

LIBRARY

Department of Biodiversity,
Conservation and Attractions

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BUSHWALKING

Signs mark short walks from the carparks to the best view points. Longer hikes are more difficult and include the following:

MUSHROOM ROCK NATURE TRAIL

Allow one to two hours to explore this three-kilometre return loop walk linking Mushroom Rock and Rainbow Valley. Trailside signs explain some of the botanical and geological features of the area.

LOOP WALK TRAIL

This eight-kilometre three to four-hour hike begins and ends at Nature's Window at The Loop. The difficulty is moderate with steep sections and uneven surfaces. Parts of the track are unmarked because of changing river levels.

RIVER GORGE HIKES

Allow four days of strenuous hiking to cover the 38-kilometre route through the gorge from Ross Graham Lookout to The Loop. There are no marked trails and river crossings will be necessary. Two-day gorge hikes may be made from Ross Graham Lookout to Z Bend or from Z Bend to The Loop.

Further information should be obtained from the park headquarters before making the trip.

PLEASE NOTE

- ❖ Due to the hazardous terrain, groups undertaking long hikes should consist of at least five experienced people. This is the smallest group considered self-sufficient in an emergency.
- ❖ Overnight groups must register at the park headquarters before making the trip.
- ❖ All rubbish must be carried out of the gorge.

RAFTING AND CANOEING

Soon after heavy rains, the Murchison River becomes deep enough to navigate. Only the experienced and well-equipped should attempt this hazardous journey and park rangers should be contacted for advice about making this trip.

CARING FOR KALBARRI

STAY COOL

Don't light fires. Free gas barbecues are available at some picnic areas and visitors may use their own gas appliances anywhere in the park.

BE CLEAN

Put your litter in bins or take it with you. Discarded scraps attract feral pigs and goats, which destroy the habitats of native animals.

PETS

Pets are not allowed in the Park. They can disturb wildlife and annoy other Park visitors. Pets are also at risk of poisoning from fox baits which are laid throughout the Park.

VISITOR FEES

Thank you—your fee will help protect the park and improve its facilities. Fees can be paid at the park registration station on the road to The Loop and Z Bend. Some fee exemptions apply.

FURTHER INFORMATION

Department of Conservation and Land Management officers will gladly help if you require information or assistance.

Kalbarri National Park

PO Box 37 Kalbarri
Western Australia 6536
Telephone (08) 9937 1140
Fax (08) 9937 1437

Midwest Regional Office

Department of Conservation and Land Management
PO Box 72
Geraldton
Western Australia 6530
Telephone (08) 9921 5955

State Headquarters

Department of Conservation and Land Management
Locked Bag 104
Bentley Delivery Centre
Western Australia 6983

Visit NatureBase at <http://www.naturebase.net>

KALBARRI

National Park



KALBARRI NATIONAL PARK

The many and varied features of Kalbarri National Park provide visitors with an array of things to see and do.

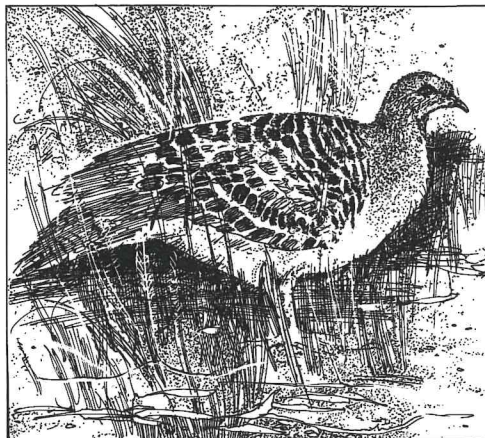
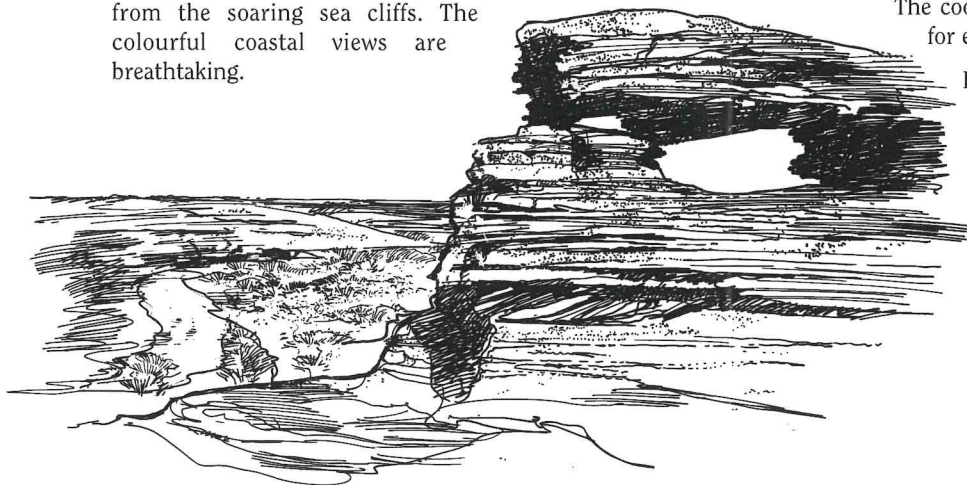
Marvel at nature's ability to carve the landscape. Explore the depths and heights of the river gorges and sea cliffs. Admire the floral beauty of the vast, rolling sandplains. Discover the intriguing cultural history of the area.

DRAMATIC LANDSCAPES

The spectacular scenery of Kalbarri National Park is the result of many millions of years of geological formation. Beneath this countryside, the geology consists of deep, horizontal bands of multicoloured sands that were deposited in layers some 400 million years ago. The resultant sedimentary rock formation is called the Tumblagooda Sandstone.

As the Murchison River carves its way to the sea, magnificent red and white banded gorges have been cut by the flow. These gorges meander 80 kilometres through the 186,000-hectare park.

Along the coast, the tireless processes of erosion have fashioned bewildering formations from the soaring sea cliffs. The colourful coastal views are breathtaking.



Malleefowl (*Leipoa ocellata*)

PLANNING YOUR VISIT

Kalbarri is about 590 kilometres north of Perth and is serviced by commercial aircraft and coaches. The roads to the township and the Park's coastal sites are sealed. Park roads to the inland river gorges are unsealed, but are suitable for all traffic.

Summer temperatures may reach 40°C and the weather is often dry and windy. Winter temperatures range from 10°C to 20°C and most rain falls during June and July. Kalbarri is famous for its wildflowers, which begin to bloom after July.

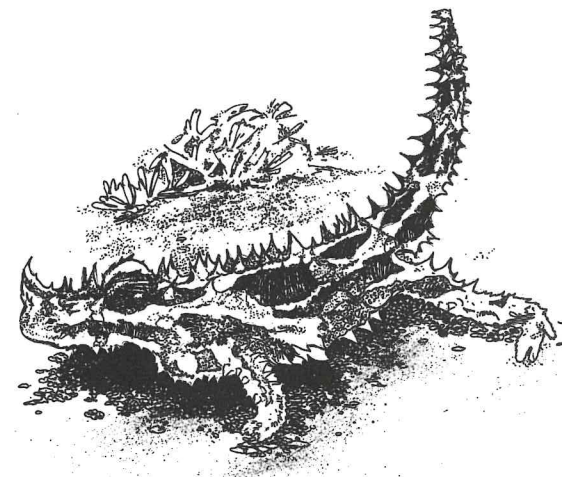
The cooler months are the most comfortable for exploring the park.

Located at the mouth of the Murchison River is the charming township of Kalbarri, which supports a thriving fishing industry and provides the tourist base for visitors to the national park.

SERVICES AND FACILITIES

Toilets and picnic facilities are provided within the national park, at places shown on the map.

There are no camping areas in the national park, but a full range of accommodation is available in the township. Kalbarri also offers a selection of shops, fuel outlets, entertainments and services, including a medical centre, police station, post office and banking facilities. Park tours and other visitor activities operate from the town. Accommodation and tourist agencies can be contacted for bookings and further details.



Thorny devil (*Moloch horridus*)

COMFORT AND SAFETY



WATER Drinking water is not available in the park so always carry your own supply.



COAST RISK AREA Massive freak waves have claimed lives. Keep well clear of the water's edge.



CLIFF RISK AREA Stay clear of cliff edges and overhangs. Keep to the paths, use lookouts where provided and wear sturdy footwear.

COASTAL CLIFFS

RED BLUFF – View the notoriously rugged Zuytdorp cliffs to the north, which extend more than 200 kilometres to Shark Bay.

MUSHROOM ROCK – See how the natural forces of wind, water and even worms have created weird and delicate shapes.

RAINBOW VALLEY – Sands and silts containing an assortment of minerals have layered, compacted and weathered to form this spectrum in stone.

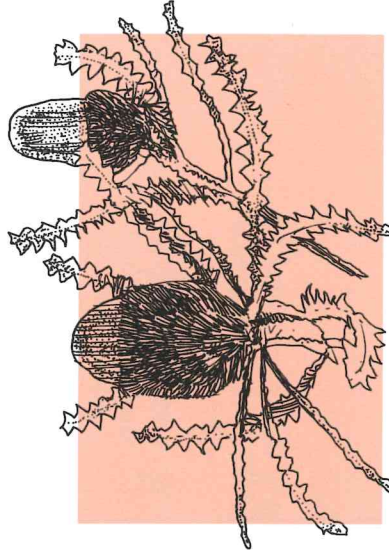
POT ALLEY – The view south from the carpark truly captures the splendour and beauty of this coast. Rock steps lead to the secluded beach below.

EAGLE GORGE – Enjoy the panorama from the crest or wander down into the tranquil depths of the gorge, where you will discover a delightful beach.

SHELLHOUSE AND GRANDSTAND – The continual pounding of the Indian Ocean claims massive chunks of this soft limestone coast, leaving remnant cliff formations.

ISLAND ROCK – The resilient Island Rock was once part of the shoreline, but now stands as a solitary 'sea stack'.

NATURAL BRIDGE AND CASTLE COVE – As the coastline slowly yields to the force of the ocean, the fracturing and decaying of the cliffs has created interesting erosional rock formations. Spectacular views can be enjoyed from the safety of lookout platforms.



Woolly orange banksia (*Banksia victoriae*)

RIVER GORGES

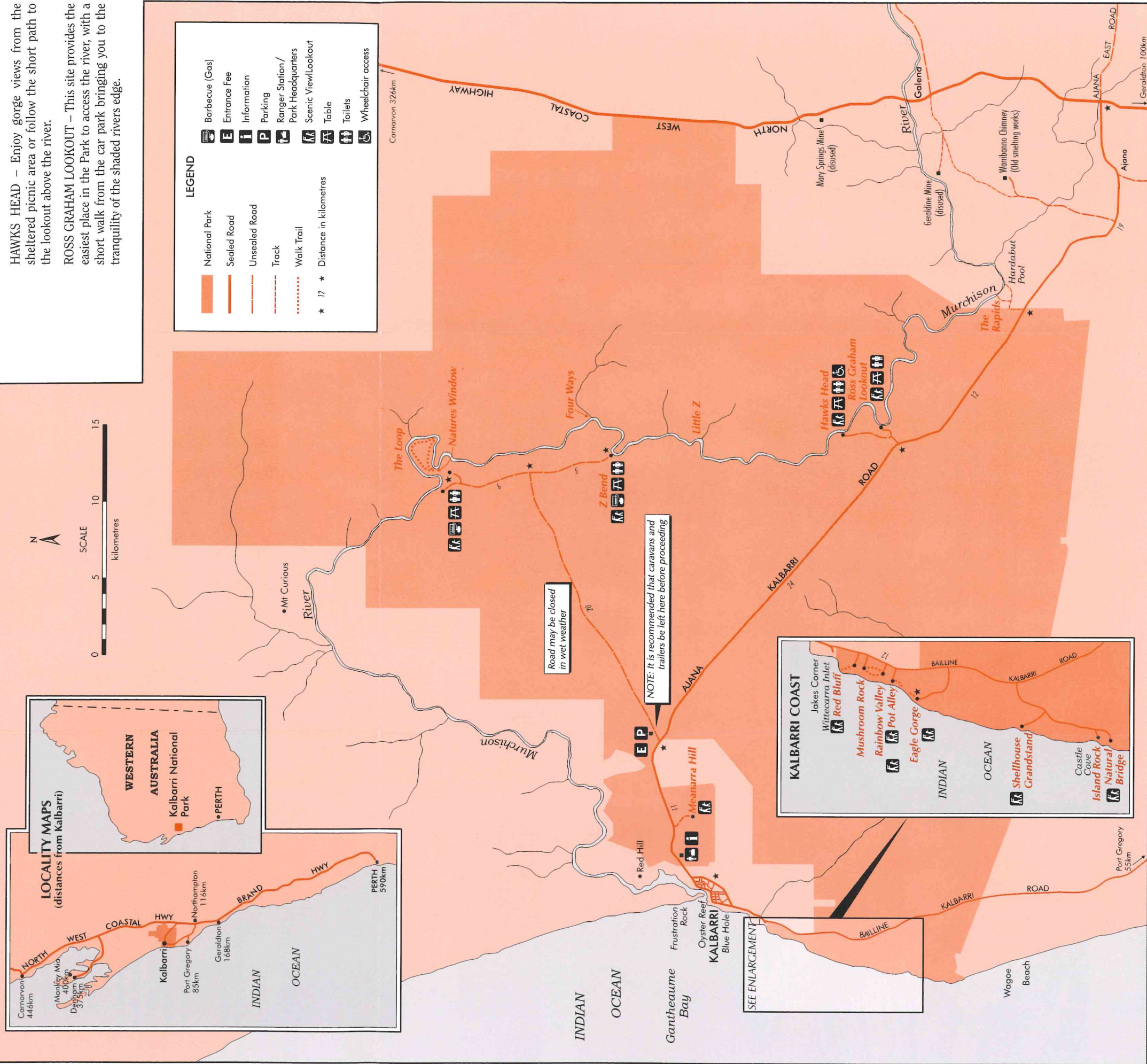
THE LOOP – Several lookouts are positioned around The Loop to give different perspectives on the switchback course of the Murchison River. Nature's Window is a natural rock arch that superbly frames the upstream view, a moderately easy 400-metre walk from the carpark.

Z BEND – It is a moderately easy 500-metre walk to the rock lookout that overlooks the Murchison. Visitors should take extreme care in this gorge risk area.

HAWKS HEAD – Enjoy gorge views from the sheltered picnic area or follow the short path to the lookout above the river.

ROSS GRAHAM LOOKOUT – This site provides the easiest place in the Park to access the river, with a short walk from the car park bringing you to the tranquility of the shaded rivers edge.

KALBARRI NATIONAL PARK



GENERAL INFORMATION

Perth Observatory is the only fully-operational state observatory in Australia. For over 100 years it has served the state of Western Australia by its provision of information and educational services, as well as conducting international-standard astronomical research.

Our visitor activities are very popular so **booking is essential**, except for 2:00 pm Sunday guided tours.

To book, telephone the Observatory on (08) 9293 8255 between 9:00 am and 4:00 pm on working days.

You must then confirm your booking within seven calendar days by Bankcard, Mastercard, Visa, cheque or postal order made payable to:

Perth Observatory
337 Walnut Rd
Bickley WA 6076

All activities are supervised by astronomical staff.

To minimise inconvenience to other visitors, please ensure you **arrive well before the start time**.

This is an outdoor activity, so bring warm clothes and stout, comfortable footwear.

In the interests of safety, smoking is restricted in the Observatory buildings and grounds.

Your safety is our concern, but your responsibility.

Perth Observatory strives to provide the highest level of customer service as well as unique and enjoyable educational experiences. However, conditions may require a change of activity content or structure at short notice.

All Star Viewing Nights will proceed as scheduled, even if they are interrupted by cloudy weather. In these circumstances a "virtual" astronomy experience, using a computer display and expert commentary, will be provided.

A full list of conditions is available upon request.

Astronomy information line: (08) 9293 8109

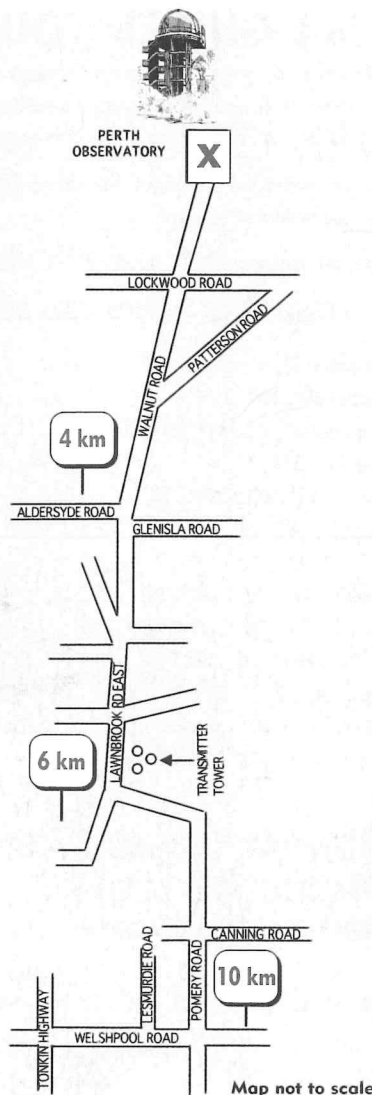
General enquiries:

Phone: (08) 9293 8255

Facsimile: (08) 9293 8138

Email: perthobs@calm.wa.gov.au

Web site: <http://www.wa.gov.au/perthobs>



Map not to scale

PERTH OBSERVATORY
337 Walnut Road, BICKLEY WA 6076

Approximate travel times from:

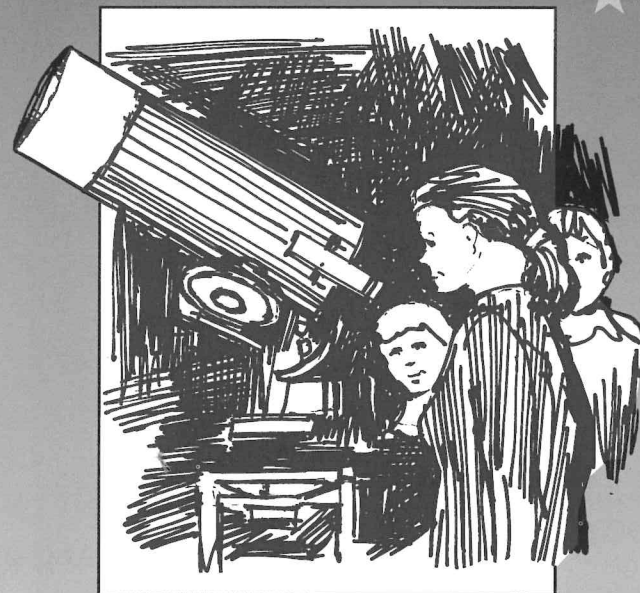
Perth	35 min	Kalamunda	15 min
Midland	30 min	Rockingham	80 min
Fremantle	55 min	Wanneroo	55 min
Armadale	40 min	Perth Airport	30 min

2001352-08-20M

Stars and Telescopes

PERTH OBSERVATORY VISITOR ACTIVITIES

SEPTEMBER 2001 TO AUGUST 2002



P E R T H O B S E R V A T O R Y

DEPARTMENT OF
Conservation
AND LAND MANAGEMENT
Conserving the nature of WA

STAR VIEWING NIGHTS

Join professional astronomers using a range of telescopes on a guided tour of the universe.

Tour duration: 90 minutes, \$17⁺ adult, \$12⁺ child/concession

NIGHT SKY EXPLORER NIGHTS

BOOKING is ESSENTIAL—call (08) 9293 8255

View the moon, visible planets (if available), stars, star clusters and nebulae.

2001, October 21^{Su, 1st}, 22^M, 23^{Tu}, 24^W, 26^F

7:30 pm and 9:30 pm start

2001, November 20^{Tu, 1st}, 21^W, 22Th, 23^F, 25^{Su}, 26^M

8:00 pm and 10:00 pm start

2001, December 18^{Tu, 1st}, 19^{W, 1st}, 20^{Th, 1st}, 21^F, 22^{Sa}, 23^{Su}

8:00 pm and 10:00 pm start

2002, January 19^{Sa, 1st}, 20^{Su, 1st}, 21^M, 22^{Tu}, 23^W, 24Th, 25^F

8:00 pm and 10:00 pm start

2002, February 1^{F, 2nd}, 17^{Su, 1st}, 18^{M, 1st}, 19^{Tu, 1st}, 20^{W, 1st}, 21Th, 22^F, 23^{Sa}

8:00 pm and 10:00 pm start

2002, March 19^{Tu, 1st}, 20^{W, 1st}, 21^{Th, 1st}, 22^F, 23^{Sa}, 24^{Su}, 25^M

7:30 pm and 9:30 pm start

2002, April 17^{W, 1st}, 18^{Th, 1st}, 19^{F, 1st}, 20^{Sa}, 21^{Su}, 22^M, 23^{Tu}

7:00 pm and 9:00 pm start

^{1st} First session only. ^{2nd} Second session only.

Other dates available subject to demand.

DEEP SKY NIGHTS

BOOKING is ESSENTIAL—call (08) 9293 8255

View visible planets (if available), stars, star clusters, nebulae and distant galaxies in dark skies.

2001, October 9^{Tu}, 10^W, 13^{Sa}, 14^{Su}, 15^M, 21^{Su, 2nd}

7:30 pm and 9:30 pm start

2001, November 10^{Sa}, 11^{Su}, 13^{Tu}, 14^W, 20^{Tu, 2nd}

8:00 pm and 10:00 pm start

2001, December 5^W, 6Th, 7^F, 8^{Sa}, 9^{Su}, 11^{Tu}, 17^M, 18^{Tu, 2nd}, 19^{W, 2nd}, 20^{Th, 2nd}

8:00 pm and 10:00 pm start

2002, January 4^F, 5^{Sa}, 6^{Su}, 7^M, 8^{Tu}, 9^W, 10Th, 19^{Sa, 2nd}, 20^{Su, 2nd}

8:00 pm and 10:00 pm start

2002, February 1^{F, 1st}, 2^{Sa}, 3^{Su}, 4^M, 5^{Tu}, 6^W, 7Th, 17^{Su, 2nd}, 18^{M, 2nd}, 19^{Tu, 2nd}, 20^{W, 2nd}

8:00 pm and 10:00 pm start

2002, March 3^{Su}, 4^M, 5^{Tu}, 6^W, 7Th, 8^F, 9^{Sa}, 19^{Tu, 2nd}, 20^{W, 2nd}, 21^{Th, 2nd}

7:30 pm and 9:30 pm start

2002, April 2^{Tu}, 3^W, 4Th, 5^F, 6^{Sa}, 7^{Su}, 8^M, 17^{W, 2nd}, 18^{Th, 2nd}, 19^{F, 2nd}

7:00 pm and 9:00 pm start

^{1st} First session only. ^{2nd} Second session only.

Other dates available subject to demand.

DAYTIME GUIDED TOURS

Tour the Observatory grounds, inspect modern and historic telescopes, view the sun's sunspots (weather and time permitting), and view a "Highlights of the Universe" slide show.

These tours are mainly for groups of more than 20 visitors, but small groups are welcome to apply.

Tour duration: 90 minutes, \$6.50⁺ adult, \$4.50⁺ child/concession

BOOKING is ESSENTIAL—call (08) 9293 8255

2001, September 3^M, 4^{Tu}, 5^{W*}, 6Th, 7^F

2001, October 29^M, 30^{Tu}, 31^{W*}

2001, November 1Th, 2^F, 28^{W*}, 29Th, 30^F

2001, December 3^M

2002, February 25^M, 26^{Tu}, 27^{W*}, 28Th

2002, March 1^F, 12^{Tu}, 13^W, 14Th

2002, April 10^W, 11Th, 12^F

2002, May 27^M, 28^{Tu}, 29^{W*}, 30Th, 31^F

2002, June 24^M, 25^{Tu}, 26^{W*}, 27Th, 28^F

2002, July 24^{W*}, 25Th, 26^F, 29^M, 30^{Tu}

2002, August 20^{Tu}, 21^{W*}, 22Th, 23^F, 26^M

10:00 am and 12:30 pm start

* 10:00 am only

Other dates available subject to demand.

FIRST SUNDAY OF EACH MONTH

- 2:00 PM GUIDED TOURS

FIRST SUNDAY OF EACH MONTH 2:00 pm

(except 2002, April 1)

Tour duration: 90 minutes, \$6.50⁺ adult, \$4.50⁺ child/concession

BOOKING NOT REQUIRED

SCHOOL HOLIDAY GUIDED TOURS

We also run our popular guided tours during the school holidays.

Tour duration: 90 minutes, \$6.50⁺ adult, \$4.50⁺ child/concession

BOOKING is ESSENTIAL—call (08) 9293 8255

2002, January 14^M, 15^{Tu}, 16^W

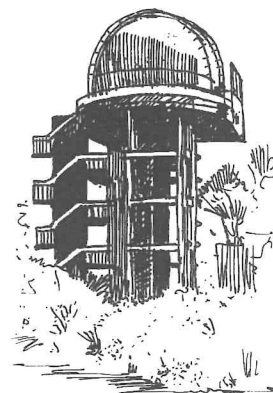
2002, July 15^M, 16^{Tu}, 17^W

10:00 am start

Other dates available subject to demand.

ASTRONOMY FIELD NIGHTS

We bring our telescopes to your site and show you the stars. These field nights are generally conducted outside the dates of the other tours. Charges apply.



SHOP

Our well-stocked shop sells many astronomy-related items such as posters, slide sets, project kits, books, planispheres and much more. Mail orders are accepted.

⁺ All charges include GST

