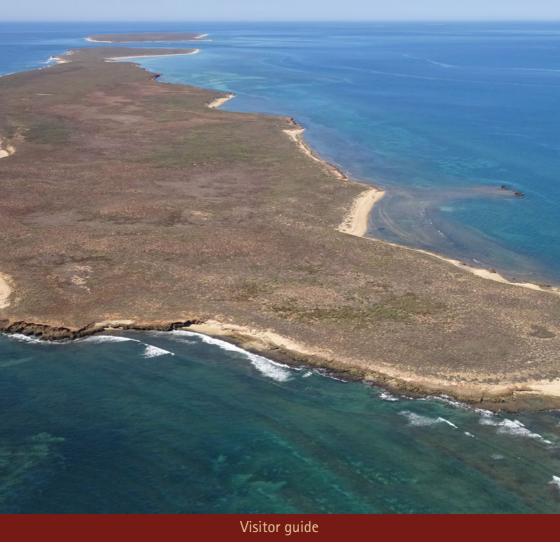
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Islands in the Pilbara







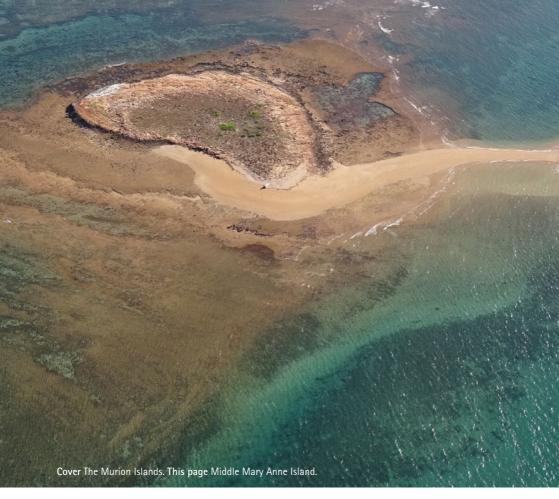


Over 400 islands and islets lie off the Pilbara coast, consisting of four main island groups, the Pilbara Inshore Islands, Montebello Islands, Barrow Island and the Dampier Archipelago.

These remote islands have high conservation values as they are an important refuge for threatened and significant fauna, flora and habitats. They are free from many of the threats and disturbances on the mainland.

This guide provides information on accessing the islands, camping areas, activities and how to look after these important habitats.

Enjoy your visit to the Pilbara islands. Please remember the sensitive nature of these remote nature refuges and help us protect them into the future.



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Why are the islands so special?

The Pilbara islands are fragile habitats with high conservation values as they play an important role in the life cycle of many threatened and protected species. They support marine turtles, shorebirds, seabirds and the last remaining populations of some mammal species that are no longer found on the mainland.

Turtles

Green, loggerhead, hawksbill and flatback turtles can be found in waters surrounding the islands year-round, where they forage for food, breed and rest. During breeding season turtles can be seen cruising the shallows near nesting beaches and may aggregate in large numbers. Female turtles will go ashore between dusk and dawn to lay their eggs. Turtles resting along the waterline should be observed from a distance, and visitors should follow the Turtle Watching Code of Conduct (pg18).

Shorebirds

The islands are a refuge for many species of migratory shorebirds. Birds like the critically endangered eastern curlew depart their breeding grounds in the northern hemisphere by August and fly to their feeding grounds of Australia's shorelines for the southern hemisphere summer. Adult shorebirds are in the Pilbara from August to May each year, while juveniles may remain







Why are the islands so special?

year-round until strong enough to make the migration. Twenty-three species of migratory shorebirds may be seen on the islands, including the critically endangered eastern curlew, curlew sandpiper, bar-tailed godwit and the great knot, which can be found foraging for invertebrates, and roosting on the intertidal flats, mangroves, sandy spits and beaches.

Resident shorebirds species live, feed and breed on the Pilbara islands all year round. These species include the sooty and pied oystercatchers which inhabit the islands in internationally significant numbers and the beach-stone curlew and red capped plover.

Nesting grounds

Seabirds, such as terns, shearwaters, cormorants, pelicans, osprey and sea eagles can also be found throughout the inshore Pilbara Islands. Many of these species nest over winter and into spring, but a number of species also nest over summer months. The table below summarises some of the species and their nesting periods. These species have a variety of nesting behaviours, for example a sea eagle or osprey will make a solitary, large nest and rear young over a number of months from winter into spring, whilst other species such as terns and pelicans will form rookeries with hundreds, somethimes thousands of birds gathered together for protection. Around one million wedge-tailed shearwaters visit the islands, returning to their very own burrows each year, to nest from November to April.





Nesting months for significant fauna using the Pilbara Inshore Islands*												
SPECIES	J	F	М	Α	М	J	J	Α	S	0	N	D
Green, loggerhead, flatback, hawksbill turtle												
Osprey												
White-bellied sea eagle												
Wedge-tailed shearwater												
Bridled tern												
Fairy tern												
Caspian tern												
Crested tern												
Pied oystercatcher												
Beach stone-curlew												

^{*}Shaded squares indicate nesting months, but many species are resident all-year-round.

Why are the islands so special?







Other significant fauna, flora and habitats

Islands play a valuable role in the protection of mammal, bird and reptile species that have disappeared from the mainland.

Barrow and the Montebello Islands provide refuge for some of the last remaining populations of burrowing bettong or boodie, Barrow Island golden bandicoot, spectacled hare wallaby, Barrow Island euro, the black-flanked rock wallaby, rufous hare-wallaby. The endangered northern quoll is found on the islands of the Dampier Archipelago.

In 2011, a population of the threatened Barrow Island golden bandicoot were released on Doole Island in the Exmouth Gulf to act as an insurance population, demonstrating the successful use of an island as a refuge for a threatened species conservation introduction.

Other threatened and protected fauna found on the islands include; north-west coastal Ctenotus, peregrine falcon, water rat, and short-tailed mouse.

The islands exhibit a unique and dynamic flora generally in better condition than mainland vegetation. There are four priority plant species and a priority ecological community found on islands within the Pilbara Inshore Island group.

Island communities including mangroves, algal mats and intertidal seagrasses are important primary producers within the Exmouth Gulf, and provide important nursery habitat for fish and prawns.



Reducing human impacts on islands

Although the remoteness of the Pilbara islands provides a natural buffer for many of the pressures that are associated with the mainland, the following human impacts have been observed on many of the islands. These pressures can be harmful to threatened species, the health of island habitat and the visitor experience.

TLD.

Marine debris and discarded camping rubbish

Marine debris including general rubbish, discarded fishing gear, ropes and floats, commercial marker buoys and other equipment, is harmful to wildlife as ingestion or entanglement can result in injury and death.

Discarded camping rubbish including camping gear, cans, bottles and food packaging can endanger wildlife, as well as impact the aesthetic value of the remote island locations.

Toilet waste

Inappropriate disposal of toilet waste including toilet paper can cause health and hygiene issues. Toilet wipes often take years to break down, and creates unpleasant and unsightly conditions for people visiting the islands.

Introduced species

Black rats, house mice, cats, ants and other introduced fauna, including Asian house geckos, predate upon native species or compete with them for limited resources which can have a devastating effect on island fauna.

Introduced plant species have become established on several Pilbara islands since European settlement. Some of the worst include cactus, buffel grass, kapok, and mesquite. Introduced plants pose a threat to island ecosystems through their capacity to spread rapidly, out-competing native species and in some cases forming monocultures. This means native plants are no longer available as a resource to native fauna which, if unable to adapt and rely on the weed species, will disappear as well.

Discarded netting, Potters Island.

Camp fires

Campfires can have a number of negative effects on island communities including but not limited to the disturbance of turtle nesting and hatchlings, and migratory seabird cycles during important life stages. Escaped campfires can also have a dramatic effect to island ecology with the potential for a fire to wipe out all habitat and vegetation. Burning or removal of driftwood from the island can also impact species and habitat with wood brought from the mainland potentially causing a quarantine risk.





Accessing the Islands



Boat trips to these remote and isolated islands are best planned for days when good weather conditions are forecast, on larger vessels that are able to handle open sea conditions, and after seeking local knowledge.

		Approximate distance
Muiron Islands	Exmouth	32km
Serrurier Island	Onslow	46km
Sholl Island	Onslow	110km
Montebello Islands	Dampier	120km

Travel distance to the islands can vary from a few km's to over 100 km depending on the destination and chosen departure point. Many of the islands are surrounded by reef and access may be limited due to tidal and weather conditions.

Refer to the Department of Transport (transport.wa.gov.au) for best safe boating practices, including taking adequate fuel, food and water, and registering your trip details with family, friends or Sea Search and Rescue prior to your departure to the islands. Consider limited phone reception and long response times for emergency services.

There are no moorings provided at the islands for public use. Be prepared to find a safe and suitable anchorage in a sandy area around the islands.

Day visits to islands

Before going ashore on any island, observe wildlife activity such as roosting or nesting seabirds and shorebirds, turtle aggregations close to shore or nesting activity on the beach. Approach the islands slowly and plan your landing away from these areas.

Small islands are best left undisturbed, particularly during nesting season.

Follow the quarantine guidelines to minimise the risk of introducing an exotic species to the island

Staying overnight at the islands

Camping on your boat will minimise any disturbance to sensitive island populations.

Camping is only permitted on selected islands and may require a permit. When visiting the islands please follow the Island visitor's Code of Conduct.

Accessing the Islands

Pilbara Inshore Islands: South Muiron – (April – October) permit required, phone Department of Biodiversity, Conservation and Attractions, Parks and Wildlife Service Exmouth Office (08) 9947 8000.

Montebello Islands: Bluebell, Crocus, Hermite, Primrose and Renewal Islands throughout the year, and on North West Island from April to September. No permit required.

Dampier Archipelago: Angel, Delambre, Dolphin, Enderby, East Lewis, Gidley, Malus, Rosemary and West Lewis Islands. Camping is only permitted on these islands up to 100 m inland of the highwater mark and for no more than five consecutive nights.

Barrow and surrounding islands: No camping permitted.

Accommodation and tours

Wilderness Island

wildernessisland.holiday/accommodation

Mackerel Islands

Theyenard Island and Direction Island mackerelislands.com.au/accommodation

Several day and live-aboard charter boats operate out of Exmouth, Karratha and Onslow. Please refer to the local visitor centre for further information.

Activities

The waters surrounding the islands provide for many recreational activities including fishing, and diving. The Muirons, Montebello and Barrow Islands are surrounded by marine park or marine management areas so please 'know your zones' before you drop a line (www.fish.wa.gov.au).

Shore-based fishing, beach walks, picnics and wildlife viewing are also popular activities enjoyed by visitors to the Pilbara islands. Please follow the Island's visitor code of conduct and enjoy your visit.

Remotely Piloted Aircraft (RPA)

Do you want to fly your RPA for recreational purposes? This includes to obtain footage that you may post on social media, in personal or travel blogs, or even just pictures to send to family and friends. If so, please follow the five easy rules while using your RPA in Western Australia's national parks and other conservation reserves managed under the *Conservation and Land Management Act 1984* (CALM Act). Visit dbca.wa.gov.au/management/remotely-piloted-aircraft.





Accessing the Islands

Know your zones

Marine parks and marine management areas are zoned to protect natural features and aesthetic values while providing recreational and commercial use and enjoyment that do not compromise conservation values. As a visitor, it is your responsibility to be aware of what activities are permitted in each zone.

Sanctuary zones, National Park Zones (Commonwealth waters) and Conservation Areas ('no take' areas) provide the strongest form of protection for the marine environment. The public is encouraged to visit and enjoy sanctuary and national park zones and conservation areas, whether by diving, boating or simply exploring rock pools.

Recreation zones or Recreational Use Zones (Commonwealth waters) provide for conservation and recreation, including recreational fishing.

SANCTUARY

General use zones or **Multiple Use Zones (Commonwealth waters)** are managed to conserve natural resources while allowing sustainable commercial fishing, as well as petroleum exploration and production where they will not affect sensitive marine habitats. Most recreational activities can be undertaken in these zones, which form majority of most marine parks.

Habitat Protection Zones (Commonwealth waters) provide for conservation and sustainable uses as long as the seafloor or benthic habitat is not damaged.

Special purpose zones are managed for a specific use or issue, such as protection of habitat or nursery grounds, seasonal events such as whale watching, or a particular type of commercial fishing. Commercial and recreational activities may be allowed if compatible with the primary purpose of a special purpose zone.

Download brochures (including detailed zoning maps) on all of WA's marine parks at exploreparks.dbca.wa.gov.au.

For more information on Australian Marine Parks (in Commonwealth waters) visit parksaustralia.gov.au/marine.

Information can also be accessed by downloading the FREE "Explore Marine Parks WA" smartphone app available through iTunes and Google Play.





Pilhara Inshore Islands

Located between Exmouth Gulf and Cape Preston, the Pilbara Inshore Islands comprise of 114 islands, islets and rocks, many of which are small (<20ha), have limited sandy beaches. and are surrounded by intertidal reef. Three islands including South Muiron, North Muiron and Sunday Island are part of the Ningaloo Coast World Heritage Area.

Many are protected as nature reserves under the Conservation and Land Management Act 1984, with the primary purpose to 'maintain and restore the natural environment, and to protect, care for, and promote the study of, indigenous flora and fauna, and to preserve any feature of archaeological, historic or scientific interest'.

To help reduce the impacts to small islands it is recommended to go ashore on the larger islands such as Thevenard, South Muiron, Serrurier and Sholl. These islands offer more area for recreational access/landing away from sensitive sites. These larger islands provide a variety of sandy beaches, clear water and are away from mangrove communities and their biting midges. Popular activities include beach picnics, nature appreciation and swimming.

Camping is permitted on South Muiron Island between April and October. To obtain a permit contact Department of Biodiversity, Conservation and Attractions, Exmouth Office on (08) 9947 8000.

For more information visit https://parks. dpaw.wa.gov.au/park/pilbara-inshore-islands.





The Islands

Montebello Islands

The Montebello Islands are a remote, beautiful place to visit, boasting spectacular fishing, magnificent sunsets, private and pristine coves and an abundance of native wildlife unique to the North West.

The island group located approximately 120 km west of Dampier, is about 18.5 km from north to south and comprises 265 low-lying islands and islets. The islands are conservation park, and are surrounded by the Montebello Islands Marine Park, encompassing an area of 53,331 ha. The offshore nature of the Montebello Islands means navigation to the islands should only be undertaken by experienced boaters in well-prepared, suitably sized and equipped vessels in favourable weather conditions. The remoteness of the islands, combined with numerous shallow submerged reefs, strong ocean currents, high winds, often steep and rough seas and seasonal cyclones pose a high risk to visitors. Pre-planning is a necessity, and visitors must take adequate fuel, water, food and first-aid supplies as no services or facilities are available.

There are no public moorings amongst the islands but there are many anchorages. The most frequently used anchorages are Main Beach (along the southwest side of Trimouille Island), Stephenson Channel at Hermite Island (which is well protected), west of Turtle Lagoon on Hermite Island, and Chartreuse Bay at Alpha Island. Care must be taken when navigating and anchoring as unsurveyed areas can get very shallow, with sandbars emerging at low tide; it is best to enter and exit on high tide.

Camping is permitted on the shores of Primrose, Bluebell, Crocus, Hermite and Renewal Islands throughout the year, and on North West Island from April to September (due to turtle nesting/hatching season from October to March).

Areas on Trimouille and Alpha Islands have low levels of radiation from nuclear testing conducted in the 1950s. Visitors should limit exposure to these affected areas to one hour per day, and not disturb soil or handle/remove relics.

The Montebello Islands Marine Park brochure provides maps and information, including management zones and permitted activities. Copies can be obtained from local Parks and Wildlife Service and DPIRD offices, Pilbara-based visitor centres and online at exploreparks.dbca.wa.gov.au/park/montebello-islands

The Islands



Barrow and surrounding islands

Barrow Island is located south of the Montebello Islands and. at 222 km2, is WA's second largest island. Barrow Island is also considered remote, located approximately 139 km west of Dampier, with Double Island to the east (within Barrow Island Port Area), and Middle and Boodie Islands to the south. The Barrow Island Port Area is operated by Chevron Australia and permission should be sought before entering port limits.



Barrow, Double, Middle and Boodie Islands are nature reserves of outstanding values and are among Australia's most important reserves for conservation. In 1910, Barrow Island was listed as a Class 'A' nature reserve for the purpose of 'conservation of flora and fauna', which is the highest level of protection afforded under State legislation. Many species now endangered on mainland Australia are still commonly found on these islands. Barrow Island is home to at least 24 terrestrial species that do not occur anywhere else, and is a significant nesting site for the protected flatback turtle.

Access to Barrow, Double, Middle and Boodie Islands is not encouraged due to numerous natural and man-made hazards, including the operation of an oilfield and the Gorgon Gas Project.

The waters that surround Barrow Island are the Barrow Island Marine Park (4100 ha on the western side of Barrow Island) and Barrow Island Marine Management Area (114,500ha that includes most of the waters around Barrow Island and the waters around the Lowendal Islands). The entire Barrow Island Marine Park is a sanctuary zone, giving the park the highest percentage of 'no take areas' of any marine park in Western Australia.

Please refer to the Management Plan for the Montebello/Barrow Islands Marine Conservation Reserves (in the 'Downloads & Resources' tab) online at exploreparks.dbca.wa.gov.au/park/ barrow-island for further information on permitted activities.



Dampier Archipelago

The Dampier Archipelago comprises 42 islands, islets and rocks within a 45 km radius of Dampier. Twenty-five of these islands are nature reserves managed by DBCA's Parks and Wildlife Service.

The Dampier Archipelago has exceptional natural beauty, high conservation value and outstanding heritage values. The spinifex-covered islands have dramatic piles of jumbled red rocks, mangrove stands and white sandy beaches. The Dampier Archipelago is the richest area of marine biodiversity known in WA with coral reefs, sponge gardens, seagrass and more than 650 fish species. The islands are a wildlife haven for green, flatback and hawksbill turtles nesting on sandy beaches, Rothschild's rock wallabies, northern quolls and native rats inhabiting rock piles, more than 100 bird species, and over 41 species of terrestrial reptile.

Together with the Burrup Peninsula, the islands are home to one of the densest and most diverse collections of rock art in the world and other excellent examples of Aboriginal heritage including shell middens, stone arrangements and artefact scatters. The outstanding cultural heritage values of the area are recognised through National Heritage listing and a World Heritage nomination is currently being prepared to have these values recognised at the highest international level. More information about the World Heritage nomination can be found at https://www.dbca.wa.gov.au/parks-and-wildlife-service/world-heritage-areas/murujuga-world-heritage-nomination. The islands and surrounding waters also include historical shipwrecks and examples of European heritage (relics and structures from whaling, pearling and pastoral activities).

The islands have been zoned to provide a balance between conservation and recreation. Some areas have been set aside for day trips and camping, whereas others are sensitive shorebird/seabird and turtle nesting areas. Please respect these zones.

Camping is permitted (for up to five consecutive nights) on selected islands up to 100 m inland of the high water mark on beaches zoned for recreation. As with other nature reserves, no services or facilities are available. See Island visitor's Code of Conduct for more information when access islands and islands where camping is permitted.

Turtles nest on many sandy beaches throughout the Dampier Archipelago. Rosemary and Delambre islands have very large turtle nesting populations that may be globally significant. It is therefore imperative that turtle nesting is not impacted by visitors. If camping on a beach where turtles nest, please follow the Turtle Watching Code of Conduct and do not interfere with the nesting process. Do not take pets to the islands as they could harm wildlife. Public are cautioned that 1080 poison baits are laid on several islands to control feral pests such as foxes and will kill dogs and cats if consumed.

The Dampier Archipelago Island Reserves brochure provides maps and information, including access and access zoning and permitted activities. Copies can be obtained from local Parks and Wildlife Service and DPIRD offices, Pilbara-based visitor centres and online at exploreparks.dbca.wa.gov.au/park/dampier-archipelago.



The islands provide a unique, remote area visitor experience. Follow the Island visitor's Code of Conduct to conserve and protect these important island habitats for the benefit of threatened species, ensuring islands remain ecologically intact for the enjoyment of future generations.

Quarantine

To minimise the risk of introducing exotic pests to island nature reserves please follow these quarantine guidelines:

- Check your vessel is clean inside and out. Make sure antifouling paint is renewed regularly.
 - Inspect inside the hull, and all gear to ensure your boat is free of all soil, seeds, animals like mice, geckos and crickets, and insect nests before departing. Maintain rat and mouse poison on larger vessels (wax blocks are best for damp places), and replace regularly. Surface insecticide spray in dry areas of the vessel.
- Check clothing, footwear and camping gear are free of seeds, soil and invertebrates.
- Take no wood onto islands. Camp fires are not permitted on island reserves and wood may carry unknown pests and/or disease.
- Check your food for pests and disease. Cook on your boat where possible. Carry all food scraps including fruit and vegetables off the island and dispose of properly.
- Report introduced fauna and weeds sightings to your nearest Parks and Wildlife Service office. Photos and GPS points are welcome and very helpful. Report people who fail to adhere to island quarantine procedures (obtain boat registration and vessel name if possible). Marine pests should be reported to the FishWatch hotline on 1800 815 507.





Island visitor's Code of Conduct







Minimise disturbance

- Visit the larger islands. Larger islands offer more areas for recreational activities and reduce impact on island communities. Leave small islands for wildlife.
- Motor slowly on approach and when travelling around the islands to avoid disturbance to fauna using the islands and prevent striking marine mammals or turtles in the water. Avoid areas where large numbers of seabirds are present.
- Move quietly and slowly when ashore, stick to the low water mark, and keep your
 distance from wildlife. You'll see more wildlife if you do, and minimise disturbance.
 Avoid trampling native vegetation and look out for shearwater nesting burrows.
 Burrows may be found in great numbers, are well camouflaged, deep, and may cause injury
 if stepped in.
- Leave your pets at home. Pets are not permitted on islands because they can disturb native species and compete for resources. Pets may also carry diseases onto the island.
- Please do not feed wildlife. Feeding or providing water to wildlife can cause unnatural feeding behaviour, ill health and dependence on artificial sources.
- Adhere to island closure periods. These are in place to protect threatened species from disturbance during nesting or breeding seasons.
- Report animal aggregations. If you see any special behaviour such as seabird and shorebird
 nests or large groups of animals/birds or marine life while visiting the islands, please report
 them to your local Parks and Wildlife Service office.

Leave no trace

- · Remove any rubbish you find.
- Leave No Trace. Take only photographs.



Island visitor's Code of Conduct



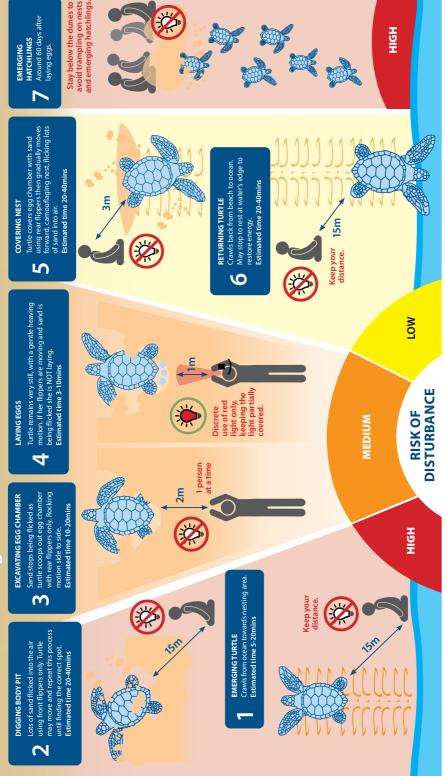


- Prepare your food before you go, or cook on your boat. Out of control fires pose a major risk to entire island communities. Fires are not permitted on island reserves.
- No fauna or flora is to be removed from islands (this includes dead wood, and shells) to conserve nature conservation values.
- Artefacts are not to be collected from the islands. These important records of our history
 are for everyone to appreciate. If you notice a significant find please take a photo and a GPS
 point if possible, and report it to the Parks and Wildlife Service.
- Use the sea for bodily waste or bring a chemical camping toilet. If there is no other alternative, dig a hole deeper than 30 cm and refill it when you're finished. Do not use disposable toilet wipes as these take tens of years to break down; toilet paper is the preferred option.
- Be prepared to have to anchor at the islands as there are no public moorings available. Anchor in sand to protect fragile reef, sponge, algal, seagrass and mangrove communities.
- Fish offal. Please take your offal with you, or dispose of it in a fish bin on the mainland. For filleting at sea guidelines visit www.fish.wa.gov.au.

Camping

- Camp on your boat to minimise the disturbance to sensitive island populations. Minimise the use of bright deck lights at night as they may disorientate turtles and night feeding seabirds. If boat lights are too bright shearwaters may land on your boat rather than returning to their burrow to feed their hungry chick.
- Camp only on islands where camping is permitted. Refer to Staying overnight at the islands on page 8 for more information on what islands camping is allowed.
- Leave the site clean. The next camper should not see any signs of your visit.

Turtle Watching Code of Conduct



NO GLOW: Nesting turtles and hatchlings are easily disturbed by lights, use the moon to light your way. MOVE SLOW: To avoid disturbing turtles, walk along the water's edge.

STAY LOW: Out of sight of nesting turtles – sit, crouch or lie in the sand.

LET THEM FLOW: Let hatchlings make their own way to the ocean, they take an imprint of that beach so they can return o the same area when they are ready to mate and lay eggs. Try not to get between hatchlings and the water's edge.





seaches nesting







and Attractions (DBCA) Headquarters

17 Dick Perry Avenue Kensington WA 6151 Ph: (08) 9219 9000

DBCA Parks and Wildlife Service. Exmouth Office

Ph: (08) 9947 8000 exmouth@dbca.wa.gov.au

DBCA Parks and Wildlife Service, Karratha Office

Ph: (08) 9182 2000 karratha.admin@dbca.wa.gov.au

Report sick, injured or stranded marine animals (Wildcare Helpline)

Ph: (08) 9474 9055

Regional Development Fisheries Division

Exmouth Office Ph: (08) 9947 2755 Karratha Office Ph: (08) 9144 4337 dpird.wa.gov.au

FishWatch hotline, to report illegal fishing, aquatic pests and fish kill

Ph: 1800 815 507

Bureau of Meteorology

Ph: 1900 926 150 bom.gov.au/wa/forecasts

Visit exploreparks.dbca.wa.qov.au for more information about the development of a management plan for the Pilbara Inshore Island reserves, and other island groups specified within this guide.

> Information current at April 2020. This information is available in alternative formats on request. Photos - All photos are credited to DBCA unless otherwise specified.



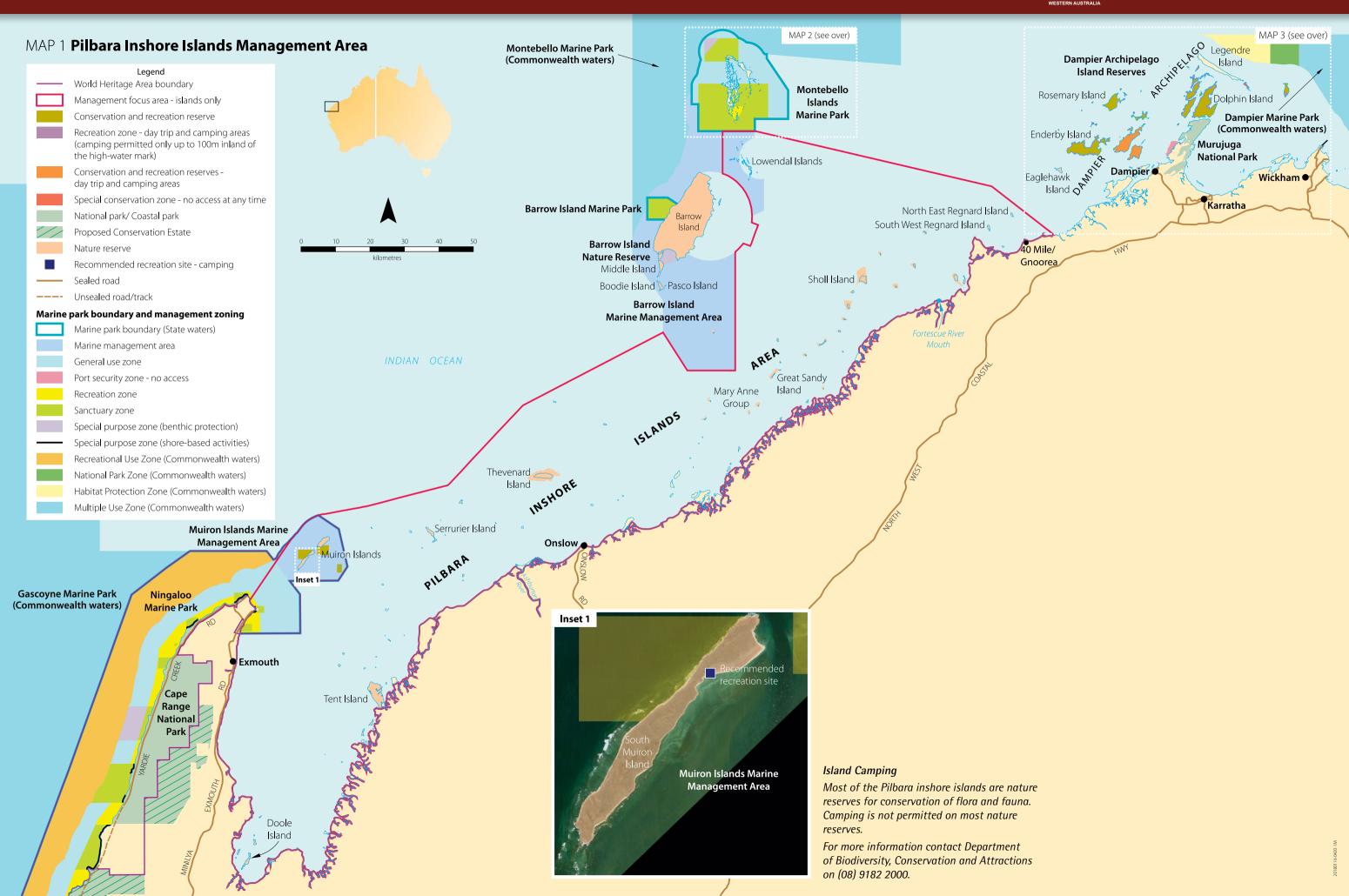
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Islands in the Pilbara







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