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**VK5 National & Conservation Parks Award.**

**1. Aim**

The aim of this Award is to encourage portable operation by amateur radio operators from within South Australia’s 21 National Parks (NP), and 262 Conservation Parks (CP), which are controlled by the Department of Environment, Water and Natural Resources (DEWNR).

**2. Eligibility**

The Award is open to the following:-

(a) Activators

An individual amateur radio operator, or a group of amateur radio operators, who activate portable from within a South Australian National Park and / or a South Australian Conservation Park.

(b) Hunters

An individual who makes contact with an Activator/s operating portable from within a South Australian National Park and / or a South Australian Conservation Park.

(c) Listeners

An individual who logs the activities of an Activator/s operating portable from within a South Australian National Park and / or a South Australian Conservation Park.

**3. Valid Contacts**

(a) To qualify for the Award a radio amateur operator / short wave listener must:

1. Accrue a specified number of points by operating portable from South Australia’s National Parks and / or Conservation Parks;

or

1. Accrue a specified number of points by making contact with an amateur/s operating portable from South Australia’s National Parks and / or Conservation Parks;

or

1. Accrue a specified number of points as a short wave listener (SWL), by logging portable activations from South Australia’s National Parks and / or Conservation Parks.

(b) Contacts via Repeaters, IRLP or Echolink are not permitted.

(c) Mobile operation (defined as *in or on a vehicle*) from within a South Australian National Park / and or Conservation park is not permitted. The award is designed to encourage portable operation, and not mobile and/or stationary mobile operation.

(d) Contacts after 14thst April 2013 are valid for the Award.

(e) Each South Australian National Park shall qualify with 2 points.

(f) Each South Australian Conservation Park shall qualify with 1 point.

(g) Only one QSO is required for a park to be considered to have been activated and qualify for points.

(h) A park may be activated as often as is desired by an individual activator. However, activators can only claim points from a particular park once in every calendar year.

(i) Hunters may only claim points for a particular park, once in every calendar year.

(j) For Hunters, only one QSO with a given park on any one day (defined as 00:00 UTC to 23:59 UTC) will count for points. e.g. 2 different activators work from Belair National Park under different calls on the same day. Only one QSO from Belair NP will count for Hunter points.

(k) The following types of South Australian parks under the control of DEWNR, do not qualify for this Award:-

* + Game Reserves (GR)
  + Recreation Parks (RP)
  + Regional Reserves (RR)
  + Wilderness Protection Area (WPA)
  + Conservation Reserves (CR)
  + Marine Parks (MP)

**4. Award levels (Australian amateur radio operators / Australian SWL’s).**

For Australian amateur radio operators / Australian short wave listeners, the Award will be issued in 5 levels as follows:

(1) Bronze

* A total of 10 points.

(ii) Silver

* A total of 20 points.

(iii) Gold

* A total of 35 points.

(1v) Platinum

* A total of 50 points.

(v) Diamond

* A total of 70 points (including all 21 South Australian National Parks).

**5. Award levels (Overseas amateur operators/Overseas SWL’s).**

For Overseas amateur radio operators / overseas short wave listeners, the Award will be issued in 5 levels as follows:

(1) Bronze

* A total of 5 points.

(ii) Silver

* A total of 10 points.

(iii) Gold

* A total of 15 points.

(iv) Platinum

* A total of 20 points.

(v) Diamond

* A total of 50 points (including all 21 South Australian National Parks).

**6. Endorsements.**

(a) Special endorsements will be issued for the following:-

(1) QRP operation.

(2) CW only.

(3) single band operation.

(4) VHF/UHF only (no repeaters)

Other endorsements will be considered.

**7. Certificates / plaque for Activators / Hunters / SWL’s**

(a) Separate individual certificates will be issued for Bronze, Silver, Gold, Platinum & Diamond levels. For Activators / Hunters / SWL’s. The certificates at each level will feature different photographs.

(b) Achieving Diamond level requires a significant amount of dedication and effort. Because of this, an optional glass etched trophy will be awarded for Diamond level, along with the Diamond level certificate.

These glass etched trophies measure about 9 cm (W) & 12 cm (H), and weigh about 670 grams, and will be individually engraved with the recipient’s call sign and name.

(c) Once you have achieved the basic “Bronze” level of the Award, you can continue to build up your total points. Additional certificates will be awarded once additional points have been attained and specific Award levels reached.

**8. Park to Park certificate**

(a) Separate certificates will be issued to those Activators operating portable in a park who make contact with another Activator operating portable in a park.

(b) Points from your activation are combined with the points from the other activation. e.g. you operate from a National Park (worth 2 points) and make contact with someone in a Conservation Park (worth 1 point). Add your 2 points for the NP with the 1 point for the CP. A total of 3 points.

(c) The park to park certificates will be issued in 5 levels as follows:

(i) Bronze

* A total of 10 points.

(ii) Silver

* A total of 15 points.

(iii) Gold

* A total of 20 points.

(1v) Platinum

* A total of 40 points.

(v) Diamond

* A total of 50 points (including all 21 South Australian National Parks).

**9. Unique Parks certificates**

(a) Certificates are issued to Activators, Hunters, & SWL’s for operating from / making contact with / logging unique / different parks.

(b) Unique parks are a tally of the number of different parks in an Activator’s, Hunter’s or SWL’s log. e.g. Cleland Conservation Park is one unique park, Peebinga Conservation Park is another unique park, Coorong National Park is another unique park, etc.

(c) The Unique certificates for National Parks will be issued in 5 levels as follows:

(i) Bronze

* 5 unique/different National Parks.

(ii) Silver

* 7 unique/different National Parks.

(iii) Gold

* 10 unique/different National Parks.

(iv) Platinum

* 15 unique/different National Parks.

(v) Diamond

* All 21 National Parks.

(d) The Unique certificates for Conservation Parks will be issued in 5 levels as follows:

(i) Bronze

* 25 unique/different Conservation Parks.

(ii) Silver

* 50 unique/different Conservation Parks.

(iii) Gold

* 100 unique/different Conservation Parks.

(iv) Platinum

* 150 unique/different Conservation Parks.

(v) Diamond

* All 262 Conservation Parks.

**10. Submission for Awards.**

Application forms can be found either on the Adelaide Hills Amateur Radio Society website, or the VK5 Yahoo Users Group. Alternatively you can send an extract of your log. This can be computer generated, an ADIF file, handwritten, excel spreadsheet.

Applications for this Award should be forwarded to:-

The Awards Manager,

Adelaide Hills Amateur Radio Society Inc,

P.O. Box 401,

Blackwood,

S.A.

5051.

Applications will include the following:-

1. Application form which must include the following:
   * Callsign of station worked/heard
   * Name of operator worked
   * Date
   * Time
   * Frequency
   * Mode
   * Your power output
   * Name of National Park / Conservation Park.
2. QSL cards are not required.
3. For all Bronze, Silver, Gold, Platinum & Diamond certificates:

* AUSTRALIAN operators/SWL’s
  + AUD $5.00 or 2 valid International Reply Coupons (IRC’s).
* OVERSEAS operators/SWL’s.
  + AUD $10.00 or 3 valid International Reply Coupons (IRC’s).

1. For optional Diamond Award trophy:

* AUSTRALIAN operators/SWL’s
  + AUD $60.00 or 18 valid International Reply Coupons (IRC’s)
* OVERSEAS operators/SWL’s
  + AUD $75.00 or 22 valid International Reply Coupons (IRC’s)

Or alternatively, money for the cost of the Award certificates or trophy can be placed into the Adelaide Hills Amateur Radio Society account (please include a notation that the money is for the VK5 Nat. & Cons. Parks Award):-

**Bank SA:**

Name:         AHARS

BSB:            105 186

Account no: 036 248 940

The Awards Manager reserves the right to check log validity.

**11. Further Reference.**

Further information regarding the Award can be found at:-

(a) Adelaide Hills Amateur Radio Society (AHARS) website

<http://ahars.com.au>

(b) VK5 National & Conservation Parks Award Yahoo group.

<http://au.groups.yahoo.com/group/sanpcpa>

Further details on South Australia’s National Parks and Conservation Parks can be located at the Department of Environment Water and Natural Resources (DEWNR) website at:-

<http://www.environment.sa.gov.au/Home>

**12. Annexures**

(a) Appendix A

* List of South Australia’s National Parks & Conservation Parks

(b) Appendix B

* South Australia National Parks map

(c) Appendix C

* Adelaide & Adelaide Hills Map

(d) Appendix D

* Eyre Peninsula map

(e) Appendix E

* Fleurieu Peninsula map

(f) Appendix F

* Flinders Ranges & Outback Map

(g) Appendix G

* Kangaroo Island map

(h) Appendix H

* Limestone Coast map

(i) Appendix I

* Riverland & Murraylands map

(j) Appendix J

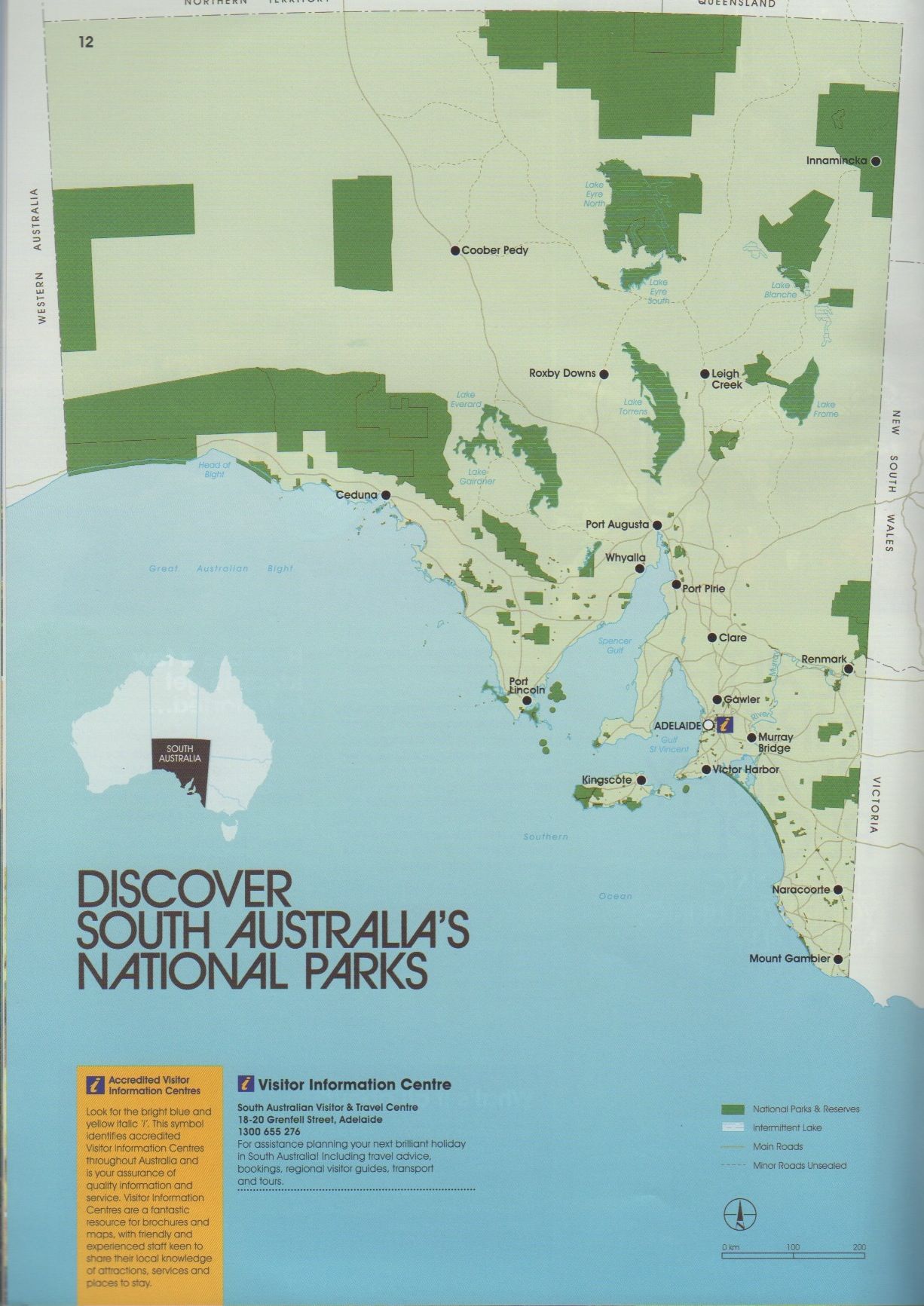
* Yorke Peninsula & Clare Valley map

**Appendix A**

**List of South Australia’s National Parks and Conservation Parks.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Park Name** | **Reserve Type** | **Region** | **District** |
| Belair | NP | Adelaide | Southern Lofty |
| Canunda | NP | South East | Lower South East |
| Coffin Bay | NP | West | Eyre |
| Coongie Lakes | NP | Outback | North East Deserts |
| Coorong | NP | South East | Coorong |
| Flinders Chase | NP | Kangaroo Island | Kangaroo Island |
| Flinders Ranges | NP | Outback | Northern Flinders |
| Gawler Ranges | NP | West | Eyre |
| Great Australian Bight Marine | NP | West | Western |
| Innes | NP | Northern and Yorke | Yorke |
| Lake Eyre | NP | Outback | Central Deserts |
| Lake Gairdner | NP | West | Western |
| Lake Torrens | NP | Outback | Northern Flinders |
| Lincoln | NP | West | Eyre |
| Mount Remarkable | NP | Northern and Yorke | Southern Flinders |
| Murray River | NP | Murraylands | Riverland |
| Naracoorte Caves | NP | South East | Upper South East |
| Nullarbor | NP | West | Western |
| Onkaparinga River | NP | Adelaide | Southern Lofty |
| Vulkathunha - Gammon Ranges | NP | Outback | Northern Flinders |
| Witjira | NP | Outback | Central Deserts |
| Aberdour | CP | South East | Upper South East |
| Acraman Creek | CP | West | Western |
| Aldinga Scrub | CP | Adelaide | Southern Lofty |
| Althorpe Islands | CP | Northern and Yorke | Yorke |
| Angove | CP | Adelaide | Northern Lofty |
| Avoid Bay Islands | CP | West | Eyre |
| Baird Bay Islands | CP | West | Western |
| Bakara | CP | Murraylands | Mallee |
| Bangham | CP | South East | Upper South East |
| Barwell | CP | West | Eyre |
| Bascombe Well | CP | West | Eyre |
| Baudin | CP | Kangaroo Island | Kangaroo Island |
| Baudin Rocks | CP | South East | Lower South East |
| Beachport | CP | South East | Lower South East |
| Beatrice Islet | CP | Kangaroo Island | Kangaroo Island |
| Belt Hill | CP | South East | Lower South East |
| Beyeria | CP | Kangaroo Island | Kangaroo Island |
| Big Heath | CP | South East | Upper South East |
| Billiatt | CP | Murraylands | Mallee |
| Bimbowrie | CP | Northern and Yorke | Mid North |
| Bird Islands | CP | Northern and Yorke | Yorke |
| Black Hill | CP | Adelaide | Northern Lofty |
| Black Rock | CP | Northern and Yorke | Southern Flinders |
| Boondina | CP | West | Western |
| Brookfield | CP | Murraylands | Riverland |
| Busby Islet | CP | Kangaroo Island | Kangaroo Island |
| Butcher Gap | CP | South East | Lower South East |
| Calectasia | CP | South East | Lower South East |
| Calpatanna Waterhole | CP | West | Western |
| Cap Island | CP | West | Eyre |
| Cape Blanche | CP | West | Western |
| Cape Gantheaume | CP | Kangaroo Island | Kangaroo Island |
| Cape Willoughby | CP | Kangaroo Island | Kangaroo Island |
| Caralue Bluff | CP | West | Eyre |
| Carappee Hill | CP | West | Eyre |
| Carcuma | CP | Murraylands | Mallee |
| Caroona Creek | CP | Northern and Yorke | Mid North |
| Carpenter Rocks | CP | South East | Lower South East |
| Carribie | CP | Northern and Yorke | Yorke |
| Chadinga | CP | West | Western |
| Charleston | CP | Adelaide | Northern Lofty |
| Cleland | CP | Adelaide | Southern Lofty |
| Clements Gap | CP | Northern and Yorke | Southern Flinders |
| Clinton | CP | Northern and Yorke | Yorke |
| Cocata | CP | West | Eyre |
| Cooltong | CP | Murraylands | Riverland |
| Corrobinnie Hill | CP | West | Western |
| Cox Scrub | CP | Adelaide | Fleurieu |
| Cromer | CP | Adelaide | Northern Lofty |
| Cudlee Creek | CP | Adelaide | Northern Lofty |
| Custon | CP | South East | Upper South East |
| Danggali | CP | Murraylands | Riverland |
| Darke Range | CP | West | Eyre |
| Deep Creek | CP | Adelaide | Fleurieu |
| Desert Camp | CP | South East | Upper South East |
| Dingley Dell | CP | South East | Lower South East |
| Douglas Point | CP | South East | Lower South East |
| Dudley | CP | Kangaroo Island | Kangaroo Island |
| Eba Island | CP | West | Western |
| Ediacara | CP | Outback | Northern Flinders |
| Elliot Price | CP | Outback | Central Deserts |
| Eric Bonython | CP | Adelaide | Fleurieu |
| Eurilla | CP | Adelaide | Southern Lofty |
| Ewens Ponds | CP | South East | Lower South East |
| Fairview | CP | South East | Upper South East |
| Ferguson | CP | Adelaide | Northern Lofty |
| Ferries - McDonald | CP | Murraylands | Mallee |
| Finniss | CP | Adelaide | Fleurieu |
| Fort Glanville | CP | Adelaide | Northern Lofty |
| Fowlers Bay | CP | West | Western |
| Franklin Harbor | CP | West | Eyre |
| Furner | CP | South East | Lower South East |
| Gambier Islands | CP | West | Eyre |
| Gawler Ranges | CP | West | Western |
| Geegeela | CP | South East | Upper South East |
| Giles | CP | Adelaide | Northern Lofty |
| Glen Roy | CP | South East | Lower South East |
| Goose Island | CP | Northern and Yorke | Yorke |
| Gower | CP | South East | Lower South East |
| Grass Tree | CP | South East | Upper South East |
| Greenly Island | CP | West | Eyre |
| Guichen Bay | CP | South East | Lower South East |
| Gum Lagoon | CP | South East | Upper South East |
| Gum Tree Gully | CP | Adelaide | Fleurieu |
| Hacks Lagoon | CP | South East | Upper South East |
| Hale | CP | Adelaide | Northern Lofty |
| Hallett Cove | CP | Adelaide | Southern Lofty |
| Hanson Scrub | CP | South East | Upper South East |
| Heggaton | CP | West | Eyre |
| Hesperilla | CP | Adelaide | Fleurieu |
| Hincks | CP | West | Eyre |
| Hogwash Bend | CP | Murraylands | Riverland |
| Hopkins Creek | CP | Northern and Yorke | Mid North |
| Horsnell Gully | CP | Adelaide | Northern Lofty |
| Ironstone Hill | CP | West | Eyre |
| Jip Jip | CP | South East | Upper South East |
| Kaiserstuhl | CP | Adelaide | Northern Lofty |
| Kapunda Island | CP | Murraylands | Riverland |
| Karte | CP | Murraylands | Mallee |
| Kathai | CP | West | Eyre |
| Kellidie Bay | CP | West | Eyre |
| Kelly Hill | CP | Kangaroo Island | Kangaroo Island |
| Kelvin Powrie | CP | South East | Upper South East |
| Kenneth Stirling | CP | Adelaide | Northern Lofty |
| Kulliparu | CP | West | Eyre |
| Kungari | CP | South East | Lower South East |
| Kyeema | CP | Adelaide | Fleurieu |
| Lake Frome | CP | South East | Lower South East |
| Lake Gilles | CP | West | Western |
| Lake Hawdon South | CP | South East | Lower South East |
| Lake Newland | CP | West | Western |
| Lake St Clair | CP | South East | Lower South East |
| Lashmar | CP | Kangaroo Island | Kangaroo Island |
| Lathami | CP | Kangaroo Island | Kangaroo Island |
| Laura Bay | CP | West | Western |
| Lesueur | CP | Kangaroo Island | Kangaroo Island |
| Leven Beach | CP | Northern and Yorke | Yorke |
| Lincoln | CP | West | Eyre |
| Lipson Island | CP | West | Eyre |
| Little Dip | CP | South East | Lower South East |
| Lowan | CP | Murraylands | Mallee |
| Lower Glenelg River | CP | South East | Lower South East |
| Maize Island Lagoon | CP | Murraylands | Riverland |
| Malgra | CP | West | Eyre |
| Mamungari | CP | West | Western |
| Marino | CP | Adelaide | Southern Lofty |
| Mark Oliphant | CP | Adelaide | Southern Lofty |
| Marne Valley | CP | Murraylands | Mallee |
| Martin Washpool | CP | South East | Coorong |
| Martindale Hall | CP | Northern and Yorke | Mid North |
| Mary Seymour | CP | South East | Upper South East |
| Media Island | CP | Murraylands | Riverland |
| Messent | CP | South East | Coorong |
| Middlecamp Hills | CP | West | Eyre |
| Minlacowie | CP | Northern and Yorke | Yorke |
| Moana Sands | CP | Adelaide | Southern Lofty |
| Mokota | CP | Northern and Yorke | Mid North |
| Monarto | CP | Murraylands | Mallee |
| Montacute | CP | Adelaide | Northern Lofty |
| Moody Tank | CP | West | Eyre |
| Morgan | CP | Murraylands | Riverland |
| Morialta | CP | Adelaide | Northern Lofty |
| Mount Billy | CP | Adelaide | Fleurieu |
| Mount Boothby | CP | South East | Coorong |
| Mount Brown | CP | Northern and Yorke | Southern Flinders |
| Mount Dutton Bay | CP | West | Eyre |
| Mount George | CP | Adelaide | Northern Lofty |
| Mount Magnificent | CP | Adelaide | Fleurieu |
| Mount Monster | CP | South East | Upper South East |
| Mount Scott | CP | South East | Lower South East |
| Mount Taylor | CP | Kangaroo Island | Kangaroo Island |
| Mowantjie Willauwar | CP | Murraylands | Mallee |
| Mullinger Swamp | CP | South East | Upper South East |
| Munyaroo | CP | West | Eyre |
| Murrunatta | CP | West | Eyre |
| Mylor | CP | Adelaide | Southern Lofty |
| Myponga | CP | Adelaide | Fleurieu |
| Nene Valley | CP | South East | Lower South East |
| Nepean Bay | CP | Kangaroo Island | Kangaroo Island |
| Neptune Islands | CP | West | Eyre |
| Newland Head | CP | Adelaide | Fleurieu |
| Ngarkat | CP | Murraylands | Mallee |
| Ngaut Ngaut | CP | Murraylands | Mallee |
| Nicolas Baudin Island | CP | West | Western |
| Nixon - Skinner | CP | Adelaide | Fleurieu |
| Nuyts Archipelago | CP | West | Western |
| Nuyts Reef | CP | West | Western |
| Olive Island | CP | West | Western |
| Padthaway | CP | South East | Upper South East |
| Pandappa | CP | Northern and Yorke | Mid North |
| Parndana | CP | Kangaroo Island | Kangaroo Island |
| Peachna | CP | West | Eyre |
| Peebinga | CP | Murraylands | Mallee |
| Pelican Lagoon | CP | Kangaroo Island | Kangaroo Island |
| Penambol | CP | South East | Lower South East |
| Penguin Island | CP | South East | Lower South East |
| Penola | CP | South East | Lower South East |
| Piccaninnie Ponds | CP | South East | Lower South East |
| Pigface Island | CP | West | Western |
| Pike River | CP | Murraylands | Riverland |
| Pine Hill Soak | CP | South East | Upper South East |
| Pinkawillinie | CP | West | Western |
| Point Bell | CP | West | Western |
| Point Davenport | CP | Northern and Yorke | Yorke |
| Point Labatt | CP | West | Western |
| Pooginook | CP | Murraylands | Riverland |
| Poonthie Ruwe | CP | Murraylands | Mallee |
| Port Gawler | CP | Adelaide | Northern Lofty |
| Porter Scrub | CP | Adelaide | Northern Lofty |
| Pualco Range | CP | Northern and Yorke | Mid North |
| Pullen Island | CP | Adelaide | Fleurieu |
| Pureba | CP | West | Western |
| Ramco Point | CP | Murraylands | Riverland |
| Ramsay | CP | Northern and Yorke | Yorke |
| Red Banks | CP | Northern and Yorke | Mid North |
| Reedy Creek | CP | South East | Lower South East |
| Ridley | CP | Murraylands | Mallee |
| Rilli Island | CP | Murraylands | Riverland |
| Rocky Island (North) | CP | West | Eyre |
| Rocky Island (South) | CP | West | Eyre |
| Roonka | CP | Murraylands | Riverland |
| Rudall | CP | West | Eyre |
| Salt Lagoon Islands | CP | South East | Coorong |
| Sandy Creek | CP | Adelaide | Northern Lofty |
| Sceale Bay | CP | West | Western |
| Scott | CP | Adelaide | Fleurieu |
| Scott Creek | CP | Adelaide | Southern Lofty |
| Seal Bay | CP | Kangaroo Island | Kangaroo Island |
| Searcy Bay | CP | West | Western |
| Seddon | CP | Kangaroo Island | Kangaroo Island |
| Shannon | CP | West | Eyre |
| Sheoak Hill | CP | West | Eyre |
| Simpson | CP | Kangaroo Island | Kangaroo Island |
| Simpson Desert | CP | Outback | Central Deserts |
| Sinclair Island | CP | West | Western |
| Sir Joseph Banks Group | CP | West | Eyre |
| Sleaford Mere | CP | West | Eyre |
| Spring Gully | CP | Northern and Yorke | Mid North |
| Spring Mount | CP | Adelaide | Fleurieu |
| Stipiturus | CP | Adelaide | Fleurieu |
| Swan Reach | CP | Murraylands | Mallee |
| Talapar | CP | South East | Upper South East |
| Talisker | CP | Adelaide | Fleurieu |
| Tallaringa | CP | Outback | Central Deserts |
| Tantanoola Caves | CP | South East | Lower South East |
| Telford Scrub | CP | South East | Lower South East |
| Telowie Gorge | CP | Northern and Yorke | Southern Flinders |
| The Dutchmans Stern | CP | Northern and Yorke | Southern Flinders |
| The Knoll | CP | Adelaide | Southern Lofty |
| The Pages | CP | Kangaroo Island | Kangaroo Island |
| The Plug Range | CP | West | Eyre |
| Tilley Swamp | CP | South East | Coorong |
| Torrens Island | CP | Adelaide | Northern Lofty |
| Troubridge Island | CP | Northern and Yorke | Yorke |
| Tucknott Scrub | CP | West | Eyre |
| Tumby Island | CP | West | Eyre |
| Venus Bay | CP | West | Western |
| Verran Tanks | CP | West | Eyre |
| Vivigani Ardune | CP | South East | Upper South East |
| Vivonne Bay | CP | Kangaroo Island | Kangaroo Island |
| Wabma Kadarbu Mound Springs | CP | Outback | Central Deserts |
| Wahgunyah | CP | West | Western |
| Waitpinga | CP | Adelaide | Fleurieu |
| Waldegrave Islands | CP | West | Eyre |
| Wanilla | CP | West | Eyre |
| Wanilla Land Settlement | CP | West | Eyre |
| Warren | CP | Adelaide | Northern Lofty |
| Warrenben | CP | Northern and Yorke | Yorke |
| West Island | CP | Adelaide | Fleurieu |
| Wharminda | CP | West | Eyre |
| Whidbey Isles | CP | West | Eyre |
| White Dam | CP | Murraylands | Riverland |
| Whyalla | CP | West | Eyre |
| Wills Creek | CP | Northern and Yorke | Yorke |
| Winninowie | CP | Northern and Yorke | Southern Flinders |
| Wittelbee | CP | West | Western |
| Woakwine | CP | South East | Lower South East |
| Wolseley Common | CP | South East | Upper South East |
| Yalpara | CP | Northern and Yorke | Southern Flinders |
| Yeldulknie | CP | West | Eyre |
| Yulte | CP | Adelaide | Fleurieu |
| Yumbarra | CP | West | Western |

**Appendix B**

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**Appendix C**

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**Appendix D**

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**Appendix E**

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**Appendix F**

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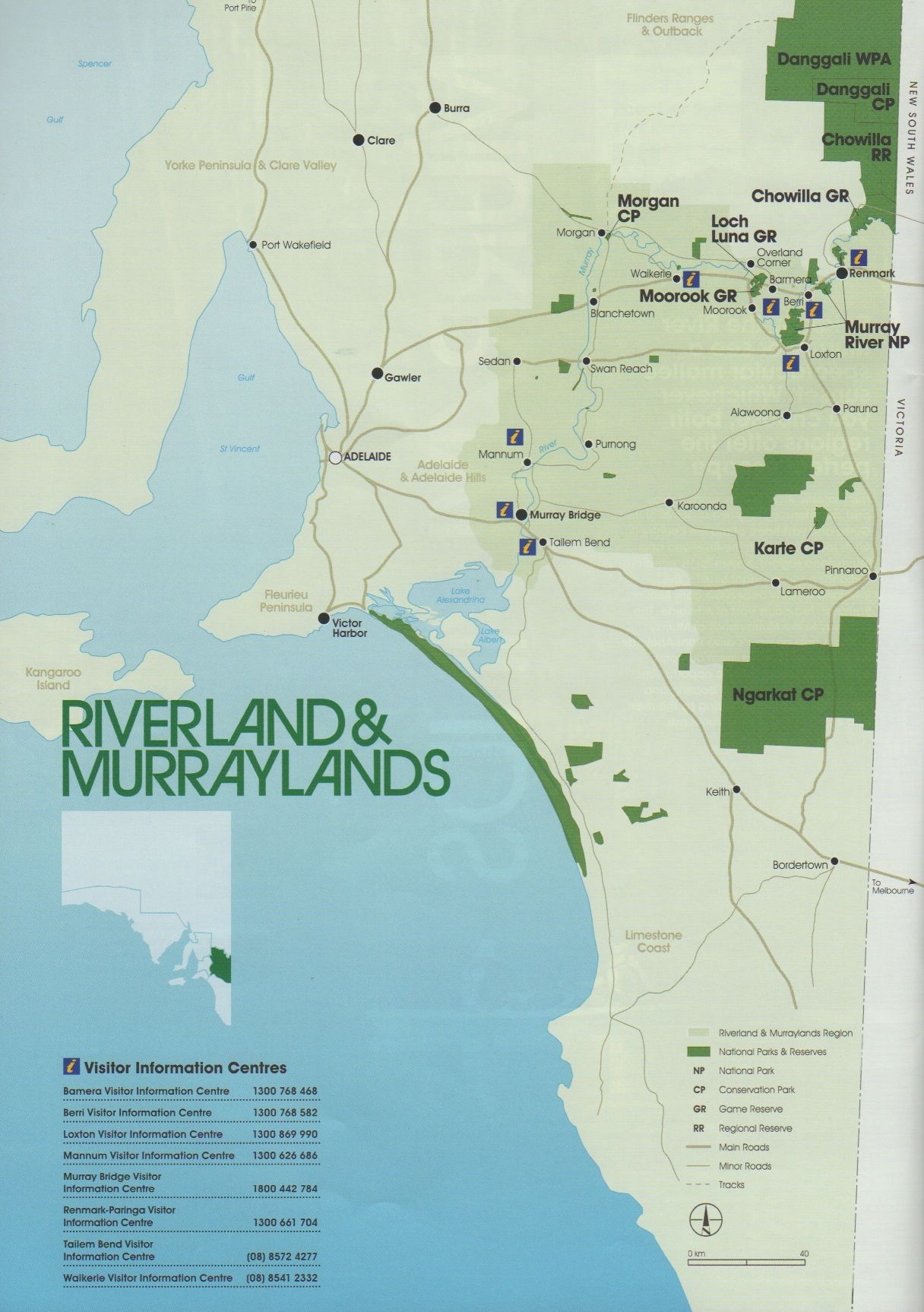
**Appendix G**

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**Appendix H**

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**Appendix I**

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**Appendix J**

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**11. Misc. Notes**