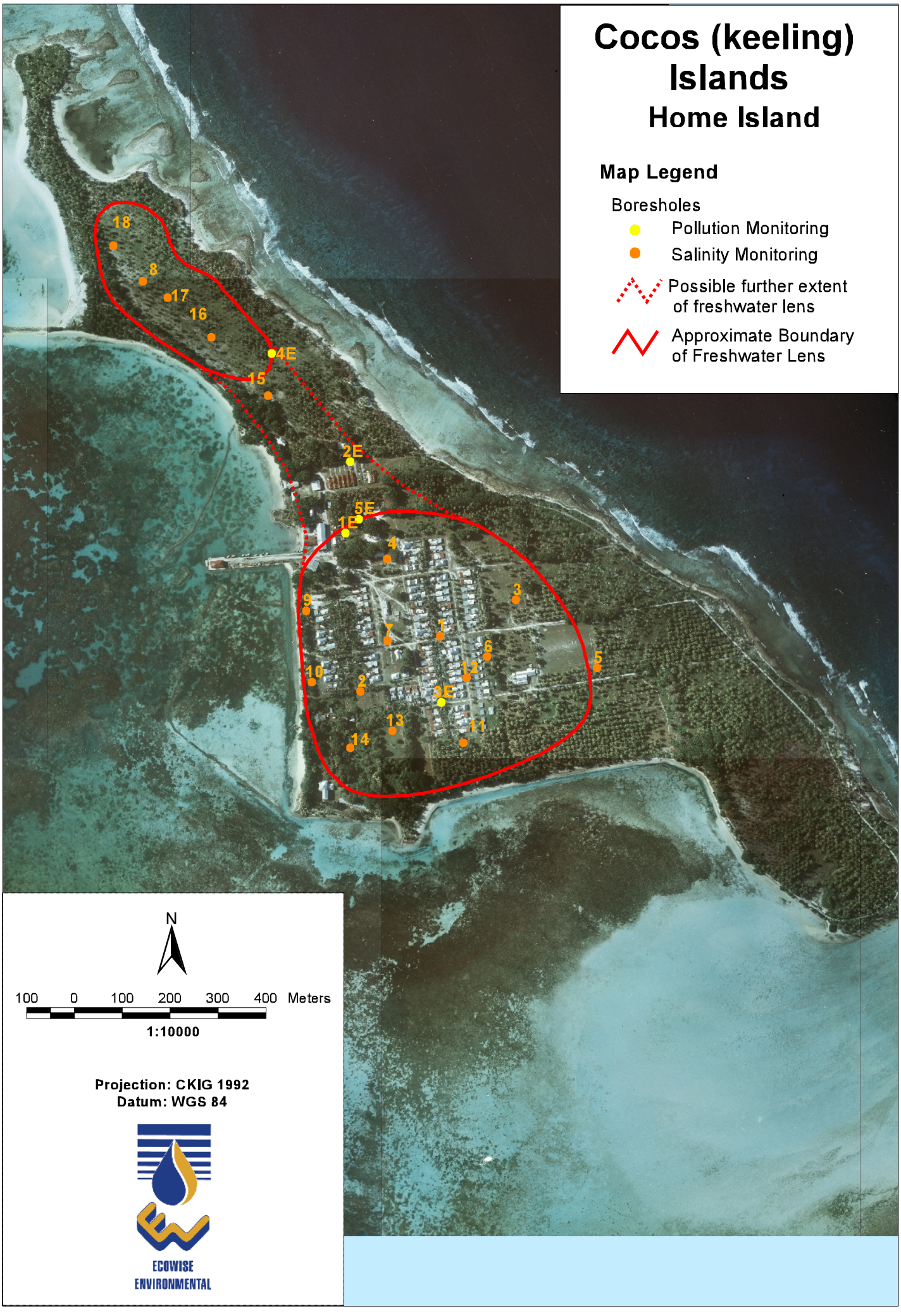
1:4000

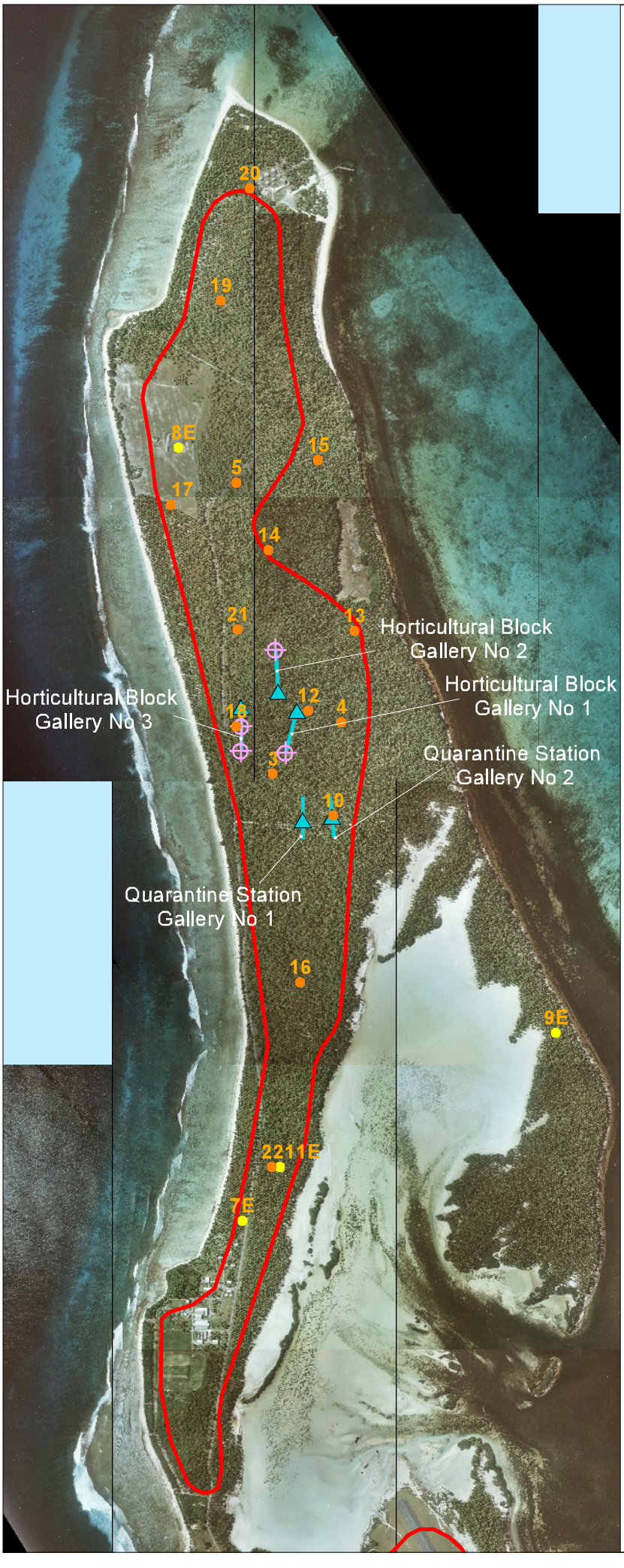
Projection: CKIG 1992
Datum: WGS 84

ECOWISE ENVIRONMENTAL



Pollution monitoring borehole: Typical installation


Cocos (keeling) Islands
Home Island
Map Legend
Boreholes
Pollution Monitoring
Salinity Monitoring
Possible further extent of freshwater lens
Approximate Boundary of Freshwater Lens
18
8
17
16
4E
15
2E
5E
1E
4
3
9
7
1
6
5
10
2
12
3E
13
11
14
N
100 0 100 200 300 400 Meters
1:10000
Projection: CKIG 1992
Datum: WGS 84
ECOWISE
ENVIRONMENTAL



Cocos (keeling) Islands

West Island (North)

Map Legend

Boreholes

- Pollution Monitoring
- Salinity Monitoring
- Pumping Stations
- Manholes
- Infiltration Gallery
- Approximate Boundary of Freshwater Lens

N

200 0 200 400 600 Meters

1:20000

Projection: CKIG 1992
Datum: WGS 84

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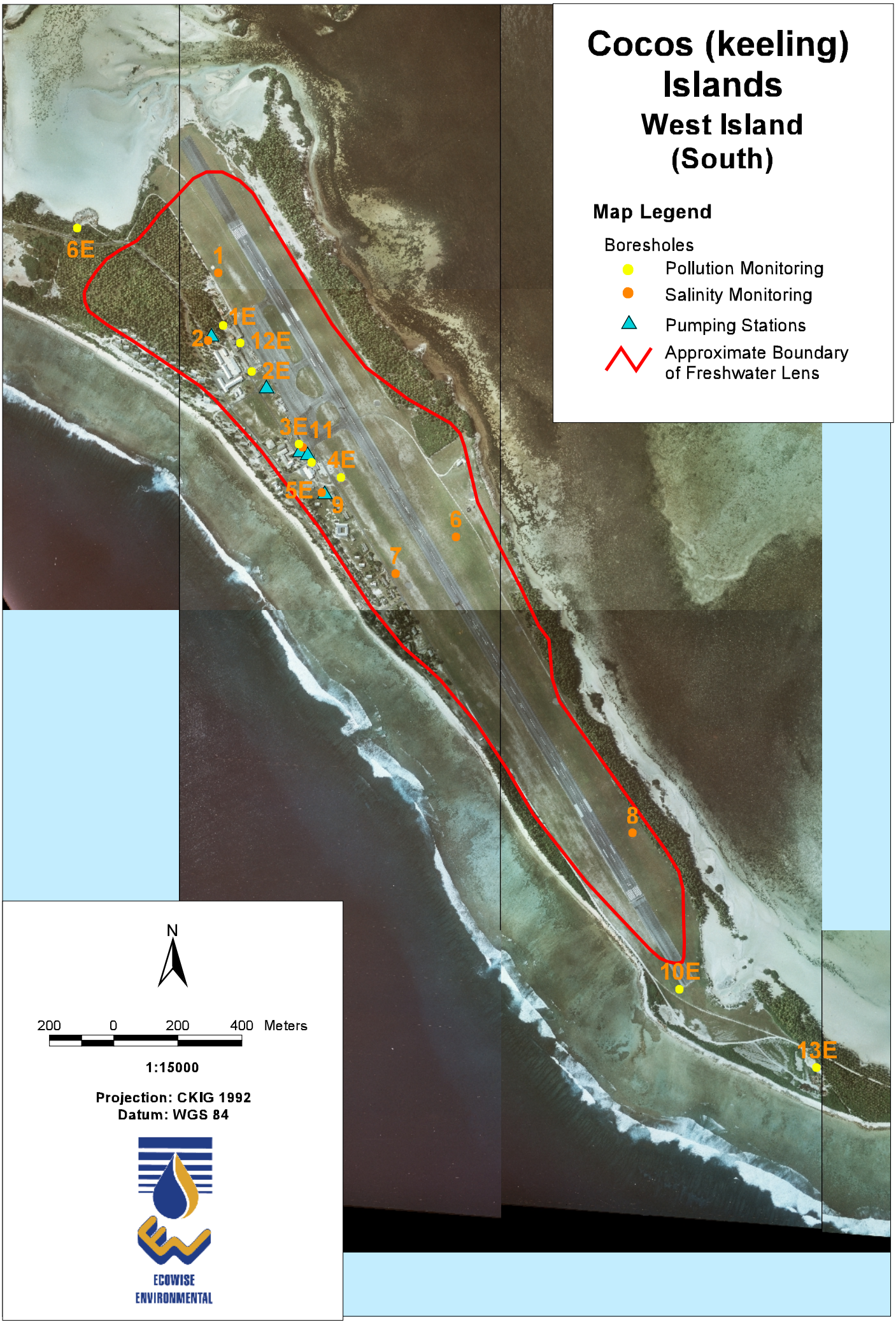

Cocos (keeling) Islands
West Island (South)
Map Legend
Boreholes
Pollution Monitoring
Salinity Monitoring
Pumping Stations
Approximate Boundary of Freshwater Lens
6E
1
1E
2
12E
2E
3E
11
4E
5E
9
6
7
8
10E
13E
N
200 0 200 400 Meters
1:15000
Projection: CKIG 1992
Datum: WGS 84
ECOWISE ENVIRONMENTAL

N

100 0 100 200 300 400 Meters

1:12000

Projection: CKIG 1992
Datum: WGS 84

Cocos (keeling) Islands

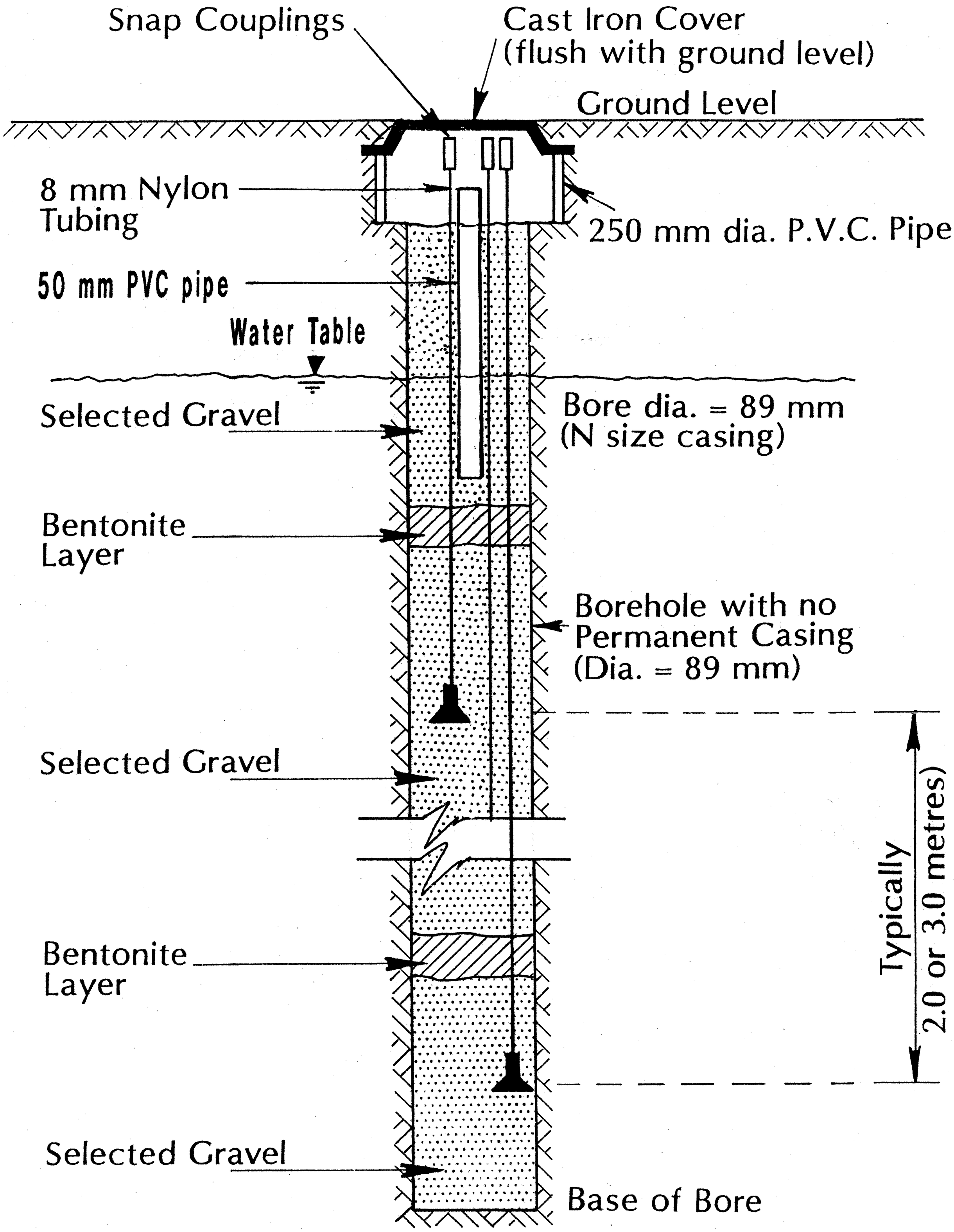
South Island

Map Legend

Boreholes

- Pollution Monitoring
- Salinity Monitoring
- Approximate Boundary of Freshwater Lens

ECOWISE ENVIRONMENTAL


Snap Couplings
Cast Iron Cover
(flush with ground level)
Ground Level
8 mm Nylon
Tubing
250 mm dia. P.V.C. Pipe
50 mm PVC pipe
Water Table
Selected Gravel
Bore dia. = 89 mm
(N size casing)
Bentonite
Layer
Borehole with no
Permanent Casing
(Dia. = 89 mm)
Selected Gravel
Typically
2.0 or 3.0 metres)
Bentonite
Layer
Selected Gravel
Base of Bore

Chapter 11

Appendix 8: Cocos GIS Data DVD.