

Queensland National Parks and Wildlife Service quarterly newspaper

Conservation through multiple-use zoning

Wet parks important

The Queensland National Parks and Wildlife Service has a leading role in the conservation of much of the state's distinct environment beyond the seashore

Its marine parks rangers show as much concern for our 'wet' parks as do national park rangers have for areas above high tide mark.

A growing group of keen officers is working hard to ensure multiple-use of a maritime resource bigger than Victoria and Tasmania is consistent with its long-term conservation.

The Service has a prime responsibility in the management of the Great Barrier Reef Marine Park. Policies for Queensland marine parks and their management are also Service tasks.

October marked the commencement of a zoning plan for the Great Barrier Reef Marine Park's Central Section, necessitating a greater management presence.

At the same time, a Queensland marine park known as the Townsville/Whitsunday Marine Park was declared.

This extended Great Barrier Reef Marine Park style protection to tidal lands and waters of Queensland around all but a few islands and along several sections of mainland.

Unlike national parks where the range of activities is restricted, application of a zoning system to marine parks allows for a wide variety of activities provided they do not threaten the environment.

Shipping, commercial fishing and tourism have their places. Only a tiny area is reserved from all activity to allow undisturbed scientific study.

The public and organizations have opportunities to make submissions

and comment on draft zoning plans before they take effect or are reviewed. By the end of 1988, four Queensland marine parks and their zoning plans should be in place for most Queensland waters between

southern Queensland and Cape York Reports and pictures in this issue

focus on marine park activities Peter Lawson

responsibility for national

parks a little more than a year ago, I have been

commitment by officers of

We in this state have a proud

arrangements I'm sure we will be at least equal to any

I take this opportunity to wish

everyone a happy Christmas

and a bright and prosperous New Year.

Minister for the Environment.

Conservation and Tourism

the Queensland National Parks and Wildlife Service.

record of conservation already. Under the new

in the world.

Geoff Muntz

impressed by the

professionalism and

Zena Dinesen



Illustrated sign beckons visitors to the new reef walking trail at Geoffrey Bay, Magnetic Island, off Townsville, opened recently. The trail is for walking at very low tides mostly in the winter months but can be used by snorkellers throughout the year.

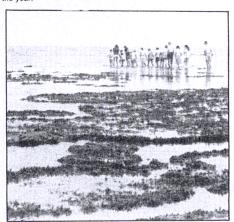
The trail was designed by marine parks rangers to increase public enjoyment and appreciation of an inshore fringing coral reef.

The area is zoned Marine National Park B - a look but don't touch zone where fishing, collecting (except for approved research) and spearfishing are prohibited.

The path is on trial. Effects of impact will be monitored to assist with design of future trails.

The trail is a joint Q.NPWS. Queensland Recreation Council and Great Barrier Reef Marine Park Authority project.

Local authorities, island residents (particularly Magnetic Island Lions) and James Cook University assisted development.



December 1987

Visitors looking at features of a fringing reef at Geoffrey Bay.

Minister's message

Since my last message in Ringtail, much has happened in Queensland.

Under the Ahern Government, Lassume additional responsibilities under the expanded Ministerial portfolio of the Environment, Conservation and Tourism, a position that will streamline the administration of all our conservation areas throughout the state.

Until the changes were announced, national parks, environmental parks, fauna reserves and fauna refuges were administered by the Queensland National Parks and Wildlife Service while other conservation areas such as the Brisbane Forest Park were the responsibility of the Lands Department among others.

The changes place all conservation matters under the one umbrella, a move I'm sure will be welcomed by all Queenslanders Since I assumed

An extensive study is seeking the cause of abnormally high deaths of giant clams in northern Great Barrier Reef waters in order to suggest an end to the phenomenon.

Without giant clams, the reef would be devoid of one of its outstanding features with possible consequences for other marine life.

High mortalities of the distinctive bivalve were noticed on Lizard Island reef in August 1985 and on Thetford Reef off Cairns in July 1984 and July 1986.

Q.NPWS marine parks staff in Cairns in Project Clam Watch have surveyed reefs from Dunk Island to Princess Charlotte Bay seeking to find the extent and distribution of giant clam deaths.

Regular reef users are also recording on a special form distributed by the Service any recently-dead clams (shells with clean white interiors) found while diving or snorkelling.

The Service is working with James Cook and Queensland Universities and the Australian Institute of Marine Science.

Service acts on deaths of clams

Analysis of tissue of clams near death has revealed high levels of a parasite in many but not all samples thus this cannot be regarded a sole cause of death.

Abnormally high numbers of juvenile clams were detected at Lizard Island reef recently. These were about two years old meaning they were spawned about six months after the mass deaths

This may indicate hormones released by dying clams triggered a high level of spawning among remaining healthy clams.

These facts are established:

 Major species affected have been Tridacna gigas, T. derasa and T. maxima

 Clams of all ages have been affected

· Mass deaths have occurred in

winter when lowest water temperatures occur.

 Deaths have occurred from Myrmidon Reef (off Lucinda) to Mt Ernest Island reef, Torres Strait.

Scientists are seeking answers to these questions

 Are the deaths natural or man induced, and what is the cause?

 How are parasites found in sick clams implicated?

 How widespread is the occurence of the parasite in wild bivalve populations?

Hopefully, answers will be found soon leading to a greater understanding of the phenomenon and, if appropriate and practical, any action necessary to remedy the situation.

John De Campo

To advocate and foster harmony between mankind and our environment, thereby facilitating the well-being of humanity, and safeguarding the integrity of nature.

Q.NPWS purpose

Ringtail December 1987 Page 2

lariculture expanding

Mariculture, the practice of farming marine organisms, is becoming an increasingly popular alternative to harvesting (and depleting) wild stocks.

Enterprises off north Queensland are 'farming' pearl shells and prawns. Research into the viability of 'farming' giant clams, coral trout and trochus shells is being undertaken by private and government organizations.

Such projects require space on the reef for research, breeding and culturing. Some like the pearl culturing operation photographed, use a floating base moored permanently on site.

dugong may be seen.

priority to keeping their seagrass beds.

waters.

marine creature.

The Great Barrier Reef Marine Park Authority and the Queensland National Parks and Wildlife Service have given high

These occur mainly in warm tropical to sub-tropical inshore

Although an adult dugong may grow to 3 m and weigh 400 kg,

it is a most docile and harmless

The herbivorous mammal was once found from East Africa to

Racks and trays of shells placed on the bottom are tended regularly by divers.

The Service's Maritime Estate Management Branch recognizes the role such projects might have in reducing pressures on wild stocks.

But great care must be taken to ensure other components of the environment and other users are not affected adversely

Marine parks staff in association with the Great Barrier Reef Marine Park Authority assess possible impacts.

Proposed locations are inspected to ensure



sites are suitable while minimizing biological impacts and avoiding popular tourist and other recreation destinations

Limits are put on the size and number of wild stock collected for breeding and research. In some cases, collection and return of animals is supervised.

Officers also advise on design and installation of moorings to avoid reef damage

In these ways, development of mariculture is fostered while reef protection is ensured.

Tim Stevens

ugong's seagrass Protection of feeding beds protected is good reason to believe Australian waters will remain the only area where large herds of

the Solomon Islands. Now it is listed as a threatened species.

The dugong is vulnerable to exploitation. Its normal population increase is just 5 per cent a year including natural mortality.

Dugongs are hunted for food by Aboriginals and Islanders in far north Queensland. Others are killed in nets.

The importance of dugongs to the culture of these peoples and the urgent need to conserve viable populations is well recognized.



Marine parks staff fixing a radio transmitter to a dugong's tail.

Marine parks staff are helping James Cook University researchers with two projects involving dugongs.

Aerial surveys are attempting to locate and count dugongs.

Results have allowed permits for traditional hunting to be issued for some areas while leaving breeding grounds untouched.

The second is to monitor dugong movements by satellite after capture and fitting a radio transmitter near the tail

Indications are dugongs are capable of travelling up to 140 km in two days.

Responsibility for their survival also rests with the resource users. Hunters are helping by providing catch data returns.

Involvement of hunters in the development of a management program will be fundamental to success.

Dugong can be conserved and used on a sustainable basis.

Nigel Hedacock



Protected beachfront camping area on Lady Musgrave Island, very popular with self-sufficient campers almost the year around.

ay camp pressure

Thirteen islands lying about 75 km offshore from Gladstone comprise the greatest concentration of vegetated coral cays south of Cairns.

The cays, their birds, and their reefs teeming with marine life are attracting more and more people to their shores each year.

Four have been designated camping islands. From 1984 to 1985, camping use increased 40 per cent to reach nearly 35 000 camper days increasing to 40 000 in 1986.

In addition, more people are visiting the islands for day trips on charter vessels and in private boats.

This pressure has raised special management issues. On North West and Lady Musgrave Islands, camping areas have been split one where motorised equipment such as freezers, generators and compressors is permitted, and one where this is not.

This is to resolve conflict between camper groups.

On Masthead and Tryon Islands. areas are for those seeking unadorned nature.

Camping quotas are: North West 150 people, Lady Musgrave 50, Tryon 35 and Masthead 60 (30 between 1 October-31 March).

Ballots determine permit issue Applications should reach Q.NPWS Rockhampton six months in advance.

Margaret Gooch

Take care with anchor

Tie one end of a rope longer than the water is deep onto a block of concrete and the other end to a float and you have a reef mooring, right?

Wrong! Even if your boat were the only one, other considerations include permits and legalities, coral damage, maintainance, safety, colour, form

Plans and guidelines for design, use, placement and management of moorings are being produced.

Even when a system of moorings is in place, there will obviously be many places where none is provided.

Heed these tips in any situation when anchoring:

 Anchor in full sunlight and keep a sharp lookout for shallow water.

 Where possible, anchor over sand. Otherwise use a reef pick anchor.

· Lay out anchor rope four times the depth

Allow sufficient for rise and fall of tide.

Help us preserve coral gardens from damage.

Olwyn Crimp



Low-key information centre/office is under Act now to secure your copy of construction at Noosa National Park

tai

information on the park's wildlife, bushland and rainforest habitats and on nature-based recreation opportunities.

activities.

* * * * * * National park camping is popular. More than 611 000 camper nights were recorded in popular parks excluding Great Sandy in the year to 30 June last.

Campers comprised 38 per cent locals, 30 per cent from Brisbane, 23 per cent from interstate and 9 per cent from overseas.

Fifty one per cent of almost 39 500 vehicles used to transport vehicles were four-wheel-drives.

on a range of conservation issues is under way by landholders and residents of the Goondiwindi district.

Action for a Waggamba Shire conservation consultative commitee was taken after a Service-sponsored rural nature conservation field day and public meeting. * * *

Early results from a Q.NPWS research project at Morgan Park, Warwick, confirm longheld views kangaroos compete significantly with sheep when pastures are stocked to

carrying capacity. * * * The Service is continuing a major drive to encourage tourist operators to give the best possible interpretive experience to their national and environmental park

visitors. In north Queensland, 54 operators attended a seminar on rainforest interpretation.

In southern Queensland,

Recent accidental introduction of cane toads to Lizard Island in landscaping material is a reminder to visitors to all islands to take extra care.

Spray firewood to avoid introducing unwanted bugs. Rolled tents and flvs can be hiding places for creatures like

Middle Road, Moreton Island, is being duplicated to make cross-island traffic flow much

The strip of forest separating the roads will be burnt regularly to provide a major firebreak

Remember Fleays **Fauna Centre** for the nature of Queensland West Burleigh, Gold Coast (075) 56 2194

cane toads.

safer.

calendar Life in the Wild. Post the form on page 3 with your cheque for quick turnaround. Service sales outlets also have only a few copies left of the

limited edition brolga print by Lars Knudsen, already a collector's item at \$90 each plus \$6 packing, post and insurance within Australia.

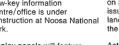
the Service's 1988 superb

* * *

Recreational boat users visiting the Volunteer Coast Guard's new Cairns headquarters adjacent to the Marlin Jetty and boat ramp will see a marine parks information display

The display outlines zoning plans, regulations, and the special attractions of waters, reefs and islands off Cairns.

Recent opening of the Service's Far Northern Region nursery at Lake Eacham will boost rehabilitation plantings through provision of tough, high quality seedlings.



Display panels will feature

A tiered amphitheatre and all-weather screen near the new building will be a centre for Ranger-led interpretive





Section of the Cairns Airport mangrove boardwalk ready for visitors

Mangroves to be appreciated

Australians, with largely European cultural backgrounds, have long held mangrove forests in low regard as slimy, smelly, itchy places using valuable space.

In coastal north Queensland where some of Australia's most diverse and luxuriant mangrove forests flourish, dumps, playing areas and building sites continue to replace mangrove forests.

Unlike some other habitat types, most of Queensland's tropical mangrove forests are still in good shape. They are believed to support a good proportion of the total commercial fisheries' catch

Cairns City Council administers a city with much lush mangrove forest. Yet the city is promoted through images of golden beaches, swaying palms, jungle scenery, crocodiles and so on.

The scene is changing. Bicentennial funding, clever engineering and dedicated carpentry by Cairns City Council, and a Queensland National Parks and Wildlife Service interpretive plan are attempting to change the position of mangroves in the popularity stakes.

Several kilometres of the Jack Barnes Bicentennial Mangrove Boardwalk now explores an expanse of mangrove types near the Cairns Airport.

The walk is complete with canopy towers, creek-side platforms and even wheelchair passing lanes

Far Northern Region staff have designed interpretive signage and are working an an explanatory brochure.

Hopefully, our mangrove forests will soon achieve the concern and respect they deserve.

Geoff Kelly

The thoughts of many Australians in the Bicentennial year will be drawn towards our heritage as a nation.

Australia was always visited by many vessels engaged in exploration, marine exploitation, and transport of food, cargo and passengers.

Today there remain some remnants of our rich maritime heritage in the form of shipwrecks or relics.

In waters around Queensland, more than 2000 wrecks are on record. Few have been located and some have to be identified positively.

A list of the located wrecks includes some some specially important to our history.

Another, HMS Pandora, victim of a reef off Raine Island in 1791, is of wider interest being excellently preserved and revealing new light on the shipboard lifestyles of those serving in the Royal Navy in the late 18th Century.

Another interesting wreck is that of the Valetta, an Indian designed and built ship wrecked in the Whitsundays in 1825.

Seabirds

Some heritage preserved in sea

Other notable wrecks include the Golden City, a former clipper used in the California gold rush wrecked while loading guano at Lady Elliot Island in

On Myrmidon Reef off Townsville the remains of a blackbirding schooner the Foam (1877-1893) bears mute testimony to the trade in Pacific islanders who once worked Queensland sugar plantations.

The Yongala, also off Townsville, is a popular diving site. Foundering during a cyclone in 1911 with the loss of all 120 aboard, the wreck offers a virtually intact hull festooned with interesting marine life and abounding with fish.

Wreck sites represent a priceless, irreplaceable heritage which may be readily prone to damage by humans, deliberate or unintentional.

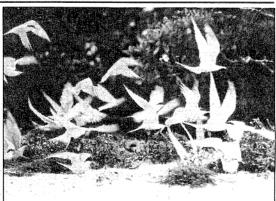
Removing relics can destroy or degrade their achaeological value and robs other divers of the thrill of 'discovering' them anew

Professional expertise is needed to halt the processes of deterioration once a relic is removed from the water.

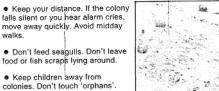
Active programs of wreck assessment, artefact conservation, and wreck site management including dive trails are in progress

Legal protection of wrecks is provided by their declaration as historic shipwrecks or their zoning or designation for special management in marine parks.

Peter Lawson

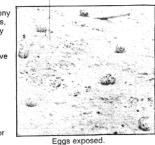


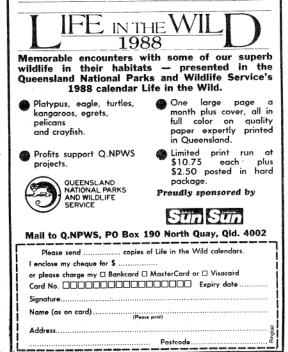
Roseate terns taking flight from their ground nests.



 Keep to tracks to avoid chean ater burrow

 Don't use burrows for toilets or garbage





See it happen now-Central Queensland visitors now have the chance of a Once the vessel reaches

unique reef opportunity seeing the reef 'live underwater at night without leaving their seats! Great Keppel Island Tourist

Services is operating day/night cruises from Yeppoon east to North West Island in the Capricorn Group in its new 34 m catamaran Capricorn Reef

On board is the latest technological advance in reef interpretation.

suitable waters, a remotely operated vehicle fitted with video camera is launched.

Underwater pictures are beamed to the vessel where passengers sit in air-conditioned lounges to view spectacular happenings on a large video screen and four monitors.

Q.NPWS marine park rangers help the boat crew with interpretive commentary about the pictures:

Rangers train through example and friendly assistance so the tourist operator may then use existing staff.

-on

Visitors are enthralled by pictures of parrot-fish asleep in mucous cocoons, nocturnal molluscs and crustaceans, and the bright colours of corals highlighted by artificial lights.

Short of a submarine, this innovation seems the only way most visitors will ever get to seeing the reef by night without getting their feet wet!

Peter Slaughter

unsettled For thousands of years, many species of seabirds have sought the Capricorn-Bunker Groups of islands and other isolated cays to nest in midsummer months free from disturbance and land predators.

Increasing numbers of day visitors and campers is an occurrence unsettling the breeding behaviour of some of these bird species

Simply walking along the beach of cays can disturb nesting tern colonies resulting in egg destruction or death of chicks.

Terns build nests on the ground or make a hollow in sand or rubble. Often the nest is not visible, eggs are well camouflaged and one could trample clutches without realizing.

Often the only indication of presence is when a person approaches too close and birds take flight.

Eggs and chicks are exposed to the sun, cold, or rain, or predation from seagulls and herons. An egg in the blazing sun will die in four minutes.

Feeding seagulls helps increase the gull population leading to increased predation.

On walks across islands, keep to tracks. Should you collapse a shearwater burrow, watch for any movement then dig out the bird. Check for eggs and chicks and clear the tunnel to avoid any suffocation

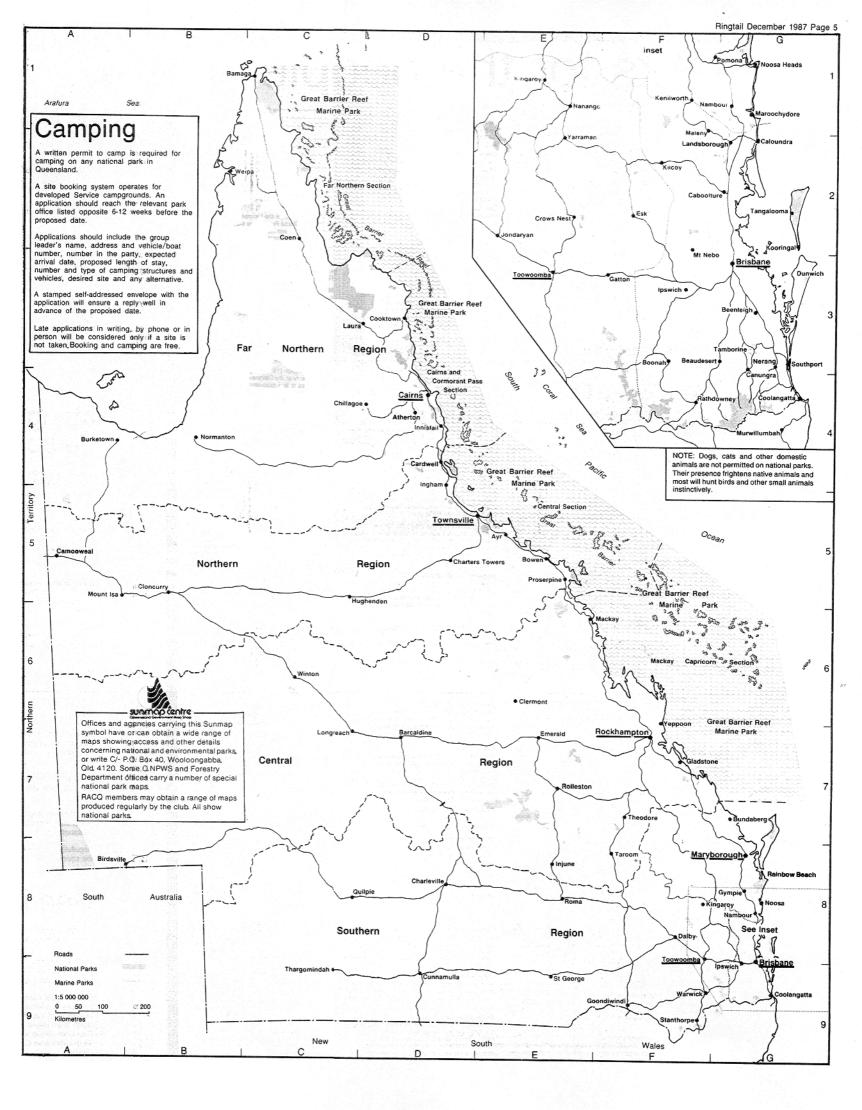
Eggs and chicks of white-capped noddies nesting in pisonia forests are easily displaced when birds take flight from disturbance. Don't light a fire underneath

The most vulnerable phase in a seabird's life is during its immature stages. If you visit cays this summer, take extra care.

Felicity Savage

Popular national and

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Porcupine Gorge Hinchinbrook		25			0			-	12	-			T	15		0	-		-	11	Townsville	
Edmund Kennedy		04			0				•		-				•		•	•	•	1000	Cardwell, Ingham Edmund Kennedy	
Dunk Island	-	4			8	F	1						D			1				128	Cardwell	
Jourama Falls Far Northern Region	D	5	•	100	0		•	•	•	•	0			24	•	1	Ciper		•	12/2	ingham	
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Palmerston	D	14			C									200		1059					Paimerston	Nesting area - access to beach only
Davies Creek - Daintree -Mossman Gorge	_	4		100	C		1		-						•			103	-	12.88	Cairns	Campground closed
-Other areas		3	•	124	C W		100	•		•			•	14		10.00	-			1	Cairns Cairns	No camping
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Lizard Island Group		3	•		B		•	•								860M 12349	-	٠		11.00	Chillagoe Cairns	Tour times 9am and 1.30pm Camping limit two weeks
Lakefield	C	23			C	U			1.75	•				\$ 92.		36	•	620	Ĺ	145-65	Lakefield	Carry extra fuel, water
Iron Range Rokeby-Archer Bend		22		20	U				1	•			-	-	•	1936	•	112	-	102	Cairns Rokeby	Carry extra fuel, water. No trailers, vans
Jardine River-Heathlands	0	21		30	U	1			120		1				•			1000		1.2	Heathlands	Carry extra fuel, water. No trailers, vans Carry extra fuel, water. No trailers, vans
Lawn Hill	A	15		1	1U	1	•			•		2	•			140		3	•	12.0	Lawn Hill	Carry extra fuel, water. No trailers, vans
· · · ·	-			-290	-	12			1	-	100		-	200		Sold:	-	1.50	-	1.20		
		-	-	-	-	-	-				-	-	-	-	_	10.00				-		



Parks for the people

laiala (1140ha)

Maiala (1140ha) This popular park on the D'Aguilar Range is manag-ed as part of the 25 000ha Brisbane Forest Park. The park is ideal for day visits and picnicking, and offers scenic views of the costal plain and walks through varied forest communities.

through varied torest communies. Moreton Island (15 400ha) Mt Tempest (285m) crowns this large island com-posed almost entirely of sand. Park areas now cover 89 per cent of the island and include wind-blown sand, heath, swamp and forests. A management centre and camp areas with facilities are provided. Access is via vehicular ferries for off-road vehicles, fast passenger boat or light aircraft.

Blue Lake (501ha) This lake is a water table window in a sand dune about 10km east of Dunwich accessible from the main coast road by a short walk. Popular for day

Tamborine Mountain (total 594ha)

Temporte working (total 994na) On and around this distinctive plateau 70km south of Brisbane are a series of relatively small national and environmental parks preserving some of the mountain's natural forest and waterfalls. All are in-teresting and popular with day visitors.

St Helena Island (74ha) An historic area off the Brisbane River mouth with restricted access. Much of the island functioned as high security prison from 1867 to 1932. Prison labour was used for all activities including building, and some sections remain. Reached by special ferry from Manly, Schools must contact the Darling Point Special Education Centre.

Burleigh Head (24ha)

Burreign read (24ma) This complex of vegetation types including rain-forest, open eucalypt forest, tussock grassland and pandanus in a landmark area in the sweep of the highly urbanised Gold Coast. Walking tracks lead to lookouts and pleasant places of retreat.

Springbrook (total 2084ha) Four parks comprise a green mountain backdrop to the Gold Coast. Warrie offers extensive walks past waterfalls and through foresits to lookouts. Gwongorella has tall eucalypts with rainforest gulies. Wunburra, an area of wet eucalypt forest, and Mi Cougal are undeveloped areas for adventure bushwalking and spectacular views along the border.

Natural Arch (212ha) This interesting natural formation caused by cascading waters is set in an area of dense rain-forest high in the Numinbah Valley. The park is popular for day wisits but only the night time visitor sees glow-worms in the cave under the arch.

Lamington (20 100ha)

Rainforest, eucalypt forest and heathland, magnifi cent views and waterfalls are features of this major park some 100km south of Brisbane. Extensive walking tracks and picnic facilities are provided in areas but other are reached only on bushwalking excursions. Accass is via Binna Burra in the north-east, Green Mountains – O Reilly's in the north-west, and several roads and tracks in the west and

An environmental park, the last major area of natural costal lowlands on the Gold Coast. Vegeta-tion of heath, swamp and woodland Bkm north of Southport. Boardwalked track suitable for wheelchairs.

Mt Barney (11 400ha)

Mt Barney (11 400ha) This landmark peak (1360m) with nearby Mt Lindesay (1191m) and Mt Maroon (965m) are undeveloped areas of eucalyptis and rainforest among a variety of natural features exciting bushwalkers and climbers.

Mt French (119 ha)

This two-part park is adjacent to the 468 m peak near Boonah with a road to the top to picnic areas walking tracks and lookouts. Frog Buttress on the northern side is a popular rock climbing venue.

Main Range (11 500ha)

mann riange (11 SUUTA) This park includes the main western part of the Scenic Rim system. At Cunningham's Gap, walking tracks pass through eucalypt forest and rainforest. Popular area for picnics and camping, Spicer's Gap to the south has an interesting history. Bushwalkers revel in many areas in this diverse park.

Queen Mary Falls (333ha) This waterfall in tall open eucalpypt woodland with rainforest gullies is not large but is a pleasant spot for tamilies 10Km east of Killaney. A second part includes Blackfellow Knob to the north.

Girraween (11 400ha)

Girraween (1) 400mB) Massive granite fors and outcrops tower over a diverse and often dense vegetation of eucalypts, flowering shrubs and herbs in this park 30km south of stanthorpe. Camping facilities allow for long days walking particularly to see birds and wildflowers in seeson. At elevations about 1000m, temperatures are often much lower than expected.

Sundown (11200 ha) Rugged gorges leading to the Severn River are a feature of this park reached via Stanthorpe or via Ballandean. Dense forests or cypress pine and eucalypts cover hill slopes.

Lake Broadwater (1220ha) An environmental park near Dalby important as waterfowl habitat and as an example of natural 0 ing Downs country. Popular recreation spot.

nva Mountains (11 700ha)

Bunya Mountains (117 Jouna) An expanse of coniferous rainforest and grassy balds on the Great Dividing Range crest between Dalby and Kingaroy. This popular area has two developed campgrounds and a network of tracks. Winter nights at about 1000m elevation can be cold.

Crows Nest Falls (962ha) The waterfall in the north tumbles into a steep grante gorge with interesting mixed vegetation. picnic area and swimming holes make the park ideal for day trips.

Havensbourne (100na) This park off the Hampton-Esk road preserves a remnant of the wet sclerophyll and rainforest vegetation which once covered the surrounding countryside. Ideal for a picnic and a walk.

Conondale (2126ha) This two-part park separated by state forest west of Conondale township preserves wet eucalypt forest and rainforest and associated fauna.

Glass House Mountains

Glass House Mountains Remnant volcanic plugs of rhyolite and trachyte with forest and heath vegetation. Mt Cooncowrin (Crookneck) (113ha) at 552m is for climbers. Mt Beerwah (245ha) 556m, Mt Tibrogargan (291ha) 393m and Mt Ngungun (49ha) 236m are suitable for bushwalkers and families taking care.

Kondalilla (128ha)

Kondailla Falls is a feature of this rainforest part off the Maleny-Mapleton road. Tracks lead from the pic-nic area to the falls and swimming hole.

Mapleton Falls (26ha) A small park off the Mapleton-Kenilworth road offer-ing scenic views, a waterfall, rainforest and eycalypt forest walks.

Noosa (432ha)

A popular scenic coastal park, preserving dune vegetation heath and rainforest. Walking tracks and picnic areas.

picfic areas. Coolools (40 900 ha) A coastal sand park featuring ocean beaches, freshwater takes, coloured sands and vegetation from healthinad to rainforest. Access by boat from Towantin and Boreen Point, four-wheel-drive from Rainbow Beach and Noosa or by conventional vehi-cle from Rainbow Beach. Camping areas at Double Island Point, Freshwater, and along Noosa River

Great Sandy (Fraser Island) (52 400ha) The park preserves most of the northern end of the largest sand island in the world. Included are eucalypt woodland, heath and swamp vegetation wheel-drive and barge from Urangan or Rainbow Beach and by light aircraft.

Woodgate (5490ha)

Presant beach scenery backed by sand dunes and coastal vegetation make this park an attractive holi-day spot. Wallum health wildflower displays in season. Access via Goodwood.

Mon Repos (23.5ha) This small environmental park preserves a turtle rookery on the coast 14km east of Bundberg. At night from November to January loggerhead turtles nest here. Occasionally flatback and green turtles are seen. From January to March turtle hatchlings can be observed

Auburn River (389ha) The scenic Auburn River Gorge is the main attrac-tion of this park. Road access Mundubbera via Hawkwood road (27km).

Cania Gorge (1020ha)

The sandstone gorge, its luch vegetation and dripp-ing water are features of this popular park. Road ac-cess Monto via Moonford road (26km).

North Keppel Island (580ha)

Norm kepper island (souna) Most popular of a group of continental island parks off Yeppoon. Open eucalypt forest, pandanus along the coast and tussock grassland on exposed wind-ward sides. Popular for fishing and camping

Heron Island (Capricorn Group) (12ha) Greater part of this corcal cay is national park with total protection for animal and plant life marine and terrestrial. Rookery for turtles and nesting area for market.

Tryon, Masthead is (Capricorn Group) Typical coral cays with pisonia, pandanus and casuarina vegetation. Seebird nesting sites and turtle rookeries. Popular camping spots for sel sufficient groups. Reached by charter boat. No engine driven equipment permitted.

North West (Capricorn Group) (94ha) and Lady Musgrave Is (Bunker Group) (20 ha) Coral cays with large surrounding reels. Popular safe anchorages with camping. Ideal for driving and snorkelling. Access by charter boat.

Carnarvon (223 000ha) A combination of four areas, Carnarvon Gorge, Mt Moffatt, Salvator Rosa and Ka Ka Mundi, in the Central Highlands sandstone bell. Features include a variety of vegetation, spectacular escarpments and gorges, and relics of Aboriginal culture. Gorge campground is very popular. Wilderness experience offered in many other parts for the self-sufficient.

Capricorn coast

Double Head and Bluff Point (107ha) are coastal features for day picnickers 8km south of Yeppoon. Eurimbula (7830ha)

A biologically important area where tropical and sub-tropical environments overlap. Rainforest and swamps on deep sand backed by grassy eucalyp open forest

Blackdown Tableland (23 800ha)

Sandstone plateau at the junction of three ranges near Dingo. Height above the surrounding plains, vegetation, waterfalls and walking tracks makes th park a popular day picnic and camping spot. makes the

Isla Gorge (7800ha)

This park preserves a deeply dissected sandstone range vegetated with eucalypts and wiidflowers with stands of softwood scrub and some brigalow on the lower flats. Suitable for self-contained bushwalking aroups

Recently expanded park with magnificent sandstone scenery and deep gorges where Robinson Creek carves its way towards the Dawson River Contrasting landscape and vegetation. Includes the Amphitheatre natural basin.

ubenangee Swamp (1520ha) long boardwalk helps visitors see this last natural pastal swamp area between Townsville and Cairns.

Barron Gorge (2784ha) The Barron River drops 260m into the rainforest covered gorge seen by travelling on the Cairns-Kurañda railway. Most water is held for irrigation or diverted for power generation before the fails.

Michaelmas Cay (3ha) With nearby Upolo Cay, one of Queensland's most important seabird nesting areas.

Important secure meaning excess Palmerston (14 200ha) % Walking tracks from the Palmerston Highway bet-ween Innisfall and Ravenshoe lead to many water-falls set in luxuriant rainforest on the Johnstone River. Suitable for camping and picnics.

Davies Greek (soona) This park preserves an area of eucalypt forest grow-ing on granite soils, the creek tumbles over a 100m waterfall into a deep valley. Wildflowers in spring. Reached from the Kennedy Highway.

Scenic rainforest and open forest area on the northern outskints of Cairns with tracks, shelter sheds and views over city, sea and countryside.

Daintree (56 450ha) Extensive undeveloped national park drained by many tributaries of the Daintree River. Variety of végetation types but broad areas of tropical rain-forest. For the self-sufficient bushwalker out of Mossman or Daintree.

A vehicle ferry at the Daintree River crossing pro-vides access to this important area of coastal

Cedar Bay (5650ha) Northern extremity of the wet tropical rainforest region south of Cooktown still relatively

Most of this coral cay and surrounding reef is na-tional park with total protection of all features. A walking track passes through rainforest. Launches make regular trips from Cairns. Overnight accom-modation is available.

Milistream Falls (372ha) An open eucalypt area crossed by a bottlebrush bordered stream and featuring one of the widest falls in Australia (65m). A small camping area ne by. Reached 1km off the Ravenshoe-MI Garnet road.

Cryptomer (Tite Crater) (364ha) Geological curoisty similar to a volcanic crater and while solidited volcanic ash is present, the sides are of granite, a rock not directly associated with erup-tive volcanic activity. Rainforest and eucapto forest too. By the Kennedy Highway between Athenton and Ravenshoe.

Another crater lake just off the Gillies Highway 6km from Lake Eacham. A 5km track circles the lake giv-ing excellent opportunities for nature study in the rainforest.

volcano, surrounded by rainforest in which might be seen the musk rat kangaroo, carpet python, water dragon and Ulyses blue butterfly. For pionics, swimming and walking. Near Yungaburra.

Chillagoe-Mungana Caves A series of reserves for limestone caves. Regular guided walks are offered through Royal Arch and Donna. Donna Cave is lit to highlight cave

This continental island almost surrounded by fring-ing reefs is north-north-east of Cooktown. A walking track leads to the peak where Captain Cook stood

Lenerative (537 JUDA) Extensive example of perinsula country with vegeta-tion ranging from finging rainforest, stringbybark forest and paperback woodland to mangroves, mudflats and open grassy plains and swamps. Natural habitat for many species of birds and also freshwater and estuarine crocodiles.

Iron Range (34 600ha) True wilderness area of world significance contain-ing the largest area of lowland rainforest remaining in Australia as well as mangroves, heathlands and open forest. The Janet and Tozer Ranges, coastal scenery and the variety of forest and wildlife im-press visitors.

Archer Bend (166 000ha) The Archer River and tall vine forests which line it are features of this park on the western side of the

peninsula. Swamps and lagoons are home to many ducks, pelicans and other waterfowl. Freshwater crocodiles are common in the river.

Hoxeby (291 000ha) An extensive area stretching from the McIlwraith Range to the Archer River flood plain preserving a variety of peninsula vegetation types and hosting some rare and beautful birdlife and freshwater crocodiles. Visit in the Dry only.

Jardine River (235 000ha) This park covers most catchments of the largest perennial stream in Queensland, a true wilderness with a variety of vegetation types including rain-forest, open forest, heath and shrubland with a co responding variety of fauna not fully recorded. For the adventurous in the Dry.

Lawn Hill (12 200ha) Remote casis-like area between Burketown and Camcoweal in the far north-west. Permanent waters of Lawn Hill Creek are contained by rich red sandstone walls forming a gorge which protects remnant rainforest species, some endemic.

to seek a passage through the outer Barrier Reet

Lake Eacham (489 ha) This is a maar, a lake in the cone of an extinct

Mt Hypipamee (The Crater) (364ha)

Lake Barrine (491ha)

Lizard Island (990 ha)

akefield (537 000ha)

keby (291 000ha)

Anna and a state of the second

area near

Davies Creek (468ha)

Mt Whitfield (297ha)

Daintree (56 450ha)

rainforest

naccessible

Green Island (7ha)

Cape Tribulation (16 965ha)

Ampnineate natural oasin. Simpson Desert (555 000ha) The State's largest national park west of Birdsville complementary to an even larger conservation park in South Australia. Preserves dunefields and spinifex open-hummock grassland with some shrubs and a distinctive wildlife habitat. For the well-equipped, careful and adventurous.

Lark Quarry (374ha) Environmental park south-west of Winton preserving evidence of a dinosaur stampede 100 million years ago.

Cape Hillsborough (816ha) Coastal park of hoop pine rainforest and open eucalypt forest with fringing mangrove areas. Popular for nature study and recreation.

Eungella (50 800ha)

Eungelia (50 800ha) Large area of tropical rainforest with some grassy eucalypt woodland west of Mackay. Most is inac-cessible except to experienced bushvalkers, Tracks at Broken River and Finch Hatton Gorge pass through rainforest and lead to points of interest. Ideal for day picnics and limited camping.

Brampton Island (464ha) One-of a group of scattered islands at the southern end of the Whitsunday-Cumberland chain. Tracks fead to viewpoints for densely vegetated islands nearby and fringing coral reefs.

Cape Palmerston (7160ha) Undeveloped beachfront land of sand dunes, mangroves and swampland with two campsites for self-sufficient visitors.

Conway (23 800ha) This park of tall lowland rainforest, tall eucalypt This park of tail toward failing at a coupper to the source of the toward of toward of the toward of Whitsunday Passage Islands

A large group of continental islands some of which A range group or commencial isations solite or which are developed extensively for fourist activities. Fr-inging greets, rocky outcrops and rainforest make the going difficult even for bushwalkers. Whitsunday (10 930ha) is by far the largest. North Molle (259ha) and Hook (5180ha) are also popular. Access is by launch from Shute Harbour.

Bowling Green Bay (Mt Elliot) (55 300ha) Area of extensive lowlands of relatively low rainfall. The upper slopes of Mt Elliot include the southern limit of the tropical rainforest belt. Reach the camp-ing and picnic area from the Bruce Highway 25km south of Townsville.

megnetic Island (2720ha) A major part of this continental island off Townss is national park. If features boulder strewn hillisid with hoop pine and eucelypt forest with 22km of walking track. Habitat for koalas. No camping. Regular ferry service. tal island off Townsville n hillsides

ownsville Town Common (3272ha) n outstanding enviromental park adjacent to a rge city featuring coastal wetland habitat. Pop ay visit area. nular

Mt Spec — Crystal Creek (7224ha) This park along part of the Paluma Range near Townsville includes rainforest and eucalypt forest. Picnic areas and walking tracks are reached from the Bruce Highway.

Jourama Falls (1070ha) Series of cascades over salmon coloured granite amid lush greenery with eucalypt forest surround Popular picnic area off the Bruce Highway 35km south of Ingham

Including the largest single drop waterfall in Australia at 278 m, is adjacent.

Remote area including part of a major geological feature from the last major volcanic activity in north-east Australia.

Largest of the island national parks separated from

Larges of the island national parts separated nom the mainland by a drowned river valley. Rugged rocky mountains, waterfalls, beaches, rainforest, mangroves and tall eucalypt forest. Launches from Cardwell and Lucinda Point.

Edmund Kennedy (6200ha) Explorer Edmund Kennedy traversed this area on his ill-lated 1848 expedition. Mangroves, dense rain-forest, tea-tree — sedge associations, fan palm and sword grass swamps make up an outstanding park between the Bruce Highway and the coast. Suitable for picnics and camping.

Dunk Island (730ha) Most of this island named by Captain Cook is na-tional park. A holiday resort immortalized by surhor E.J. Banfield. Access by launch and plane. Suitable for day visits.

In the up visits. Bellenden Ker (31 000ha) Undeveloped park covering the eastern slopes of the Bellenden Ker Range and including Oueensland's highest mountain, MI Bartle Frere (1657m). Numerous waterfalls and streams flow through dense upland rainforest, the habitat of many mammals, including the tree kangaroo, bird and reptiles endemic to Queensland, Josephine Falls in the south is a popular day picnic spot.

Porcupine Gorge (2938ha) Relatively inaccessible area north-east of Hughenden challenging the adventurous. Great Basalt Wall (30 500 ha)

Hinchinbrook Island (39 350ha)

Herbert River Herbert River Five parks — Herbert River Gorge, Herbert River Falls, Herkes Creek, Yamanie Falls and Sword Creek — now adjoin to form a magnificent conservation reserve of more than 32 076 ha along the river and this tributaries. Wallamena Falls (602 ha), Including the lacence Lindle frequent of the frequent of the

Hard way to the top Gazettals, actions



Rock climbers Trevor Gynther (left) and Paul Grey presenting a copy of the new Reader's Digest book National Parks of Queensland to the National Parks Association of Queensland president Mr Brian Egan.

Trevor and Paul carried a copy up Frog Buttress in Mt French National Park near Boonah to highlight one of the more unusual activities permitted in national parks.

Eighty guests of Reader's Digest and the Service watched their climb before the formal launch by Mr Egan followed by a barbeque lunch arranged by Boonah SES.

The book is an extensive colour record of many Queensland national parks with up-to-date statements on every one with their features, access and activities rated.

This is one of four large soft-cover editions featuring all of Australia's

540 national parks produced out of the Wild Australia volume of 1984

Bookshops and some Service sales outlets have copies for \$21.95.

The Service and Reader's Digest also combined to present another new book, Australia's Dangerous Creatures, in Queensland appropriately at Fleay's Fauna Centre, West Burleigh.

One of the book's four Queensland contributors, Professor John Pearn, launched the volume in the presence of project author David Underhill

An extensive press run enables this lavishly illustrated and informative volume to be sold for \$39.95.

Distant reserves easier to see Visitors will be able to

appreciate the environment of some more distant conservation reserves a little better because of a recent Queensland Government decision

Its contribution to the upgrading of access roads has been increased by one-third to \$400.000.

Service officers are discussing projects with shire representatives to ensure money is being spent to the distinct advantage of visitors and is not merely normal maintainance.

Payments are being made as details are finalized

Allocations by Service region are:

Southern — Mundubbera Shire \$5000 (Auburn River National Park), Maroochy \$15,000 (kondalilla), Beaudesert \$50,000 (Binna Burra, Lamington), Stanthorpe \$8000 (Sundown).

Central - Booringa \$30,000 (Mt Moffatt, Carnarvon), Bauhinia \$140,000 (Carnarvon Gorge, Carnarvon), Miriam Vale \$20,000 (Eurimbula).

Northern — Hinchinbrook \$30,000 (Wallaman Falls).

Far Northern - Cook \$35,000 (Cape York national parks), Mareeba \$57,000 (Davies Creek), Burke \$10,000 (Lawn Hill).

The wish of Mr Edward Corbould to have a 430 ha block of open forest in the Brisbane Valley south-west of Mt Nebo gazetted environmental park was carried out recently.

Mr Corbould gave the land for \$1. This donation was his 14th in south-east Queensland to be made environmental park.

The land on the western slopes of Cabbage Tree Range is dominated by eucalypts and supports a variety of fauna, particularly birds.

Queensland's northernmost conservation reserve. Round Island, north-west of Thursday Island, was enlarged recently to include surrendered special lease land.

The 10.2 ha environmental park

island, forested with grey sandy soil and with rocky outcrops, is accessible at low tide by residents of the nearby and much larger Hammond Island.

Queensland's four most prolific species of kangaroo and wallaby may be shot by licensed shooters in an open season from 1 January.

The species are eastern grey and red kangaroos, wallaroos. and whiptail wallabies.

Verification from a faune officer or landholder an applicant is competent or has been a responsible and reliable shooter is one condition set by the Service before a permit and necessary special numbered tags are issued in the intensely scrutinized kangaroo management program.

Emile Frank Delafosse, of Gladstone, was fined \$1000 in Gladstone Magistrate's Court last month for fishing in the scientific research zone of One Tree Island reef.

Delefosse was seen by Q.NPWS rangers on the island and from a surveillance plane.

hanks

ks,

\$6 million plan for lookout An early start is expected on a \$6 million development at Laguna Lookout, Noosa National Park.

The Service will enter into detailed negotiations with Noosa Summit Pty Ltd whose proposal for the 4 ha area was selected after the calling of expresions of interest.

The project, likely to be completed by mid-1989, involves extensive landscaping and planting of native trees over a large area presently occupied by a disused quarry and two water storage reservoirs

Present proposals include six lookout areas with extensive car and bus parking, a restaurant, kiosk, function centre, botanic gardens, nursery, Q.NPWS interpretive

centre, a walk-through aviary, live butterfly display, an Australian freshwater aquarium and an Imax theatre.

Noosa Summit proposes a public company float. The project has the support of the Noosa Shire Council and community groups.

The Service is still considering a range of proposals submitted after the calling of expressions of interest concerning the Heathlands reserve in far north Queensland, St Helena Island, Noosa parking, Penrith Island and Johnstone River whitewater rafting.



Junior Ranger column

Two dinosaurs to make and colour

Happy holidays children

By now many of you will be enjoying your holidays and perhaps a camp on a national park. You can have lots of fun while appreciating nature.

Many write about the dinosaur footprints at Lake Quarry Environmental Park near Winton. If you are going on an outback holiday, you might call in.

Until recently, not many dinosaur remains had been found in Australia. The remains discovered relate to dinosaurs elsewhere but, like our present-day animals, are uniquely Australian.

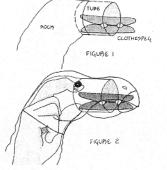
About 135 million years ago lived two most interesting dinosaurs. One, a plant eater called muttaburrasaurus, was found in what is now Queensland. It belonged to a group of dinosaurs called iguanodontids. Like many relatives it had a most unusual thumb which had changed shape to spike. Its purpose is not known. Maybe it was for defence or competition.

Another was a meat-eating allosaurus from what is now Victoria, the only known allosaur from this geological period.

Neither could have made the tracks at Lark Quarry. Those dinosaurs lived about 50 million years earlier.

This holiday you can make your own dinosaur, not a life-sized one but hand-sized, a dinosock to be exact! Patterns are given here for two.

You will need a toilet tissue tube, sturdy paper to cover the tube and make your dinosaur's head, a snap clothes peg, an old sock, glue and scissors.



Cut the tissue tube in half around the middle. Cover it with paper. Glue to the clothes peg inside the tube (figure 1). Cut the foot from the sock and glue to the tube inside the sock.

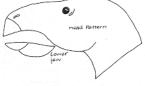
While the glue dries, cut two dinosaur heads from the paper using one of the patterns to draw your outline. Glue the heads to the tube and the top part of the clothes peg only.

Put an eye on your dinosaur. Trace the lower jaw pattern on the paper and cut

9) P Head Pattern

BUS PATTERN

PATTERN MUTTABUS PASAUSUS



two lower jaws. Glue the lower jaws to the bottom part of the clothes peg.

Put your hand in the sock as in figure 2. When you squeeze the peg, the mouth of the dinosaur should open.

If you use white paper, colour your dinosaur with cravons or texture colours. No one is sure what color dinosaurs were so you can use your imagination.

Ranger Frances

Shelley Jones prepared the artwork.



QUEENSLAND

SERVICE

Beechmont

(075) 33 3584

(075) 45 1734

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Boonah, Qld 4310

see Regional Centre

Beerwah, Qld 4519

MI Nebo, Qld 4520

(07) 289 0200 (3.30-4pm)

Moreton Island, Old 4025

Downs-South West Sub-Flagional

Southern Downs District Office

Hermitage Research Station via Warwick, Qld 4370

via Ballandean, Old 438

via Stanthorne, Old 4380

Roonah

MS 161

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Office

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Lamington National Park Binna Burra section

via Nerang, Old 4211

Green Mountains sectio

via Canungra, Old 4275

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Moreton Bay and Canning

Glass House Mountains Office

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Knoll Road North Tamborine, Old 4272 (075) 45 117



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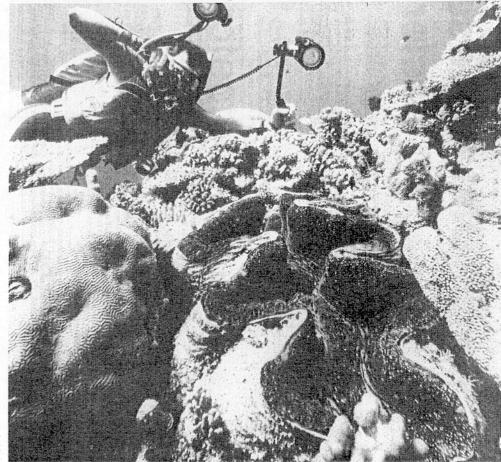
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Giant clam puzzle



Diver records the colourful mantle of a healthy giant clam on the Great Barrier Reef off Cairns. Size and shape of the giant clam has made it instantly recognizable as a distinctive part of the reef, and in the past it featured in many a tale about unwary pearlshell divers being trapped in its 'jaws' and drowned. In recent years, many giant clams on north Queensland reefs have died and Queensland National Parks and Wildlife Service marine parks officers are among scientists are trying to find the cause. Report page 1.

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