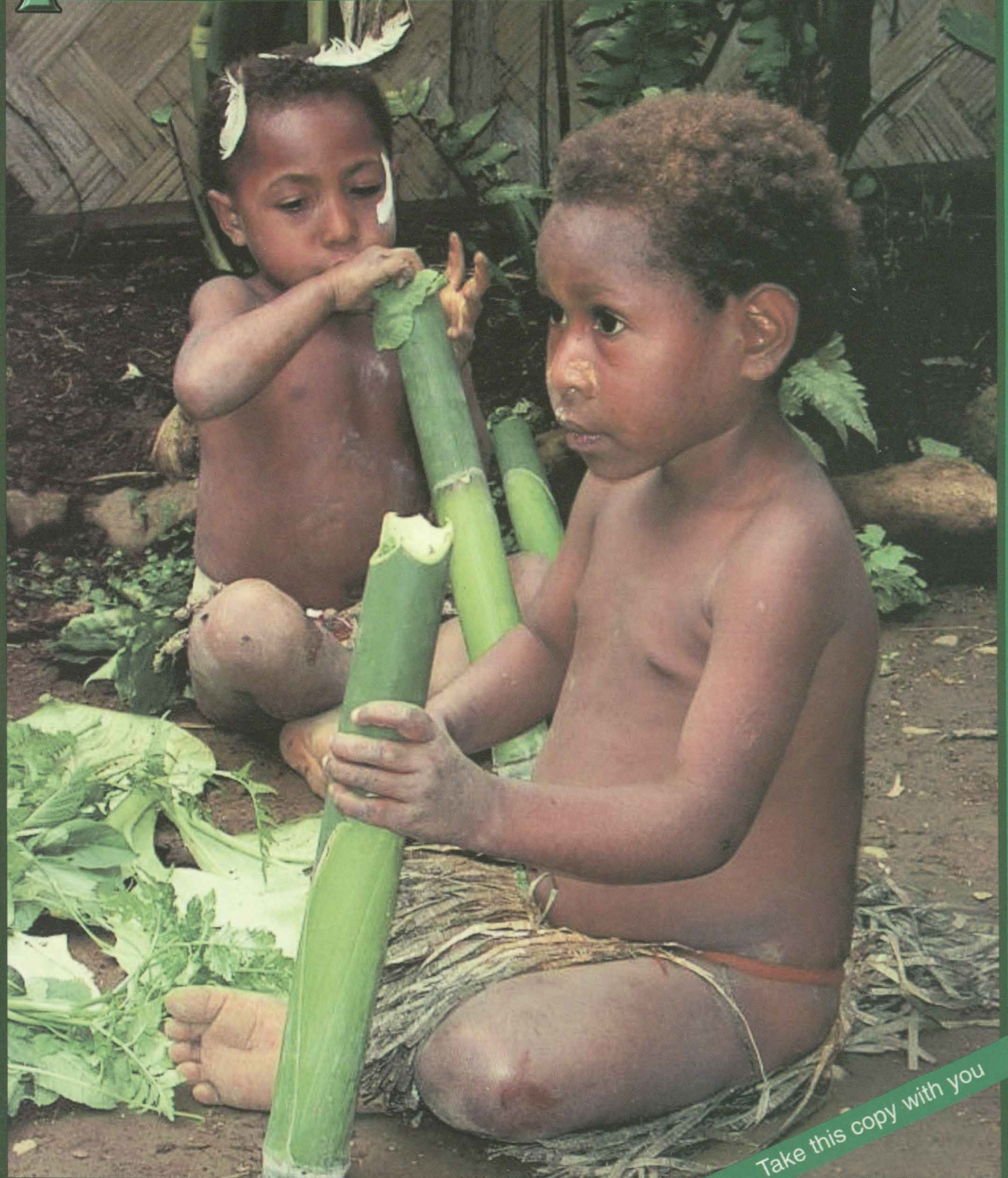


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No 150 March - April 2002



Welcome aboard

The waters of Papua New Guinea abound in marine life — fish in commercial quantities or for sport, coral reefs and the wondrous creatures that live on them.

This issue of Paradise features marine activities — touring by boat from Lae to Alotau; diving in Milne Bay and Rabaul; opportunities for sport fishing all over the country; a guide for photographers to the living reefs of the Indo-Pacific; and a fishing, marine engineering, boat building and repair business based in Alotau, where young women dominate the workforce.

Other distinctive cultural activities and destinations are also highlighted — traditional pottery in West Sepik and Madang, and the magic of Ambua Lodge near Tari in the Southern Highlands.

For travellers from Port Moresby to Singapore on Air Niugini's comfortable twice weekly service, take time to visit the spectacular Jurong BirdPark and see, amongst other creatures, birds from our homeland.

Hon Vincent Auali, MP
Minister for Privatisation & Corporate Affairs



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Editorial Board Member:
Eva Arni (Air Niugini)

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Cover: *Huli children help prepare a mumu*
Photograph: *Cullen Serr*



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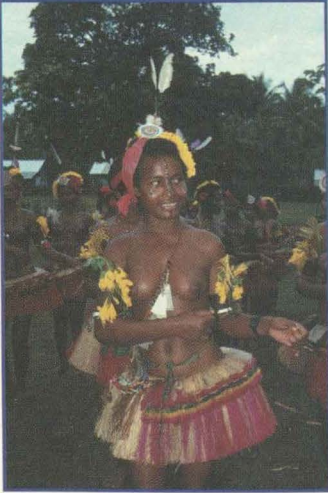
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Diving beneath the spell ISLANDS OF MILNE BAY

Story and photographs
by Tony Karacsonyi



The Trobriand Islands, 120 coral atolls sprinkled on the Solomon Sea, are filled with magic and sensuality. Trobrianders believe their islands are paradise and that magic controls everything — the weather, health and love. Magical spells fill their Kula canoes and incantations rise up from their gardens.

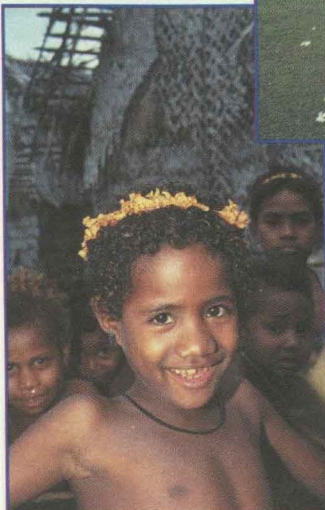
The Trobriands were named after Denis de Trobriand, an officer with the French D'Entrecasteaux expedition which explored the islands in the early

1790s. I was lucky to join a scuba diving expedition to the Trobriands. The culture and diving in these enchanted isles surpassed my wildest expectations.

The Trobriands are home to a unique people made famous



by anthropologist Bronislaw Malinowski who in 1914 took part in an expedition to New Guinea and Melanesia, spending four years studying the Trobrianders. He wrote the books *Coral Gardens and their Magic*, *The Sexual Life of Savages* and *Argonauts of the South Pacific*. Their rich distinct culture sets them apart from other islanders in the region.



It was the promise of superb coral reef diving and a chance to meet the Trobrianders that drew me to these islands off Papua New Guinea. My adventure started in Madang.

Kaileuna Island in the Trobriands was our first deep wall dive where we saw many yellow margin trigger fish (*Pseudobalistes flavimarginatus*) building nests. I was mighty glad that they weren't the titan species as with so many around I had visions of being bitten. The titan triggerfish can bite large chunks of flesh from your body and are quite aggressive during nesting time.

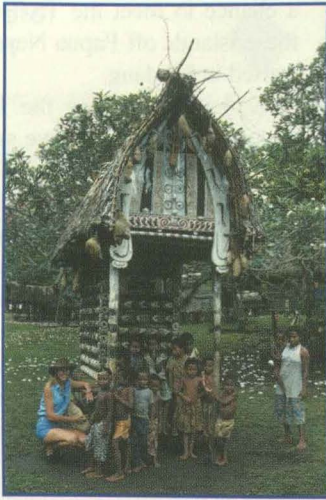




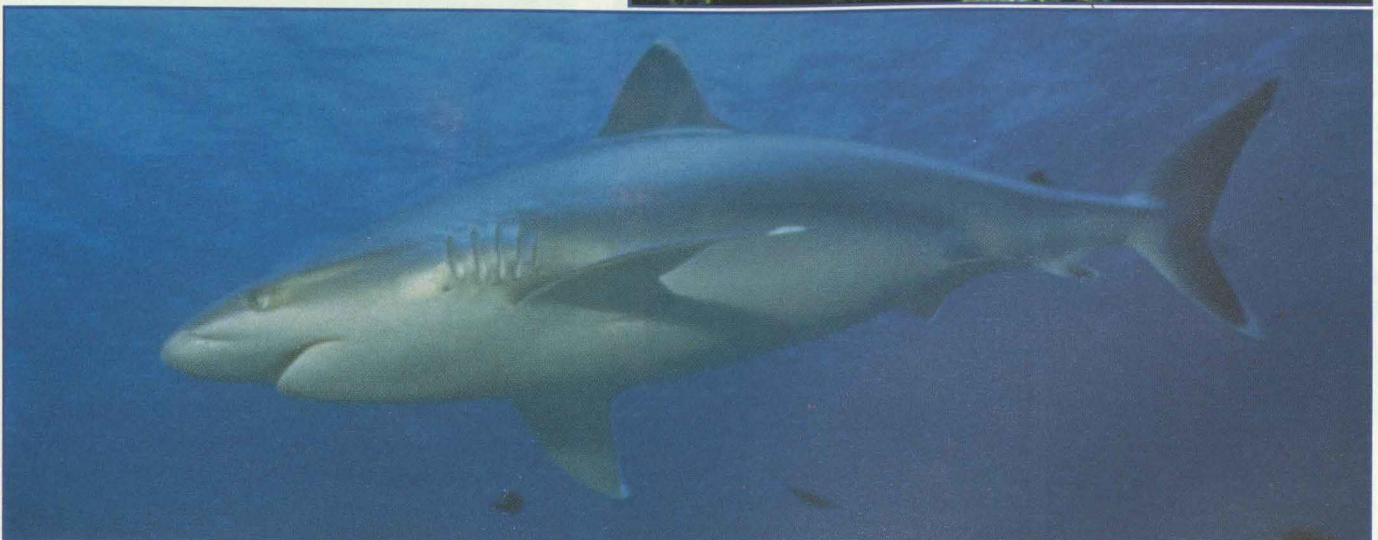
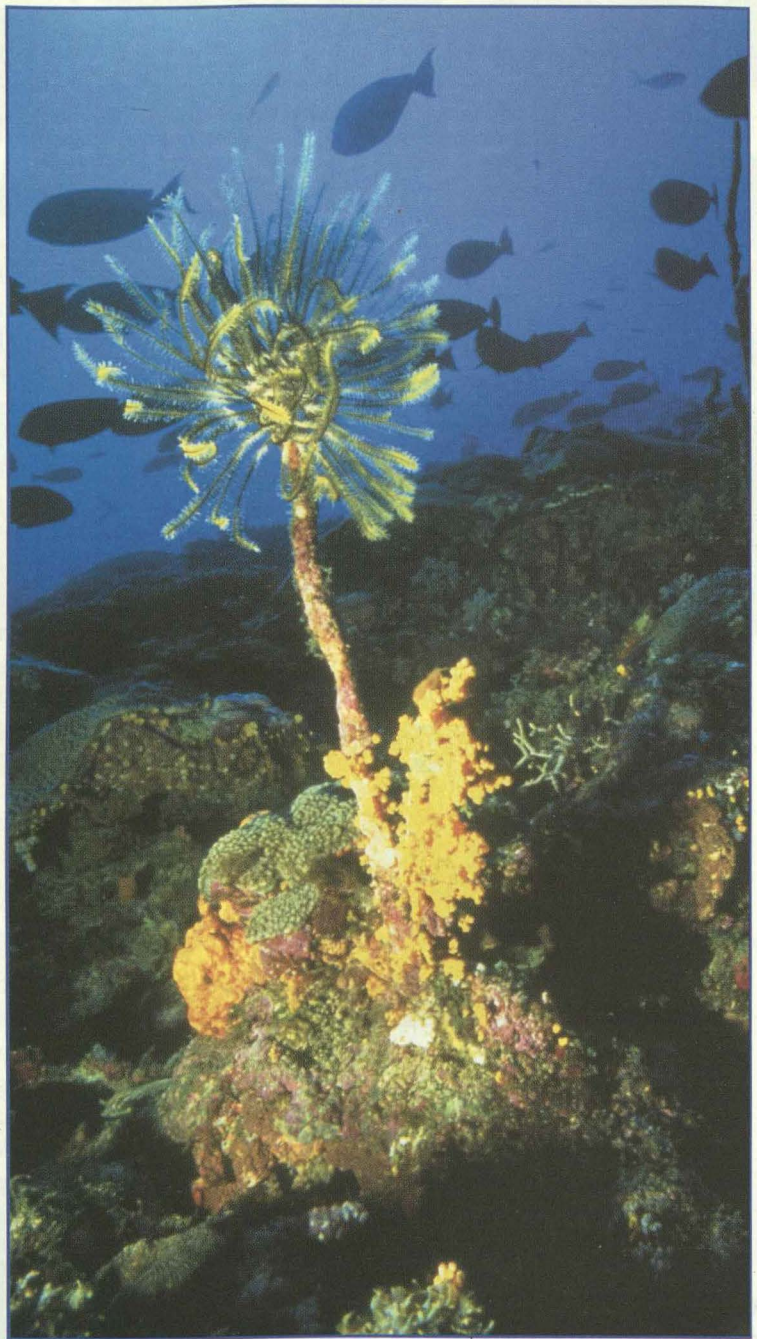
Other tropical fishes we saw on this superb dive were fire gobies, teira batfish, blue band gobies, male striped boxfish, yellowtail coris, whaler sharks, sleeping nurse sharks, dogtooth tuna, eagle rays and several blue-fin trevally.

At Kitava Island we enjoyed a 30 metre deep wall dive in lovely 30

metre visibility. Dozens of enormous sea fans decorated with vividly coloured featherstars made for excellent wide angle underwater photography and I gave the 16mm Nikon lens a good workout. We found some very unusual starfish whose surface looked like bubble wrap. Chunky dogtooth tuna, Spanish mackerel and a few barracuda topped off this dive nicely. We later enjoyed a great beachside BBQ on the tiny island called Nuratu — close to Kitava, where a flotilla of villagers paddled across by canoe and, armed with ghetto blasters, put on an exciting dance night.



At Kaibola Beach people swarmed around us, offering exquisite carvings. At Kitava, we were treated to a traditional dance by the kids at the community school. Walking through the hibiscus-lined villages we ended up at the chief's yam house — a sacred place where huge yam tubers are kept.





The Trobrianders are excellent farmers and most of their time is spent growing yams which are their staple food. Yams symbolise power and wealth. Some people grow them up to four metres, so big that they have to be strapped to timber planks and carried by several men.

A yam harvest festival is held each year — a celebration of growth and fertility. It's this festival

that largely earned the Trobrianders the somewhat unwanted reputation as the 'islands of love'. The festival reflects the abundance and fertility of a successful yam harvest.

The mysterious D'Entrecasteaux Islands lying off the south-eastern coast of Papua New Guinea are riddled with extinct volcanoes. Hot springs still splutter and spew boiling water several metres into the air and the mountainous islands are like French Polynesia, rising 2,255 metres into the tropical sky. Jacques Cousteau mounted an expedition to this area.

The D'Entrecasteaux Islands were named by French admiral and explorer Antoine de Bruni Chevalier d'Entrecasteaux. Entrecasteaux discovered and explored the islands in the early 1790s while searching for the missing Comte de La Perouse who had last reported from Botany Bay in 1788.

The D'Entrecasteaux Group contains Goodenough, Fergusson, Dobu and Normanby Islands. The channels between these islands are bathed in nutrient rich waters giving life to delicate coral reefs & thousands of dainty little tropical fishes called anthias.



In the Amphlett group of islands (between Fergusson and the Trobrianders) spectacular little islands rise sharply from the sea. We dived at a reef where thousands of colourful anthias swarmed and a sea turtle rested nonchalantly on delicate corals. At Nabwegeta Island, famous for its upside down pottery, we checked out a big Kula canoe with decorated splashboards and woven sails. With high sides for sea voyages, reinforced and painted with murals, it takes several people to heave these huge outriggers ashore while chanting incantations.

Kula is a traditional exchange route which involves the passing of special shell ornaments, armbands and necklaces around a circle of islands known as the 'Kula Ring'. In the past, kula chiefs sailed for months in these highly decorated canoes, navigating by the stars, to exchange the prized items.

At Fergusson Island, hot volcanic vents spewed boiling water several metres into the air. Standing on the edge, I was one step away from being boiled. Sweating, the sulphuric smells made it hard breathing. Through the steam flew a pair of vibrant ecclectus parrots and later we saw a large black bird of paradise (*Manucodia chalybata*) which flew with a weird bobbing action of its tail.

The grandeur of these isles is matched only by their marine life. On a dive near Goodenough Island, thousands of crimson anthias swarmed over the pristine coral heads. Virtually every conceivable Papua New Guinean tropical fish species wiewed, ducked and dived like aquatic butterflies among the delicate corals.

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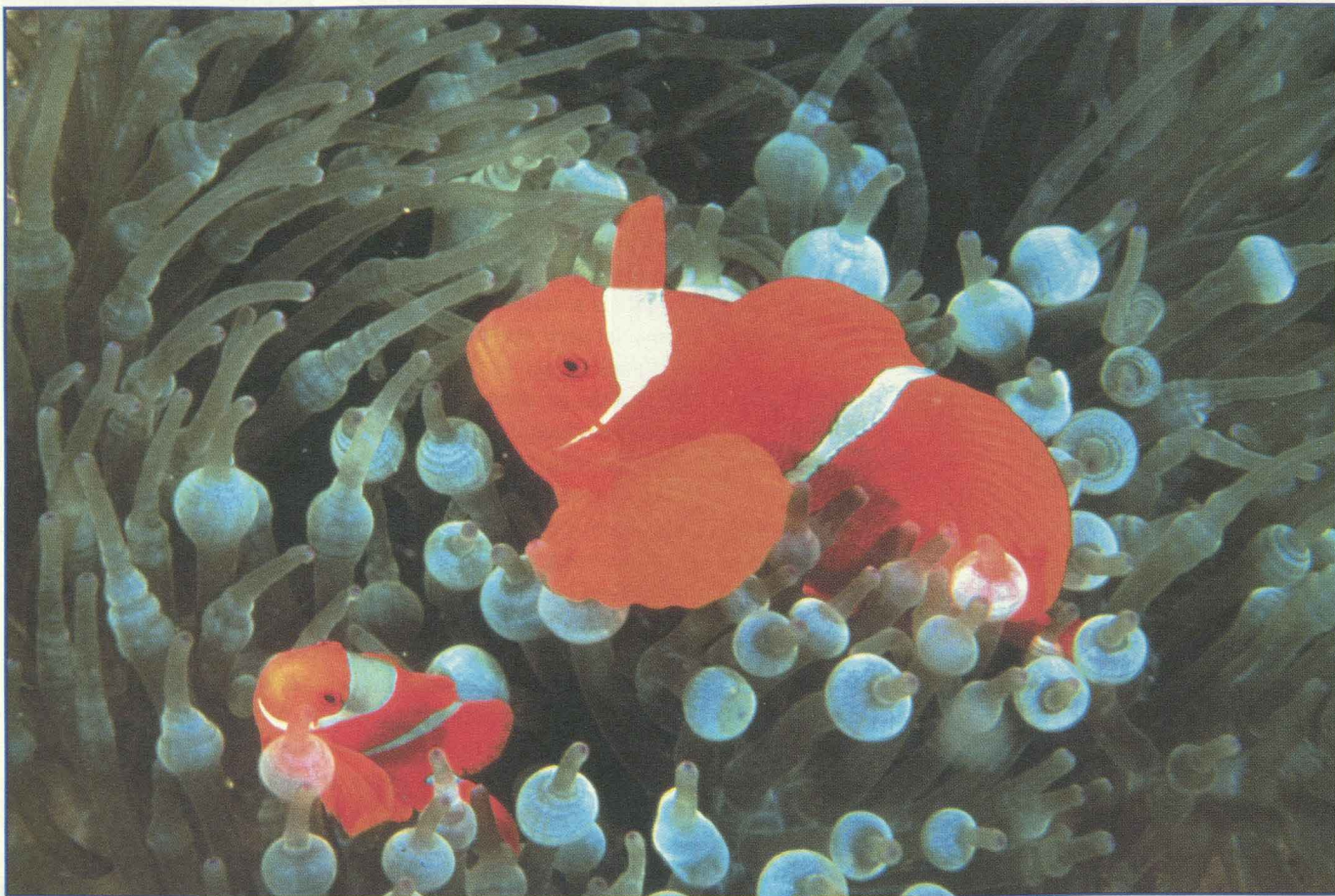
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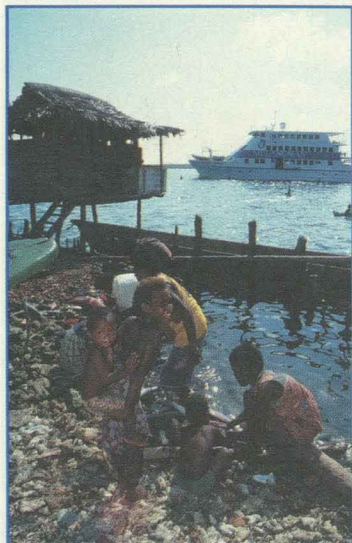


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The walls of the reefs were adorned in huge sponges, sea fans and enormous purple vase sponges on which tiny sponge gobies lay. Surfacing into flat, sheltered waters surrounded by steep jungle-clad islands I felt as though I was in divers' heaven.

The area's richness is thanks to the tidal currents which push the deep ocean water back and forth at either end of the major channels between the islands. This carries planktonic food for the corals and hordes of hungry fishes.



At Fergusson Island we walked to the Budoya Mission where we were given a warm welcome by the children who took great pleasure in trying on my sunglasses. 'Hey man, that's really cool!' These are the things I've grown to love about Papua New Guinea — the friendly smiling faces, breathtaking scenery and superb diving.

Observation Point in the D'Entrecasteaux Group is a special place to see bizarre marine life. Many fascinating discoveries have been recorded here. Some of the rare and unusual animals found here are a rare striped octopus, flamboyant cuttlefish, ghost pipefish, flying gurnards, razorfish, spiky devilfish and silver moonfish.

A rich and unusual dive spot is at Normanby Island near the Bunama Mission station. The seagrass beds around Normanby are home to a wonderful biodiversity of marine creatures such as double-ended pipefish, seahorses, frogfish, squid and venus comb murex shells. It's a great night dive with unusual marine animals scuttling around.

I can highly recommend a trip exploring the Trobriands and neighbouring isles. With a combination of wonderful scuba diving and sensuous cultural experiences, it's a place where magic thickens the air, mesmerising everyone.

Melanesian Tourist Services run both dedicated and combined cruises from Madang to Milne Bay exploring Siassi and the Trobriand and D'Entrecasteaux Islands. These start in Madang or you can board a reverse cruise starting in Alotau. The price for the 7-night Trobriand Island cruise includes twinshare cabin, 4-5 dives per day, all meals and village excursions. Excluded are airfares, airport transfers, beverages, personal items and 10% VAT.

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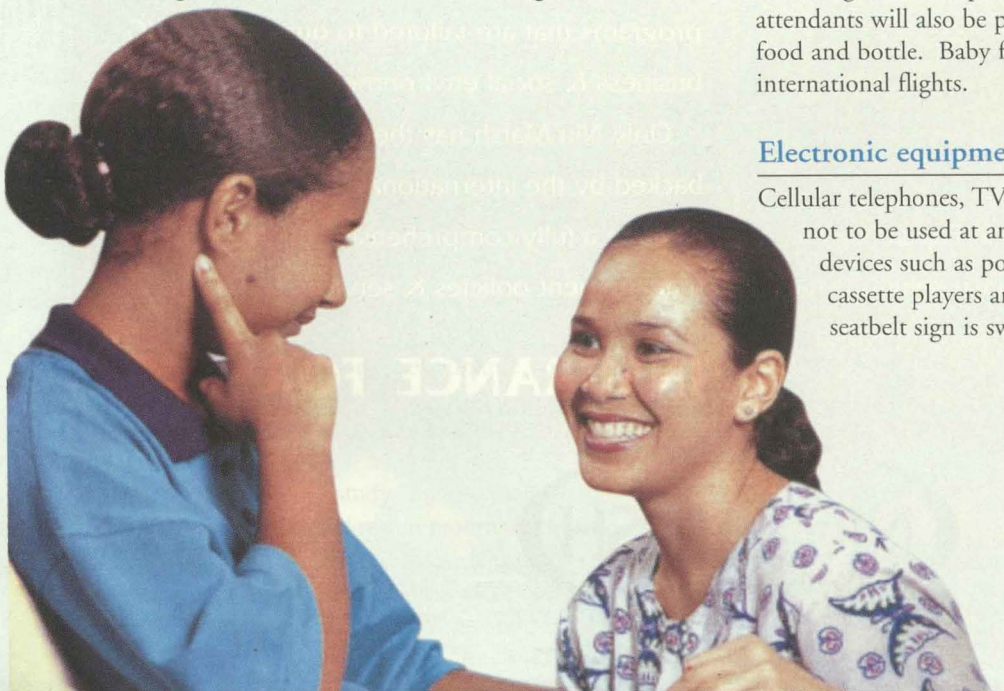
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The Magic of Ambua Lodge

Story by Steven Mago

Photographs by Cullen Serr and Steven Mago

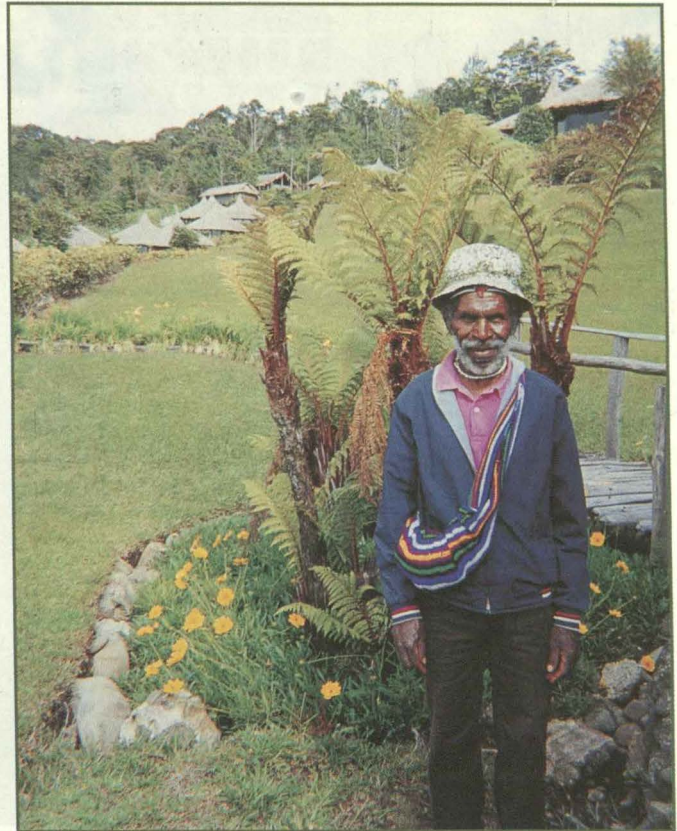
A 2001 edition of the 'National Geographic Adventure' magazine lists Ambua Lodge in Tari, Southern Highlands Province, as one of the ten best eco-tourism facilities worldwide. These facilities have been highly recommended by environmental groups for 'their innovative and uncompromising approaches to conservation of the environment and to preservation of the world's diverse cultural heritage'. There are two in Canada, one each in Australia, Ecuador, Kenya, Nepal, Panama, Peru and the US Virgin Islands. Ambua Lodge is the only South Pacific listing.

Ambua's 'top 10' status comes as no surprise, having won Pacific Asia's Travel Association's 1991 Pacific Heritage Award for being 'a superb example of culturally sensitive and ecologically responsible tourism'. If world-renown naturalist Sir David Attenborough has been to Ambua more than once to film the bird of paradise and bowerbirds, who would argue?

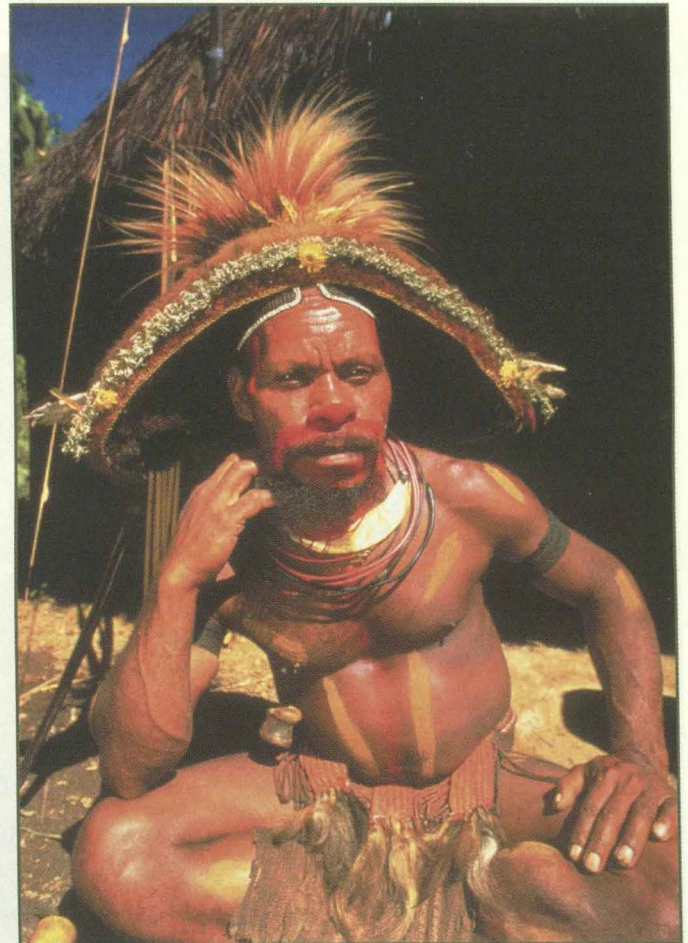
What really is Ambua Lodge and why travel all the way around the world to be part of the Ambua experience? Ambua is located at 2,000 metres in the Tari Gap area and was built in 1985 by one of Papua New Guinea's leading tour operators, Mt Hagen-based Trans Niugini Tours, owned and operated by long-time PNG residents Bob and Pam Bates. Trans Niugini Tours also owns other wilderness accommodation facilities in Karawari Lodge, located along the Karawari River, a tributary of the Sepik River, the 9-room floating MV Sepik Spirit and Malolo Plantation Lodge, an escape destination situated along the North Coast Road of Madang Province.

Ambua's success and rise to prominence in the world's adventure tourism and travel circles have largely been due to its sensitive and responsible approach to tourism development. Ambua is not your normal conventional mass tourism facility. It is a high-class facility that brings much-needed comforts to an inhospitable land. It succeeds in organising tour activities that enable eco-tourists to mingle with the locals and learn about their unique culture, while encouraging the conservation of the natural environment of the Tari Valley.

Among Ambua's top tour activities are bird watching, orchid viewing and village study tours, which include wig-growing and wig-making, widows in mourning, spirit dances, sun worshipping, traditional weddings, singsings and other cultural demonstrations. There are also soft adventure activities like nature walks along the Wota and Magara Rivers viewing rhododendrons, orchids and the serenity of free-flowing waterfalls that cascade into crystal-clear pools.



Tumbi, a clan leader from Ambua



Traditionally dressed Huli from Tari



Looking from Ambua Lodge over the Tari Valley

The best-known feature of Ambua Lodge is the interactive cultural tour activities that it organises with the local host community, the Hulis, one of Papua New Guinea's best known and colourful tribes, numbering about 40,000. They live in a total land area of 2,500 square kilometres in the Tari Basin. The Hulis, sturdy, warlike people, who have a long history as subsistence farmers, have put Papua New Guinea on the world tourism map, largely due to their elaborate and colourful facial paintings and mushroom-shaped human hair wigs. These wigs are worn by men and decorated with yellow and red everlasting daisies. The men blow endlessly on panpipes of bamboo.

Centred around a 40-unit lodge, Ambua offers some of the best birding in the world including the intricately-plumed birds of paradise, admired the world over for their beautiful nuptial plumage and elaborate courtship displays.

The whole island of New Guinea including Irian Jaya to the west has a total of 43 species of the bird of paradise. Thirty-eight are found in Papua New Guinea and the Tari Gap near Ambua has 13 species. Ambua's total bird list is 220 and more are being added every year. The 13 bird of paradise species and other exotic species are the reasons why birding enthusiasts are prepared to travel around the world for the 'Ambua experience'.

Commonly sighted around the Tari Gap area and the birding sites around the Lodge are the Blue Bird of Paradise, Crested Bird of Paradise, Loria's Bird of Paradise, Yellow-breasted Bird of Paradise, Brown Sicklebill, Black Sicklebill, the magnificent *Astrapia* species — Ribbon-tailed *Astrapia*, Arfak *Astrapia*, Stephanie's *Astrapia* (Princess Stephanie) — Wahnes' Parotia, King of Saxony Bird of Paradise and the Superb Bird of Paradise, popularly worn by the Hulis on the front of their headdresses.

In the local vernacular, Ambua Lodge was named after a yellow coloured clay that can be found in the Tari Gap area. The Hulis use this yellow clay for facial decoration.

The Lodge is nestled on a mountainside south-west of the Tari township, along the Southern Highlands stretch of the Highlands Highway. When the Highway was in perfectly driveable condition, a bus ride to Ambua from the Tari airstrip used to take 40 minutes. It now takes one hour 50 minutes. The road has deteriorated but the scenery along the way still remains as beautiful. You forget the road conditions as you drive past pockets of thatched-roof houses organised in homestead groups, family units built beside food gardens, churches, aid posts and schools.

Photo Competition


Send a **photograph** on any subject to **Fotofast Photograph Competition, PO Box 1267, Port Moresby**. A winning photograph will be published in each issue of *Paradise*. The winner will receive K100 cash from *Paradise* and a K100 **Fotofast** voucher to be spent at any **Fotofast** outlet in Papua New Guinea. The decision of the judges is final.

As Ambua's courtesy bus begins its climb past the last populated village at Koyan, the scenery gradually changes. One begins to see a rising blanket of green forest cover and a network of mountains in the background. As the bus climbs further, the Lodge units come into view and are distinctively recognisable. Their unique architecture is based on traditional design.

Evenings and mornings at Ambua are memorable. At dawn, one can catch a spectacular and breathtaking view of the Tari Valley below. Its cloud formations stretch over the mountain tops like a flat-lying cobweb, punctuated in places by protruding summits. You almost feel that you are on top of the world and looking down over the pages of 'National Geographic'.


Except for the scars that have been carved out of the Basin to make way for the township, oil and gas fields nearby, much of Tari is still pristine, untouched territory, with people still isolated by geography and history. At Ambua you are really at peace with yourself and you forget the hassles of everyday life because there are no telephones and television. Your only companions are the local staff, the birds in the forest and invertebrates on the forest floor.

Guarded by the massive bulk of the Muller and Karius Ranges to the south and the Central Range system to the north, this part of the world is in fact the very centre of New Guinea Island. The Southern Highlands was the last of the five highlands provinces to be explored. The first patrol in 1935, approaching from the south, took months to break through to the Tari Basin and lost three of its members from sickness and exhaustion. The explorer of the Huli country called it the 'Papuan Wonderland'. When the first white men walked through the country of the Huli, they found a culture quite different from any previously known in what was then Papua.



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They found a relatively dense population of light-skinned, stocky warrior farmers, who did not live in villages, but in settlements spread out over the open grass among gardens and terraces.

Today, nothing much has changed for these 'Last Papuans', as they are known to other Papua New Guineans. With the arrival of the missionaries and advent of education, improved health services and a modern cash economy, the Hulis have been able to continue to nurture a rich and complex cultural heritage that is the envy of many. They have survived because they have learnt over centuries to co-exist with nature in an otherwise harsh environment.

Staff at Ambua Lodge



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My whirlwind tour continues to magnificent Madang

Story and Photographs by Mahendra Blackman

The old saying that implies 'without some change, then one does not get to appreciate life properly' hit me right in the face at Madang. I was getting used to that typical tropical-island paradise experience. But at Madang, thanks to severe storms in the Bismarck Sea, the weather was very different. Staying at the Coastwatchers Hotel I was on the edge of the Pacific Ocean watching huge waves hitting the shore and sending sheets of foam high into the air. But you know? It was exciting as well as beautiful. I felt safe and comfortable in the hotel, which had everything from TV to swimming pool, fantastic food and service, which made up for any discomfort caused by the weather.

The next morning was fine and sunny but the waves were still thundering onto the shore. In a 4x4 vehicle from *Budget*, I spent the morning exploring the town centre and golf course. By the afternoon I discovered what I think was the most important find of all — The Cultural Centre and Museum. This clean modern place was full of artefacts, photographs, masks, musical instruments and history. And best of all, very helpful staff, who supplied a guide to travel with me, over the next few days, translating and showing me how to get to all the places I wanted to see. This service is free of charge.



Above: *The Coastwatchers buffet in the restaurant overlooking the garden towards the Pacific Ocean*
Left: *The entrance to the Madang Cultural Centre*
Below left: *A model of a trading canoe in the Museum*
Below: *A room at Coastwatchers Hotel*



First off, with our guide Koni, a trip to test my driving skills in the 'jungles of PNG' driving to a mountain top seven kilometres from Haus Wasel to Ohu Butterfly Farm. Here, the community has been educated in the growing of flowering plants to feed seven breeds of protected butterflies, and basic management in farming butterflies for export. Not only does the project produce an income for the community, but also protects about 300 hectares of natural tropical forest from the loggers — a great idea!

A more sedate adventure was a 20-minute drive from Madang along the Lac Highway to the village of Balek, where Wagum Degil the headman of the Awac clan, was only too pleased to show us around the unique Wildlife Habitat. A well maintained park of lawns and trees — all tagged with their correct names — a perfect place for a family or romantic picnic.

What makes it unique? It's the water. At the base of a lush, vine-clad mountainous cliff face is a grotto, which excites the mind to thoughts of spirits and legends, where cool sulphur water springs from the underground and flows into a lagoon-like creek. Although slightly milk coloured, the water is so clear that the small turtles, which are very rare, appear to be under clear glass. About 50 metres away another stream of pure fresh spring water joins as in wedlock and together they flow on to the sea.

Not only is the spring beautiful and tranquil, it has many medical benefits. The people have learnt that bathing in the sulphur water from the mountain treats many ailments (*photos below*).



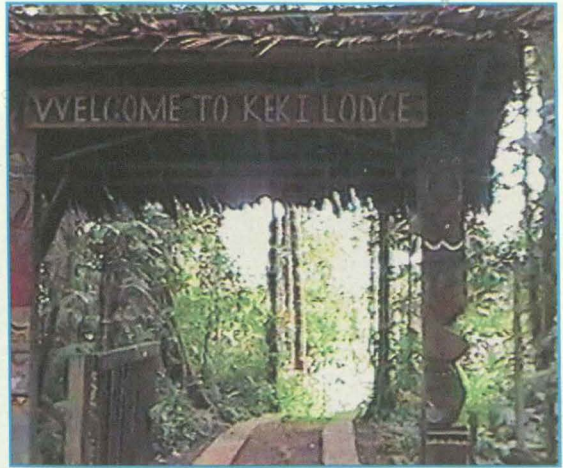
A highlight of my travels was a drive of about 126 kilometres along the highway viewing the cocoa and coconut plantations, and then 30km into the jungle to the Sevan Community School. Villagers from Bunabun, Asumbin, Arenouk, Sarisabu, Suburan and Salemben were having a cultural day. I was fortunate to witness the last portion of an initiation for a large group of young

boys. The traditional dancing was spectacular. Like magic, the air was charged with a high. It was exciting and hypnotic. I felt myself wanting to join in while the dancers practised their ancestral customs. The costumes of feathers, wild pig tusks and so much more were magnificent (*photos on right*). This was not something put on just for the tourist — it was real. I felt a deep sense of privilege for being accepted by the people and allowed to witness the day's events.

Interestingly, the Bunabun Health Centre chose to set up a stall displaying information on immunisation, safe sex, family planning and anti-tobacco (*photo on right*). Not only by using posters but also using a theatre group to get the message through to the people.



Before returning to the hotel, we pushed further into the jungle, visiting Moyang Okira's *Keki Lodge* located in remote mountainous jungle. Here, the Lesser birds of paradise thrive, feeding on the huge fig trees. This lodge accommodates 12 visitors who can relax among bananas, taro, tapioca, orchids, medicinal plants, forest, wildlife, cool mountain air with no mosses. If they want to expend some energy, they can take one of the environmental tours. Keki Lodge is a little *Heaven on Earth*.



A common day time sight in Madang — bats sleeping in the trees during the day



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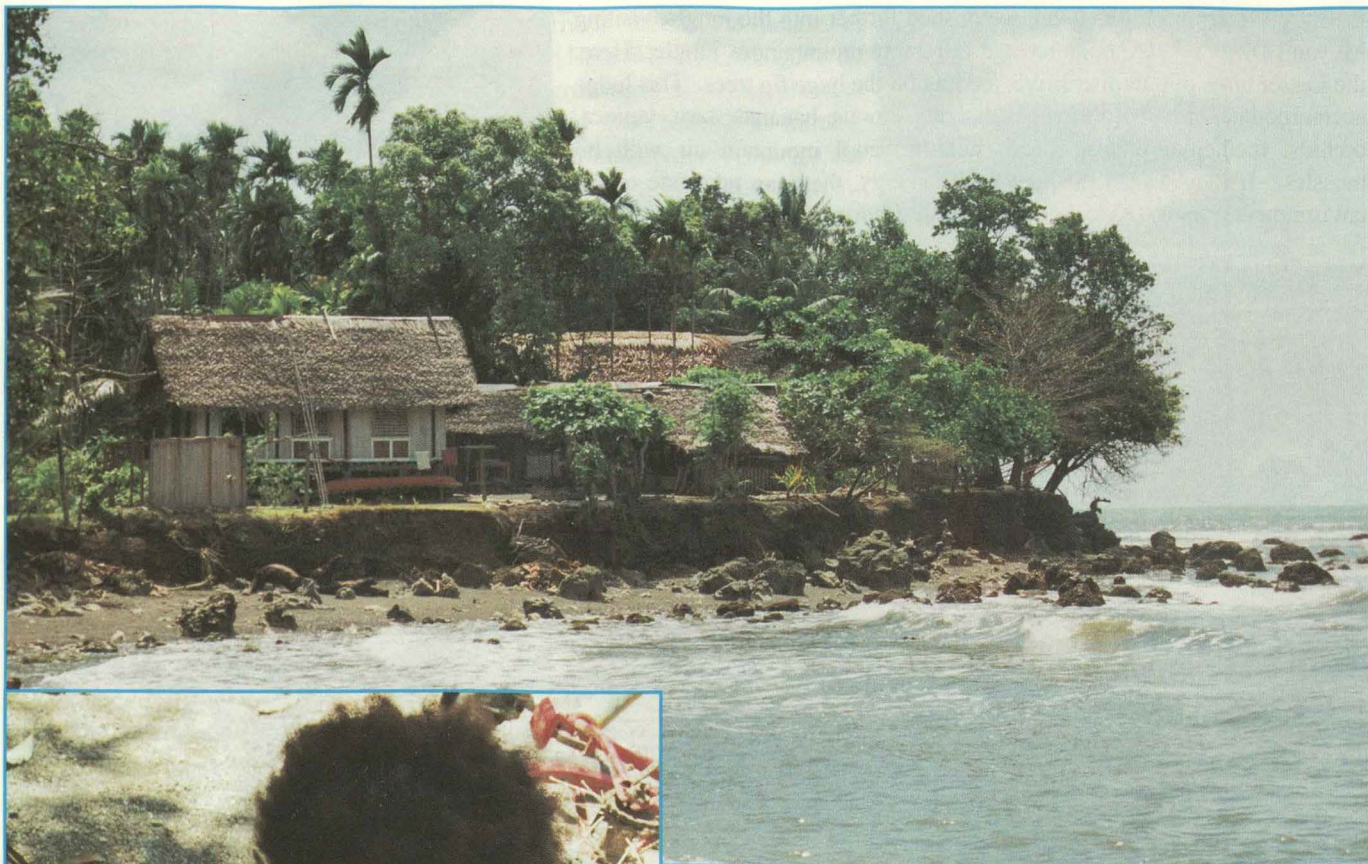
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I could not leave Madang until I visited the place famous for its pottery — Bilbil (*photo above*). Once again Koni guided me. Within a short time we arrived at Bilbil village where I met the headman Mr Tee Naneg. On this day of the week the villagers were resting, however for *Paradise Magazine* a special demonstration was arranged. Diane Wari sat down and with a round stone about the size of a tennis ball and a small piece of flat wood — nothing else, no spinning wheel — took a lump of rough damp clay and turned it into an object, not only of usefulness but of beauty (*photo on left*). It was amazing, no tricks, I watched the whole process — from a lump of clay to a traditionally designed Bilbil cooking pot.

As much as I wanted to, I couldn't linger longer, it was back to the hotel to pack, for I was flying to Wewak that afternoon — the next sector on my introduction to Papua New Guinea, which will continue in the next issue of *Paradise*. 

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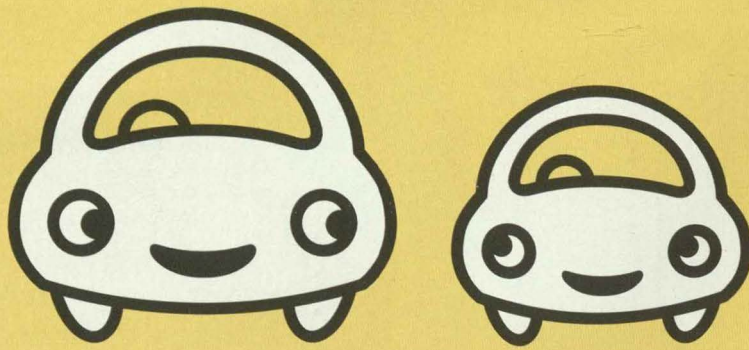
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BOOK REVIEW — Living Reefs of the Indo-Pacific

LIVING REEFS OF THE INDO-PACIFIC

A PHOTOGRAPHIC GUIDE



Rob van der Loos

With over 400 photographs this book is a field guide for locating some of the smaller inhabitants of the coral reefs of the Indo-Pacific. There is so much startling beauty in the waters of Papua New Guinea, it is very easy to miss some of the more curious and interesting creatures. Within the tentacles or folds of one animal, many others may lurk. Host animals can provide protection, good hunting grounds or simply a place to live. Non-living environments, too, like the sandy bottoms and rubble zones, harbour still more animals.

Rob van der Loos believes that if you understand the relationship between creatures in the marine world, it is easier to find them. Many of the creatures on the host organisms need each other but in most cases the host derives no benefit from its inhabitants. Small guests can be well camouflaged and may mimic other forms. Many have the ability to change their colouring and patterning.

In his Introduction to the book, Rob van der Loos, photographer and operator of the live-aboard dive boat, the *MV Chertan* based in Milne Bay writes: 'Although most professional and amateur underwater photographers can take fine pictures, many have no idea of just where to find the exotic creatures they dream of capturing on film. When I was asked for the ten-thousandth time, *Where can I find this anemone/shrimp/coral?* I decided it was time to put my knowledge into a book.'

His book illustrates with clear colourful photographs the different habitats existing in the ocean realm — seagrass areas, pebble areas, rocky reefs, drop-offs, mud flats, sand flats and coral mounds.

'While many species range over a number of very different habitats, many others have evolved to suit the conditions of very specific ones. The major factors in the formation of any habitat are wave action, current and depth. Areas continuously pounded by wave action are usually unable to support the formation of hard corals but areas fed by strong currents tend to support huge varieties of fish life and soft corals. Increasing depth also tends to be reflected in changes in the characteristics of an area's inhabitants.

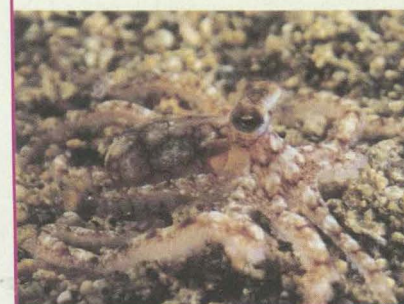
The smaller creatures of the reefs are often found within or upon larger organisms, either plants or animals. The relationships between these organisms can be quite one-sided, as in the case of the spindle cowries and soft corals. The cowries find shelter in the coral and use it as their food source, giving nothing in return. Other relationships are mutually beneficial, each creature relying on the other for its survival, like the shrimp bogy and the blind shrimp. While the shrimp maintains the burrow that both need as protection against predators, the bogy stands guard outside, warning of oncoming danger by slight movements of its tail.'



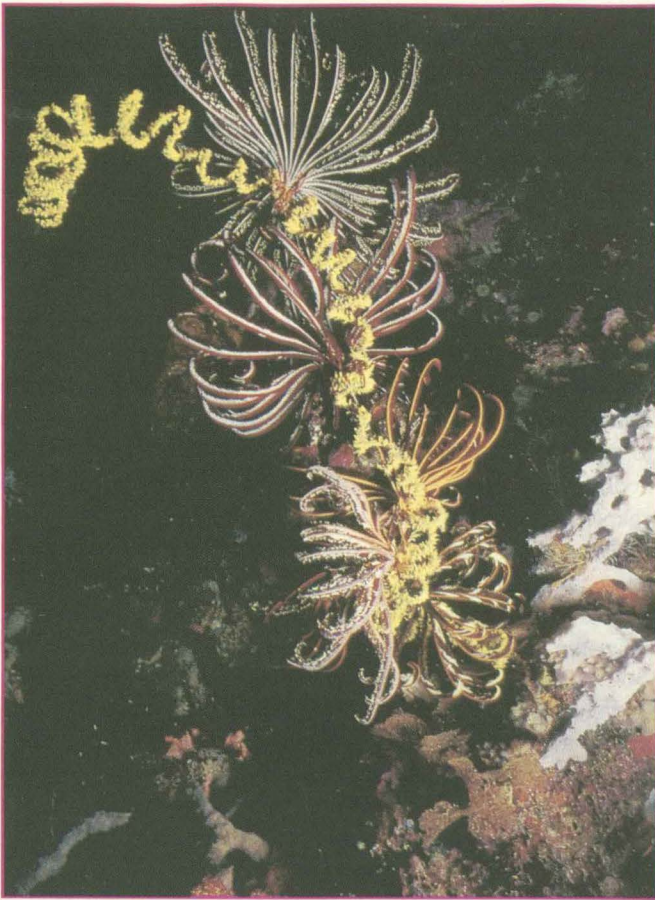
A slithering suite of Banded Sea Snakes? No — just a Mimic Octopus (*Octopus* sp.) living up to its name. This octopus can be found in sandy pebble bottoms and sandy grass areas, mimicking the Banded Sea Snake and various species of flounder, sole, mantis shrimp and bottom-dwelling sting ray.
DEPTH RANGE: 3–30 m (9–100 ft).
DISTRIBUTION: PNG, Indonesia.
IDEAL LENS: 24–60 mm.



More delicately striped than the Mimic Octopus, the beautiful Ornate Octopus (*Octopus* sp.) has been observed trying to mimic such creatures as sea snakes and lionfish.
DEPTH RANGE: 3–30 m (9–100 ft).
DISTRIBUTION: PNG, Indonesia.
IDEAL LENS: 60 mm.



This small unidentified octopus was seen moving along a soft sandy bottom on Observation Point, Milne Bay in Papua New Guinea. As it moved along the bottom, it rapidly changed its colouration to match its background. This photograph was taken at one of the few moments when it was clearly visible.
DEPTH RANGE: 3 m (9 ft)
DISTRIBUTION: PNG.
IDEAL LENS: 105 mm.



Right: *With an eye-catching pink-red mantle, Cypraea chinensis is an attractive cowry.*

The first chapter looks at organisms that live closely with others. Some form specific relationships with just a single species, or several species from a single genus; others live among a broader spectrum of organisms.

Chapter 2 illustrates a few of the larger cowries commonly found in rubble areas, while Chapter 3 reveals the extraordinary beauty of some of the hundreds of sea slugs (beche-de-mer) found in tropical waters. Chapter 4 portrays several members of the dangerous scorpion-fish family. Chapter 5 illustrates the relationship that probably first springs to mind when one thinks of tropical reefs, that between sea anemones and the colourful anemone fish.

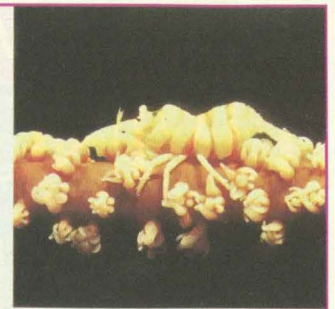
Chapter 6 takes a different tack. Until recently, most people who dreamed of diving in tropical waters had only clear water and rich coral reefs in mind. While these areas remain the most popular dive sites, increasingly divers are looking to explore the habitats of the sandy, silty seaweed zone and the rubble (or muck) zone.

Chapter 7 explores some techniques of underwater photography and discusses how to get the best effects. The captions on the photographs give each organism its common name (where it has one), its scientific name, a descriptive comment, and notes on depth, distribution and ideal lens for the subject.

Whether you are a photographer or not, you will enjoy this book.



The bizarre little black coral crab *Xenocarcinus tuberculatus* clings to black coral tentacles in strong current areas.
DEPTH RANGE: 5-40 m (15-125 ft).
DISTRIBUTION: PNG, Australia, Indonesia, Hong Kong, Taiwan, Japan, Red Sea, Philippines.
IDEAL LENS: 105 mm.



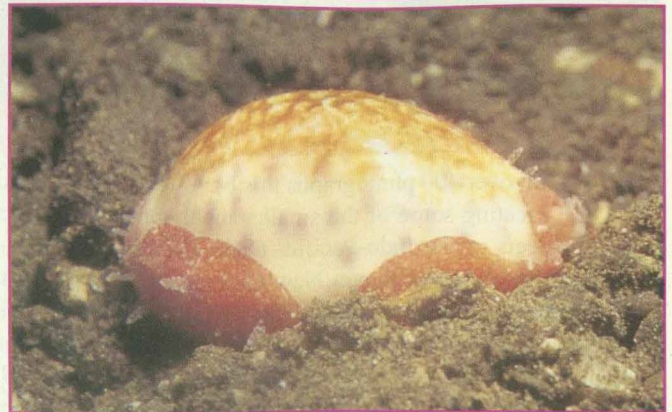
Hidden upon the waving tentacle of its black coral host, the tiny shrimp *Pontanides unciger* is easily overlooked by predators and photographers alike.
DEPTH RANGE: 5-40 m (15-125 ft).
DISTRIBUTION: PNG.
IDEAL LENS: 105 mm.



This black coral shrimp (*Pontanides* sp.) has yet to acquire a species name. It is most active when the polyps of the black coral are out feeding.
DEPTH RANGE: 5-10 m (15-35 ft), and possibly beyond.
DISTRIBUTION: PNG, Philippines, Hawaii.
IDEAL LENS: 105 mm.



These delicate, almost transparent, sea-whip gobies (*Bryaninops yongei*) 'stick' to surfaces by their pelvic fins, which are joined to form a sort of suction cup.
DEPTH RANGE: 3-40 m+ (9-125 ft+).
DISTRIBUTION: PNG.
IDEAL LENS: 105 mm.



Rob van der Loos is Australian by birth and drew on his 25 years of experience diving and operating a dive charter vessel in Papua New Guinea to produce this book. He has a wealth of experience in teaching others where to look and how to find the many fascinating creatures that inhabit the reefs of the Indo-Pacific. Rob acknowledges that it is never just one person responsible for putting a book like this together. There are dive buddies who have helped in locating creatures, typists who have helped compile the information together into the final product, and of course there are friends and family who gave him the support 'to get to the finish line'.

Living Reefs of the Indo-Pacific by Rob van der Loos, 2001, Reed New Holland ISBN 1 876334 65 7
 The cost of the book is K75.00. It can be purchased from Rob by emailing mvchertan@bigpond.com or from Loloata Island Resort.



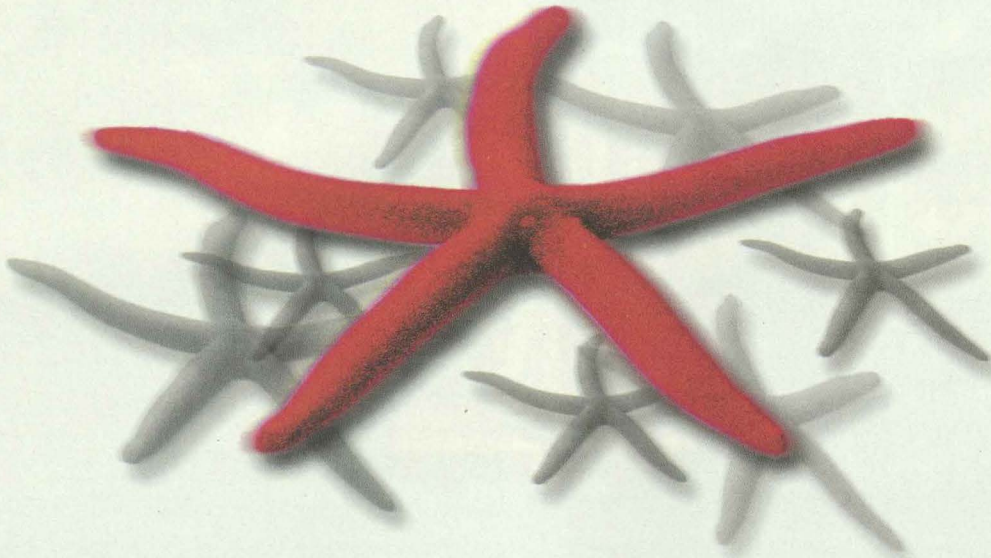
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Nako — a thriving marine business in Milne Bay

Nako Fisheries has a seafood processing factory in Alotau, and a dry dock, a ship building and boat maintenance business. What I found interesting was they employ mainly women in all their fields of business — as ship builders, engineers, seafood processors and clerks.

Ninety per cent of the filleted fish is sold in Papua New Guinea. Depending on the market, Nako shares an aircraft with DHL and exports crayfish, crabs and prawns directly to Cairns. Their tuna boats catch fresh tuna for the sashimi market in Japan.

Nako also buys fish from village fishermen. The company boat tows the canoes to a reef near the fishermen's village. As the villagers catch the reef fish, the Nako boatmen buy the catch and store it in their freezers. Up to 1000kg of fish can be caught in a night. Next morning, the women fillet the fish in hygiene conditions in the factory (*photo above*). Although the ten seafood processors who fillet the reef fish learn mainly from each other, some have studied in Hawaii, New Zealand and Australia to gain certificates in food handling and hygiene.

A large catering company with many contracts at mine sites and other large institutions has chosen to purchase all its seafood from Nako. Although this is not necessarily cheaper than purchasing from overseas, it helps the national economy. The decision by the catering company to purchase locally was not however made consciously to help the national economy, but because it is happy with the quality and consistent supply of Nako's products.

Office staff

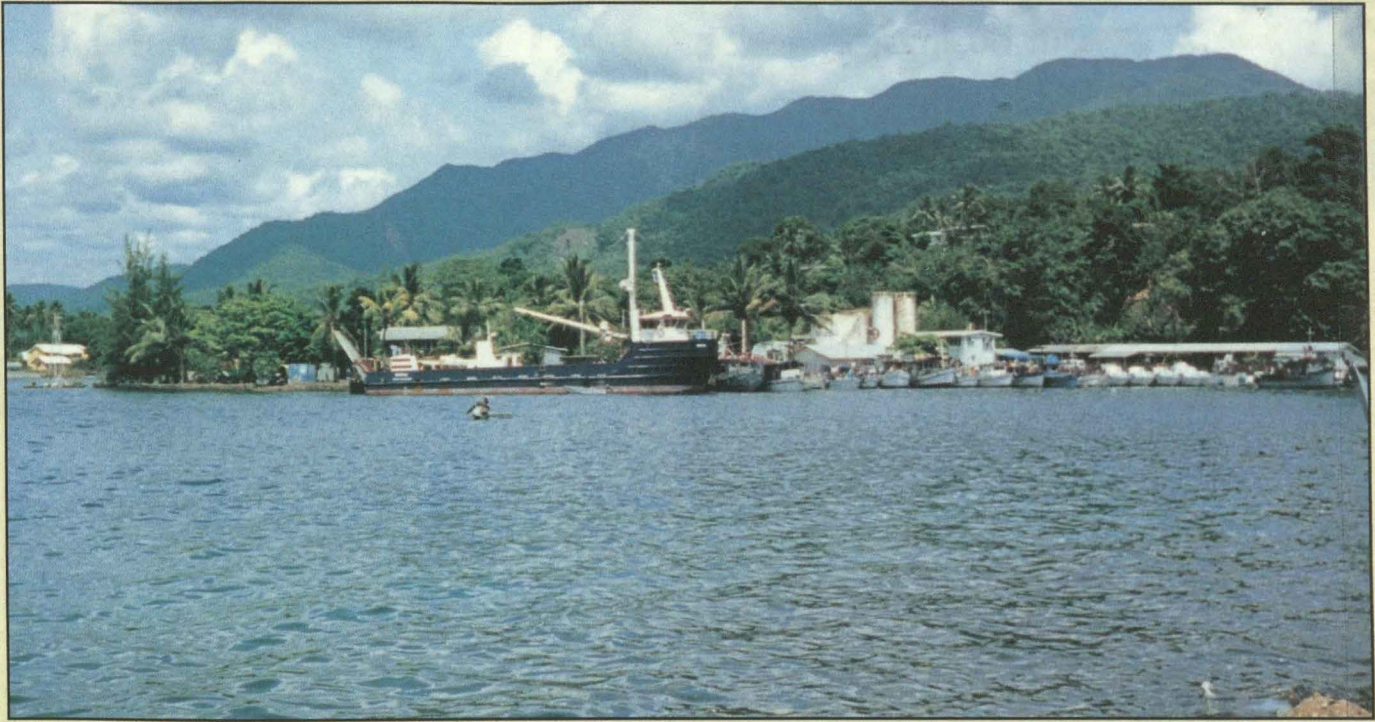




The shipwrights and engineers like their work (*photo above*). They are busy pitching the deck with tar and bitumen. The hull of the boat was built in Samarai and the two shipwrights and engineer have built the cabin and freezer. Some have studied at TAFE in Townsville. One young lady was the first female engineer to be accepted at the Maritime College in Madang.

One of the engineers chose her career because she held her father in very high regard and he was in the trade. They all enjoy their jobs and look very attractive in their overalls with their hair tied back safely. The young lady in the Spare Parts has only been working there for about a year but has no trouble finding exactly what the trades people need (*photo below*).





Six students work for the company during the Christmas holiday break. Their pay goes directly to their education.

The large airy buildings of the Nako Company sit on the shoreline adjacent to the main wharf at Alotau (photo above).

The friendly staff work and joke together under the relaxed supervision of Neil Stanton who has lived in the country since he was a child. Neil is totally approachable when staff need help with a particular project and carefully explains the necessary processes for their solution.



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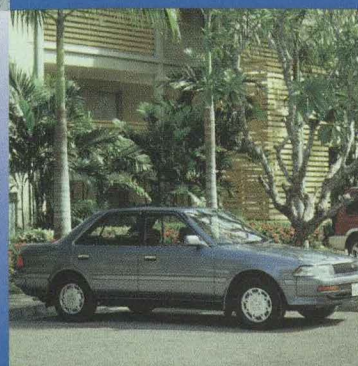
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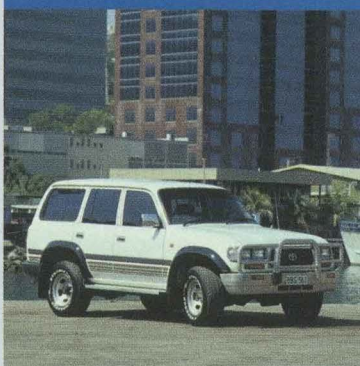
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Medical Information

Your Health In-Flight

At Air Niugini we care about your comfort and safety. We have included the following information about your health in-flight that we hope you will find helpful and useful. When you are flying you can be seated and inactive for long periods of time. The environment can be low in humidity and pressurised up to an altitude of 2240 metres above sea level. Unlike other forms of transportation, air travel allows for rapid movement across many time zones, causing a disruption to the body's "biological clock". Although these unique factors do not pose a health or safety threat to most passengers, there are guidelines you can follow that will improve your comfort level, during and after a flight. We hope the following recommendations will help you have a more pleasant flight today and in the future.

Blood Circulation/Muscle Relaxation

When you're sitting upright in a stationary position for a long period of time, several things can happen:

- The central blood vessels in your legs can be compressed, making it more difficult for the blood to get back to your heart.
- The long inactivity of your body muscles in this position can result in muscle tension, back aches or a feeling of excessive fatigue during, or even after, your flight.
- A stationary position inhibits the normal body mechanism for returning fluid to your heart, and gravity can cause the fluid to collect in your feet. This results in swollen feet after a long flight.
- Studies have concluded that prolonged immobility may be a risk factor in the formation of clots in the legs (DVT - deep vein thrombosis). Particular medication and medical conditions may increase the risk of formation of clots if associated with prolonged immobility. Medical research indicates that factors which may give you an increased risk of blood clots in the legs include:
 - increasing age above 40 years
 - pregnancy
 - former or current malignant disease
 - blood disorders leading to increased clotting tendency
 - personal or family history of DVT

- recent major surgery or injury, especially to lower limbs or abdomen
- oestrogen hormone therapy, including oral contraceptives
- immobilisation for a day or more
- dehydration
- heart failure
- trauma
- varicose veins
- obesity
- tobacco smoking

Recommendations:

- If you fall into any of these categories or you have any concern about your health and flying, Air Niugini recommends you seek medical advice before travelling.
- While inflight, move your legs and feet for three to four minutes per hour while seated and move about the cabin occasionally, if conditions allow.
- Doing light exercises as depicted in the sketches below may be effective in increasing the body's blood circulation and massaging the muscles.

Jetlag

The main cause of jetlag is travelling to different time zones without giving the body a chance to adjust to new night-day cycles. In general, the more time zones you cross during your flight, the more your biological clock is disturbed. The common symptoms are sleeplessness, tiredness, loss of appetite or appetite at odd hours.

We recommend that you:

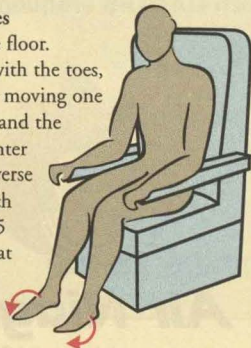
- Get a good night's rest before your flight
- Arrive at your destination a day or two early, if possible, to give your body a chance to become more acclimatised to the new time zone.
- Fly direct to minimise flight time, when possible. This allows you to relax more upon arrival.
- Leave your watch on home time if you're staying at your destination less than 48 hours. Also try to eat and sleep according to your home time.
- Change your watch to the local time if your stay is longer than 48 hours, and try to eat and sleep in accordance with the local time. On longer stays, try to prepare in advance for your destination with its different

Inflight Workout

These exercises are designed to encourage a safe way to enjoy movement and stretch certain muscle groups that can become stiff as a result of long periods sitting. They may be effective in increasing the body's blood circulation and massaging the muscles. We recommend you do these exercises for three or four minutes every hour and occasionally get out of your seat and walk down the aisles if conditions allow. Each exercise should be done with minimal disturbance to other passengers. None of the following should be performed if they cause pain or can not be done with ease.

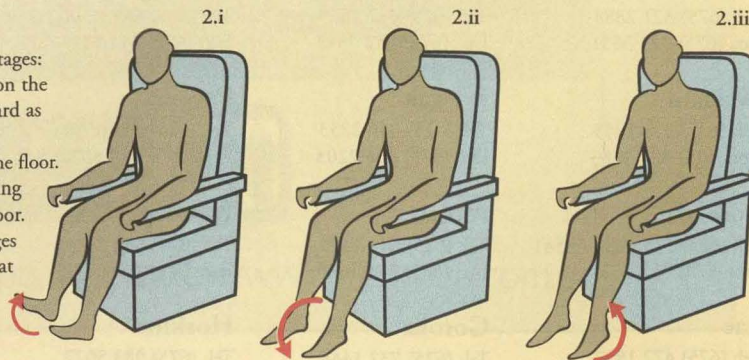
1. Ankle Circles

Lift feet off the floor. Draw a circle with the toes, simultaneously moving one foot clockwise and the other foot counter clockwise. Reverse circles. Do each direction for 15 seconds. Repeat if desired.



2. Foot Pumps

This exercise is in three stages:
 (i) Start with both heels on the floor and point feet upward as high as you can.
 (ii) Put both feet flat on the floor.
 (iii) Lift heels high, keeping balls of the feet on the floor.
 Continue these three stages with continuous motion at 30 seconds intervals.



Medical Information

time zone; adjust your meal and rest times to be closer to those of your destination.

- Try some light exercise - go for a brisk walk, or do some reading if you can't sleep after arrival at your destination. It generally takes the body's biological clock approximately one day to adjust per time zone crossed.

Cabin Humidity/Dehydration

Humidity levels of less than 25 percent are common in the cabin. This is due to the extremely low humidity levels of outside air supplied to the cabin. The low humidity can cause drying of the nose, throat, eyes and it can irritate contact lens wearers.

We recommend that you:

- Drink water or juices frequently during the flight
- Drink coffee, tea and alcohol in moderation. These drinks act as diuretics, increasing the body's dehydration.
- Remove contact lenses and wear glasses if your eyes are irritated. Use a skin moisturiser to refresh the skin.

Eating and Drinking

Proper eating and drinking will enhance your comfort both during and after your flight.

We recommend that you:

- Avoid overeating just prior to and during the flight. It is difficult to digest too much food when the body is inactive.
- Drink coffee, tea and alcohol in moderation. These drinks act as diuretics, increasing the body's dehydration.

Cabin Pressurisation

It is necessary to pressurise the outside air drawn into the cabin to a sufficient density for your comfort and health. Cabins are pressurised to a maximum cabin altitude of 2440 metres. It is the same air pressure as if you were at an elevation of 2440 metres above sea level. The cabin pressure and normal rates of change in cabin pressure during climb and descent do not pose a problem for most passengers. However, if you suffer from upper

respiratory or sinus infections, obstructive pulmonary diseases, anaemias or certain cardiovascular conditions, you could experience discomfort. Children and infants might experience some discomfort because of pressure change during climb and descent. If you are suffering from nasal congestion or allergies, use nasal sprays, decongestants and antihistamines 30 minutes prior to descent to help open up your ear and sinus passages. If you have a cold, flu or hayfever, your sinuses could be impaired. Swollen membranes in your nose could block your eustachian tubes - the tiny channels between your nasal passages and your middle ear chamber. This can cause discomfort during changes in cabin pressure, particularly during descent.

Recommendations:

- If you have a pre-existing medical condition that warrants supplemental oxygen, you can order from us. Please give at least seven days notice before travelling.
- To "clear" your ears try swallowing and/or yawning. These actions help open your eustachian tubes, equalising pressure between your middle ear chamber and your throat.
- When flying with an infant, feed or give your baby a dummy during descent. Sucking and swallowing will help infants equalise the pressure in their ears.

Motion Sickness

This ailment is caused by a conflict between the body's sense of vision and its sense of equilibrium. Air turbulence increases its likelihood because it can cause movement of the fluid in the vestibular apparatus of the inner ear. If you have good visual cues (keeping your eyes fixed on a non-moving object), motion sickness is less likely to occur.

Recommendations:

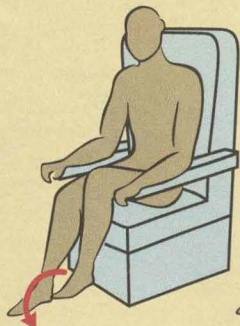
- When weather is clear and you can see the ground, sea or horizon, you are less susceptible to motion sickness.
- You can buy over the counter medications but we recommend that you consult your doctor about the appropriate medications.

With thanks to Qantas and the Boeing Corporation for allowing us to reproduce this material.

Inflight Workout

3. Knee Lifts

Lift leg with knee bent while contracting your thigh muscle. Alternate legs. Repeat 20-30 times for each leg.



4. Neck Roll

With shoulders relaxed, drop ear to shoulder and gently roll neck forward and back holding each position about five seconds. Repeat five times.



5. Knee to Chest

Bend forward slightly. Clasp hands around the left knee and hug it to your chest. Hold stretch for 15 seconds. Keeping hands around the knee, slowly let it down. Alternate legs. Repeat 10 times.



6. Forward Flex

With both feet on the floor and stomach held in, slowly bend forward and walk your hands down the front of your legs toward your ankles. Hold stretch for 15 seconds and slowly sit back up.



7. Shoulder Roll

Hunch shoulders forward, then upward, then backward, then downward, using a gentle circular motion



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Imagine a relaxing voyage around the coastline of Papua New Guinea or through untouched islands and pristine reefs. I have done it and want to go again.

'The weather is not the best at this time of the year. You'll get seasick. What will you do when the others are diving?' were the comments from my friends when I told them I was going to travel from Lae to Alotau on the live-aboard dive boat *Barbarian II* (photo above right) with Rod Pearce.

'One can never be sure of the weather at any time. Yes, I will get sick. As it is over 12 years since I dived I will only snorkel.' I answered bravely, but still not sure if I should go.

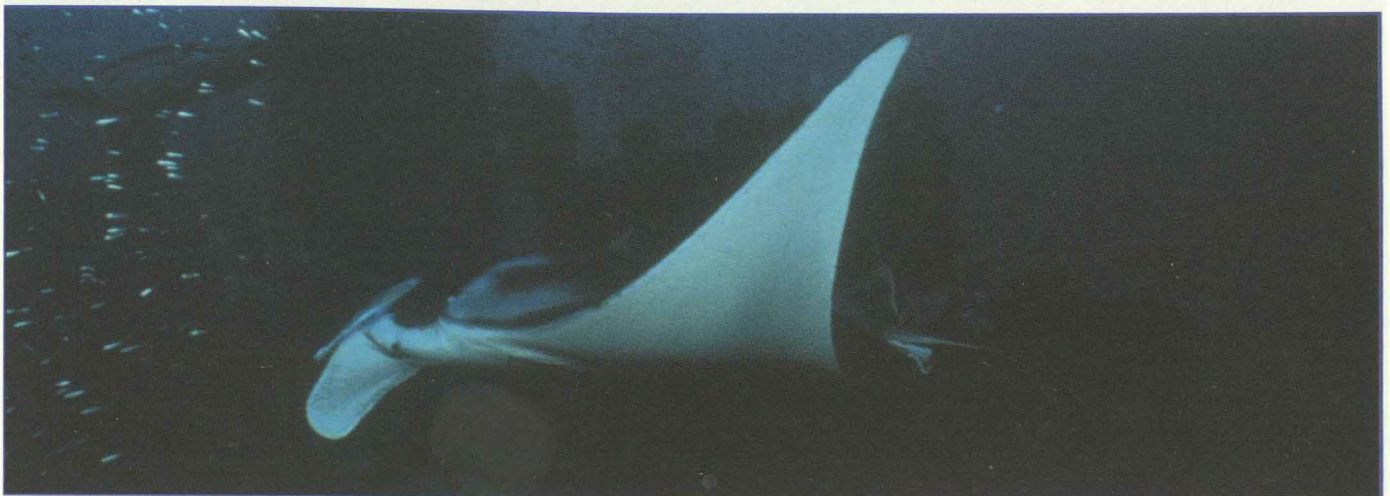
I am so glad I did. It was exciting, relaxing and I read four books. The colours of the ocean made me wish I was an artist and the stars in the heavens have never looked so close. One night, Rod showed me the constellations and astrological signs and for the first time, I could actually see the patterns. In crystal clear water, two Manta Rays swam or flew calmly past me as I snorkelled to the reef (photo below). The colours of the fish have always attracted me more than the coral and these colours were some of the most beautiful I have ever seen.

But I must start at the beginning of my 8-day adventure.

After flying from Port Moresby to Lae, I caught the new *Bas A Nova Transport* for K18 from Nadzab to the Lae Yacht Club. The staff in the air-conditioned 15-seater bus were extremely pleasant and helpful, especially to a young girl who was not sure where her relatives lived. At the Yacht Club I read my book while I waited for Rod to complete a Christmas party day charter to a nearby island. I felt sure my adventure was going to begin with a big win. The Yacht Club Joker Draw was up to K85,000. I didn't win and it jackpotted to K100,000 draw for the following Friday night.

That evening as we chugged out of the harbour, I settled into my air-conditioned cabin. Although I thought the noise of the engine would keep me awake, I was soon rocked to sleep by the motion and did not wake until the anchor chain was cranking its way to the bottom of the sea.

Melissa who has worked onboard for seven years cooked breakfast, but my stomach decided it was not the time. I spent the morning at the back of the boat with my book, feeling a little green.



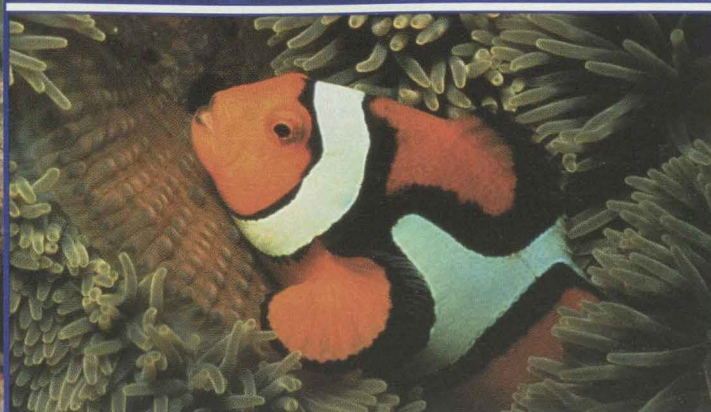
When we stopped for the first dive, Stephen, an English doctor with more than 300 dives to his credit still felt the adrenaline as he stepped into the ocean six miles from shore. Rod advised me not to snorkel as the current was quite strong.

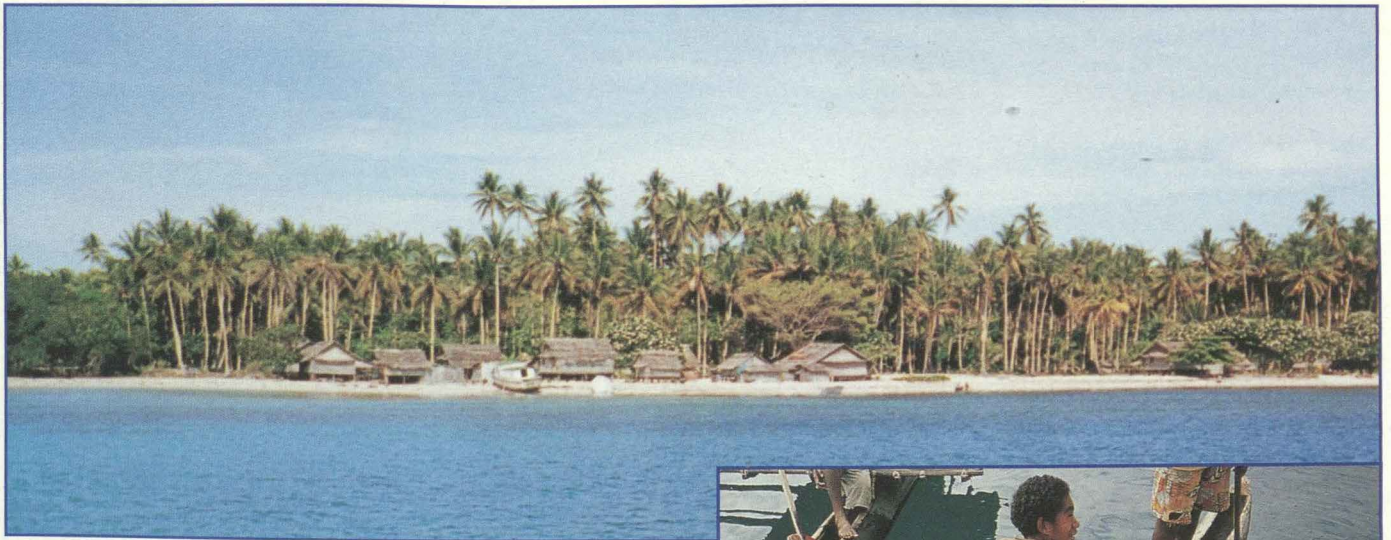
Although I had missed the dolphins in the early morning because I was still sleeping, around lunch time they returned, coming to surf at our bow (*photo on right*). They are my favourite animals and their appearance on my first day at sea made me sure I was going to enjoy this journey. A small whale was travelling with the dolphins and surfaced a couple of times to wave at me.

In the afternoon, I thought I had gained my sea legs but sunset brought a return of my seasickness and I missed dinner of fresh fish and local vegetables followed by tropical fruit. Rod assured me that next day I would be healthy. I was and from then on, even the three hours of rough seas just before Alotau did not bring back any re-occurrence of my seasickness.

Around the corner from Tufi at Tankart Reef I had my first snorkel in the calm clear water where I could clearly see the reef. Taking that initial step into the water, six miles out to sea filled my heart with fear, but once in the water, I chose to forget it and just look at the world below. A turtle, nudibranchs (*photo below left*) and many anemone fish (*photo below right*) were significant sights. The blue, purple and yellow fish still attract me. As I floated silently above them, I used them as a focus to meditate and felt the stress of a year's work drop from my shoulders.

Each time we stopped, usually twice a day, I snorkelled and I saw almost as much as the divers except for the sharks and I am glad I missed most of them. Apparently these reef sharks were from three quarters to one and half metres long. Rod told me he had an agreement with them not to eat any of his passengers. However a little bit of me did not really believe him. Every second day, Rod speared fish for our evening meals.



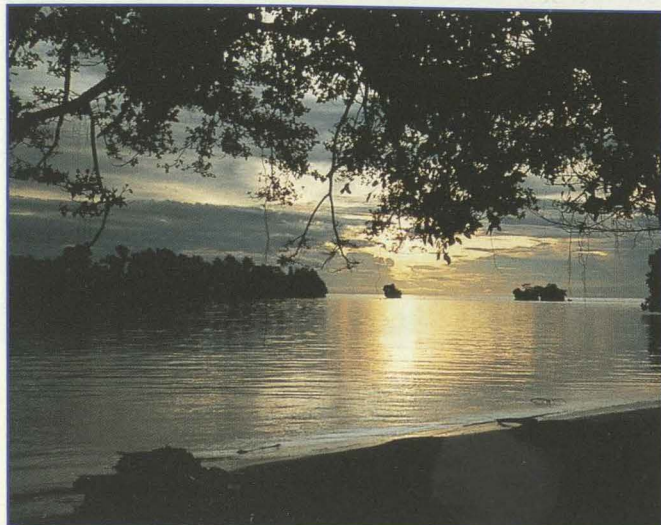


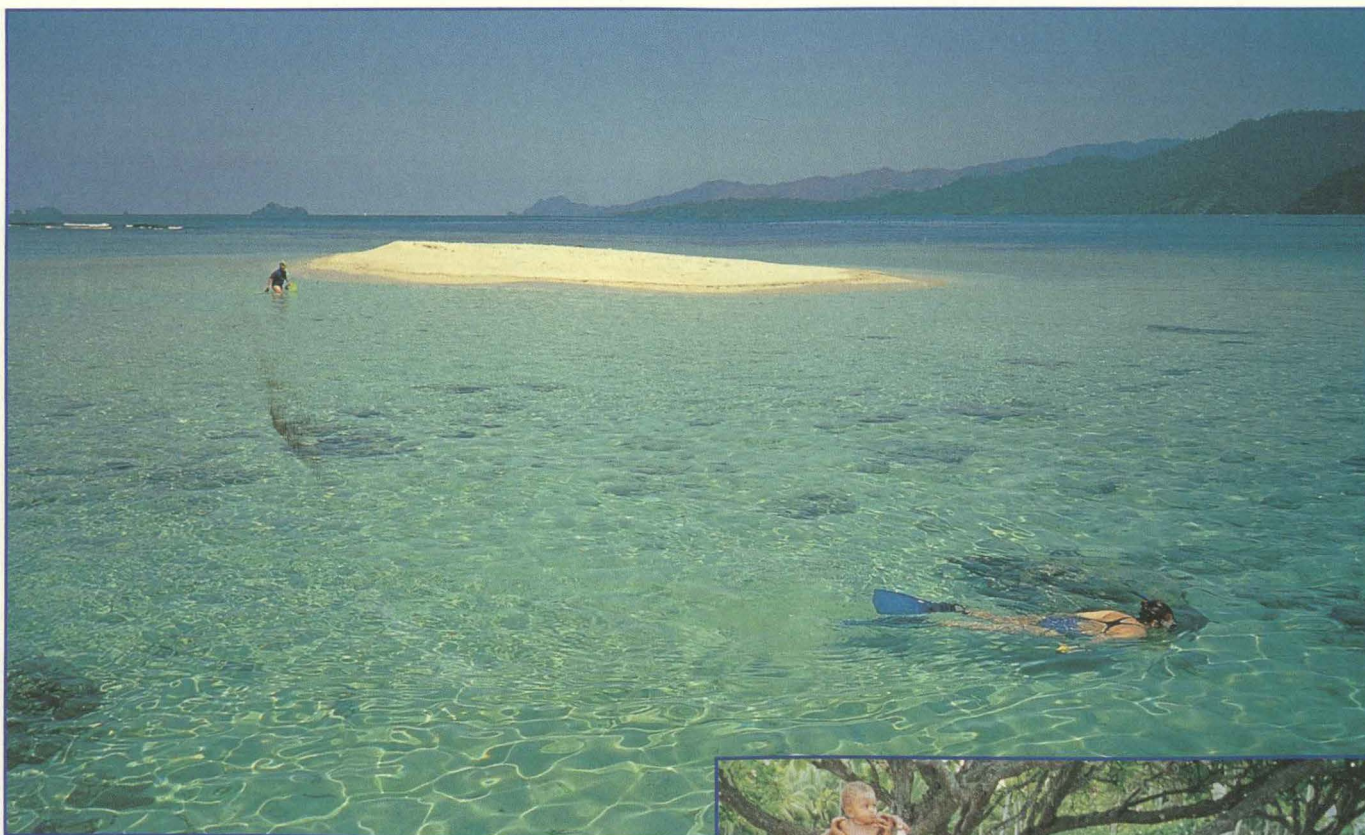
On the third day, I woke at sunrise and went up on deck to gaze into the very green, clear water at Makawa. On one side was the horizon where it looked like the ocean dropped off the edge and on the other was the palm tree lined coast. As we floated peacefully at anchor I was reminded of all those movies which depict tropical paradise. This was it.

However diving on the bomber *Black Jack* aircraft wreck was the priority for that day and we moved to Boga Boga (photo above). Villagers in outriggers quickly surrounded our boat (photo on right). They were selling fresh produce, shell jewellery and other craft. I bought a shell and shark bone necklace and a tapa cloth hat.

Rod discovered the wreck of *Black Jack* and a film documentary has been made about its history. In World War II *Black Jack* was returning from Rabaul when it ran out of fuel. The people from Boga Boga saved all the crew. Joseph and his wife Roslyn (photo on right) still remember the event.

Rod knows of 35 aircraft wrecks around the coastline where he can take his diving passengers. Other diving spots have ship wrecks — three Japanese: 5800t *Tenyo Maru* at 35m, 6143t *Yokohama Maru* at 75m, 4000t *Kotoku Maru* at 18m; two US: a liberty ship 8000t *Russel A Chittdon* at 30m, 3000t WWI destroyer *Masaya* (formerly *USS Dale DD-290*) at 50m; and the Dutch 3000t *S'Jacob* at 60m.





At 40m *Black Jack* was too deep for me to see but the men explained their dive with excitement. The reefs still made my day interesting and another visit from the dolphins made it perfect.

In the afternoon we walked through the village chatting to the people. Down the centre of the village were frangipani trees covered in flowers and their perfume wafted through the air. (Photos on right)

During his night dive, Stephen met a dugong.

My routine for each day was reading, eating and snorkelling in waters like the photo above. Just what a holiday should be. When we were near Boia Boia Waga Island I decided I had found my 'little slice of heaven'. If I had a boat; if I had the time; if I had the money; I would live here and write my novel. Swim in the morning, catch my dinner and write in the afternoon.

But next day we motored into Alotau. My adventure was over. It was time for the boat to refuel, restock and for me to say 'goodbye' to my new friends. Another charter was to begin the next morning — a group of six Japanese were returning for their third diving holiday in the Milne Bay area.

Catering for the tech diver, wreck diving, private charters, adventure diving and excellent reef diving, *Barbarian II* is an affordable live aboard charter vessel that can carry six guests in twin share air-conditioned cabins. Take the family on a special holiday, cruising the islands. Rod Pearce and his crew on *Barbarian II* will take you where you want to go and show you what you want to see. Go for a weekend or through the school holidays to fish, dive, snorkel, explore, barter or collect artefacts. Rod will help you plan your itinerary starting from the desired point of departure with suggestions for the best route for the passengers' comfort.




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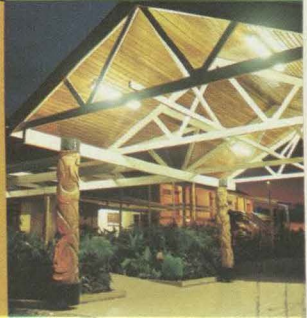


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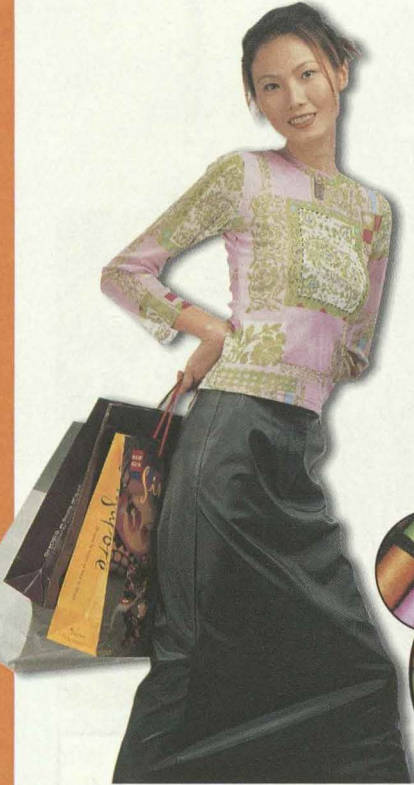
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- CHINA TOWN** In this crowded colourful network of streets & alleyways, Chinese merchants trade traditional delicacies such as sea cucumber.
- ARAB STREET** The real glory is the textiles, but you can haggle to your hearts content and come away with delight bargains.
- LITTLE INDIA** From handicrafts & Kashmir silk to peacock feathers and flower garlands, Serangoon Rd is where the locals shop.
- ORCHARD ROAD** Contemporary shopping complexes captivate visitors for hours with their dazzling international selections, comparable to Fifth Ave & Champs-Elysees.



SHOPPING TIPS

Be firm but polite when haggling on price

Check that guarantees on electrical equipment covers your country

Keep your fluids up! Drink plenty of bottled water

Shop around for the best exchange rate

Always try shoes before you but and don't forget clean socks

Remember that you will be charged for excess baggage on your return

FOOD GLORIOUS FOOD

Singapore is famous for fabulous food. Visitors with a stomach for it can eat all day, enjoying meals from top class hotels or even from street hawkers.

In the restaurants you are able to have anything from sushi to sauerkraut. But the best place to savour Singapore's flavours is in the hawkers markets. Singapore street food is safe, delicious and cheap.



WHAT TO DO WHEN YOU GET THERE



Singapore is full of alternatives to shopping. It is a destination that can not wait to be discovered. Nature Parks, off-shore islands, landmarks, museums, theme parks are some of the many places to visit and explore.

Singapore Zoological Gardens is always a top tourist attraction. It is an open concept zoo which is home to more than 2000 animals. Next to the zoo is the **Night Safari**, built to view animals at night.

Sentosa Island offers a variety of water sports for sun and sea lovers. Along with many other attractions like **Underwater World**, an exciting way to get a fish eye view of the world.

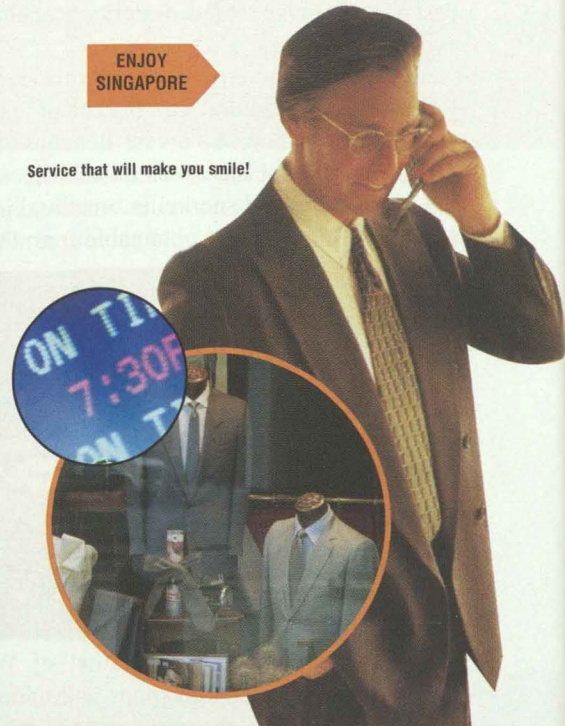
Singapore has amazing temples, and festivals all year round. It truly is the city of entertainment.

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DESTINATION — Singapore's Jurong BirdPark

Story and photographs by Matthew Brady

The trip to Jurong BirdPark promised to be an interesting one. Outside our hotel, just west of the famous Scotts Road-Orchard Road intersection, we found our first MRT station. Mass Rapid Transport, Singapore's clean, fast and well-organised complex of tunnels and above-ground railways, was the easiest means of travel we had encountered anywhere — New York's subways or London's Underground came second in our opinion. First there was the ticketing — a single pre-paid ticket was all we needed for both bus and rail networks all over the island. At the door we selected our destination in a card reader and the ticket was swiped. The cost of the trip was automatically deducted from the card. At the beginning of our holiday we had purchased an AUD8.00 ticket each. At the end of our holiday, after four days travelling all over the island by MRT and bus, our tickets showed we each had \$1.80 remaining. Not bad, considering the places we had been and the sights we had seen!

We had first visited the BirdPark in 1977, not long after it was opened, and remembered it as somewhat small, but with great potential. Now we were hoping that potential had been realised. So, catching MRT to Boon Lay station, then transferring at the Boon Lay Bus Exchange to a 251 bus for the Jurong park, we watched with interest the passing scenery.

Singapore must be one of the cleanest cities/nations in the world. 'Cared about, and cared for' is how my wife described it — no graffiti, no rubbish, polite people, a tropical climate promoting a lush environment. Rich greens contrast with the deep orange soil exposed here and there. Everywhere we passed by, caretakers — many of them of the older generation — were tidying and sweeping the streets and public places. Orchids and creepers were aplenty.

Jurong BirdPark now houses one of the best displays of birds to be seen anywhere in the world. Hundreds of species can be found in this artificial, but natural habitat built to showcase the beauty of birds. Not only do the formal display areas hold birds, but the surrounding gardens attract Singapore's bird species too.

At the entrance a display of newly acquired species welcomed us. These were Secretary Birds from the plains of Africa (*photo below*). Named for the plumes held out from the back and sides of the head, somewhat like the old quill pens of a Dickensian secretary, these stood quietly in their enclosure, forever preening and cleaning their feathers to keep them in place.



Nearby, the first major display contained scores of Macaws, the brilliant reds, blues, greens and yellows separating out the different species (*photos below*). Mixed in with these were a few familiar sights — the Palm Cockatoo common in Papua New Guinea and Cape York, a Corella from southern Australia.



The Park houses many speciality exhibits. There is a World of Darkness, showcasing night-birds from around the world. Eagle Owls from Europe and North America perch next to those from Malaysia. Australia's Tawny Frogmouth and the cosmopolitan Barn Owl are housed next to New Zealand's rare Kiwi. There is a series of aviaries displaying birds from the different zoo-geographical regions of the world. Papua New Guinea's Birds of Paradise, its three species of Crowned Pigeons and the gorgeous black form of Stella's Lory can be seen in the South-east Asian cages.

And adding to the caged birds, a series of show-times are held throughout the day (weather permitting). Fuji sponsors the World of Hawks Show with falcons, kites and eagles demonstrating their mastery of the skies in the ancient art of falconry.



There is the All Star Bird Show, held in a lush amphitheatre seating hundreds of visitors. After an introduction when flocks of pure white pigeons signal the start of the show, a variety of species perform tricks to amaze the spectators. A fruit-eating Toucan from South America plays ball with its trainer; Lancer the Brahminy Kite sights food from its perch 500m away and swoops to its handler.

But it was the walk-in aviary that attracted us the most. The decision was made — to take the

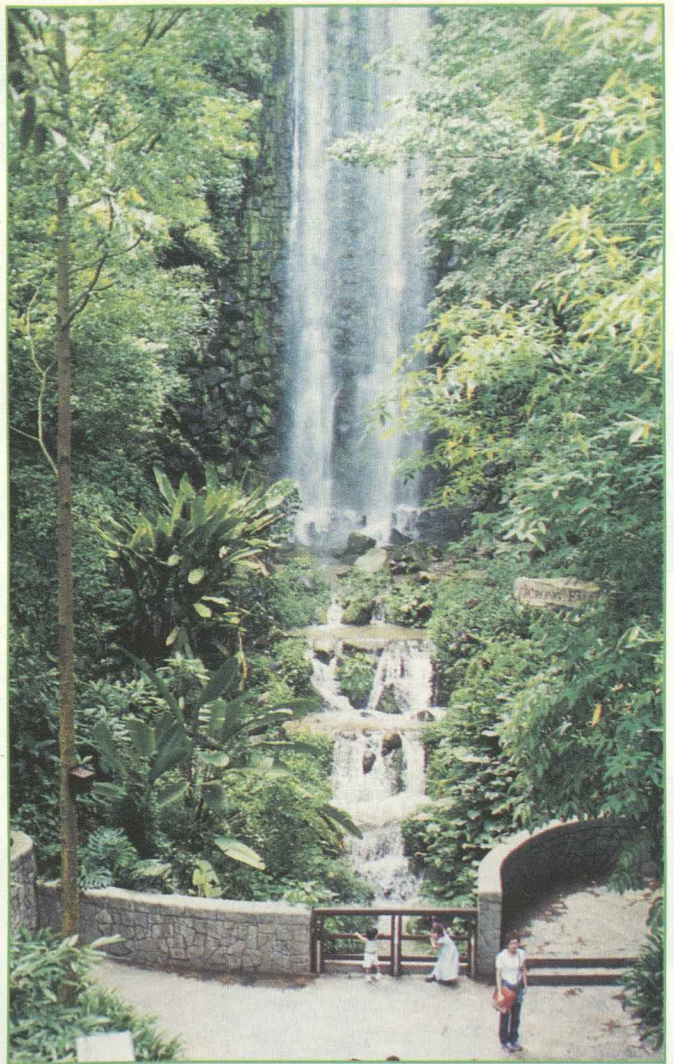
monorail/panorail ride around the BirdPark to get a general understanding of the attractions, then move on to the walk-in aviary to experience birds close up.

The monorail trip took about thirty minutes, winding through the Park above the Lakes. Here Sacred Ibis breed. Flamingos flock around their mud mounds (*photo on right*). Familiar Black Swans and Australian Pelicans join their relatives from other countries. We glided over the New Guinea cages, sadly missing out on seeing them later because of lack of time. And the views were superb — panorail is an apt



name, chosen for the wide panoramic windows that gave an excellent uninterrupted view of everything we passed over. As we gazed at the sights below the driver gave a running description of what we looked at. There are four trains, leaving at 2.5 minute intervals, for 'the most curving and undulating monorail track in the world'.

Finally, here was the Waterfall Station, within the walk-in aviary. This is over 2.5 hectares, making it the world's largest bird enclosure. It houses the world's tallest man-made waterfall cascading vertically in a curtain of water over 30m high (*photo at top of page*). The base pool is the start of a stream that winds through the aviary, providing a habitat for water birds, which really don't know that they are in captivity.



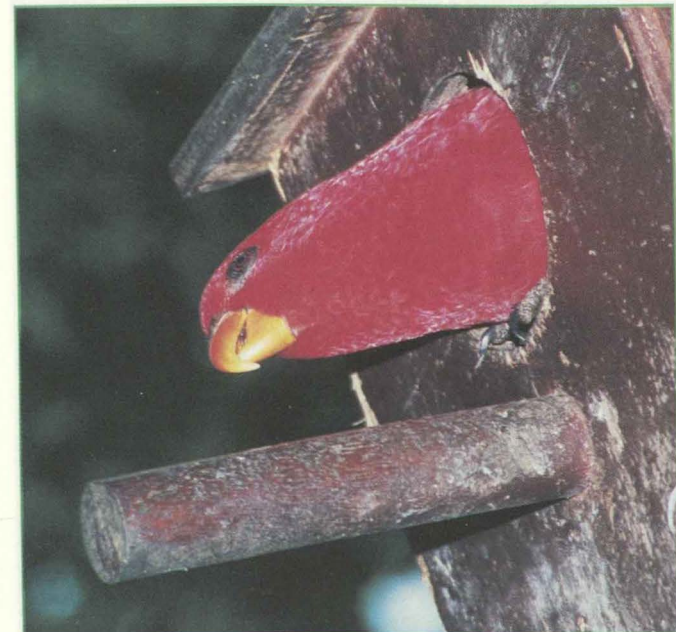
Here an Azure Kingfisher darts at a fish, like its counterpart in Morobe Province; there, a flock of White-faced Tree Ducks, from Africa, provide a merry sight as they fritter about in their chosen pool (*photo below*).




But best of all are the birds usually only seen in bird books. Turacos (*photos on right*), brilliant and with an astonishing assemblage of colour are jungle birds from the Congo and West Africa. Relatives of the cuckoos, these are difficult to see in the wild. Here, with the provision of feeding stations, these shy birds are in plain view; they are joined by a mixture of forest species, like the Superb Starling (*photo below*) all competing for the pawpaws, nuts and meal laid out in a shallow dish.



But the bird displays mask a serious side to Jurong BirdPark. Throughout the years since its inception it has emphasised the need to breed endangered species. Research continues indefinitely into the breeding requirements of species that may be disappearing in the wild. In 1972, shortly after it started Jurong bred nine species including Papua New Guinea's Crested Pigeon *Goura cristata* and the beautiful Red Lory *Eos bornea* (*photo below*). Since then hundreds of rare species have been bred. In 1999 these included Papua New Guinea's Brown Lory *Chalcopsitta duivenbodi* and the White-capped Parrot *Pionus seniloides* from Ecuador. These successes bode well for the outlook of birds, for excess stock is exchanged with other bird parks and zoos world-wide to ensure a gene pool survives into the future.



The BirdPark is open every weekday from 9:00am to 6:00pm, and an hour earlier on Sundays and Public Holidays. Special Show-times are held once or twice a day so it is wise to check first. Enjoy 'Singapore's Fabulous BirdPark'. 

Matthew Brady is a travel writer and freelance journalist based in Brisbane.

Reviving Pottery in Tumleo

Story and photographs by Cyril Gare



John Willie-Batt Jr 9 years and brother Cedric 10 (*photo above*) had their hands clasped tightly. Their eyes were catching occasional glimpses of the green coconut fronds above swaying gently amidst an air of excitement about events that will unfold in the next few minutes. Their peer group had now joined them forming a perfect circle of bright-eyed children waiting to welcome Uncle John, but only at the command of Chief and dance leader, Bubu Willie.

It was 2:30pm on 15 November 2001. A convoy of government vehicles had just pulled up in front of a beautifully decorated entrance leading into Nygam, a little village situated behind Aitape hill. This small Tumleo community had been up since 5am preparing for this special day. Their smiles, giggles and the sweet scent of flowers added to their goodwill in welcoming their political leader, Hon John Talu Tekwie, Sandaun Regional MP, to officiate at the launching of the Tumleo Nygam Women's Pottery Project — a project he initially funded at a cost of K5,000.

The momentary breaking of waves ahead distracted me as I was reminded of the devastation and scourges of the tragic tsunami strike of July 1998 when over 2,000 lives were taken. The very place where the official events were to take place today was completely destroyed. I had travelled extensively through here, Malol, Arop, Warapu and Sissano along the Aitape west coast as a reporter for *The National* newspaper during the first eleven days after the disaster. It was wonderful to see that people had picked up the pieces and were living happily again.

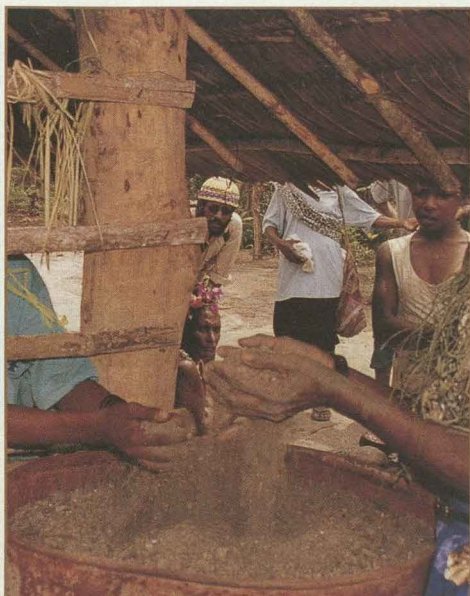
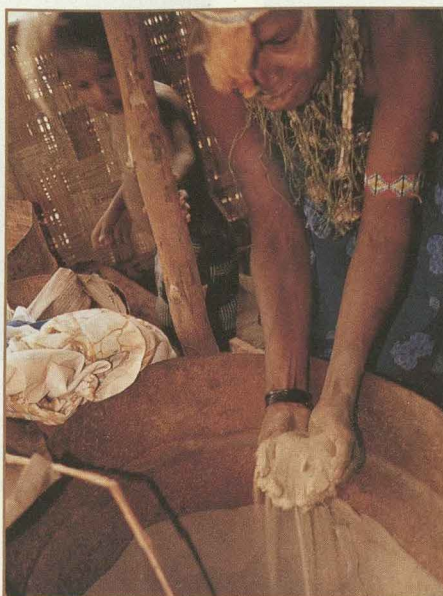
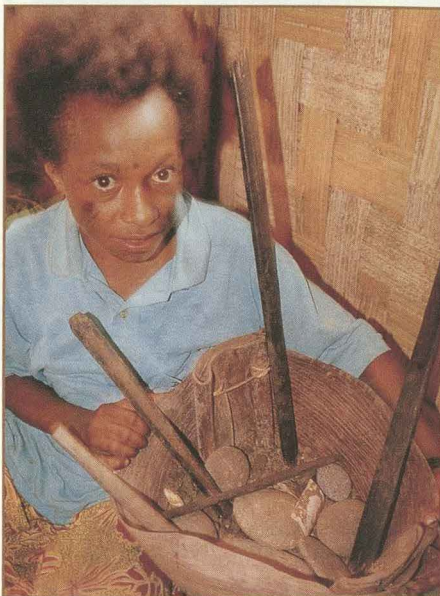
The loud commanding voice of Bubu Willie brought me back to present, thus signalling start of the dance. Willie Jr and Cedric were already in action, leading the children in a special circle jump-dance. The flower girls, ushering the visiting delegation, followed suit through the well-pruned flowering street of Nygam to the ceremonial place.

The aim of the occasion was to celebrate the restoring and reviving of the art of pottery among the womenfolk of Tumleo. This art has survived time and generations yet is fast dwindling and dying out in Papua New Guinea today.

Below left: Sarah Willie-Batt showing the paddle and anvil tools — Beater (stick) 'anaarakun' and round stone 'ai tatur'

Below middle: Johanna Willie-Batt displaying samples of 'peitj noitj' — dark brown soil

Below right: 'Peitj rarum' — dirt



Tumleo, once known as Tamara, is a small island about 2km long and 1km wide off the mainland of Aitape. It is part of the same limestone volcanic sequence as the mainland and lies in a group of other small coral islands — Ali, Seleo and Angel. All four islands are peopled by Austronesian speakers, but the Tumleo people belong to a different sub group of the language and are the only pot makers. There are only nine surviving old women who possess the knowledge of pot making today. Thus the urgent need to train new ones.

‘Our gathering here today witnesses the official opening of the Tumleo Nygam Women’s Pottery Project and the formal graduation of our first group of 120 young women who have undertaken training of pot making under this programme’. Mr Tekwie said in his address.

Tumleo pottery was first described in 1900 and 1902 by two German ethnographers, Parkinson and Father Joseph Erdweg, the first missionary to settle on Tumleo island.

Like the famous Hiri Trade of the Papuan coast, Tumleo pots were necessary for barter trading with the mainland to ensure sufficient food to last for the period of the northwest winds *Talio* (November-May) when it is unsafe to travel by canoe. The population was so dependent on the pottery that men only wanted to marry women who could make pots. All clans on Tumleo island including Sepij, Ainamul, Alii, and Anup’pius are master potters.

Tumleo people still exchange pots and sweet potatoes for fish and tobacco. Much of the exchange is now done at Aitape market. The coastal villages of Yakamul, Ulau and Suain traditionally exchange sago for Tumleo pots as well as thin finely carved coiled pots from the inland Kombio area. Further east, the people of Urip and Dagua use many Tumleo pots that have been traded for tobacco, yams and baskets.

They favoured sago stirring pots over other pots. Tumleo pots are sometimes taken by boat to Wewak market and as far as Sissano in the west. Ali islanders, who are especially good boatmen, act as middlemen in the distribution of Tumleo pots which are found inland at Aitape, Siaute, Wom, and Salongo. Traditionally, Tumleo pots found their way well up the Torricelli Mountains in exchange for food and pigs’ teeth. Tumleo pots also reached as far as Madang.

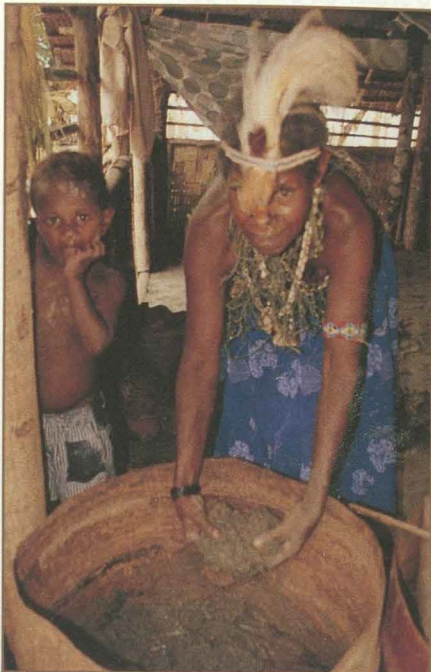
Initiator of the project Mr John Willie-Batt further elaborated. ‘Our pots were precious and highly regarded by our ancestors. They have great value. They were money, which could buy many things, solve many problems and bring peace. Our people used pots for barter trading in exchange for food, bows and arrows, trees for canoes and many other things for our survival. Pots were also used to pay bride price, pay compensation in tribal fights, and were a measure of one’s wealth.’

There are two pot making techniques in Papua New Guinea — the paddle and anvil, and coiling. Tumleo pots are made using the paddle and anvil technique. Paddle and anvil has become an accepted term to describe the technique by which a pot is shaped and thinned by impact of a beater on the outside wall against a hard object held on the inside. An anvil always involves the use of a smooth stone. The coiling method refers to the technique of building the walls of the vessel with long rolls of clay, which can be spiral coiling or ring building.

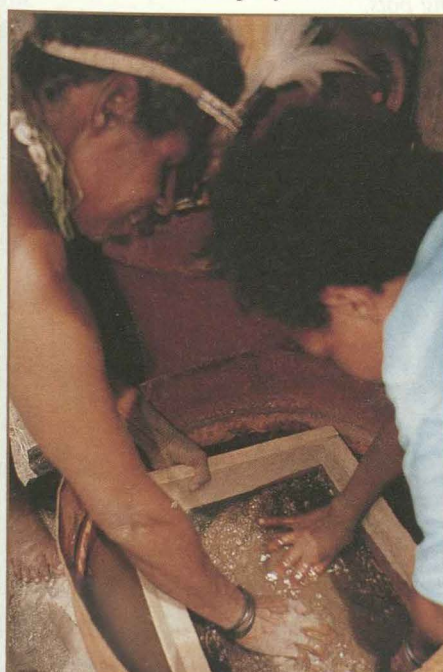
Tumleo pots are named according to their functions: cooking pots, sago stirring pots, sago storage jars, food storage vessels, sago frying pans, pot support dishes, lids and babies’ wash pots.

‘Pier’ or ‘pier ahin’ (ahin means lip) is one of the two types of cooking pots. It is used for cooking vegetables and meat and for boiling water for hot-water sago.

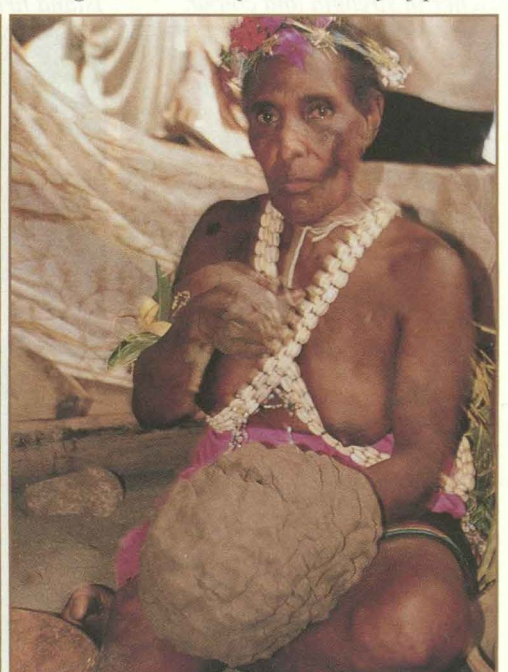
Below: A wet mixture of yellow and brown soil forming the clay suitable for pot making



Below: Johanna and Sarah sieve ‘peitj noitj’ under water before drying it in the sun, then mix it with ‘peitj rarum’.



Below: Using her left hand inside, Ludwina Sawoi balances the clay as she thumps it with her right knuckles to form the body of pot.



'Takum' is the second type, has similar uses to 'pier' but is smaller.

'Sal' is the sago stirring vessel. Sago flour is stirred to a paste in this pot and then boiling water is ladled into it from the 'pier'. The mixture is stirred until it thickens and become translucent.

'Suyan', the sago storage jar is usually very large about 60 cm high.

'Pie atjek vol' is a spherical food storage pot, comes in various sizes and has 3-4 handles.

'Tapel' is the sago frying pan.

'Karap' is a pot support dish and also comes in various sizes.

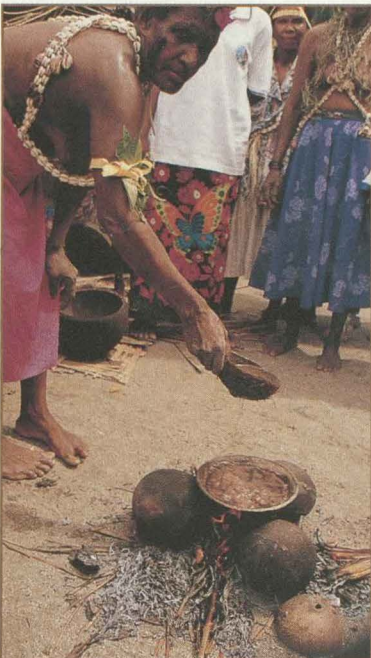
'Tape tjup' or 'karap tjup' is a lid used on cooking pots of storage jars.

'Su lapij puak' is a baby wash pot used to hold water for ritual washing of a new-born baby. It is given to pregnant girls before birth of child. It is sometimes used to hold prepared food for the destitute and the old.

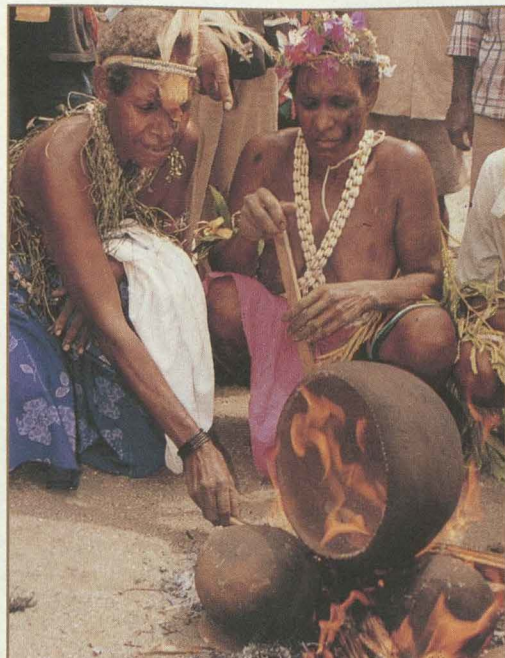
Tumleo Island is mainly formed from volcanic agglomerates and limestone. It is flat with only two hills on the northwestern end where most of the potter's raw materials are found. There are three soil materials considered essential for Tumleo clay — 'Peitj noitj', a dark brown clay, 'peitj rarun', a light yellowish brownish grey clay only found on the island, and 'peitj paret', a red soil collected from the mainland. Addition of the fourth material 'peitj rien' (sand) is optional and only used sparingly because excess could cause breaking.

Pottery authors, Patricia May and Margaret Tuckson once described the clay preparation method of Tumleo as 'a far more elaborate process than anywhere else in Papua New Guinea and even includes the use of a specially made cane sieve unique in the country'.

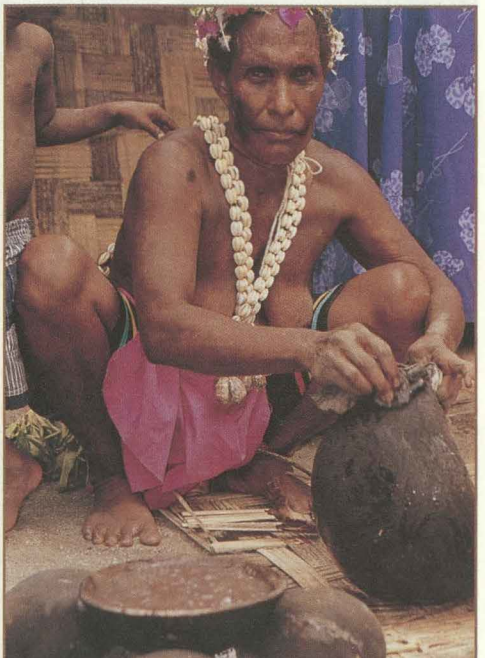
Below: Ludwina adding water to the stirred sago in pan on the fire. This will be used as a sealer on a burnt pot to make it shiny and richer in strength and colour.



Below: Johanna Willie Batt and Ludwina Sawoi, two of the only nine surviving women potters in Tumleo Island firing pots.



Below: Ludwina applying wet stirred sago sealer on a burnt pot.



Pot manufacturing processes are carried out in cycles. Enough clay is collected and prepared over a period of weeks before pot making begins. First, the potter spreads the brown and red clays out to dry separately on the old canoe boards. Later they mix the two together in a ratio of roughly one to five. The mixture is then put into a sieve, 'wo'upin' and agitated under water in a 20-litre drum. Seawater was used but potters now use fresh water and claim it makes stronger pots. The 'peitj rarun' is sun dried, pounded with a large stone on a board and when dry, sieved into a separate container, usually an old pot. The residue from the first sieving is re-pounded and sieved into the pot.

Approximately one week before it is needed some of the now brownish grey sandy slip is taken from the drum and poured into the large old clay pot to become firmer. The porous pot soaks up excess water. When ready, the dry 'peitj rarun' is first sprinkled in a layer approximately 2cm deep on a wooden board; 10cm or so thickness of the still sloshy clay mixture is spread on it and more of the dry material is sprinkled on top of that. The mixture is kneaded with the fingers until it is felt to be the right consistency, though still very soft. If the fourth material is to be used, it is added dry with 'peitj rarun'. Finally, the mixture is divided into lumps of approximately 3kg, which are individually kneaded and thumped on the board and patted into elongated balls.

For a small pot, one lump of prepared clay will be used and two to four lumps may be used for bigger pots. The potter sits on the ground with the left leg bent and left foot tucked under the right knee to form a cradle for the pot which is gently beaten with the knuckles of the right hand against the supporting left hand inside. When the walls are about 4-5cm thick and the rough shape about 20-25cm high, it is placed upright in the support dish which acts as a turntable while the pot is pinched and smoothed with the fingers.

The potter now beats the sides of the pot above the rim of the support dish using the stone 'ai tatan', and the beater 'anaa rakun', moistening both by dipping the beater into fresh water and trickling the water on to the stone. At this stage, the support dish is balanced at a slight angle between the sole of the left foot and the inside of the right knee. The dish's round bottom facilitates easy swivelling of the pot as each section at 'three o'clock' position is completed. When the top half of the sides has been evened to approximately 2-3cm, the rim is either tapped to flatten it or trimmed by cutting with a strip of coconut fiber or wire and then tapped.

At this stage the general shape of the pot, and thus its eventual function, is established. Several pots are made at one sitting, with eight to ten minutes spent on each one. They are then left to firm under the house for half a day or overnight.

In the second stage, the pot is taken out of the support dish and the base is rounded, thinned and smoothed a little by beating it. It is now returned to its support in the same upright position, the walls are beaten to a thickness of about 1-2cm and the final shape is started. A rough lip is formed or the rim enlarged for a 'sal' or narrowed for a 'takum'. The pot is set aside to stiffen again and often while it is drying large cracks appear in the base.

After several hours the pot is gently beaten until all cracks disappear and it is rounded. The potter must choose carefully the ideal time to do this — the rim must be dry enough to hold its shape while the base must be soft enough for the cracks to be closed over. By now the spherical shape has often been enlarged to the extent it no longer fits in its original support dish and if this is the case it is placed in a larger one. At this stage, beating, trimming and decorating the sides and rim are completed.

The third stage includes adding of handles and coils. Water is now rubbed gently over the upper exposed areas and the pots are left to become leather-hard.

In the final stage, the pot is removed from the dish and the base gently beaten to smooth and check cracks. It is important that the top half is very firm before finishing off the base or the pot rim will crack from pressure. The potter must take care to arrange her legs so that the maximum amount of rim is given support; the pot is almost inverted in her lap with her left arm bent up inside.

This process is particularly difficult when making the pots with handles. After a quick wipe with water the pot is left for a few days upside down under the house. When it seems dry it is often taken into the house to sit on its side or base until it is completely dry and the pot is ready for firing. The potters carry their pots down to the beach or to a clearing in the village for firing. Most potters pre-heat their pots, especially the larger ones. But first a kind of ritual is carried out which is considered most important by potters. Each pot is rubbed carefully all over with the hands either before or after preheating. The women believe this practice prevents breakage.

Pre-heating is achieved by placing the pots close together on their sides in the sand and putting a bunch of dry burning coconut palms in their mouths. The pots are turned regularly to ensure even heating. When they are too hot to hold easily they are ready. They are set in about three rows, facing outwards with openings upwards. An average of 20 pots are fired at one time. Coconut fronds are spread on the sand, one in between each two pots and radiating outwards. After 15 minutes when the fire has died down, the pots are manoeuvred onto their other sides with the aid of long flexible sticks. More fuel is piled over them and they are left for another ten minutes or so. The potter now checks for pots with much black marking and turns these over into hot spots. They are lifted off onto the sand and left to cool. The final product is now ready.

How long do the low-fired pots last?

They are fragile and easily broken if knocked or dropped but people, even children are accustomed to handling them with care, so they can be in use for many years. Some people believe cooking pots should be replaced after 3-4 years because food tastes better in new pots. Old pots are used for soaking clay.

Over the centuries the potters of Tumleo have come to know their raw materials and evolve their techniques. Through trial and error, intuition and common sense and with no help from advanced technology they have produced wares well suited to their desired purposes. The Tumleo Nygam Women's Pottery project represents the beginning of a new era of 'sospen giraun' (pottery) evolution and reformation. The efforts of the women and of Mr Tekwie are commendable, but as he said at the ceremony, 'It is only a beginning ... there's a lot more to be done'.

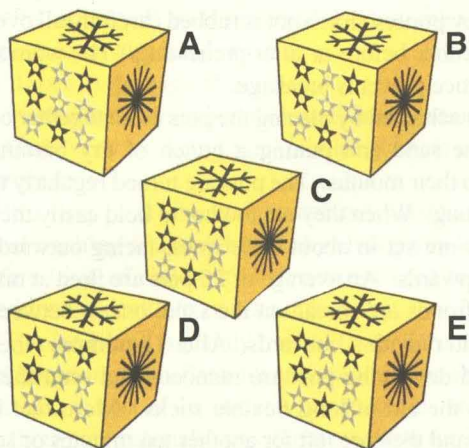


Puzzles

Answers on page 60

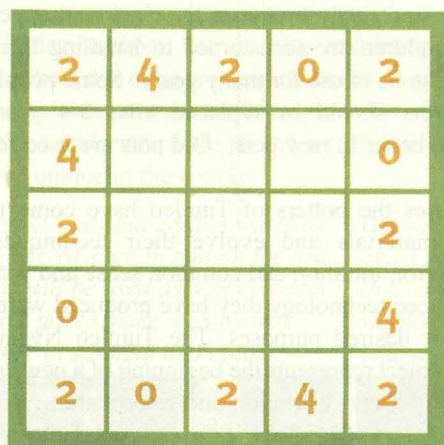
ODD ONE OUT

Which cube does not belong with the other four?



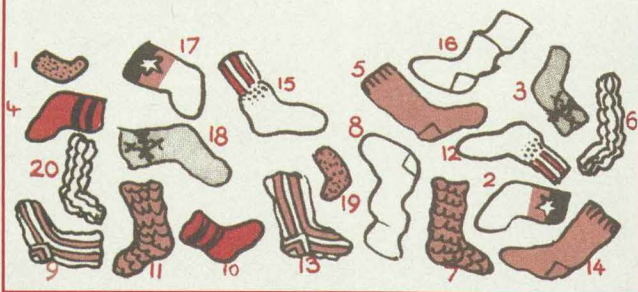
ADD IT UP

Using one number only fill in the empty boxes so that each line, including the diagonals, adds up to 10.



WASHED SOCKS

Sort these socks into pairs.



FAN

Place the 5-letter answers to the clues into the fan to discover an 8-letter word reading across the shaded area. As an added help, pairs of answers are anagrams. (1 is an anagram of 2, 3 is an anagram of 4 etc.)

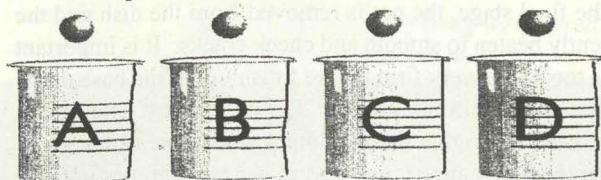
CROSSWORD

The black squares have been removed from this crossword and letters inserted in their place. Black out the surplus letters to reveal a solution which is symmetrical.

A	M	I	D	C	S	P	I	R	I	T	E	D
T	I	D	E	A	L	A	S	I	P	A	N	I
O	N	E	C	R	O	C	O	D	I	L	E	S
P	O	S	E	D	T	E	R	E	P	O	R	T
I	R	D	I	C	E	D	A	S	I	N	G	E
C	L	O	V	E	A	R	S	A	N	S	Y	N
O	F	F	E	R	S	A	E	X	T	E	N	D
N	E	A	R	S	E	T	R	E	E	P	U	S
C	R	O	S	S	O	B	O	U	R	I	S	M
E	N	N	O	T	H	I	N	G	E	P	E	E
P	A	S	S	E	N	G	E	R	S	P	A	T
T	H	E	M	E	R	O	S	E	T	I	M	E
S	A	T	U	R	A	T	E	E	S	N	S	D

BALLBEARINGS

A ballbearing is to be dropped into each of these tins. In which experiment will the ball travel the slowest?



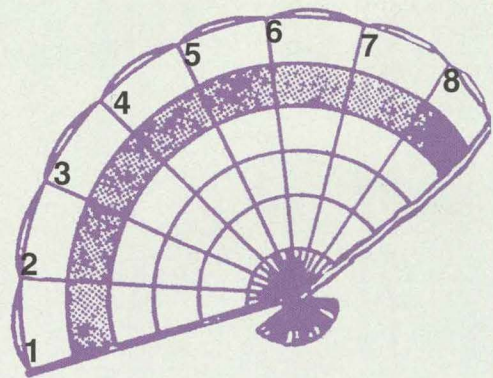
A
WATER
at
20°F

B
MILK
at
40°F

C
OIL
at
60°F

D
TAR
at
80°F

- False gods
- Not hollow
- Minaret
- Inscribed
- Unsuitable
- Dossiers
- Goes by plane



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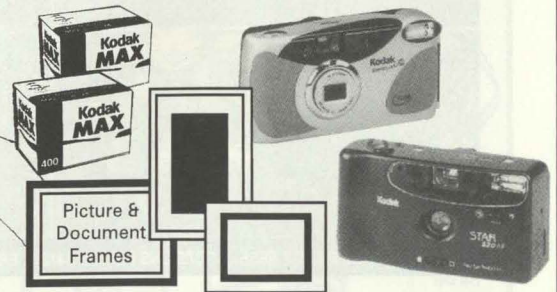
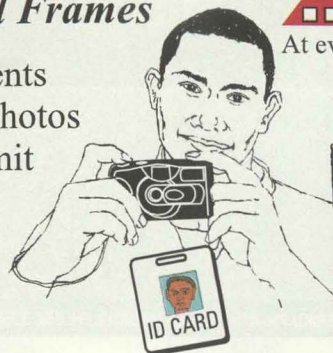
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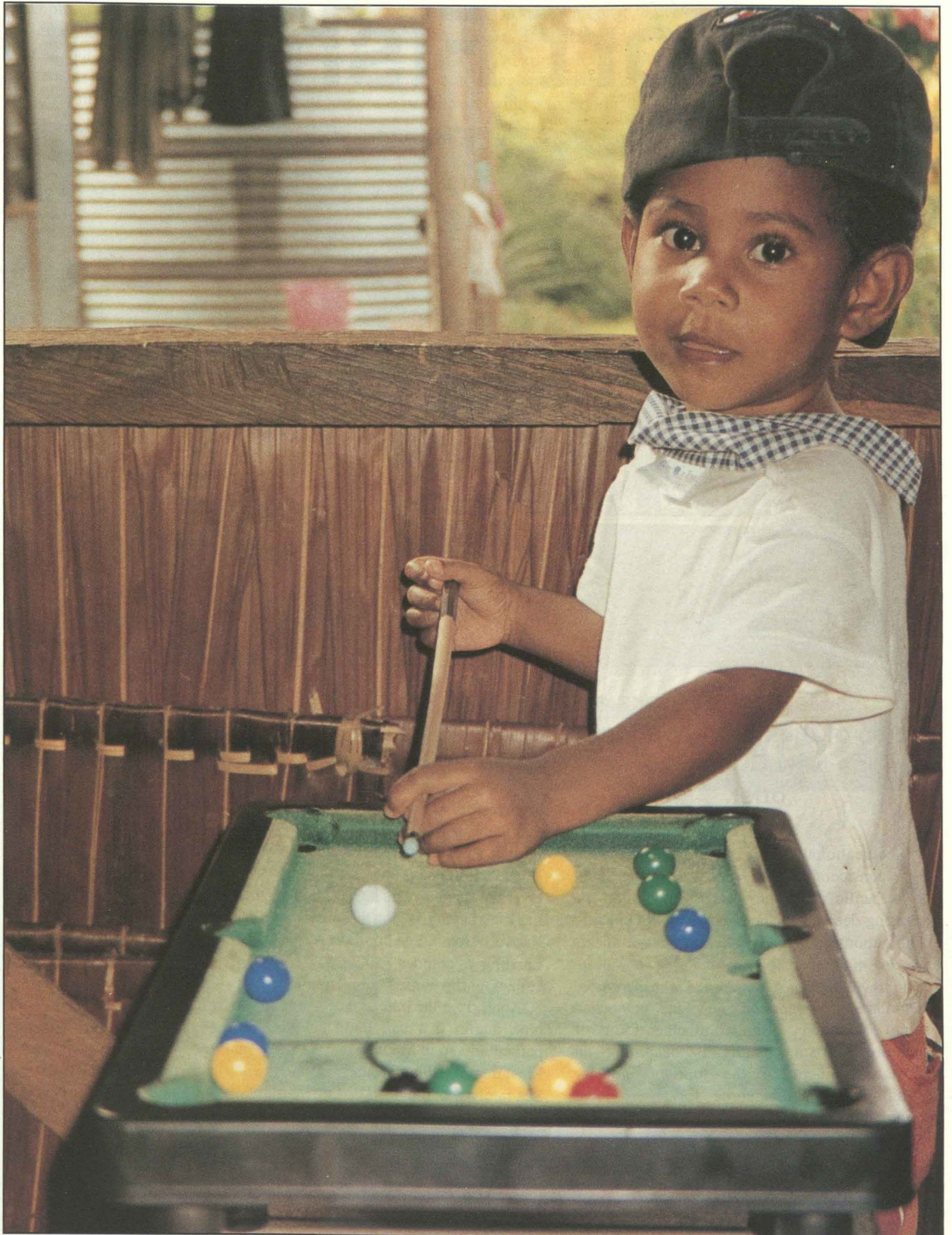


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*CHEMCARE PHARMACY Taurama *CLARKES CHEMIST Kokopo *HIGHLANDS PHARMACY Goroka *KIMBE PHARMACY
*MADANG PHARMACY *MELPA PHARMACY Mt Hagen *MOROBE PHARMACY Lae *WEWAK PHARMACY *TABUBIL PHARMACY
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Lelai Mandra — winner of the Photograph Competition
Sapet Mandra, three years old, has a go at playing snooker in Manus.

Sport Fishing



Alistair McGlashan looks at some of the fishing options Papua New Guinea has to offer.

Recreational sport fishing has seen considerable growth throughout the South Pacific in recent years. But despite the increasing demand for new locations, few Pacific Island nations have really taken advantage of this emerging market.

As travel becomes easier and cheaper more fishermen are seeking out new and untouched fishing destinations. Similar to other forms of adventure tourism, fishing is becoming an important element of the tourism industry providing jobs and income for many local communities.

Papua New Guinea's sport fishing potential is tremendous. Few other Pacific Islands can offer everything from heavy tackle fishing for big blue marlin to light tackle along the reef fringes, as well as barramundi and black bass in the rivers and even trout in the highlands. Where can you get such a wide range of fishing options so close together?

Game fishing

Big game fishing for marlin is a sport that attracts big money. The big black marlin fish off Cairns in Australia's far north attracts anglers from around the globe for the relatively short season in late spring, early summer. The season may be short, but fishermen pour millions of dollars into the small town just for a chance to tangle with a monster marlin. There is little doubt that the waters around Papua New Guinea have 500kg marlin — just how prolific they are is yet to be determined.

Brett Middleton operates the 12m *Talio* out of Madang (photo above). Over the last ten years he has hooked a number of marlin around the 500kg mark. Madang is not the only place with potential for marlin fishing. Rabaul, Alotau, Lae and Port Moresby also have all the right ingredients. Landing a grander (500kg) marlin will immediately put Papua New Guinea in the game fishing spotlight.

Apart from the potential of a grander marlin, there are many 100-200kg blue marlin that can draw anglers from around the world. This is particularly so in Madang and Rabaul where seas are flat most of the year. Most marlin fishing grounds around the world are rough, yet the Bismarck Sea rarely gets rough. The few marlin fishing areas around the world that can offer big fish and flat seas like Kona in Hawaii and Maderia in the Azores, have massive charter industries that are booked out year round and earn millions of dollars.

Sailfish (photo on right) are another popular target species among anglers, especially Americans. For many Central American countries like Costa Rica, it is the sailfish that is the biggest draw card for tourists, not the hotels or the beaches. With good stocks of sailfish throughout Papua New Guinea, there is an opportunity to develop a light tackle billfish industry.

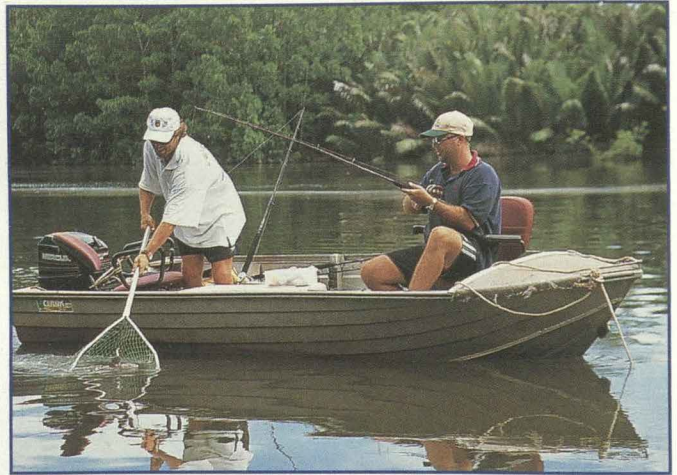
At present a lack of infrastructure is the major hurdle facing the establishment of game fishing charters in Papua New Guinea, but individuals like Middleton still attract up to 150 charters a year, which shows that international anglers are willing to make the effort to travel to remote parts to experience unique fishing. Brett's operation has attracted a number of top anglers and celebrities from around the world.

Another market that is waiting to be exploited is sport fishing for smaller species like mackerel and trevally. Asian fishermen are crazy about lure fishing and jigging. Considering the fact that they are only a short flight away, they are a viable market.

Saltwater flyfishing has exploded in popularity in recent years. World record dogtooth tuna have already been caught in Papua New Guinea on fly and considering the kilometres of untouched waters this is simply the tip of the iceberg.

With so many islands and atolls the potential for live-aboard or long range charters is also very possible. Dive charters presently operate a number of live-aboard charters, yet no one has taken the initiative to focus on the fishing.

Bensbach Lodge is an example of how lucrative fishing can be. It certainly isn't cheap to visit the lodge nor is it easy to get to, yet because it offers such good barramundi fishing, anglers queue up to get into the lodge and they are more than willing to pay for the privilege. Angling Adventures, one of the South Pacific's biggest travel agencies dedicated to fishing travel have dozens of groups booked in.



Freshwater

The freshwater options are almost as diverse as the saltwater fishing and some are unique only to Papua New Guinea. Black bass are renowned worldwide for being one of the toughest fish on earth and are only found in Papua New Guinea's estuarine rivers. Anglers have known about these fish for years and would line up at the chance to fish for them.



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and wake
up refreshed”*



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Then there is the entirely new fish that haven't even been considered like trout fishing in the highlands. Maybe helicopters could be used to move anglers from spot to spot. Certainly expensive, but with time being such a precious commodity these days, people are more than willing to pay.

Having great fishing is only part of the picture. Most travellers these days want more than to simply catch a fish — they want the whole experience. For Papua New Guinea that is easy. It can offer unsurpassed scenery and wildlife, as well as local cultures that are exotic and unique.





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Audio Entertainment

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CLASSICAL

Channel 5

Overture to 'Carmen' (Bizet)
Orchestre du Theatre National de
l'Opera de Paris
Conductor: Georges Pretre
EMI

Midsummer Night's Dream - Scherzo
(Mendelssohn)
Slovak Philharmonic Orchestra
Conductor: Anthony Bramall
NAXOS

Serenade for Strings - Waltz
(Tchaikovsky)
Vienna Chamber Orchestra
Conductor: Philippe Entremont
NAXOS

Brandenburg Concerto No 2 in F,
(Bach)
Academy of St Martin-in-the-Fields
Conductor: Sir Neville Marriner
PHILIPS

Eine Kleine Nachtmusik - Allegro (Mozart)
Capella Istropolitana
Conductor: W Sobotka
NAXOS

Flute Concerto No 1 - Rondo (Mozart)
H Weissberg: flute
Capella Istropolitana
Conductor: M Sieghart
NAXOS

Flight of the Bumble-bee (Rimsky-Korsakov)
Czecho-Slovak Radio Symphony Orchestra
Conductor: Anthony Bramall
NAXOS

The Merry Widow: Balletic Version
(Franz Lehar/John Lanchbery)
Adelaide Symphony Orchestra
John Lanchbery: Conductor
ABC

Ave Maria (Bach-Gounod)
Yvonne Kenny: soprano
ABC

Pie Jesu (Rae)
Australian Concert Orchestra
REPUBLIC

Madam Butterfly: Humming Chorus
(Puccini)
Konzertvereinigung Wiener
Staatsopernchor
Wiener Philharmoniker
Conductor: Herbert von Karajan
DECCA

Concerto in G major, RV151 - 'Alla
Rustica' (Vivaldi)
Lucerne Festival Strings
Conductor: Rudolf Baumgartner
DECCA

Four Romantic Pieces (Dvorak)
Anthony Marwood: violin
Susan Tomes: piano
HYPERION

POP

Channel 6

Hey Baby
No Doubt Featuring Bounty
Killer
UNIVERSAL

Thunderpuss Megamix
Madonna
N/A

Get The Party Started
Pink
ARISTA

Drowning
Backstreet Boys
JIVE RECORDS

Livin' It Up
Ja Rule
DEFJAM

Family Affair
Mary J Blige
MCA

(I Wish I Knew How It Would
Feel To Be) Free/One
Lighthouse Family
POLYDOR

Don't Need The Sun To Shine
(To Make Me Smile)
Gabrielle
POLYDOR

Overprotected
Britney Spears
JIVE

My Sacrifice
Creed
N/A

A Woman's Worth
Alicia Keys
J RECORDS

Overcome
Live
RADIOACTIVE RECORDS

Standing Still
Jewel
ATLANTIC

On The Radio
Nelly Furtado
DREAMWORKS

Queen Of My Heart
Westlife
RCA

EASY LISTENING

Channel 7

How Am I Supposed To Live
Without You
Michael Bolton
CBS

In The Wee Small Hours Of The
Morning
Carly Simon
Epic

Against All Odds
Phil Collins
WEA

A Whole New World (Aladdin's
Theme)
Peabo Bryson & Regina Belle
COLUMBIA

Take My Breath Away
Berlin
COLUMBIA

Tears In Heaven
Eric Clapton
SONY

Time After Time
Mark Williams & Tara Morice
Albert Productions

The First Time Ever I Saw Your Face
Peter Dinklage
HITBOUND

Moon River
Neil Diamond
COLUMBIA

Save the Best For Last
Vanessa Williams
COLUMBIA

Morning Has Broken
Cat Stevens
ISLAND

Love Will Lead You Back
Taylor Dayne
Arista

Nothing Compares 2 U
Sinéad O'Connor
CHRYSALIS

Everybody Hurts (Live - MTV
Unplugged)
The Corrs
ATLANTIC

Too Young
Natalie Cole
ELEKTRA

PAPUA NEW GUINEA

Channel 8

Kobial
Mailu village (Magi)
Central Province

[Panpipes]
Gomri village (Chimbu)
Chimbu Province

Sore Mama
Rock band by Cicilia 'Zenna Greg'
Morobe Province
Chin H Meen Recordings

Uuyambe
Kilalum village (Sulka)
East New Britain Province

Awalif
Ilahita village (South Arapesh)
East Sepik Province

That day is coming closer
Sonoma Adventist College Choir
Recordings by TCPNG

Kaapaumma
Iraabo village (Usarufa-Auyana, Usarufa
dialect)
Eastern Highlands Province

'Iabuti'
Irelya village
Enga Province

Papa Paulo
Harahara Band of Miaru Gulf Province
Walter Bay Company Recordings

Kanipu ivi
Karurua village (Purari)
Gulf Province

Gunal
Gohe village (Mawan)
Madang Province

Vuvu Ialire
Rock Band by Narox
Pacific Gold Studios Recordings

Kasama
Kepara village (Hunjera)
Oro Province

Wakuwko
Malasanga village
Morobe Province

Pipa Man
City Hikers Stringband of
National Capital District
Kalang Recordings

Tatarore
Waidoro village
Western Province

Gawa
Walete (Huli)
Southern Highlands Province

E Pain Ta
Rivo Bamboo Band of Madang Province
Kalang Recordings

Sawo
Kwomtari village (Kwomtari)
West Sepik Province

Twigul 'Vasu korekore'
Voniskopo village (Hahon)
North Solomons Province

Iurusalem
Gospel Band by Exiles Gospel of Rabaul
Pacific Gold Recordings

Leleki
Patsui village
Manus Province

Audio Entertainment

Relax and enjoy the flight...

COMEDY

Channel 9

Zits
Jasper Carrott
CHRYSALIS

Football
Jasper Carrott
CHRYSALIS

Introducing Tobacco to Civilisation
Bob Newhart
PICKWICK

The Retirement Party
Bob Newhart
PICKWICK

Transistor Radio
Benny Hill
SEQUEL

My Father Confused Me
Bill Cosby
CAPITOL

Fathers are the Funniest People
Bill Cosby
CAPITOL

Mothers Will Hit You For Nothing
Bill Cosby
CAPITOL

Auntie Rotter
Peter Sellers
EMI

Bangers And Mash
Peter Sellers
EMI

Goodness Gracious Me
Peter Sellers
EMI

A Wild and Crazy Guy
Steve Martin
WB

My Real Name
Steve Martin
WB

Creativity In Action/I'm in the Mood
For Love
Steve Martin
WB

Argument
Monty Python
VIRGIN

I'm So Worried
Monty Python
VIRGIN

COUNTRY

Channel 10

That Summer
Garth Brooks
LIBERTY

The Outback Club
Lee Kernaghan
ABC

Send Down An Angel
Allison Moorer
MCA NASHVILLE

Land of the Getaway
Colin Buchanan
WANAARING ROAD

Romeo
Dolly Parton
COLUMBIA

Every Little Whisper
Steve Wariner
CAPITOL

COUNTRY

Channel 10



Jamie O'Neil

Everybody's Talkin'
Willie Nelson
VIRGIN

I'll Be
Reba
MCA

With Me
Lonestar
BMG

Easy Living
Catherine Britt
INDEPENDENT

Shiver
Jamie O'Neal
N/A

Sad Goodbye
Troy Cassar-Daley
N/A

Harry The Breaker
Slim Dusty
EMI

Your Everything
Keith Urban
WEA

Don't Talk Back
Kasey Chambers
EMI

Wicked Game
Chris Isaak
REPRISE

CHILDREN'S

Channel 11

Eggs
Simon Bourke
ABC

Aladdin
Aladdin Cast
WALT DISNEY

Monster Mash
Bobby 'Boris' Pickett And The
Crypt-Kickers
TIME-LIFE

Lindalou And Her Golden Gift
Anna Paquin
SIMPLE ENTERTAINMENT

Doin' the Pigeon
Bert from Sesame Street
ABC

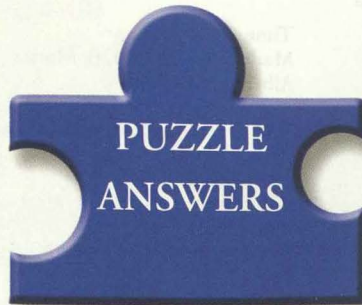
I Just Adore '4'
Big Bird from Sesame Street
ABC

Star Wars - Episode 1: The
Phantom Menace
Cast of Star Wars
KID RHINO

There's A Hole In The Bottom
Of The Sea
Grover & Friends from Sesame
Street
ABC

Crocodile Hunt
Noni from Playschool
ABC MUSIC

Cereal Girl
The Cereal Girl from Sesame
Street
ABC



ODD ONE OUT ADD IT UP 2

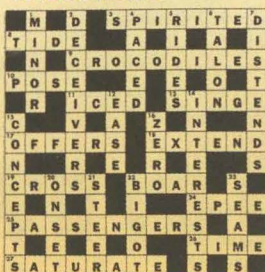


FAN
1 idols; 2 solid; 3 tower; 4 wrote; 5 inapt; 6 paint; 7 files; 8 flies 8-letter word-doomail

BALLBEARINGS

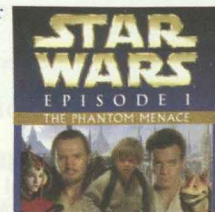
Experiment 1, because water at 20 degrees Fahrenheit is ice!

CROSSWORD



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1 & 19;
2 & 17;
3 & 18;
4 & 10;
5 & 14;
6 & 20;
7 & 11;
8 & 16;
9 & 13;
12 & 15



INFLIGHT Films

International Flights

March

BANDITS



Romantic Comedy
PG-13 MGM

The suave, irresistible Joe and his hypochondriac partner Terry have escaped from prison. Cutting a swath from

Oregon through California, these fugitives rob banks in order to finance their scheme for a new — and somewhat legitimate — life South of the Border. In their wake, they leave a trail of chaos, disguises, wrecked automobiles and an adoring public. Their operation is running smoothly until an unexpected run-in with Kate, who is drawn to the thieves as a way to escape her ordinary life. Together, Joe and Terry are the most successful bank robbers in the U.S. history, and to Kate, they also make the perfect man.

Featuring: Bruce Willis, Billy Bob Thornton, Cate Blanchett

Director: Barry Levinson

SHALLOW HAL



Romance, Comedy
PG-13 FOX

The story of Hal Larson, who only judges women by their outside appearance. He is trapped in an elevator with a self-help guru, Tony Robbins, who hypnotizes him into only seeing the inner beauty of a woman. He falls in love with Rosemary, who happens to be overweight but he only sees her as a beautiful, svelte woman. Everyone else, especially his best friend Mauricio, thinks he's crazy because they all see her as she appears, overweight. In turn, Hal thinks they are crazy. A love story of overwhelming proportions.

Featuring: Gwyneth Paltrow, Jack Black, Jason Alexander

Director: Peter Farrelly, Bobby Farrelly

April

MAX KEEBLE'S BIG MOVE



Comedy PG Buena Vista

After a depressing first day of school, much-bullied seventh grader Max Keeble finds out that he's moving to a new city in a week. Rather than put up with the normal routine of school, he begins an all-out plan for retaliation on all the people who have picked on him. After wreaking all kinds of mayhem, Max finds out he's not moving after all and must face up to the consequences of his actions.

Featuring:
Alex D Linz,
Larry Miller,
Jamie
Kennedy,
Zena Grey
Director:
Tim Hill

Air Niugini
emi PNG!

OCEAN'S ELEVEN



Action/Comedy
PG-13 Worldwide

Danny Ocean is a man of action. Less than 24 hours into his parole, the wry, charismatic thief is rolling out his next plan. Following three rules — don't hurt anybody, don't steal from anyone who doesn't deserve it, and play the game like you've got nothing to lose — Danny orchestrates the most sophisticated, elaborate casino heist in history. In one night, Danny's handpicked 11-man crew of specialists including an ace card sharp, a master pickpocket and a demolition genius, will attempt to steal over \$150 million from three Las Vegas casinos owned by Terry Benedict, who just happens to be dating Danny's ex-wife Tess. Coincidence or motive? But if it all goes according to Danny's intricate, nearly impossible plan, he won't have to choose between his stake in the heist and his high-stakes reunion with Tess ... or will he?

Featuring: George Clooney, Matt Damon, Andy Garcia, Brad Pitt, Julia Roberts

Director: Steven Soderbergh

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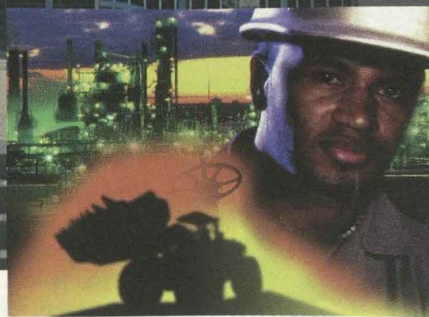
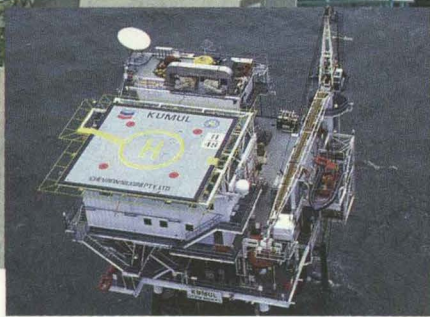
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LOCAL CUISINE — Potatoes

By Céline Peter



Brought to Europe from South America by Spanish conquistadors in the 16th century, potato was only recently introduced in the Highlands of Papua New Guinea. It is

cultivated in 132 countries and in many different soil types, so long as there is sufficient humidity for it to grow. Potato is a very nutritious food. There are thousands of ways to prepare it. In France for instance, each region has developed traditional recipes over many years. Over time, the same may happen in PNG. Enjoy these simple and delicious traditional French recipes.

Bon appétit!



Mediterranean potato cakes

1 kg potatoes
2 tablespoons curry powder
250g butter 200g flour
150g raisins 1 egg
2 tablespoons cumin seeds
salt, pepper

Peel and wash potatoes. Boil potatoes for 20 minutes with 1 tablespoon of curry powder. When cooked, mash the potatoes in the pan. Add 150g butter and gradually the flour. Keep on mixing on a floured table. Preheat the oven at 180°C. Wash and drain the raisins. Add raisins, rest of curry, cumin seeds, salt and pepper to the mixture of potato, butter and flour. Roll the dough and make small cakes and place them in a greased tin. Melt the rest of butter over low heat and brush butter on the potato cakes. Bake in the oven for 10 minutes. Turn the cakes and bake on the other side.

— Serve warm.

If you do not have an oven, you can also cook potato cakes in a frying pan with (olive) oil.



French Fries

1kg potatoes 2 litres of cooking oil
Salt 1 tsp thyme

A juicy beef steak and French fries is one of the most favourite dishes in France.

Peel the potatoes and cut them in sticks of about 1cm section. Wash and dry them well in a clean teatowel. Heat the oil and thyme in a big saucepan. The oil must be warm enough but at no stage should it fume, so be careful not to overheat it. Test whether the oil is warm enough by putting one potato stick in the oil. Small bubbles should form instantly around the stick.

Pour small quantities of potatoes at any one time so that they do not stick to each other. Let cook for 10 minutes and remove them from the oil. Do not cover them or they will stick. Just before serving, deep fry them in the oil again for about 3 to 4 minutes so that they turn brown and crunchy. Drain them well, if necessary on absorbent paper. Season and serve immediately, preferably with your favorite grilled meat or fish. (T-Bone Steak in the photo)



Blue Cheese and Potato Gratin

1kg potatoes 160g blue cheese
750g evaporated milk (2 cans)
80g butter 5 egg yolks
3 tablespoons thickened cream
1 onion 4 garlic cloves
1 teaspoon thyme
salt and pepper

Peel and wash potatoes. Dry them and cut them into slices. Peel and chop onion and garlic finely. Preheat oven at 180°C. In a big bowl, mix 4 egg yolks and evaporated milk. Add potatoes, salt and pepper. Crumble 100g of blue cheese in the mixture. Add onion, garlic and thyme. Grease an oven dish with butter and pour in the mixture. Cover with aluminium foil and bake for 1 hour in the oven.

In a small saucepan, cook over low heat the cream, 70g of butter and 60g of blue cheese. Simmer for 5 minutes and then pour over the gratin. Let the gratin grill for another 20 minutes and serve immediately.



Potato Mousse

1 kg potatoes 5 egg whites
6 tablespoons thickened cream
200g butter 1 glass milk
100g shredded cheddar cheese
1 tsp nutmeg powder

Peel and boil potatoes until cooked. Mash them and stir in butter and boiling milk. Mix well to make a purée. Season and stir in the nutmeg. Preheat the oven at 180°C.

Whisk the cream. In a separate bowl, beat the egg whites with a pinch of salt. They need to be very firm.

Add the cheese then the cream to the potato purée. Finally stir in the egg whites and mix well. Grease an ovenproof dish that has high sides (a soufflé dish if you have, otherwise a cake tin will do). Pour the mixture in and cook for about 25 minutes. Don't open the oven door until the mousse is cooked otherwise it will not rise properly.

— Serve immediately.



Welcome

Getting Around

At Jackson's Airport, which is 11km from the centre of Port Moresby, there are rental car counters, a bank and duty free shops. Major hotels have a courtesy bus to and from the airport. Taxis have meters. Within the city, PMVs (public motor vehicles) cost 50 toea per journey. Elsewhere, PMVs, taxis and hire cars are available.

Useful Port Moresby Numbers

Air Niugini Information **327 3480**

Reservations & Confirmation **327 3555** (Domestic)

Reservations & Confirmation **327 3444** (International)

Police **000**

Ambulance **325 6822**

Currency

Papua New Guinea's unit of currency is the Kina which is divided into 100 toea. Exchange your money at Jackson's Airport or in banks which are open from 8.45am to 3pm, Monday to Thursday and until 4pm on Friday. Credit cards are accepted in leading hotels and shops.

Customs and Quarantine

Adults over 18 have a general allowance of new goods to the value of K250 and are allowed duty free:

- 200 cigarettes or 50 cigars or 250grams of tobacco
- One litre of alcohol
- A reasonable amount of perfume

Drugs, pornographic literature or video tapes, firearms and weapons are prohibited. Food items, seeds, spices, live or dry plants, animal products and biological specimens such as cultures and blood need special import approval.

Languages

Although over 800 languages are spoken in Papua New Guinea, English is the language of education and commerce. Tok Pisin is widely spoken and Hiri Motu is common in Papua.

Time

Papua New Guinea is 10 hours ahead of GMT, in the same time zone as Eastern Australia. There is no daylight saving.

Communication

ISD, STD and facsimile services are available in most areas. Large towns have public telephones. Phone cards can be used in some. Many rural areas have radio phones.

Driving

Drivers' licences issued in other countries are valid for 3 months after arrival. Vehicles travel on the left side of the road; speed limits are 60kph in built-up areas and 80kph out of town.

Electricity

Electricity supply is 240 volts AC 50 Hz. Some hotels have 110 volt outlets for shavers and hair dryers.

Health

Water quality is within WHO standards in most towns. Bottled water is available. In rural areas it is advisable to boil water. As malaria continues to be a health risk in the country, anti-malaria tablets should be taken two weeks before arrival, during your stay and for 4 weeks after departure. Use insect repellent and wear long-sleeved shirts, trousers and shoes in the evening. Dentists, doctors and hospitals are in all major centres. Rural areas have health centres and aid posts staffed by trained health workers.

Dress

For most occasions, dress is informal. Thongs and shorts are not allowed in some bars and restaurants. Lightweight clothing is suitable for coastal areas but a sweater or jacket will be needed in the highlands.

Restaurants

Western cuisine is available in hotels, restaurants, guest houses and lodges. Port Moresby has several Asian restaurants. Some hotels especially in the provinces serve local food such as roast pork, chicken or fish with sweet potato, taro, yam, pumpkin, banana and greens cooked in coconut milk.

Tips

Tips are neither expected nor encouraged.

Shopping

Large stores and artifact shops offer a variety of goods for sale. Saturday is a half day for most shops and nearly all are closed on Sunday. Artisans sell their craft beside the roads or in markets. All markets sell a wide range of fruits and vegetables.

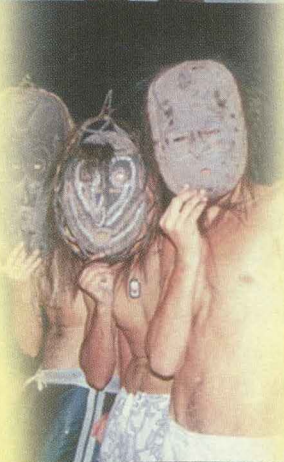
Cultural Events

Celebrations of traditional culture include:

August - *Mt Hagen Show*, September - *Hiri Moale Festival Port Moresby*, *Goroka Show*, October - *Maborasa Festival Madang*, *Morobe Show*

Export Rules

Many artifacts, historical and cultural objects are prohibited exports. Others require a permit from the National Museum. Export permits for wildlife and animal products are issued by the Nature Conservation Division of the Department of Environment and Conservation.

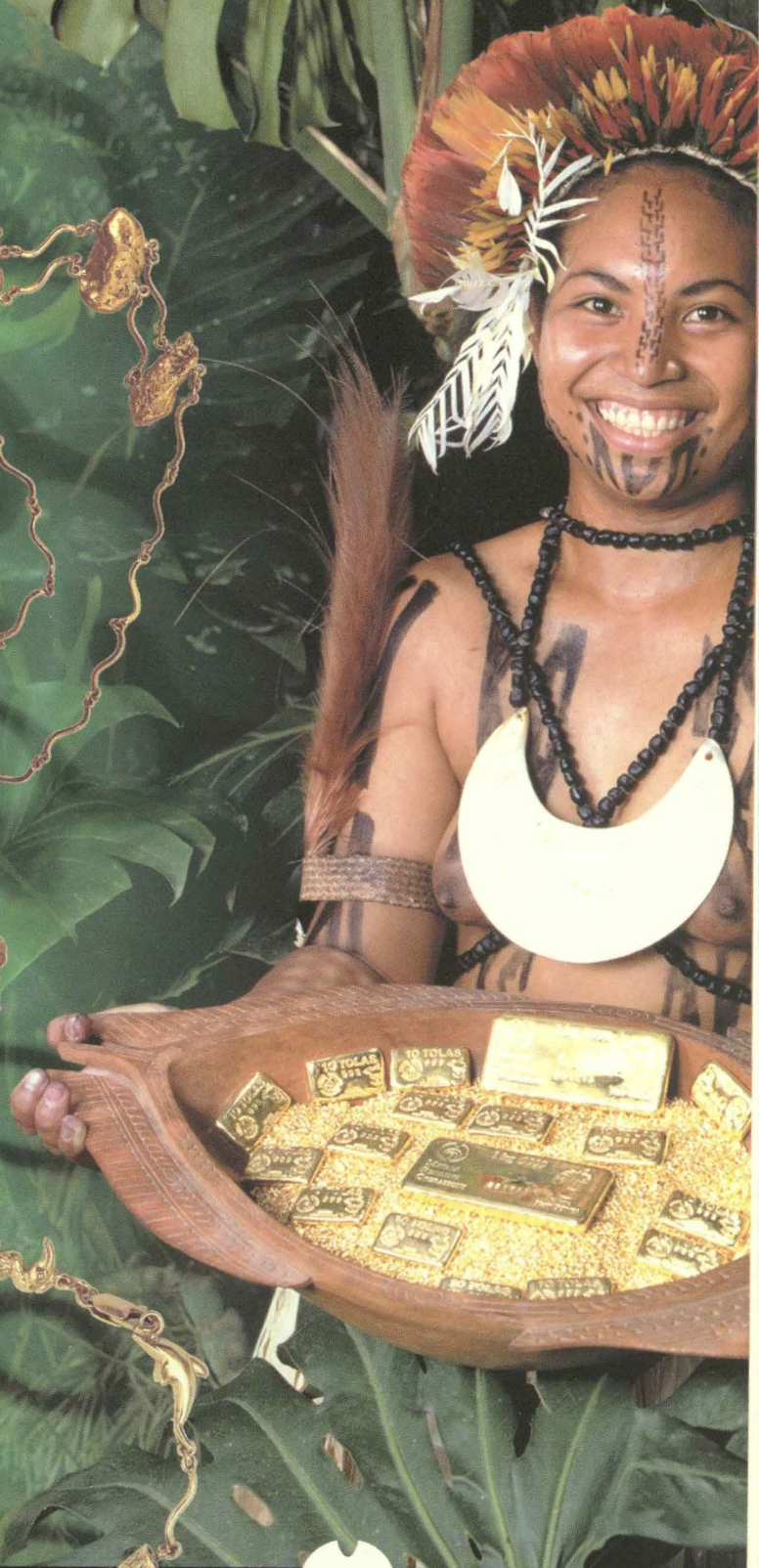
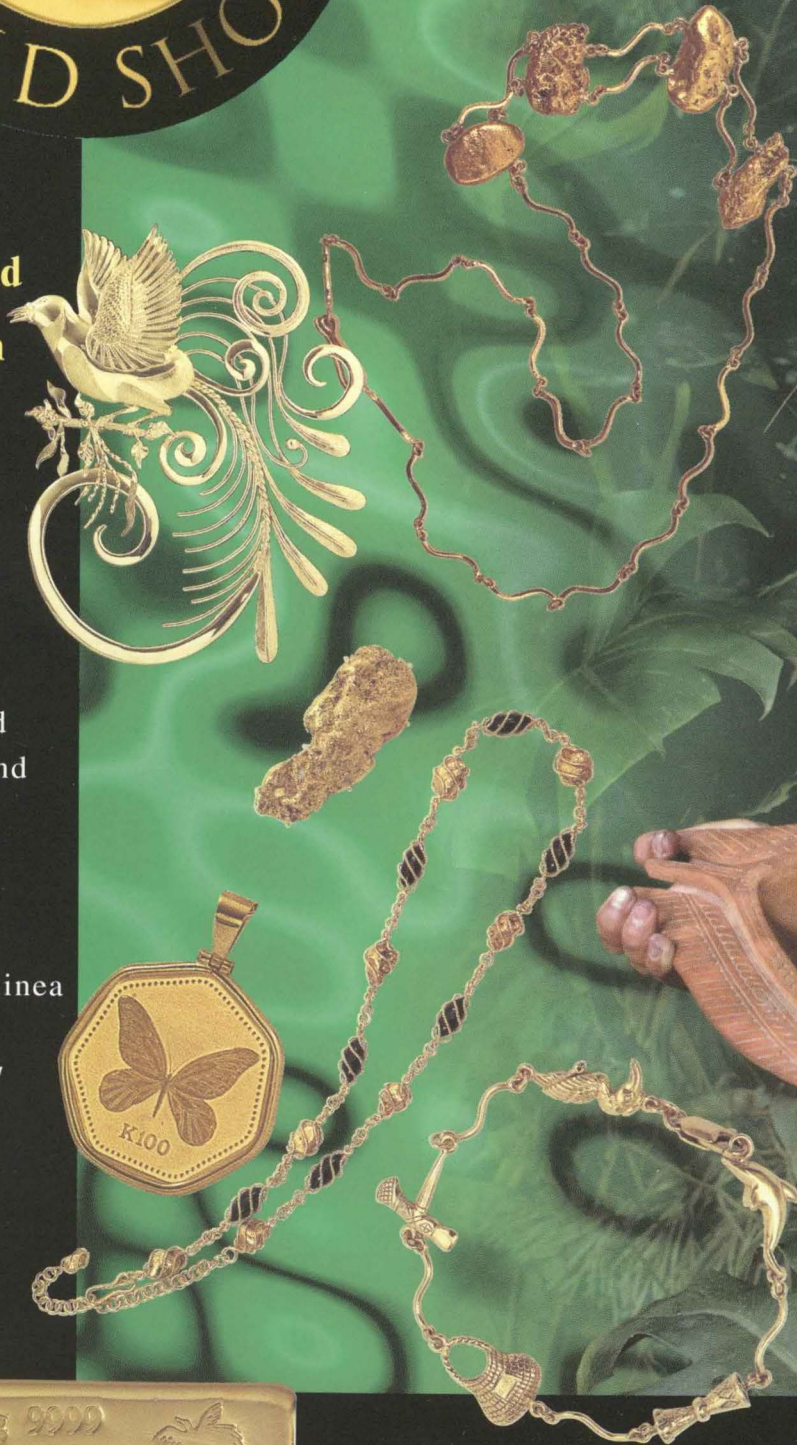


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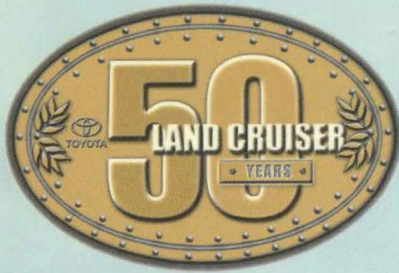
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EM722