

# paradise

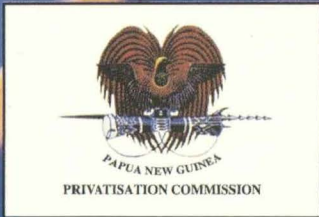
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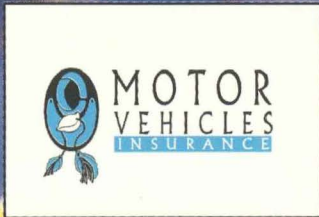
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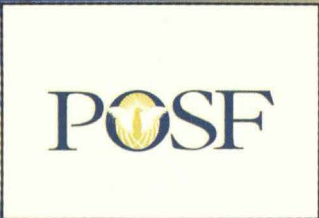
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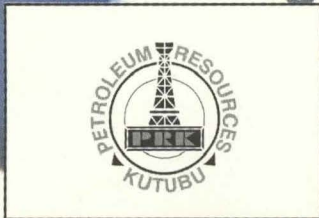
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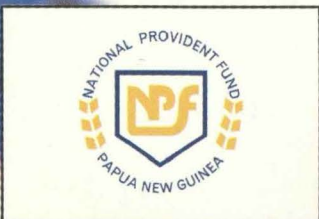
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# paradise

No 152 July-August 2002



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Cover: *Hornbill (Kokomo)*  
Photograph: *Mahendra Blackman*

*Every poster tells a story.* This is the title of an interesting article about environmental awareness and education in this issue of **Paradise**. The posters produced by World Wildlife Fund give the observer a glimpse of the amazing natural habitat Papua New Guinea is endowed with.

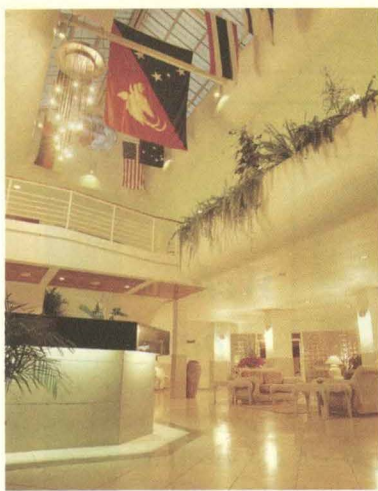
Did you know that Papua New Guinea has:

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# Lelet Plateau, highland on an island

Story and photographs by Nigel Houston



About halfway down the length of New Ireland, tucked high in the mountains at an altitude of about 1400 metres lies the Lelet Plateau, sitting astride the watershed of the divide where it is barely 20 kilometres from coast to coast. Living in this unique region is a small population of the only highland people in New Ireland.

Winding steeply up through the rainforest on the one road to the plateau from the coast, the lowering of the temperature and humidity are evident particularly at night when the air has a definite crispness about it. The climatic conditions and isolation have allowed the people of the plateau to retain their identity to a greater degree than the rest of the island. Prior to 1979, when this rough gravel road was built, the only access to the plateau was via steep jungle paths.

There are four small villages on the plateau and the steep hills and narrow valleys are dotted with houses and vegetable gardens. Pockets of rainforest are preserved in the deeper gullies and the sounds of many forest birds drift up to the people working their gardens on the hillsides.

Climatic factors have led to the introduction of a wide range of vegetables. Apart from the traditional sweet potatoes and taro there are others such as tomatoes, spring onions, beans and pumpkin. This trend has made the Lelet Plateau the vegetable basket for New Ireland, supplying the markets of Kavieng and Namatanai.

A consequence of the geology of the plateau is the scarcity of surface water which, even with a high rainfall, drains quickly into the subterranean system of limestone caverns. This water reappears down on the coast, bubbling out of caves to form crystal-clear streams for many of the coastal villages.

Above: *The rolling hills of the Lelet Plateau*

Below: *A jungle path in the rainforest of the plateau*





Traditionally, particularly in dry times, water often had to be carried long distances, but more recently the use of corrugated iron roofing has eased this problem.

There is one small guesthouse on the plateau in the village of Limbin. This has been built recently and is run by retired primary school teacher Ben Laklen and his family. Ben, who is 60 years old, has clear memories of the many changes that have occurred over his lifetime. Born at a time when very little outside influence had altered the age-old culture of his people, he is able to describe the immense change that has impacted this highland community in such a short time.

The traditional houses of his earliest childhood were squat, thatched, bush material huts, too low to stand upright in, but with the central fire burning and the smoke permeating the thatch, warm in the cool nights.

Ben remembers the Japanese soldiers on their vegetable collecting expeditions. 'The Japanese forced the villagers to grow and carry produce down to the coast to their military camps,' he said. He particularly remembers the heavy bombing raids when the allies retook the island — a time when many New Ireland people died in the crossfire.

There is very little evidence of traditional culture on the plateau today. Traditional dress, singing, dance, woodcarving and musical instruments are absent. These major changes seem to have coincided with the arrival of missionaries to the region. When questioned about the lack of original culture, Ben said, 'the early missionaries told us to make carvings, and many were collected and burned. Our traditional ceremonies were discouraged and we were taught the new ways of the church'.

In the evenings and on Sundays, the church bells ring out from the villages, followed by the melodic and poignant voices of Christian songs carried by the cool evening air across the hills and valleys of the plateau.

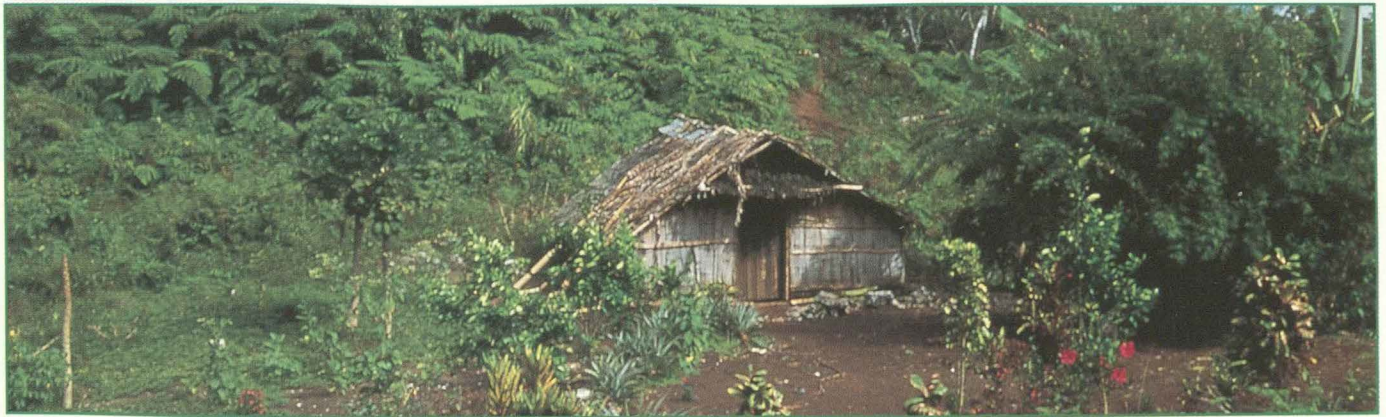


*Above: A cautious and quizzical appraisal from this toddler in the village of Limbin as he gradually makes friends with a stranger.*

*Below: At about 1400 metres above sea level the village of Limbin nestles into the hills of the Lelet Plateau.*







*Thatched houses, each with its own garden surrounding it, are dotted among the hills.*

According to Ben, the first missionary arrived on the plateau in 1952 and showed the people how to build more comfortable houses. Traditional clothing was discarded for the Mother Hubbards of the missions and the inexorable transformation of a culture commenced. The upside of this being major improvements in the fields of education and health.

The coming of the kiaps (patrol officers) of the early Australian Administration after WW1 heralded a long period of change leading to Independence in 1975. *The kiaps were too lazy to walk up to the plateau so they made the people move to the coast*, said Ben.

Only four villages resisted and these remain on the plateau today. They are reaping the benefits of their market gardening.

There is one primary school centrally placed in the village of Lengkamen. Ben Laklen's wife Lydia is school principal. Perched on a hilltop the basic classrooms show how hard the teachers work. The laughing faces of the welcoming children are happy to burst into singing the National Anthem for visitors. Seeing the pride taken by the students in their work is an inspiration and indicates the dedication shown by Lydia and her staff to her children.

The isolation of the Lelet Plateau is evidenced by the surprise and delight of the friendly people to the appearance of visitors who have made the effort to make the journey. Not only the beauty of the landscape, but experiences like gaining the trust of wide-eyed and fearful little children perplexed by the sight of white-skinned strangers, bestow lasting impressions of this unique place.



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Aircraft type	Length (Mts)	Wing Span (Mts)	Power Plant	Cruising Speed (KPH)	Normal Altitude (Mts)	Std Seating/Cargo capacity with full passenger load	Range* (Kms)
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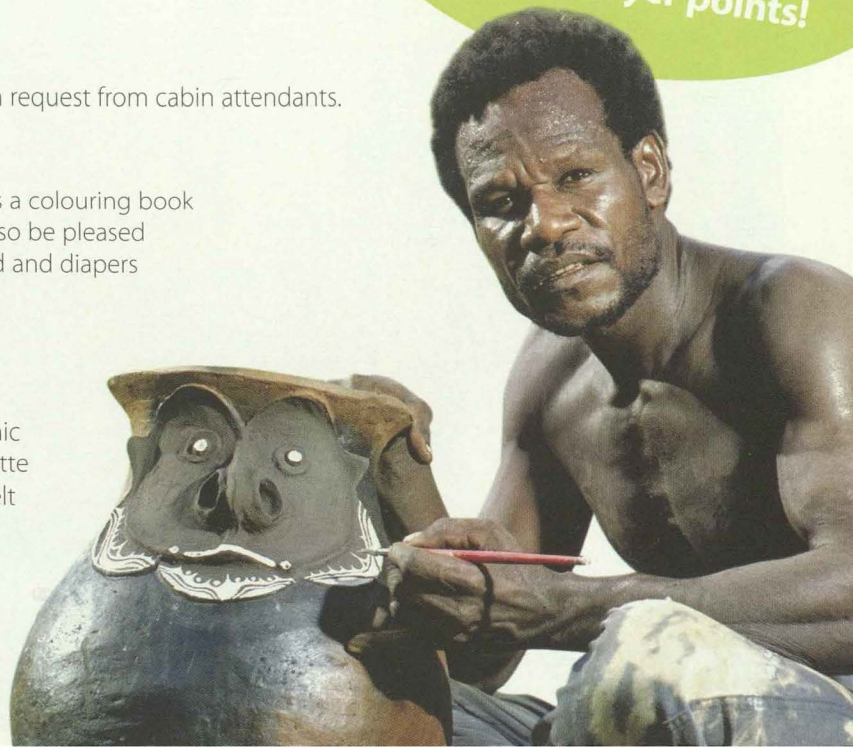
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Who would imagine that the desert-like moonscape at Lion Island has an entire fauna hidden to all but the keenest eyes?

# Lion Island

Story and photographs by Neville Coleman

No matter how many times one dives the tail end of Lion Island lying close to Loloata Island near Port Moresby, this soft-bottom sand slope comes up with major discoveries, year after year.

Once thought of only as an alternative when it was too rough on the outer reefs, the moonscape often contributes amazing 'critters', highlighting the area's incredible diversity. From the buoy to the wreck is only a small distance and can be easily covered in a single dive. Due to most of the best diving being in depths of 3 to 20 metres it's not uncommon for the experienced diver to manage 80 to 100 minutes of bottom time. At first glance the entire site looks unimpressive, just seagrass and sand, and it's this first impression which often leads to some inexperienced divers turning up their noses because of their inability to recognise more. *Where are all the pretty coral and sharks?*



*Common in one particular spot on the sand slope, the variable stromb Strombus variabilis is a herbivore, feeding on filamentous algae grazed from the surface of the sand.*

Most people imagine that beautiful reef scapes like this excellent example at 30 metres off Loloata Island are the only place to discover interesting sea creatures.





If one's entire diving pleasure depends on only two examples of the ocean's vast array of creatures, then they certainly have a long way to go. Over the years some of the best soft-bottom photographers in the world have captured images and discovered an array of peculiar and fascinating animals in this area.

### After Dark

Similar to all types of marine habitats the moonscape has a day-time fauna and a night-time fauna. While both are spectacular, to me it's the nocturnal species that have the greatest attraction.

Drifting down through the inky blackness my low light torch illuminates its hazy way through the soup of all-surrounding plankton as I glide slowly to the bottom.

Hovering just above the sand I adjust buoyancy and my cameras, and with only the tip of my wrist loop knife touching the sand, ease down the slope to 15 metres.

Everywhere there is movement. Swarms of minute plankton hover around the light and the sand is alive with miniature molluscs and crustaceans making their way around beneath the sand. Here and there hermit crabs scurry across the surface. Prawns and crabs exposed to the light hasten to rebury themselves. Small dumpling squid pulsate with colours as their chromatophores attempt to adjust to the unfamiliar light source, then give up and snuggle down between the sand grains, piling shell grit over themselves with hurried sweeps of their suckered tentacles.

Eyes keyed to every movement and every shape, my search pattern zigzags up and down the slope from the seagrass across the shell grit section and down to the moonscape at 20 metres plus and back. A flash of colour amongst the seagrass proves to be a brightly coloured moon snail meandering around in search of prey. The golden periostracum (skin) covering its shell and the stark red and white striped animal make a striking vision.

Quickly moving the torch away I lie my second Nikonos III down on the sand and move in to focus with my housed Nikon F4. (Yes, it is a bit awkward trying to manage three camera systems at night and sometimes I miss out on a few shots. But what I lose in the short term is more than made up in having the versatility and the extra 72 shots on hand.)



*The thorny sea star Protoreaster nodosus is a common resident.*

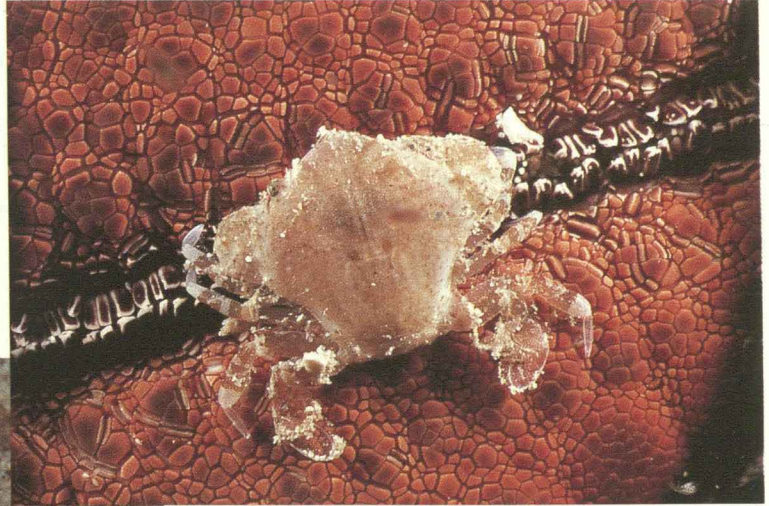
Although the oriental moon snail lives across much of the Indo-Pacific, very little is known about its habits or behaviour as it only comes out beneath its sandy retreat at night. Unfortunately, it is often sensitive to movement and direct torchlight and will begin to bury after the first few flashes go off.

*Powering along in search of prey the oriental moon snail Naticarius orientalis is strictly nocturnal and is not considered common throughout its Indo-Pacific range.*





Some moon snails are known to feed on bivalves by capturing them and drilling a hole in their shell to feed on the soft body within. However, I have spent a great deal of time watching this mollusc and have yet to discover what it preys on, or its method of feeding. There doesn't appear to be any hard evidence that this species actually drills holes in other shells. It may just smother its prey in a similar fashion to harp shells and baler shells. The lack of dead bivalve shells in the area would tend to support this suggestion.




Above left: *With its voluminous foot completely enveloping a red-mouthed stromb shell containing its resident hermit crab, this articulated harp shell Harpa articularis will smother its prey and then eat it while buried beneath the sand.*

Above right: *Beneath the thorny sea star lives its commensal crab Lissocarinus orbicularis.*

Below: *Resembling a piece of dead seagrass this robust ghost pipefish Solenostomus robustus even mimics the way its chosen model wafts along the bottom in current or motion of a swell. Strangely enough I have yet to see this species at night, though its relation the harlequin ghost pipefish is often seen at night.*

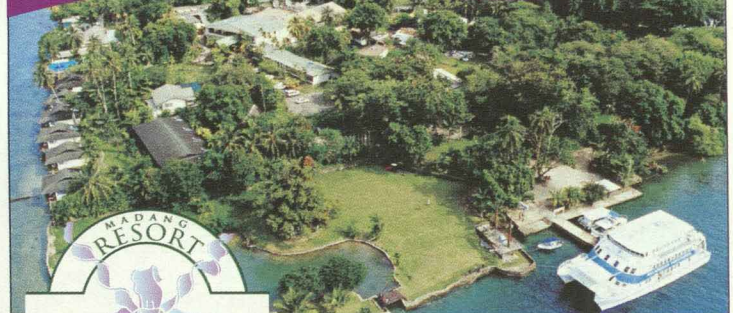


There are at least three other species of moon snails that inhabit the area but little is known of their habits and behaviour. However, at last we have their pictures and hopefully as we dive more and learn more, all will be revealed.

There are a zillion half-finished stories in our quest to understand nature and we know less about underwater nature than anywhere else on the planet. Unless we, as divers, participate in 'Adventures in Learning' programmes, our ignorance will reflect that of the rest of the world who have little reason to care unless we tell them what they have to lose. 

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# A whirlwind tour continues ...

## Lae

Story and photographs by Mahendra Blackman

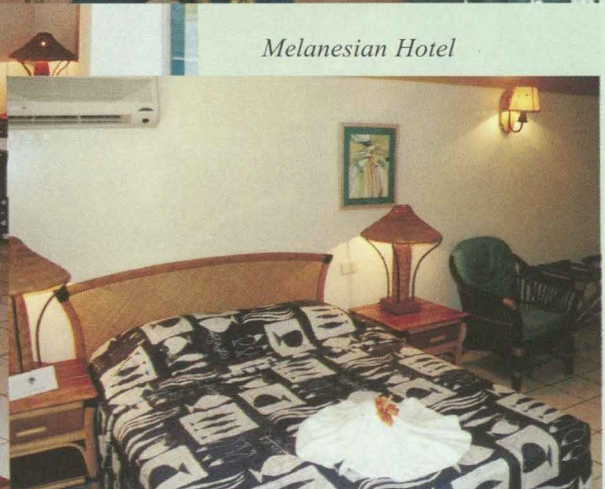
Wow — what a country! Whilst peering out of the plane's porthole I was confronted with a vision — the Markham Valley, a land of green sweeping plains snaked through by the Markham River. This valley nestles between magnificent mountain ranges, parts of which rise high above the clouds, as if to see who is approaching.

Below is Nadzab, a well-maintained World War II airstrip, now serving as the main airport for Lae. After a smooth Air Niugini landing, I collected the luggage and signed up for the hire vehicle. I started to feel a pang of panic. 'Where am I? It's going to be dark soon. Where is Lae, somewhere 45 kilometres away? I'm in the middle of a country I don't know.' The answer was easy; I spoke to a friendly bus driver and just followed him all the way to town. He even guided me to the Melanesian Hotel where I was booked in.

The night manager made sure that I was set up and comfortable in one of the spacious modern suites. He explained the direct dial telephones, room service and cable TV.

After a hot shower and coffee, too early for bed and too late to go out, I decided to explore the hotel's amenities — reception with 24-hour foreign exchange desk, free car parking with 24-hour security, laundry and dry cleaning service, swimming pool in lush tropical setting, a huge conference room, Amelia's Restaurant, Nane's Coffee Shop, Enzo's Pizzeria, a Melanesian Art and Gift shop as well as a Jewellery Shop. The Business Centre in the main foyer offered free email service for guests from 6 to 10pm.

In the Terrace Bar several people played at the pool tables, others danced to 'The Lae Band' (*photo below*), who were playing Blues and sounding fantastic. All the band members are self-taught and compose their own music. This popular band plays Jazz, Blues and Rock'n Roll, and has been together since 1997.



Melanesian Hotel





Next morning was fresh and sunny, so I chose to have breakfast at Nane's coffee shop, served on the terrace overlooking the swimming pool and beautiful gardens (*photo above*). The happy lady who served me was Nane Paul (*photo above*) who has been with the hotel for 32 years. In appreciation for her valued service, the management named the shop after her.

Next I was introduced to the hotel's regional manager, who graciously offered to show me around Lae to get my bearings. After the main business area we visited the Huon Gulf Motel, a 40-room budget accommodation block and restaurant near the old airport. Huon Gulf (*photo below*) is also part of the Coral Sea hotel chain.



Planet Rock nightclub, the largest entertainment venue in Lae, was our next stop. Each evening the club's resident DJ presents music videos. Local bands play regularly. It's popular for daytime pool, large screen sports, and business lunches. And after work drinks and pool. Transport is safe in the fully secure car park. On Saturday afternoons Planet Rock provides dancing for under-18s — strictly no smoking or alcohol. Local community schools, youth sporting clubs and students use this venue for fund-raising activities.

That evening I was invited to attend and photograph the semi-finals of Planet Rock Calendar Girl Quest — a quest to find a young lady with exceptional looks, great personality, a sense of fashion and the confidence to present herself appropriately. This search is for 12 faces of Planet Rock and a Miss Planet Rock. Unfortunately I was travelling light and only had my basic camera with no external flash equipment, but I jumped at the opportunity and did the best with what I had.

The Penguin Club meets monthly in the Melanesian Hotel's function room (*photo on right*). This club offers opportunities for women to improve communication skills, build self-confidence, learn correct meeting procedure and effective speaking skills. Many young women in Lae and surrounding areas take advantage of this worthwhile opportunity.

*Disc jockey and some entrants in the Calendar Girl Quest*








Staff in the Melanesian Art Centre

An early start the next day — first a visit to Robin Hodgson who has an impressive collection of quality artifacts for sale in the Melanesian Art Centre in a building next to Air Niugini at the old airport. Robin came to Papua New Guinea in 1969 as a private secretary, fell in love with the country and stayed. She is now a successful businesswoman.





Previous experiences in Port Moresby, Rabaul and Wewak have taught me that a visit to a War Cemetery is a must. I was not disappointed. Lae War Cemetery quietly stirs the emotions and creates feelings of deep respect for the fallen heroes (*photo on right*).

Walking through the Botanic Gardens nearby, home to giant trees dressed with thick layers of vines housing all kinds of brightly coloured birds and animals, I was fascinated by the electric-green lizards as they rustled through the undergrowth. The gardens also have a collection of exotic orchids.




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Another interesting place for shopping was the street markets in the town centre (*photo above*). They had a wide variety of crafts and artifacts. From a distance I was drawn to a kundu (drum) and just had to have it. Now it has pride-of-place in my living room (*photo below*).





Time for lunch, then a short drive to the University of Technology where thanks to a land grant by that university and a grant from the PNG Department of Environment & Conservation, the Rainforest Habitat was created. Used for student education and school-practicals on ecology, biology, conservation, forestry etc, it supports approximately 460 fauna specimens including nearly 100 birds of paradise.

The Rainforest Habitat is spectacular. It is a tent of shade cloth, 55 metres square and 11 metres high, enclosing a 5,000,000 litre lake, a jungle of over 10,000 plants and trees. There are raised walkways allowing every possible viewing point for the 55 species of birds, wallabies, tree kangaroo, sugar gliders, crocodiles, tortoises, lizards, frogs, fish and butterflies. As I strolled through the Habitat, birds flew onto my shoulder. I saw 10 species of birds of paradise. I felt like 'Adam' in the Garden of Eden. The Habitat has a good collection of artifacts, books and posters at very reasonable prices.



*Marshall,  
night manager  
at the  
Melanesian  
Hotel, standing  
among the  
kava plants at  
Suambu.*



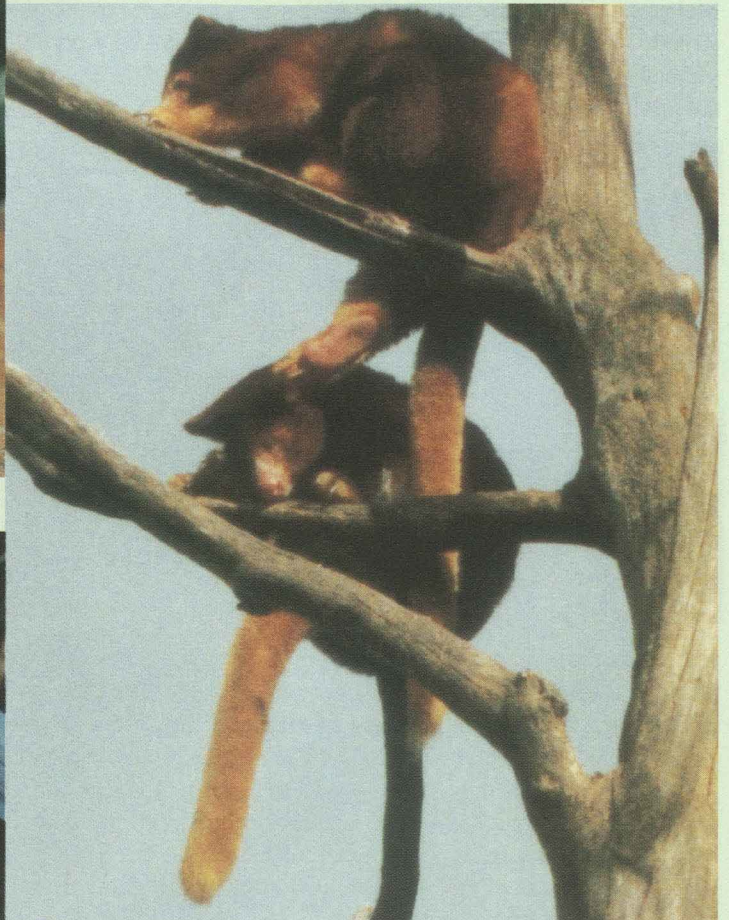
*Pepper growing at Suambu  
Plantation.*

Lae is renowned for its plantations so I visited Suambu — a family coconut plantation since 1957, now employing 30 full-time staff to grow organic fruit, nuts, flowers and kava. The plantation also opens its doors for home stay. I thoroughly enjoyed taking tea on the spacious verandah fronted with magnificent views of the Markham Valley and mountain ranges. A guided tour over the plantation revealed some fruits that I had never heard of before.

As I drove back to the hotel my mind raced over all the wonderful tastes, scents, sights and experiences that I had enjoyed over the last few days. Again I didn't want to leave, but in the morning my next adventure was to begin — Goroka in the Highlands.



*The Rainforest Habitat*





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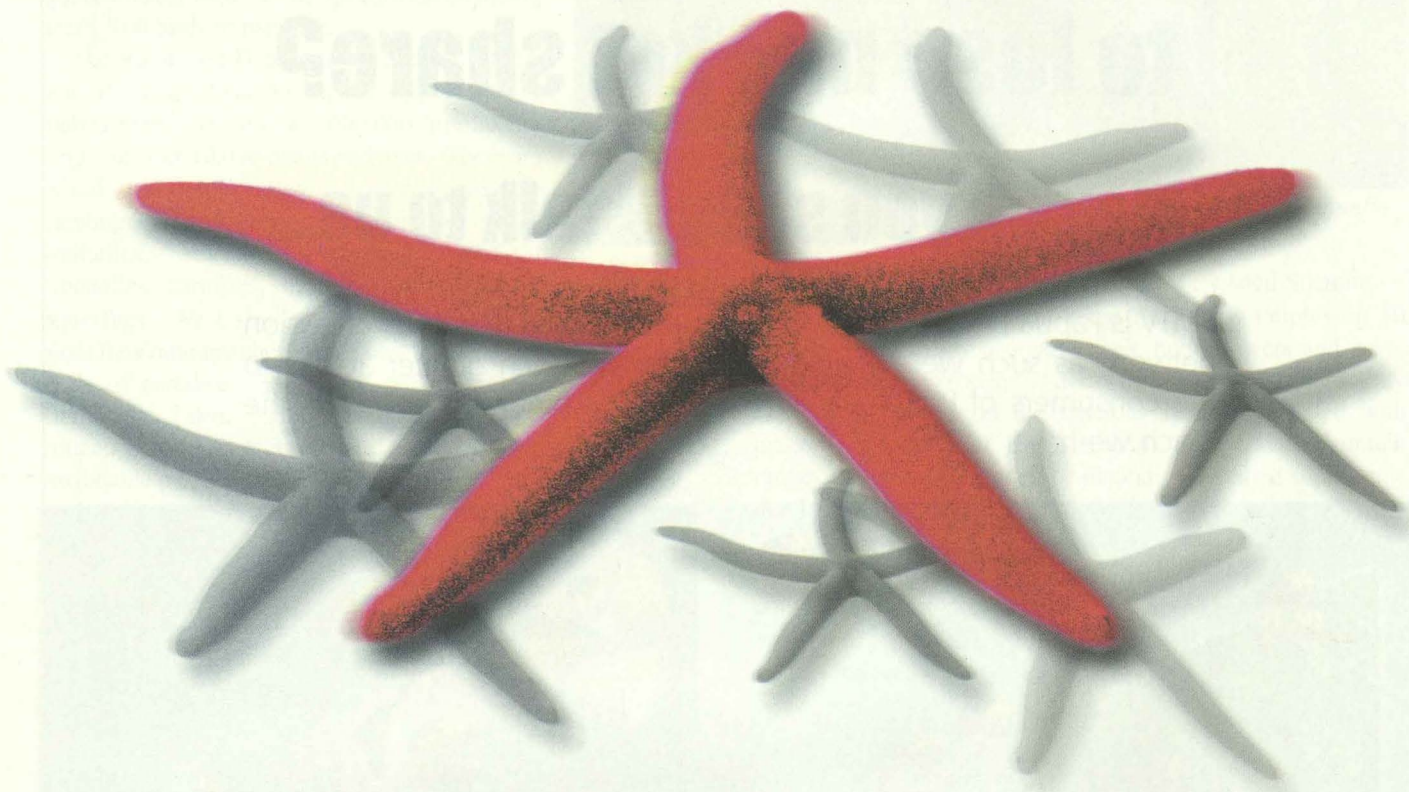


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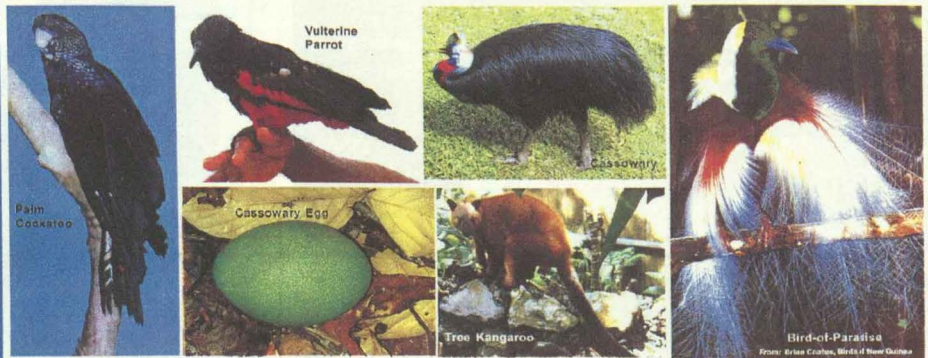


# Every Poster tells a story!

Story and photographs by John Brooksbank

## Gone From Many Places... Still On Your Land?

Used to be you could find these animals throughout PNG. They're gone now from many areas. Gone forever.



A long time ago, every place in Papua New Guinea had all kind of birds, plants, fish, trees and other resources. Our land and water was really full of these wildlife resources. But some clans in PNG weren't very smart. They didn't think about what would happen later, if they hunted too many animals and birds. Some clans let their peopleset fires and garden everywhere until it destroyed the big bush forests where these animals, birds, and other wildlife lived. That's why if you go to the land of these people today here in PNG, you won't find these kinds of animals and birds. You'll find kunai grass mabe. Or you'll find forest but none of these birds or animals. They're gone forever. No one realised that if you don't look after your resources, you'll end up being them! Are these animals and birds still on your land? If they are, your clan is really lucky! So what are you doing to make sure you always have those resources? It's not the responsibility of the government to look after this wildlife. The wildlife belongs to you. So it's mostly YOUR responsibility!

Not exactly Rod Stewart's lyrics but no less true all the same — certainly regarding the philosophy behind the efforts of the World Wildlife Fund in Papua New Guinea to raise village level awareness of development issues.

The posters shown in this story are just some of the messages that WWF has sent all over the country. Over 150 different posters have been produced — with messages in English, Tok Pisin, Motu and some local languages in efforts to make sure they are understood by everyone.

Max Kuduk, project manager of the WWF Kikori ICDP (Integrated Conservation and Development Programme) says that one of the important roles of his organisation is *to ensure that villagers who for thousands of years have focused only on the needs of their immediate family or clans people now broaden their horizons. Our challenge is to make conservation relevant to the average Papua New Guinean villager today.*

Traditionally, in almost all areas except the Highlands, the prevalence of disease, poor soils or rugged terrain led to low village populations. This in turn meant that humans had little impact on the various environments they found themselves in. Only in the Highland valleys, where rich soils and the adoption of sweet potatoes as a staple allowed large population densities, were there significant habitat changes. Here, forest clearance and swamp drainage for large-scale rotational cultivation of sweet potatoes created the grasslands that characterise that region today.

Nowadays steadily increasing populations, large-scale plantings of cash crops, mining activities and the dramatic increase in logging has combined to have a significant impact on formerly pristine environments. This translates as an increased threat to the survival of rare indigenous plants, animals or insects that in many cases occur in only a very limited range. The people who are most familiar with those diverse environments are of course the village people who live there. And it is those people who are being targetted by the WWF awareness campaigns.

The colourful and eye-catching posters proclaim simple but important messages on resources in the country and development choices that are available to villagers. There are some quite startling facts that many people in Papua New Guinea may not be aware of. For example, did you know that the country has:

- the world's tallest banana species;
- the largest number of banana (400) and orchid (3000) species of any country in the world;
- more bird species (725) than in North America;
- the world's largest (female Queen Alexandra's Birdwing) and second largest butterfly, longest lizard (Salvadore's Monitor Lizard), largest pigeon (Southern Crown Pigeon);
- the world's only bird that nests, sleeps and rears its young underground (Greater Melampitta);
- 7% of the world's plant and animal species, although it has only 0.3% of the world's land mass.

The above impressive sample statistics relate only to what is known at present. WWF is actively involved in carrying out flora, fauna and diversity surveys within their ICDP area. These are initially baseline surveys and will subsequently serve to monitor how populations fare in the face of various developments — such as the large-scale commercial logging taking place in lowland Gulf Province.

Species numbers will only increase. In a recent short survey of frogs and reptiles in Lake Kutubu, Gobe and Kikori areas, Steve Richards, a curator from the South Australian Museum, collected 29 reptiles and 62 types of frogs, of which 15 species are probably new to science.

The WWF Kikori ICDP constituency stretches from the Doma Peaks near Tari in the Southern Highlands to the Gulf of Papua. Stretching from the highlands to the coast, an area of approximately 2.5 million hectares, it encompasses the catchment of the Kikori River and also includes Mt Bosavi.



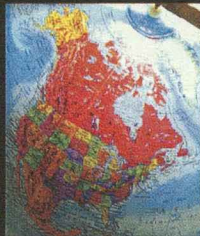
## DID YOU KNOW?



Big, big Australia has about **1,000** different kinds of orchids.



Big, big North America has only about **150** different kinds of orchids



That's a total of **1,150** kinds of orchids.



But little PNG has more... lots more! In our forests grow at least **3,000** different kinds of orchids, more than any other country.

*We're the clear winners in this competition with the developed countries..*

*And this isn't a 'samting nating' resource. Orchids are the most popular flowers in the world. People everywhere love orchids.*

*Many people come to see PNG's amazing orchid diversity for themselves.*

*So... are we looking after those special natural resources that put us on top? How?*

The project has been supported by Chevron Niugini Limited from 1995, when almost all costs were borne by the resource developer, till today when they fund only a third of the annual budget. This close and mutually beneficial partnership was one of the first worldwide between a conservation agency and a multinational oil company.

*We realised that although we were doing a lot of work preparing materials for distribution to local villagers by our extension patrols, there was a need to find a better way to disseminate information,' said conservation science officer Ted Mamu.*

*At about the same time it was noticed that the few posters that had been produced were popular with staff of the nearby Chevron Niugini camp. 'We soon became aware that the posters were becoming popular with many organisations including schools, community groups and other NGOs all over the country and it was hard to keep up with demand, said Max Kuduk.*

One of the capabilities that the organisation has been building up over the years is that of community outreach/publications – made more possible with the ever-decreasing cost of desktop publishing. Cain Lomai, the WWF Kikori ICDP community outreach coordinator, is now kept busy colour printing and laminating A4 and A3 posters for distribution to the villages in the ICDP operational area as well as schools and NGOs all over the country. It is felt that this work will pay long-term conservation dividends.

## PNG – A World “Megadiversity Hotspot” !

PNG covers less than 1% of the world's land.

Yet, scientists believe that PNG is home for around 7% of all the kinds of plants and animals in the world!

PNG has the world's most species rich coral reefs. It's forests are also packed with wildlife.



*PNG has more than its fair share!*

The fact that we're in the tropics is one reason why PNG has so much wildlife. Just as importantly, we haven't destroyed our land the way people in other tropical countries have.

Will we do what it takes to look after our world class resource?

Or will we let it slowly disappear until we have lost one of the best thing to keep us from becoming a *samting nating* country?

***It all starts with your clan,  
on your land.***

## Fishes of the Kikori Basin... More Unique Kinds Than Anyplace Else in Papua New Guinea!

When scientists collected fishes in the streams and rivers of the Kikori Basin, they found that out of all the river drainage system in the entire island of New Guinea, the Kikori Basin river system had more kinds of fish found no place else in the world.

The first blind fish (no eyes) discovered in New Guinea was discovered in the rivers that run underground in the Kikori Basin in 1995. Fish with no eyes! They spend their whole lives in the dark!

One reason why the Kikori Basin is such a special place for fish is because the forests still hold the soil from washing into the rivers.



Are the Kikori Basin's fish important enough to local people so that they will keep looking after their habitats?



***Wanem samting bai kamap long taim bihain long laip bilong ol spesol pis i stap long bikpela eria Kikori? Em i stap long han bilong ol papa graun husait i bosim yet ol samting bilong bus, graun na wara!***



**It's the Largest Moth In the World!**



It's called the Hercules Moth and it lives in many parts of Papua New Guinea. Have you seen it?



PNG has a lot of plants and animals that are very special. Many are found no place else in the world... only in PNG!

These things aren't about money.

They're about pride -- *bikpela amemas long of spesol samting i stap long kantri bilong yumi.*

**PNG's special wildlife...  
ol samting bilong PNG i winin olgeta narapela kantri.**

**DID YOU KNOW ?**

Big, big Australia has about 300 kinds of butterflies



But little PNG has more -- a lot more -- than that! There are at least 900 kinds of butterflies known from PNG, with more species still to be discovered. Three times more butterflies in little PNG than in big, big Australia!



The world's largest butterfly... only in PNG!

We're the clear winners in this competition with the developed countries...

And this isn't a 'samting nating' resource. People come to PNG to see the world's largest and second largest butterfly and other wildlife. So... are we looking after those special natural resources that put us on top? How?

**The Second Largest Butterfly in the World!**



It's called the Goliath Birdwing butterfly. Very big! The female is larger than the male -- it's the female that has this world record! Found only in a few areas of New Guinea. Yet known from many areas of the Kikori Basin up to Lake Kutubu and Bosavi. The Goliath birdwing lives and reproduces in big bush forest areas.

What happens to the Goliath birdwing if the big bush forest is destroyed?  
*Em i narapela samting bilong yumi long wile bilong olgeta narapela kantri.*

Max Kukuk and his WWF Kikori ICDP team recognised that they needed to look at alternative ways to disseminate their community messages to the largest possible number of people. Posters alone would not be enough. Project staff also made regular appearances on the Southern Highlands and Gulf Provincial radio stations to provide information and advice on their activities.

Now all the information on the posters and more detailed reports are 'burned' onto CDs for distribution to schools and other agencies with computers.

The same images and data have also been put on the WWF South Pacific web site for those who have Internet access. In time WWF PNG will have its own website. The costs of production and distribution of the posters, CDs and other reports are currently being met by bilateral aid funding, but like any aid agency WWF is always on the lookout for additional donors!



**PNG is #1 in the world for orchids. Most PNG orchids live in big bush. If you destroy your big bush, you destroy most of your orchids.**

**PNG's world famous orchids. Something worth keeping?  
*Dispela samting i stap long han bilong yumi papa graun PNG tasol!***

**Business or Travelling in Papua New Guinea?**

The screenshot shows the 'PNG Business Directory' website. The browser title is 'PNG Business Directory - Microsoft Internet Explorer'. The address bar shows 'http://www.pngbd.com'. The website content includes a search bar, a 'Welcome to Papua New Guinea Online Directory' message, and several menu categories: 'Business & Economy' (Exchange Rates, Share Prices, Business Guide, Consumer Price Index, Business and Economic Data, General Elections, Candidates, Income Tax, Employment Opportunities, Business Forum), 'Travel & Tourism' (Tourism Guide, Flight Schedule, Photos & Scenery, Hotels & Accommodation, Restaurants, Air Niugini Specials, Qantas Specials, Travel Discussion Forum), and 'Information Desk'. There is also a 'What's New' section and a 'Bank South Pacific' logo.

When you need information on Papua New Guinea whether it is for your business or personal finance, pngbd.com has the information at a mouse click.

When you want to travel to Papua New Guinea, check out pngbd.com for photos and travel guide.

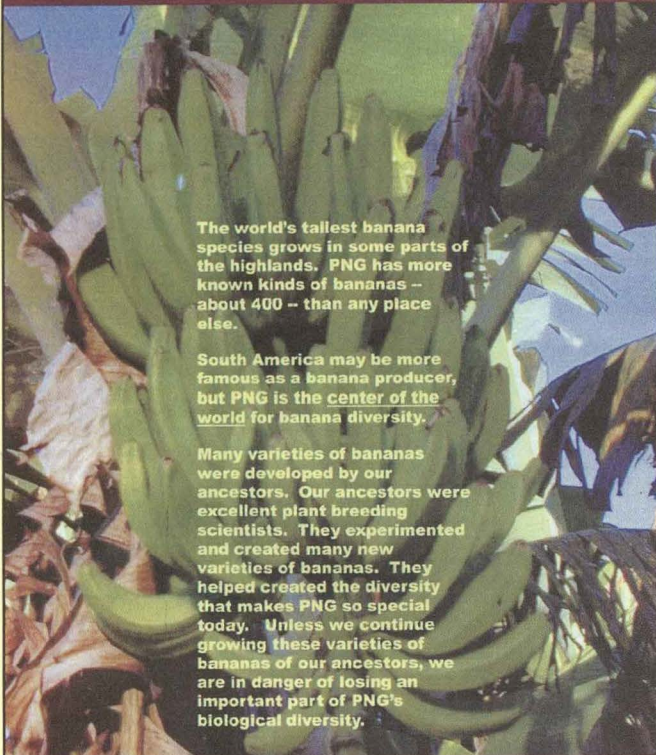
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**www.pngbd.com - find it here!**





## PNG: The World Winner ...In Bananas!



The world's tallest banana species grows in some parts of the highlands. PNG has more known kinds of bananas – about 400 – than any place else.

South America may be more famous as a banana producer, but PNG is the center of the world for banana diversity.

Many varieties of bananas were developed by our ancestors. Our ancestors were excellent plant breeding scientists. They experimented and created many new varieties of bananas. They helped create the diversity that makes PNG so special today. Unless we continue growing these varieties of bananas of our ancestors, we are in danger of losing an important part of PNG's biological diversity.

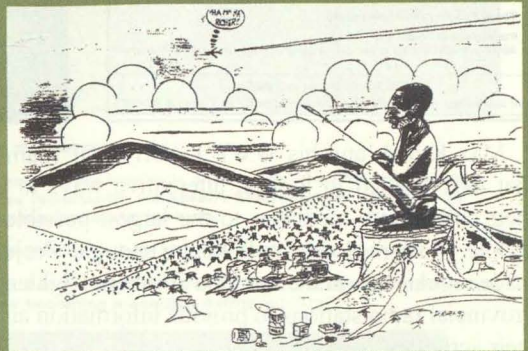
**Papua New Guinea's  
World Class Biological Diversity...  
Do We Treasure It Enough To Conserve It?**

## Sapos bus, graun na wara i bagarap bai nogat tru tru developmen !



Bai yu stap olsem tarangu lain sapos bus, graun na wara i bagarap na olgeta samting insait long bus, graun na wara i pinis.

Taim yu hangre long moni bai yu painim sindaun na laip bilong yu i bagarap na hat moa.



**Yumi yet mas bosim na lukautim  
laip bilong yumi!**

So ... whether you want to check on how Ted Mamu is progressing with his radio tracking of black tailed melomy rats in the Kikori swamps or just download a poster for the school classroom — this information is now quite easily available thanks to WWF.



### The New Guinea Flightless Rail... One of the World's Rarest Birds!

People in the Kikori area always knew this bird. They have local language names for it. They ate the eggs of this bird.

What they didn't know was how special this bird is. It's one of the last flightless rails surviving in the world. Not only that, the Kikori area is one of the best places to see the New Guinea Flightless Rail!



Two hundred years ago, many islands in the Pacific had their own special kind of flightless rail bird. But then Europeans brought rats and other animals to those islands. The rats ate all the eggs and today most of the world's flightless rails are gone for good.

The Kikori people always did a great job of taking care of the flightless rail. Now that times are changing, will Kikori people do whatever is necessary to make sure this world class resource survives as *samting spesol tru bilong Kikori*? It's all in the hands of the people of the Kikori Delta area!

### The Only Bird in the World..



...known to sleep underground,  
...lay eggs and raise its young underground,  
...while running on top of rugged limestone karst like a rat during the day!

This bird is called the GREATER MELAMPITTA. The Kikori Basin is one of the few places in the world where this bird lives. It is heard more often than it is ever seen.

*Wanpela spesol kain pisin tru bilong bikpela graun Kikori na Kutubu!*

### The Palm Cockatoo... Going, going, .... ?



One hundred years ago, this *biakpela koki* was found commonly throughout lowland PNG, especially near water.

But after World War II, shotguns started coming into villages and these birds were easy to shoot. You could kill every Black Cockatoo on your land if you wanted. Some clans did. Now Black Cockatoos are gone from many areas of PNG where they were common before. The Kikori area is one of those places where Black Cockatoos are still common.





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## PNG's only Quality Assured Catering Company



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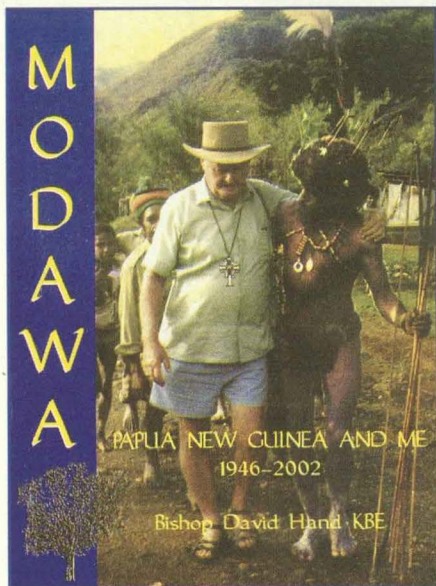
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## Book Review



*Recently Bishop David Hand launched his book 'Modawa'. Sir Mekere Morauta wrote the Preface to this interesting epistle of memories.*

I was greatly honoured when Bishop David Hand asked me to write the preface to Modawa, his personal recollections of his 56 years of life and service in Papua New Guinea.

Anyone who has had the good fortune to know David Hand has been blessed. His intellect, wisdom, kindness and commitment to the people of Papua New Guinea exude from him. Anyone who has had the good fortune to visit Dogura cannot fail to be inspired and impressed by the soaring cathedral, standing by the majestic modawa tree, which provides the title of this book. To me, the two landmarks symbolise the history and achievement of Anglicanism in Papua New Guinea. There could not be a more appropriate title for the book.

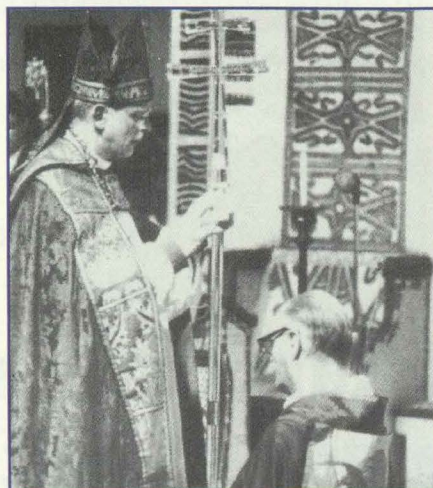
The Christian Church has had a significant influence in the shaping of our modern nation, an influence realised through the work of many expatriate missionaries who have lived and worked with us as well as through the work of our own people. In the Anglican Church of Papua New Guinea no missionary has had greater influence than has Bishop David.

As a priest and a bishop he has walked the length and breadth of the country. In the 1950s many of these journeys on foot led him into areas where few strangers had ever before walked. This is his account of those journeys.

Later, as the first Archbishop of the Anglican Church of Papua New Guinea, David Hand worked to give substance to his vision of the church being a truly national church, not a dependent mission of the church overseas. One of the fruits of his work was that his successor as Archbishop was Bishop George Ambo, from the Oro Province.

The history of our country extends over many thousands of years, but only the last two hundred years are recorded in print. This book is a valuable contribution to the documents of our written history. In it we see some of the vision and the efforts that have been made to bring our nation to its place in the modern world. Modawa is, therefore, a contribution to the history of our nation as well as to the history of the Christian Church in Papua New Guinea.

I hope that many people, both here and overseas, will read this book, as the reading of it will increase understanding of our country and of our Christian heritage. I hope the book will also inspire a new generation of Anglicans to carry on the work of those like Bishop David, who have contributed so much to the spiritual and material development of our nation.



*Left: David blessed by Donald, Archbishop of Canterbury on Installation as First Archbishop of PNG, Dogura 1975.*

### ROWAN CALLICK

*Asia-Pacific Editor, the Australian Financial Review*

Bishop Hand's is an extraordinarily involving story, from whichever way the reader approaches it: the encounter between tribal people and the world beyond; an intimate account of development as Papua New Guinea struggles at the cusp of modernity; the last great heroic tale of missionary action; an elegy for an era of cheerful self sacrifice; and a psalm of praise to the God who has seen Bishop Hand and his Anglican Church of PNG come through more trials than most of us could imagine.

### GEORGE AMBO

*First National Anglican Bishop and former Archbishop of the Anglican Church of PNG*

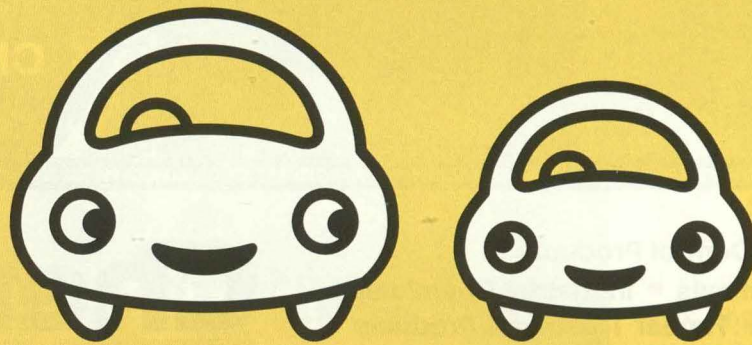
I met Bishop David when I was a young teacher. I saw him sitting and eating with Papuans. A European Priest sitting and eating with the Nationals was new and unusual and that really impressed me.

Whilst sitting and eating together with his people, he tried his best to learn our languages. This was very inspiring to some of us. When I became Bishop, I began to know and understand that his heart was for the Church of Papua New Guinea.

Before Bishop Philip Strong left Papua New Guinea, there was an Opinion Poll for the new Diocesan Bishop. There were white and brown Committee Members. All Papuans voted for Bishop David. I was a lucky assistant Bishop to work alongside him. He guided, directed and taught me a lot about a Bishop's work. My relationship with him grew and became stronger and also his respect, honour, love and trust in me was so real and true. As the years went by I had full confidence in Bishop David. I tried to love and have great faith in him, as nearly all Papua New Guineans had.

Bishop David's love for our Country and the Nation is a proven true love from God. Because of this, he is still living here with us, and above all he has made his will! That he be buried at Popondetta.





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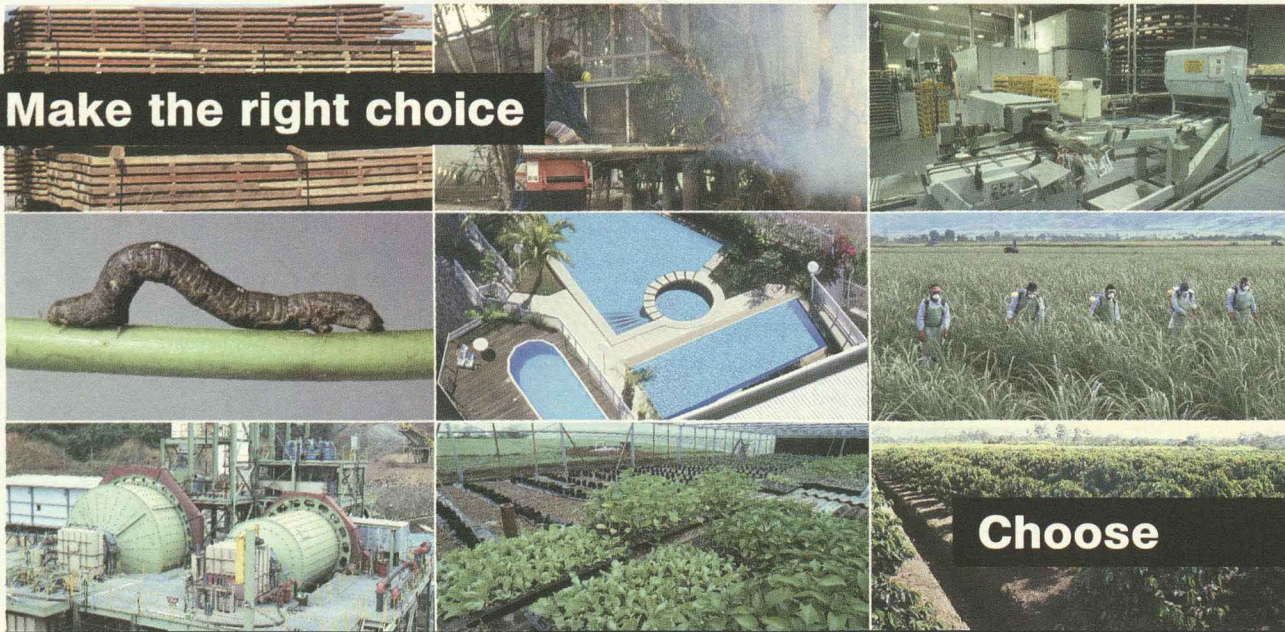


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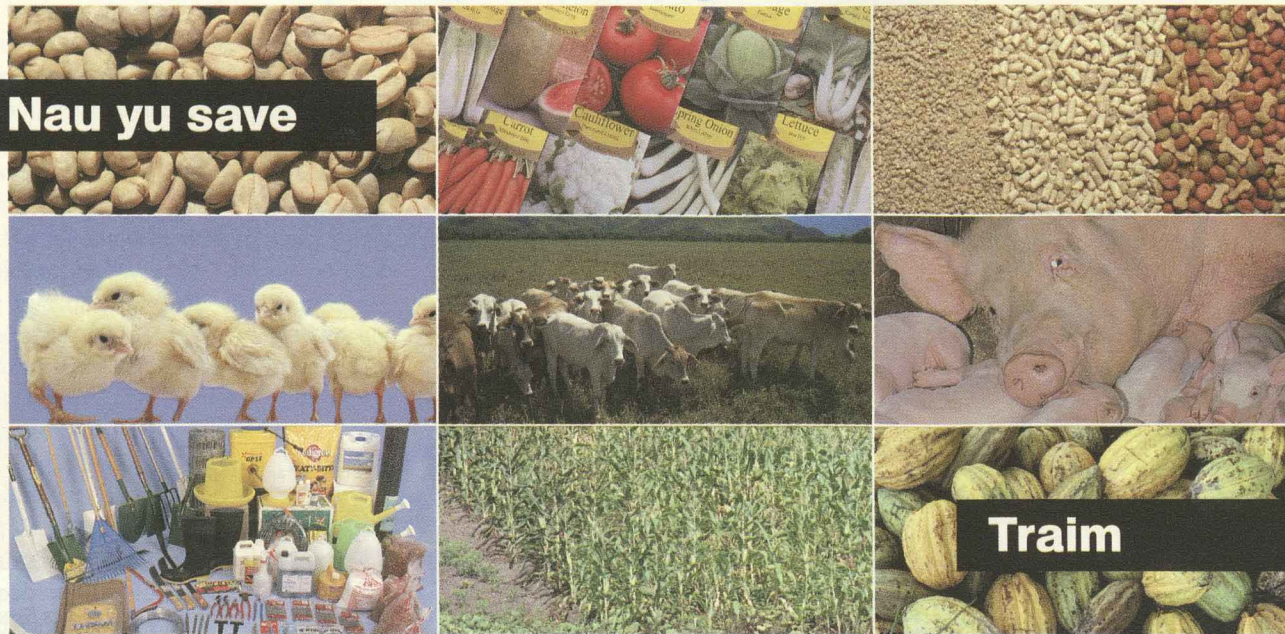
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# Chemica



# National Mask Festival

Photographs  
of festival in 2001  
by Mahendra Blackman



**R**abaul will host the National Mask Festival this year on 26 and 27 July, with a week of entertainment and 'warwagira'. This annual event promotes the country's wide variety of masks and the cultures of which they are an intrinsic part.

The Mask Festival in Queens Park is a festival in every sense of the word — fun, laughter, goodwill, good food and a celebration of traditions. This year's festival is expected to attract even larger crowds and performers than last year, which featured 26 groups from 8 provinces.





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Keep your fluids up! Drink plenty of bottled water

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

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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.

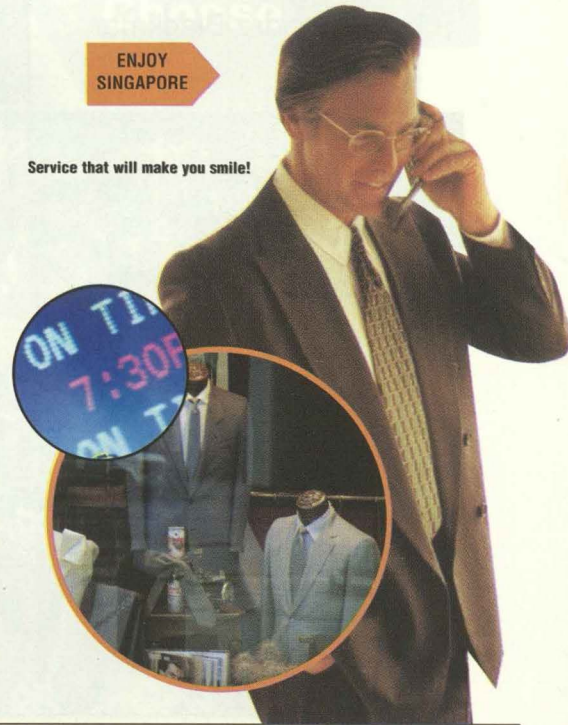
Singapore has amazing temples, and festivals all year round. It truly is the city of entertainment.

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# Medical information

Inflight health tips and exercises

## 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:

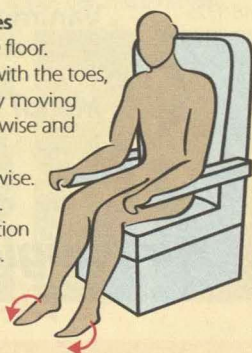
- Get a good night's rest before your flight
- Arrive at your destination a day or two early, if possible, to give your body a chance to become more acclimatised to the new time zone.
- Fly direct to minimise flight time, when possible. This allows you to relax more upon arrival.
- Leave your watch on 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

## 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.

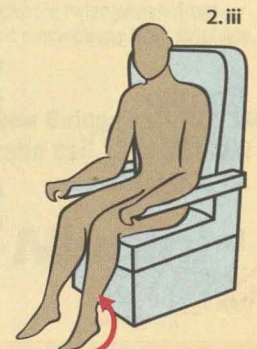
### 1. Ankle Circles

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

Inflight health tips and exercises

different 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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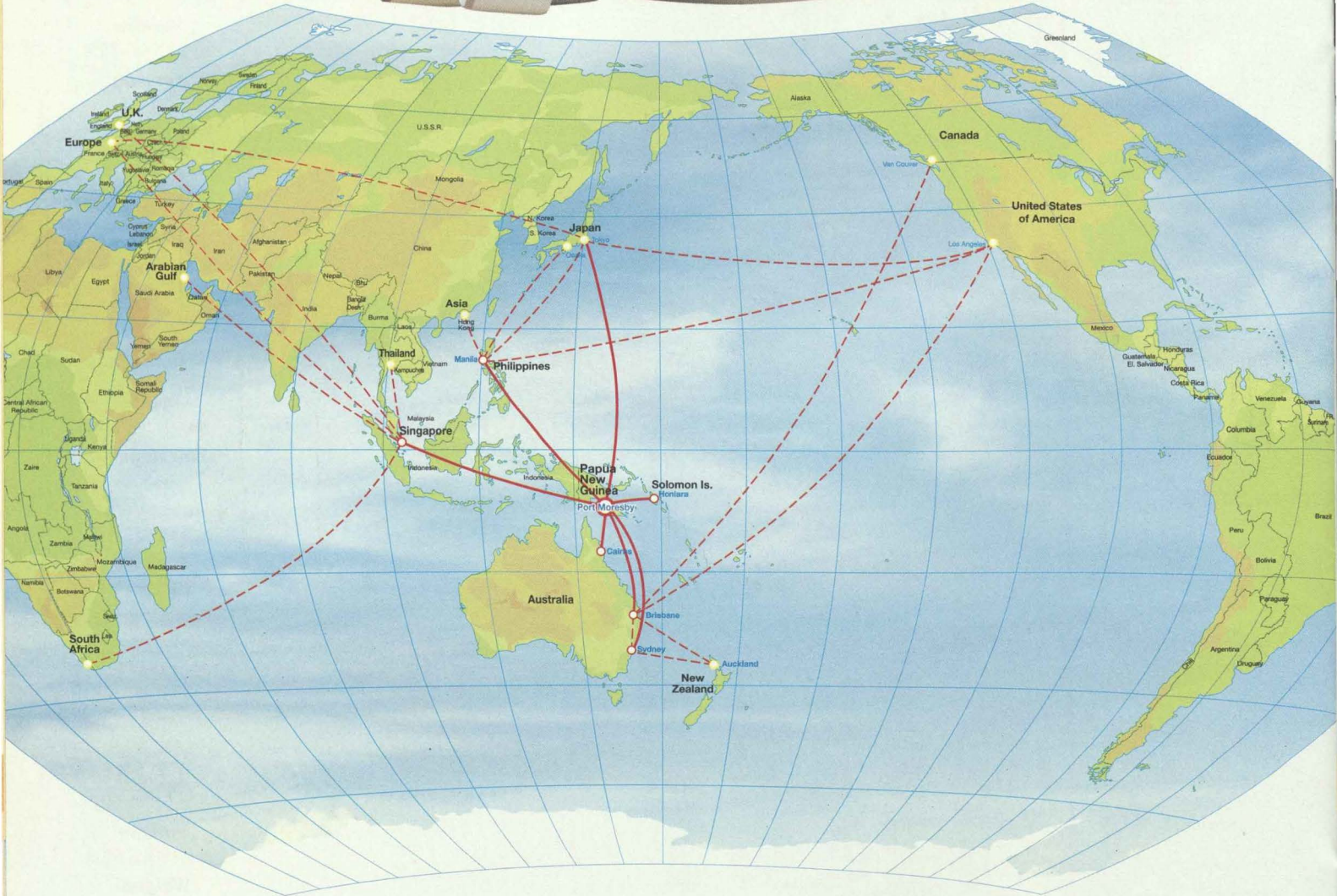


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## Welcome to the Zumin Pottery and Cultural Show

Story and photographs by Susan Turner

The most prolific and well known of the Markham Valley potters are the Adzera, who live at the upper end of the long, wide valley near the villages of Kaiapit and Zumin. Their work, commonly known as Zumin pottery, is distinguished by fanciful animal figures that cling onto the sides and peek into the pot.

Until recently, you were lucky to find a fine example of a Zumin craft in a Lae or Port Moresby shop. Now, at the Zumin Pottery and Cultural Show, you can not only purchase pottery from the makers themselves, but watch demonstrations and sample local food.

Although my Adzera hosts had not received my letter telling them of my pending arrival, they greeted me and my two travelling companions warmly. After a good meal of local produce, an old *Paradise*, carefully preserved in plastic, was passed around and my former efforts praised. It was soon agreed that I write another article about the show.

Sunday morning, a couple of days after arriving, we carried *bilums* (string bags) full of goods to sell from the village of our hosts to Zumin. The show area was decorated with flowers. Several families displayed a variety of cooking and decorative pots, as well as charming clay figurines and traditional coconut shell spoons and bowls.

In the Markham Valley, it is the custom for women to dig clay from foothills of the distant Kratke Mountains, and prepare it for shaping and firing by the men. Before the first visitors arrived, a man and his wife began demonstrating the local pottery-making technique.

The woman placed a large lump of fresh clay on a flat board and began beating it with a moistened wooden mallet. Occasionally she paused to pick out impurities such as a bit of organic matter or a tiny stone, which would cause the pot to crack or explode during firing. When the clay became a flat sheet, she folded it several times and began again. After about 40 minutes, she formed the clay into handy 1.5-kilo *gur* (loaves of clean clay) and tightly wrapped them in banana leaves for later use.

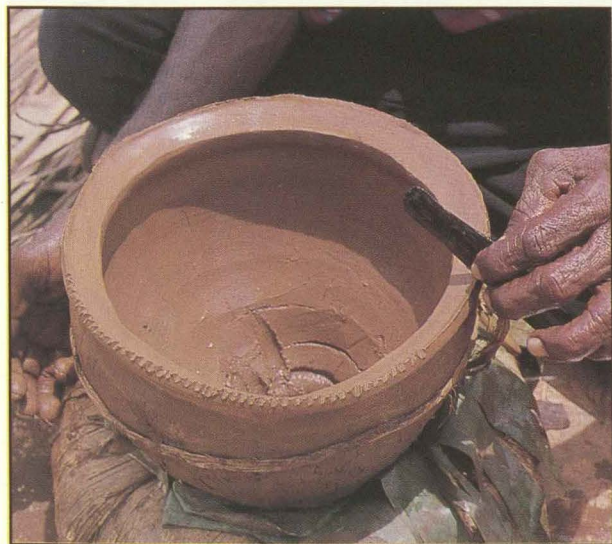
On my first visit to the area years before, it had been explained to me that in Adzera, the local language, *gur* was not only the name for these lumps of clay, but also for clay and clay pot. The number or *gur* used also refers to the size of the pot. Thus, you can use a 'three *gur*' for a small meal or a 'six *gur*' for a feast.





Above: A paddling stick and two loaves of clay ready to be made into a pot

Below: Adding teeth to the rim of a pot



The man selected one *gur*, which he rolled into a long thin sausage, and coiled into a disc to form a base. He quickly built up the sides with more rolled clay while joining the layers with his thumb and by paddling with a flat stick. He then supported the outside of the pot with one hand while shaping it from the inside with a piece of wet, polished coconut shell. The pot grew wide, a shoulder tapped into shape and trimmed, and it was set out to dry for a short while. The whole process did not take more than 20 minutes.

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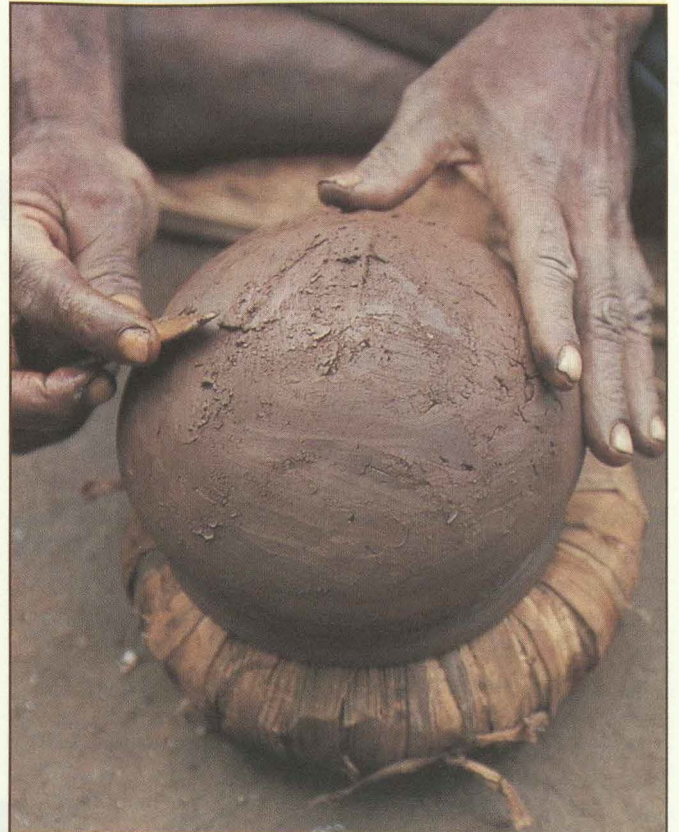
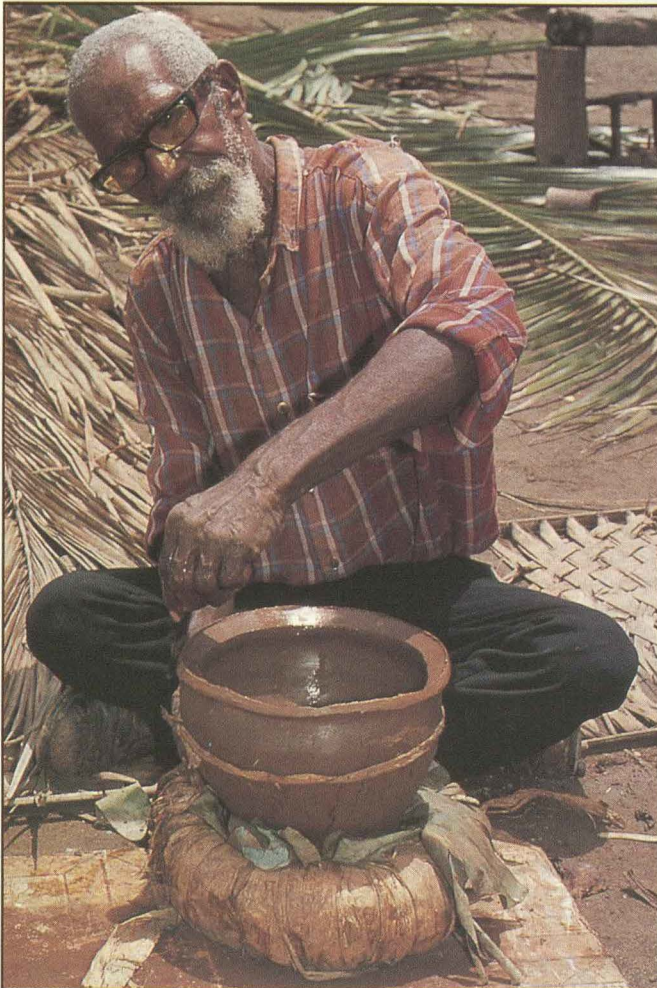




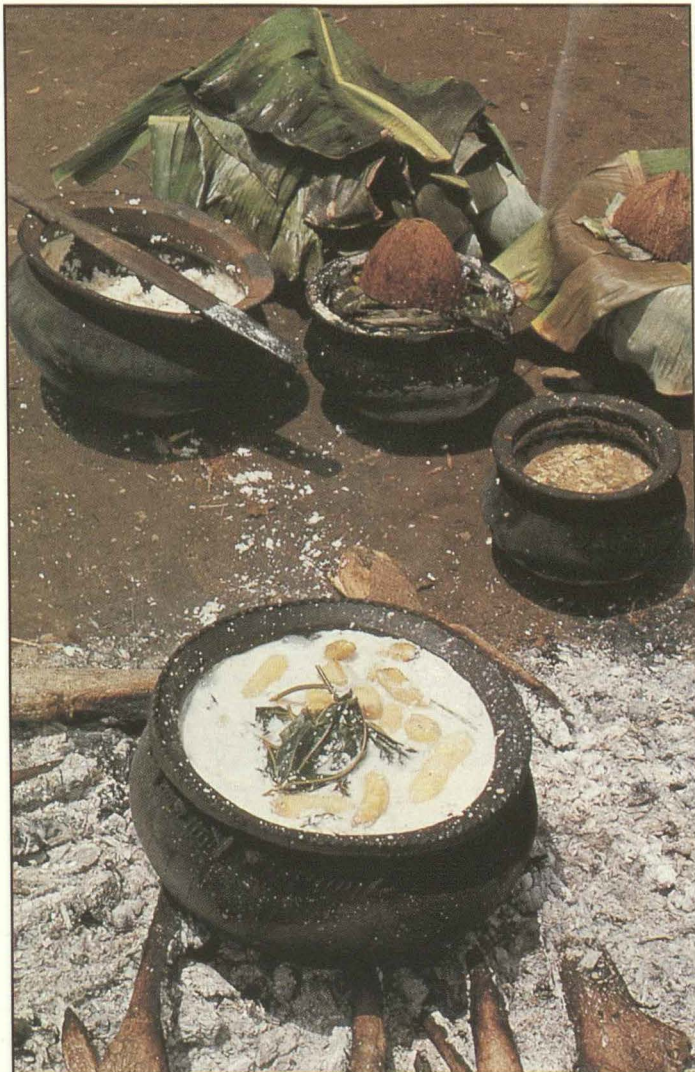
*Above: The man shapes the rim of a pot by gently paddling while the woman prepares the clay.*

*Left: Forming the outer rim of a pot*

*Below: Smoothing the bottom of a nearly finished pot*







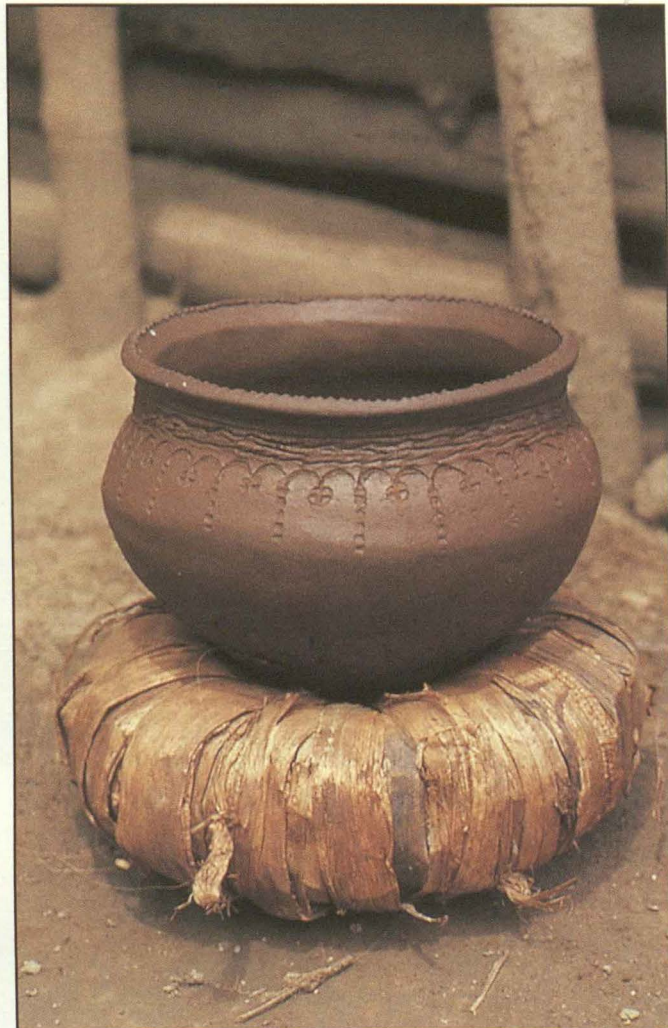
Above left: A pot full of cooking bananas, aibika and coconut cream

Above right: Finished pot set out to dry in the sun

Using fingernails, tiny, serrated sticks and dabs of clay, the pot was soon decorated with a combination of popular motifs such as centipede tracks, python skeletons, imaginative insects, wasps' eyes and pigs' breasts. If handles, in the form of an animal, such as a flying fox or frog, had been added, it would have become a *gur aniang* (a pot for cooking meat). The potter explained that it would need to dry for one to three weeks before being 'baked' over an open fire.

By the time the first visitors arrived, more people had joined in the demonstrations, and girls were cooking a small feast — in clay pots, of course! Most visitors sampled the delicious bananas, chicken and scrapped cassava wrapped in aibika leaves, all of which had been cooked in coconut cream.

The visitors carefully examined and debated the merits of the items for sale, and everyone seemed to find something to carry home. I did, though, wonder how many of the *gur* bought would ever be filled with rice or vegetables, and set over an open fire. After the last of the visitors had gone, we plunked ourselves down in the shade of a huge tree. In typical Papua New Guinea fashion, we polished off the last of the meat while discussing the events of the day.



**The Third Annual Zumin Pottery and Cultural Show will be held in Zumin on Sunday, 8 September, from 10am to 4pm.** The village is on the Highlands Highway, about a one and half hour drive from Lae. Visiting the show is a fun way to spend the day, while experiencing village culture and life.

Everyone is welcome!

For more information, please check the PNG Tourism Authority's website: [www.paradiselive.org.pg](http://www.paradiselive.org.pg) or with the Morobe Tourism Bureau.

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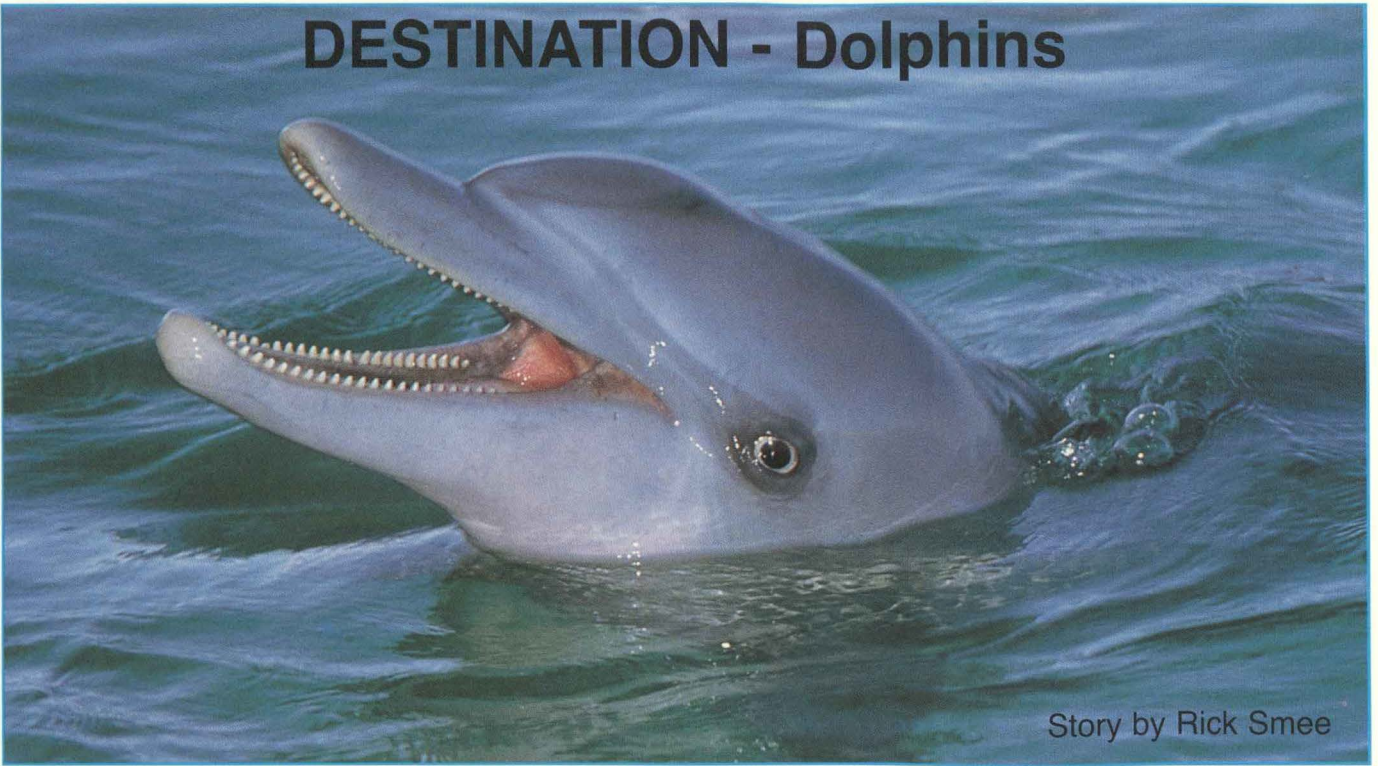
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## DESTINATION - Dolphins



Story by Rick Smee

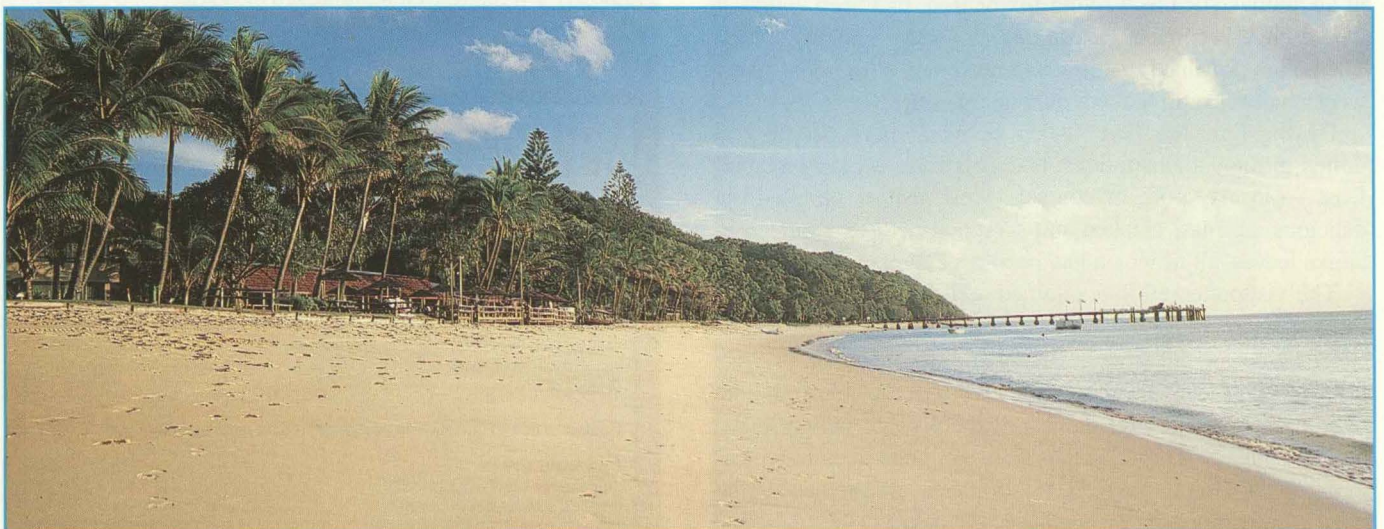
**T**angalooma Wild Dolphin Resort on Moreton Island has received international renown for whale watching and its nightly handfeeding of Bottlenose Dolphins. Just one hour by boat from Brisbane, Tangalooma is ideal for short or long breaks.

Various types of Bottlenose dolphins are found around the world. Some are migratory and travel thousands of kilometres back and forth across the oceans. Others are 'resident' and spend their lives entirely within one area, such as the pod that has made Tangalooma its home.

Like Fraser Island, Moreton Island is a sand island and a National Park, where apart from handfeeding dolphins, guests have the option of a wide range of activities including tennis, squash, sailing, surfing, archery, fishing, sand tobogganing, scuba and snorkelling. The 180 unit, low-rise resort features an 'A la Carte' Restaurant, Bistro and Coffee Shop. There is also a marine research and education centre.



*Villa on the beach at Tangalooma*





On the Gold Coast, about one hour by road from Brisbane, Sea World offers visitors a chance to swim with dolphins. There are two programmes — one for adults; another for children aged 4 to 13 years.

Breathtaking dolphin displays and presentations (*photo below*) can be viewed in comfort at Dolphin Cove, and are presented twice daily by Discovery Channel. Dolphin Cove features the large filtered natural sand bottom lagoons exclusively built for dolphins. The five pools contain in excess of 30 million litres of water. Each lagoon has been meticulously designed as a natural ecosystem. Teeming with fish and other marine life, the lagoons have extensive reefs and rocky outcrops, set amongst lush, tropical gardens.

Sea World Chief Executive Officer John Menzies said the lagoon system creates an environment close to the dolphin's natural habitat. More than 36,000 students come to Sea World each year to further their marine educational studies.

Sea World has recently commenced a research project to discover whether Bottlenose Dolphins are capable of forming the concept of same/different matching. Initial research conducted in Hawaii has demonstrated that dolphins can perform identity MTS (Match to sample tasks). Up until now only humans and chimpanzees have been known to have the ability to perform these tasks.

Dolphins are warm-blooded marine mammals that breathe air and feed their young milk. Whales, dolphins and porpoises are known as *Cetaceans*, a word which comes from ancient Greek and means 'sea monster'. Around 15 to 20 million years ago much of Australia was covered by forests, lakes and rivers. Recently a dolphin fossil from this era was found in Lake Frome, South Australia. Similar freshwater dolphins still exist in China, India and Brazil.



## Photo Competition

Send a **photograph** on any subject to **Fotofast Photograph Competition, PO Box 1267, Port Moresby**. The photograph should be viewed in portrait shape, like the winning photo on page 55, not in landscape shape like the photograph above this paragraph. 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.



Dolphins are among the fastest and most agile creatures in the sea, due to a muscular tail which is so powerful it enables them to stand out of the water. Their smooth, rubbery skin reduces drag and allows water to flow freely over their streamlined bodies. In efforts to increase speed, they often leap out of the water. The lower jawbone is thought to capture sound and carry it directly to the creature's inner ear. The ear itself is about 5-6cm behind the eye and just 2-3mm in diameter.

The eyes of the dolphin are safeguarded by a slippery secretion, which protects against water friction and foreign objects. In order to sleep the dolphin must shut down only half of its brain. It takes short naps near the surface, occasionally rising to breathe. The dolphin breathes through its blowhole, which is located on top of the head. It can empty and refill its lungs in one fifth of a second, and stay submerged for up to two hours. Water is expelled at more than 100mph. Powerful muscles close the blowhole when the dolphin dives. Dolphins can swim at speeds of up to 30 kilometres per hour and dive to depths in excess of 300 metres.

The dolphin's eyesight and hearing are highly developed and its echolocation (sonar system) is used to locate fish by transmitting pulses and clicks. Dolphins communicate with each other by squeaks, whistling and body language. It is thought that each dolphin has its own individual signature whistle. Most dolphins live in groups (pods) and hunt as a pack, herding schools of fish into shallow water or surrounding them prior to the feeding frenzy. Often a pod will come to the aid of a dolphin in distress and support it with their bodies, enabling the distressed creature to breathe. Pods of one particular species (eg Bottlenose) often adopt orphan calves of another species (eg Spinner or Spotted dolphins).

Gestation takes about 12 months and the young dolphin calf is about 90-130cms long at birth and suckles for up to four years. A female dolphin will have up to eight calves in her lifetime. The young calf is often at risk from killer whales and sharks. Killer Whales are in fact the largest member of the dolphin family. While other species of dolphin feed on fish, squid and octopi, the Orca or Killer Whale feeds also on other marine mammals like seals and small dolphins.

Dolphins are toothed whales. Around 37 different species of dolphins and six species of porpoises are found in the oceans of the world. The major difference between dolphins and porpoises is that porpoises have no snout and their teeth are flat compared to the dolphins, which are cone-shaped. The Bottlenose is probably the best known dolphin due to its exposure on television (Flipper), films and books, and in marine parks. The Bottlenose grows to about four metres and is known as an extremely intelligent and inquisitive creature.

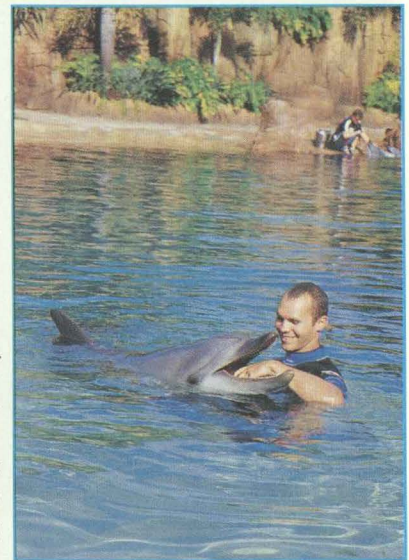
Stories abound about interaction between dolphins and humans. 'Pelorus Jack' first broached the clear blue waters around Cook Strait, New Zealand in the late 20th century. For more than 20 years he would escort ships back and forth between Wellington and Nelson guiding each to safety through a dangerous passage.



*Trainers and dolphins at Sea World*

As he got older Pelorus Jack began to go missing occasionally, until finally he was not seen again. Another New Zealand dolphin nicknamed 'Horace' was actually seen to come to the aid of swimmers struggling in deep water in the 1970s.

In Brazil during 1994, 'Tiao' a three metres long, 230kg male bottlenose dolphin



would often come into shallow waters and interact with humans. Children would pat him gently and trust between human and dolphin began to grow.

However not all people are endowed with commonsense and compassion. In December 1994 two men abused the creature's trust by climbing onto his back and trying to push a popsicle stick down his blowhole. 'Tiao' responded the only way he knew how by butting both the men in the abdomen. One later died of internal injuries. It is the only known case of a dolphin attacking a human.

From the time of ancient Greece, pottery and murals depict man's interaction with dolphins. Records of dolphins helping sailors, fishermen and swimmers in distress have become legendary. Unfortunately these helpful intelligent creatures have not always been repaid for their spontaneous kindness.

Pollution and indiscriminate long-line fishing and netting continue to threaten many different marine species. Dolphins have come to symbolise grace, joy and freedom, so it is almost beyond belief that in this day and age, man could hunt such a beautiful and friendly creature.

*Until he can extend his circle of compassion to all living things, man himself will not find peace. Albert Schweitzer.*





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## Creative Writing by Maura Elaripe Mea

### Woman

Centuries come and go,  
generations come and go,  
but you are still known as Woman.

Woman, you are the beast of burden.  
You carry bilum load after bilum load.  
You fetch water bucket one after the other.

You are abused, beaten and insulted,  
but you never retaliate.  
Your heart is full of love for your little ones.

You are the early morning bird  
and the evening star.  
The household machine is what you are.  
WHO RESPECTS YOU?



Your man comes home, drunk and crazy,  
demanding his needs to be met.  
You give in out of fear, not love.  
Was that why you were created?

Then you find out later that you are  
the innocent victim of HIV/AIDS virus.  
What a blow!

How my heart goes out to you because  
you are still a WOMAN.



### Bundle of Joy

I gaze down lovingly  
at the pinkish little bundle  
in front of me.  
Looking up innocently  
into my eyes.  
I take her hand into mine  
and wonder  
'will you make it to the end?'

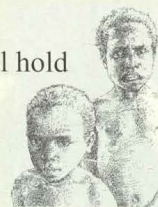
As the days turn to weeks  
I love my bundle of joy  
more and more.  
I smile and  
she smiles back ...  
reminding me  
that to live is to love.

I felt so guilty  
seeing you suffer.  
It was hard work  
bringing you into this world,  
but much harder for me  
when you're infected  
and struggling to keep this life  
that rightly belongs to you.

My bundle of joy  
I will remember  
your courage ...  
that last look  
you had in your eyes  
before you left me.

It's your way  
of telling me  
to be brave and  
to carry on with my life.

I miss you  
and someday I will hold  
my bundle of joy  
forever.



**BUNDLE OF JOY** is dedicated  
to all babies who have died of  
AIDS, especially my two babies.



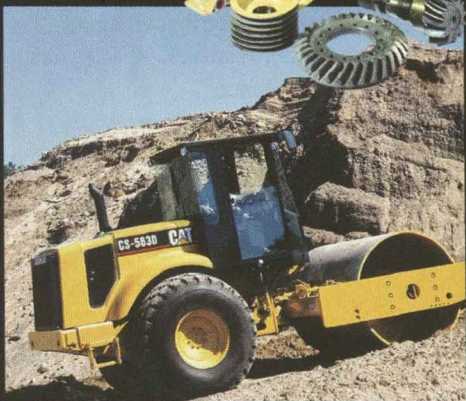
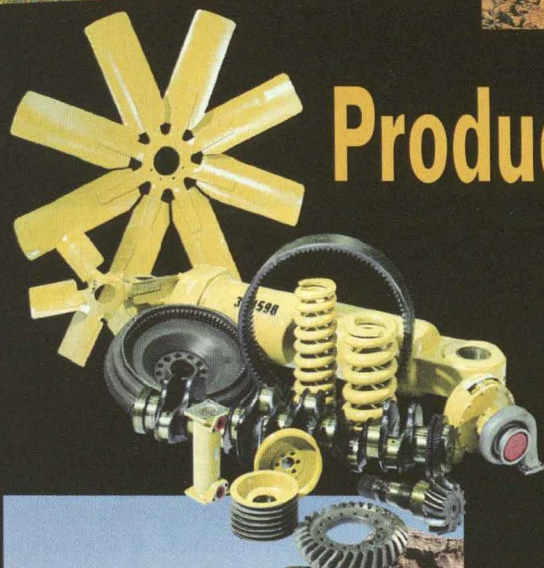
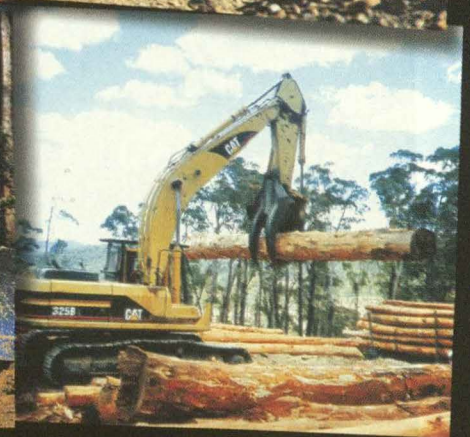
POSITIVE  
REFLECTIONS

Maura Elaripe Mea

*Positive Reflections* are personal reflections, dedicated to all people living with HIV/AIDS and appealing to people all over the world. This booklet of poems is an independent initiative supported by Maura and her friends. It has been facilitated by the DTP team of NGO in East Sepik. HELP Resources did the design and layout.

The booklet is K10 and is available from: Maino Peer Power Support Group, P O Box 6031, Boroko, NCD Papua New Guinea  
Mail orders should include an extra K2 for packing and posting. Discounts will be considered for bulk orders.  
Enquiries can be made to Esther Mirisa, phone +675 323 6161





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Story and photographs by Nancy Sullivan

**R**ecipe for a week off — fly to Wewak, enjoy a night at the Sepik International on the beach, catch a flight the next day to Ambunti, where after a night at Ambunti Lodge, you meander by canoe up the Sepik River.

When you stop at Ambunti Lodge, a simple cheerful establishment, pick up a couple of chairs for the canoe. Gather your foodstuffs, torches, water bottles and hats, then push off. Your canoe will have its own driver who will show you Avatip, Japandai and Pagwi within the first couple of hours.

The Upper Sepik is a quieter, more peaceful waterway than the Middle Sepik. It's here that you're more likely to see a crocodile sunbathing along the shore or kits gambolling and dive-bombing in the *pitpit*. Along with the ever-present cormorants and starlings, there are dollar birds, herons and egrets streaking across the river. Here and there an eagle soars high overhead. If you're not in a rush and you can cut the motor in time, you may even come across a cuscus perched high in a tree (*photo below*). This is the pace that villagers take when they travel to market or to visit relatives. It's the only way to see birds and wildlife in abundance.





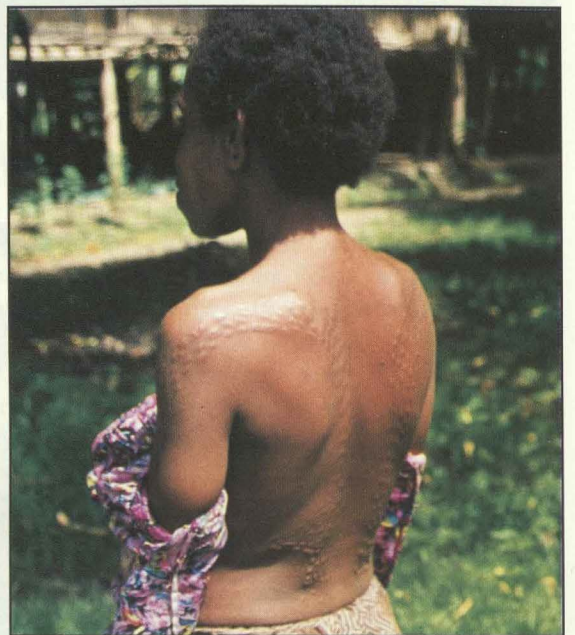


Families staying at riverside garden camps may even welcome visitors for the night, especially if you share your Maggi noodles, rice and tin fish. A good dunk in the river at dusk is more refreshing than you might think after a long day under the unyielding sun. Some village *haus tambarans*, like Yentchen's, sit right by the river-bank, and like the most handsome of private homes, present their stately facades to all the river traffic.

You may catch a health or political awareness meeting in one of these grand old *haus tambarans* (photos this page), which is one of their additional functions these days. Don't be startled to find women inside, because they are often invited into the ground floor for special meetings like this. Traditionally, the *haus tambarans* are for men only.







If the river current is steady, you may chug downstream quickly enough to reach Palimbe or Kaminibit by the afternoon of the second day. Here the people are much more accustomed to visitors, and they will lay out a full market with a wide variety of artefacts (*photos left and top*). Iatmul men will happily show you their initiatory skin cuts. In the Chambri Lakes you may even find a woman who has had her skin cut too (*photo above*). Nowadays, digital cameras have screens to display the picture instantly, which is very interesting for people who rarely see their own photograph.





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# Battling Ray Parer

Eric Lindgren

Colonial Papua New Guinea was a notoriously fertile ground for colourful characters who seem to be attracted to out-of-the-way places. Mercenaries, Missionaries and Misfits, some have called them. But Adventurers, Fortune-hunters and Aviators certainly took their share in earning this reputation.

Ray Parer was one of the latter, an aviator in the true meaning of the word, an adventurer in his exploits, and a fortune-hunter who never quite seemed to make it. Born before the dawn of flight, he lived to see the jumbo jets dominate aviation, and man land on the moon.

World War One catapulted the development of the aeroplane into the 20th Century. A flourishing business carrying mail and passengers was on the horizon, and the movement of freight was becoming a commercial reality.



Above: Ray Parer, aged 20 in a 1914 Bristol Box-kite aeroplane  
Left: Parer and John McIntosh, victorious after making the first England to Australia flight in a single-engine aeroplane

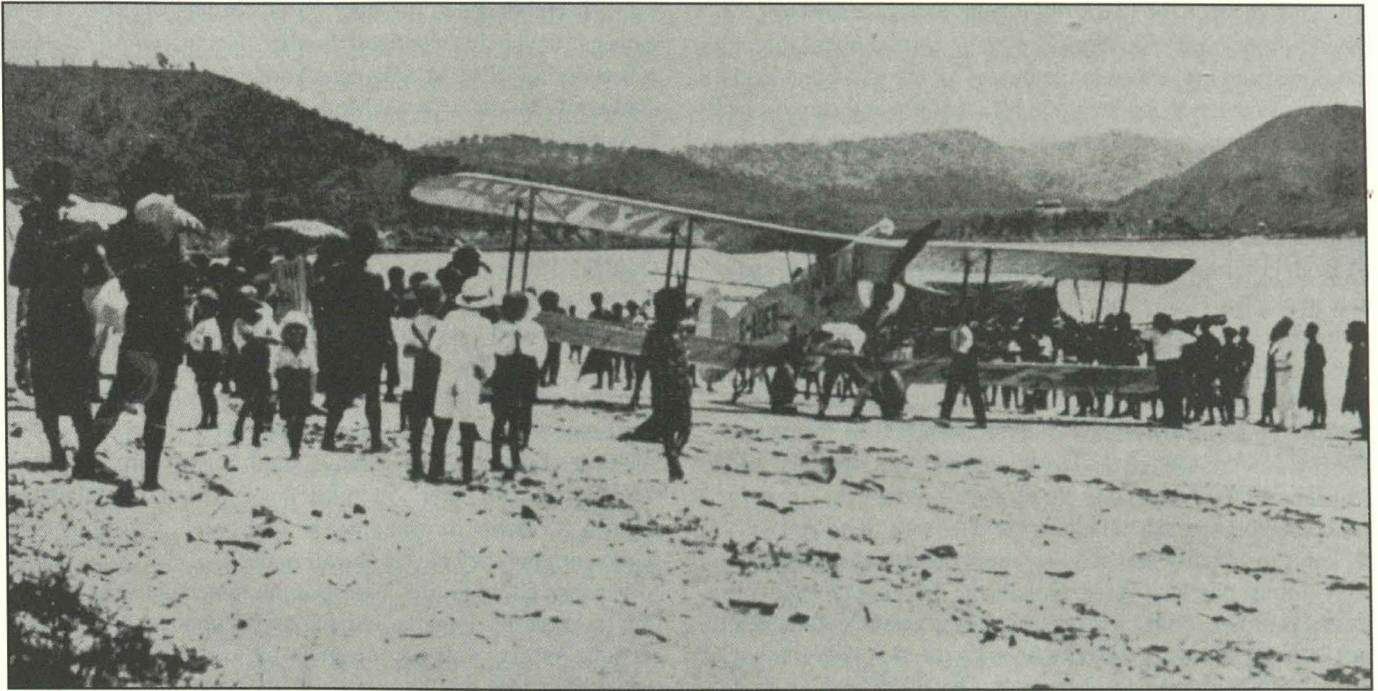
Parer longed to follow the pioneers, breaking records at a seemingly phenomenal rate. Pre-war it had been the English Channel, with Bleriot in a flimsy box-kite of a plane; post-war in 1919, the Atlantic was conquered when Alcock and Brown made the first direct flight from Newfoundland to Ireland. Soon the Smith brothers ventured from England to Australia in a WW1 surplus twin-engine Vickers-Vimy bomber, now on display at Adelaide Airport.

Laurance Hargrave, Ross and Keith Smith, Bert Hinkler, Charles Kingsford-Smith and Ray Parer were to represent Australia in the development of the world's aviation industry.

Parer learned to fly at Point Cook near Melbourne early in WW1. He served with the Royal Flying Corps in England and France, where he gained experience in a variety of aircraft while on duties as a test pilot, and ferrying planes across the Channel.

In 1920 he met Scotsman John McIntosh and immediately struck up a friendship. Their mutual love of flying led to them taking up the challenge put up by the Australian Government — to complete a flight from England to Australia, by Australians, in an aircraft made within the British Empire, in less than 720 hours, and in only one aircraft. Parer and McIntosh scrounged the entry fee of 100 English pounds, and hoped to win the £10,000 pounds prize money. Fortunately lady luck shone upon them as the whisky baron Peter Dawson agreed to sponsor the flight.





Parer's Bristol after landing on Ela Beach, Port Moresby, 1930

A De Havilland DH9 was bought for £900, flight plans were made and the pair eagerly awaited take-off day. Regrettably it was not to eventuate — the Smith brothers beat them to it in their twin-engined Vickers!

Nevertheless Parer and McIntosh continued as arranged, still with the backing of Dawson, and on 20 January 1920, took off from Hounslow Airfield in London. The journey was full of misadventures — fog in France, undercarriage torn off by an anthill in Tanganyika, rusty petrol supplies, forced landings in the deserts, rotting fabric wing coverings. Finally, on 2 August 1920, 206 days after leaving England, they landed at Darwin. While on the way to Mascot Airfield, Sydney, engine failure forced them to land on a beach near Newcastle. Repaired with the help of nearby steelworkers, the DH9 reached Mascot Airfield where a huge reception party awaited them.

Soon they were on their way to the official Australian reception in Melbourne. Fate dealt its hand again — near Albury engine failure forced an emergency landing. This time the ground was soft and the DH9 ended up on its back. An enthusiast loaned them a plane and the journey to Melbourne resumed. Here the Prime Minister Billy Hughes was presented with a bottle of the finest Peter Dawson whisky, flown specially from England in this, the first single-engine aircraft to fly from England to Australia. On the way Ray Parer had truly earned the epithet 'Battling'.

Parer established a number of commercial services in eastern Australia over the next few years but adventure beckoned.

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and wake  
up refreshed”*



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Gold had been found in great quantities at Edie Creek on Mt Kaindi near Wau. Supplies were being carried 80km through rainforest and mountains to the miners. Parer wanted to be the first to use aviation for freight in New Guinea and commenced exploring the possibility of establishing an airline there.

With financial backing from a friend, the Bulolo Goldfields Aeroplane Service Ltd was formed. Parer bought a DH4, smaller than his record-breaking aircraft, and had it shipped to Rabaul. From there he planned to fly it to Lae. Once again fate intervened — the wing of the plane was damaged as it was unloaded. Repairs were made and the DH4 taxied to take off. But one wheel hit a hole where a tree stump had been and the plane was badly damaged. Parer ended up in hospital. His dreams of being the first aviator to operate on the Bulolo goldfields were shattered. The honour belongs to rival 'Pard' Mustar, observer with Ross Smith during WW1, and operator of the newly established Guinea Gold's Aerial Service.

Parer eventually reached the Morobe goldfields. Here his easy-going personality appealed to the miners and his business prospered for a time. But, always an easy touch and never the businessman, he extended credit to unlucky as well as lucky miners and paid the penalty. By 1930 his air service was bought out by MorLae Air Lines and he was back to square one.

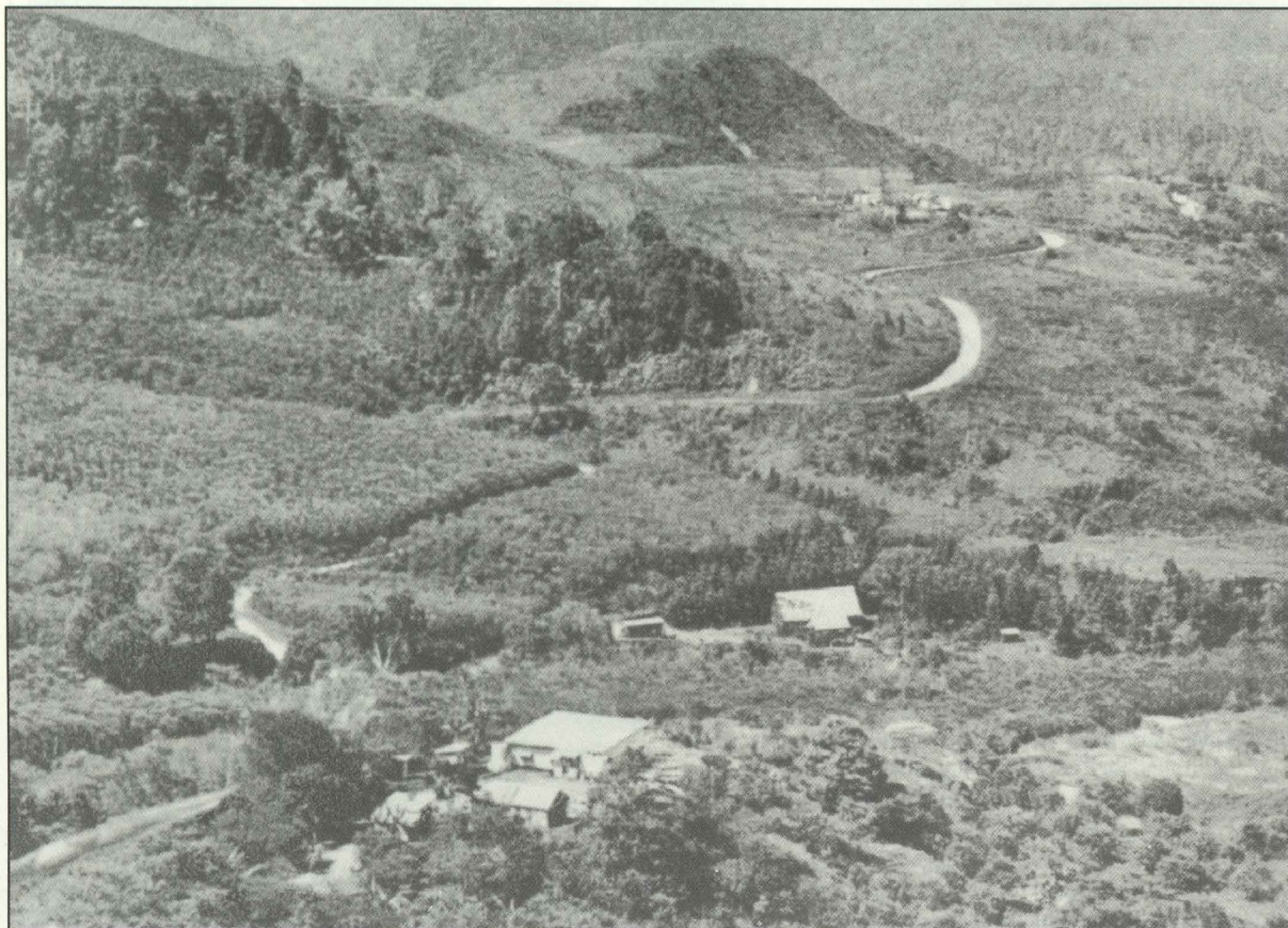
A friend stepped in and Parer formed Pacific Aerial Transport with his youngest brother, Kevin (who was later killed during WW2 at Salamaua ) and a number of others. A Junkers W34 and a Gipsy Moth formed the fleet. The flight from Salamaua to Wau took 25 minutes, compared to ten days overland. A Fokker F3 was soon purchased but crashed in March 1931 with Parer at the controls.

Parer was fond of telling stories of his times in Papua New Guinea.

One story involved a good-looking young man he met in the Papua Hotel. With a posh Oxford accent and a dare-devil personality, this individual seemed not to fit in with the hard drinking miners lining the bar. Constant remarks about his handsome face and his polished voice did not worry him in the slightest. Finally a loud derisive laugh roused him. 'Excuse me', he said to Parer. 'I must do something about those rogues. Please forgive me if I damage your airline's reputation, but they have gone far enough.'

He stepped up to the loudest of the miners and challenged him to repeat his remarks. Sizing up his opponent, the miner let out a mighty yell accompanied by a punch at the young man's head. He was met with a hefty uppercut and dropped stunned to the floor. One by one his companions fronted up, only to meet the same fate. A round of applause erupted from the remaining drinkers and the young man turned to face them. 'The accent may be British, but the name is Irish.' He proclaimed. 'The name is Flynn! Errol Flynn!'

*Road from coastal Lae to inland Wau*





On one occasion Parer was asked to fly the first cow into Bulolo. It took three hours to load it into the Fokker and tie it down. Over Bitori Gorge Parer heard an almighty bang and turned to see the cow loose in the freight compartment. Flying on, he felt a sudden jolt in his seat — the cow had butted through the plywood barrier between the compartments and stuck its horn up through Parer's seat!

Another time his freight included a passenger with a huge boar. Fortunately its legs were tied. In flight the boar began to protest and soon broke free. The plane trembled and wobbled until at last one of the boar's feet penetrated the fuselage. It stayed there, fixed in place, until the landing at Wau. 'What a joke!' said Ray.

As things got better Parer became more adventurous. His next big purchase was a gold mine at Upper Watut. 'Sac-Sac' Vanderghinste, a giant of a Belgian miner, managed this and the venture was a success. Gold at the rate of 55 ounces per month was extracted and Parer became a wealthy man. However of the \$7-million of today's dollars he made, little seemed to be available. How he made it was common knowledge. How it disappeared nobody knew. He was a battler; a man of substance; a man who was a flier in the true meaning of the word; a man who was not a businessman, but a friend.

Ray Parer spent the remaining pre-WW2 years mainly at his Watut mine. His business flourished, he became a 'Territory Identity'.

*Alluvial gold mining at Edie Creek near Wau*



In 1934 adventure called again. A new England to Australia air race was proposed. With a friend, Geoff Hemsworth, Parer entered the race. Hemsworth's father had been a pioneer in the Fly River area of Papua. The New Guinea Flight Syndicate was formed, sponsored mostly by Parer's miner mates, and a Fairey Fox was bought in England.

The flight was a repeat of the 1920 epic — battling sandstorms, engine failures, obstructive officials and crash-landings. Nevertheless, the pair reached Darwin 116 days after take-off.

A spell in Australia followed, then Parer returned to Papua New Guinea. After a short spell working for Mandated Airlines he returned to his Watut mine. A gold-seeking expedition to the Sepik was undertaken in 1937. To gain access for his aircraft he had an airstrip built at Point Wom, now a National Park to commemorate the site of the Japanese surrender at the end of WW2.

Parer's sojourn in New Guinea ended with World War 2. Although he served on coastal supply ships on active service, he decided time had come to leave the 'Territory' and he bought a grocer's shop in Sydney. He later retired to a farm in Queensland.

Lieutenant Raymond John Paul Parer, RFC pilot, airline pilot, bush pilot, seaman, explorer, goldminer, battler, died in Queensland in 1967. An Aussie of an earlier era — self-reliant, shy, retiring, easy-going, of quiet humour, but utterly frustrating and determined to succeed in his own way, Ray Parer, aviator.



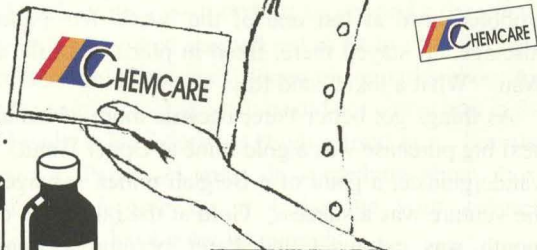


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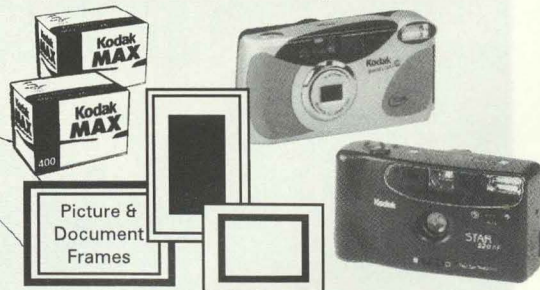
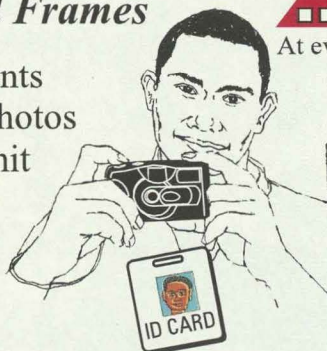
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Laben Sakale John — winner of the Photograph Competition  
*An orchid*

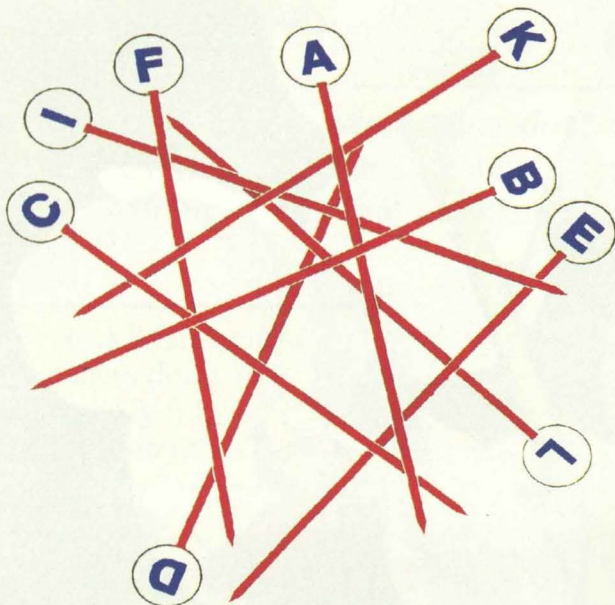


# Puzzles

Answers on page 60

## PICK UP STICKS

If you picked up these sticks without moving the next one, what is the seventh stick?



## NUMBERS

Five consecutive numbers have been hidden in the shaded boxes at random.

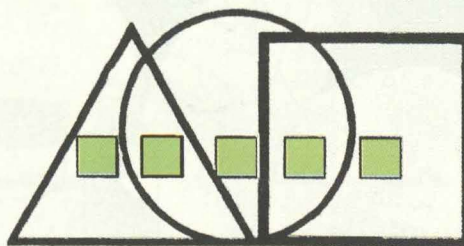
The numbers within the triangle total 27.

The numbers within the circle total 39.

The numbers within the square total 24.

All five numbers total 65.

In order, what are the five numbers in the diagram?



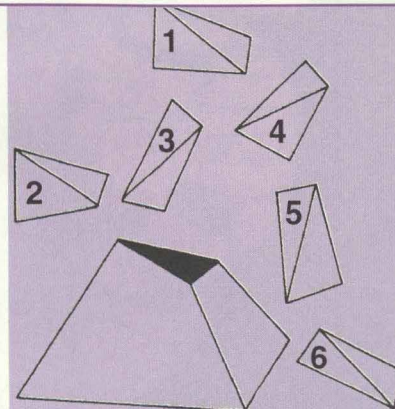
## DIAMONDS

How many diamonds, in total are featured on the cards — Ace, 2, 3, 4, 5, 6, 7, 8, 9, 10 of diamonds in a standard pack of cards?



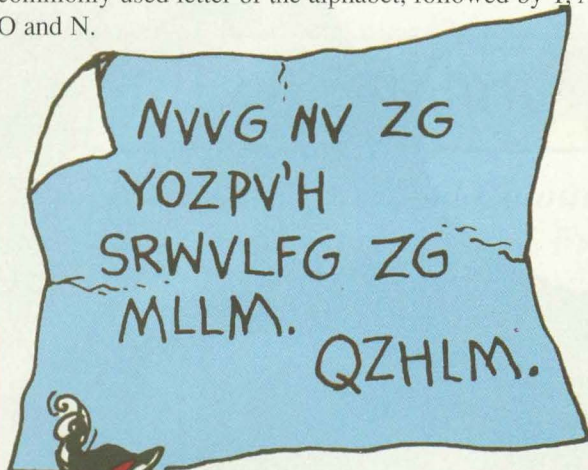
## PYRAMID

Choose one of the six shapes to fit the black space on the pyramid.



## CODE

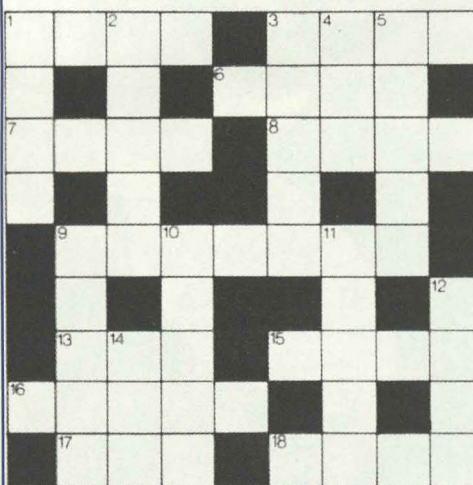
Decode this message. Here is a clue: E is the most commonly used letter of the alphabet, followed by T, A, O and N.



NVVG NV ZG  
YOZPV'H  
SRWVLF G ZG  
MLLM. QZHLM.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

## CROSSWORD



### Down

1. High
2. Book
3. Set of furniture
4. Showed the way
5. Things
9. Writing material
10. Took part in a play
11. Indian king
12. Snare
14. Number

### Across

1. Army vehicle
3. Fall over
6. Twosome
7. Exist
8. Thought
9. Members of a sports team
13. Cooking utensil
15. Slightly open door
16. Hereditary units
17. Colour
18. Sea vessel



A photograph of a surfer in a dark wetsuit riding a large, curling wave. The surfer is positioned in the center of the wave's barrel, with white foam spraying around them. The water is a deep blue-green color.

# Nusa Island Retreat

Story by Kylie Smith

**S**un, surf and sand are the perfect ingredients for a beach holiday. The tropical paradise of Papua New Guinea has many locations to match this description, but in my view, Nusa Island tops them all. Within sight of Kavieng, on the northwest tip of New Ireland, Nusa Island Retreat is an oasis of serenity and beauty.

The experience begins with a short banana boat ride across the clear waters of the passage, offering glimpses of colourful fish and reef below.

On arrival, it is almost impossible not to relax. A staff member greets you with enthusiasm, offering a guided tour of the Retreat, which blends pleasantly with its environment. Your shoes are discarded – the fine white sand feels wonderful between the toes. It is hard not to wonder if there is a job on offer here, as everybody looks so healthy, stress-free and tanned.

Your bungalow, built from natural materials, is only a few metres from the water. Simple in design and function, but with all domestic comforts and a restaurant on hand, and more like a village hut than an international resort, such accommodation appeals to those wishing for a more traditional experience. With a private verandah overlooking the beach, and a cool breeze blowing through the open windows, these bungalows surpass most air-conditioned, concrete hotel rooms with ease.

A spacious mosquito net draped over the bed lends a romantic air to the room. A small locked box caters for valuables, although safety has never been an issue on the island. During the afternoon, you'll discover the wealth of activities possible at Nusa Island Retreat. It may be hard to find time to relax on the beach with a book, with the many options for activity.





There are several single and double kayaks to explore nearby islands, a perfect way to get around the calm waters. Later you may progress to the traditional outrigger canoe, as the locals make it look easy. Your attempt should be good for a laugh! Alternatively the 5m catamaran looks like a fun way to get across to Kavieng for a picnic.

Nearby Big Nusa Island has various WWII relics to investigate. The boys from the local village are happy to guide you along the volcanic coastline for a nominal fee. The Retreat dogs may even accompany you, as they are always keen for a walk.

Also on offer are day trips to dive and snorkelling sites throughout the area. The clear warm waters, diversity of marine life and variety of wrecks and reefs to choose from promise for spectacular viewing. The dive team's local and overseas knowledge ensure your underwater experience is unforgettable.

The local waters teem with Spanish mackerel, trevally, barracuda, marlin, tuna, red emperor and many other succulent fish. Fishing trips can be arranged, or alternatively enjoy the hauls of others at the evening buffet in the restaurant, typically featuring the local delicious seafood.

Families enjoy the safe swimming area immediately in front of the Retreat. This can be followed by a game of table tennis, the board games and music in the restaurant, which is open-sided, sandy and a perfect place to enjoy the shade.

The surf season is November to April. Because of the consistent swells generated during these months, many choose the Retreat for a holiday dedicated to surfing, taking the opportunity to ride world-class waves without crowds. Local knowledge and speedboats ensure access to the best breaks each day.


Over the following few days you realise another highlight of Nusa Island Retreat – the local people. Friendly and helpful, they delight in conversing with guests, even if one's Tok Pisin is rudimentary. Many can give you insights to village life and local traditions.

It is only after you have exhausted the many activities of Nusa Island Retreat that you look further into its involvement in the local arena. Dedicated to developing a harmonious community environment, Nick and the team have instigated many projects to ensure the Retreat and nearby villages develop in a sustainable, ecological manner.

AusAID, guests and Australian schools have assisted with past funding, and further projects are proposed, including building a school, fencing for chickens to ensure access to eggs, and improving community access to fresh water. Already, compost toilets have been installed at the Retreat and across the island, protecting precious ground water.

The Retreat operates a boat to transport children to school in Kavieng, which has resulted in a 45 per cent increase in the number of children attending school. Several bomb craters on the island have been filled to discourage breeding of malarial mosquitoes, and women sew mosquito nets to protect young children. Use of compost bins at the Retreat has demonstrated the benefits of permaculture, enabling locals to increase the yield of fruit and vegetables, both for consumption and for sale.

It is this environmentally aware approach that sets Nusa Island Retreat apart from many other resorts throughout the world. Developing in conjunction with the natural environment and its inhabitants is often a small consideration in the development of a business, and the team at the Retreat must be commended.

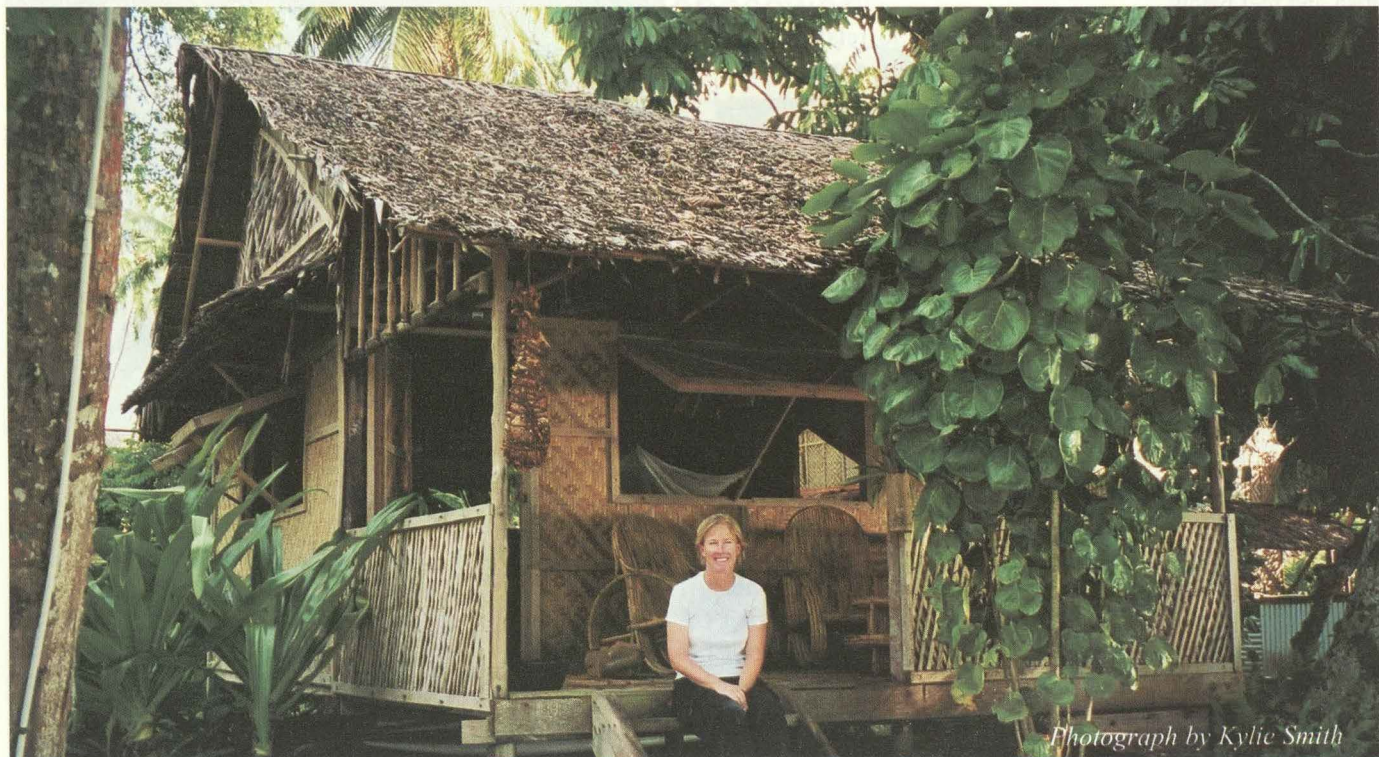
Consider Nusa Island Retreat for your next holiday. It promises to be memorable! 

For more information contact Nusa Island Retreat

Ph: (675) 984 2247 Fax: (675) 984 2404

PO Box 305, Kavieng, New Ireland

Or visit their website: [www.nusaislandretreat.com.pg](http://www.nusaislandretreat.com.pg)





# Audio entertainment

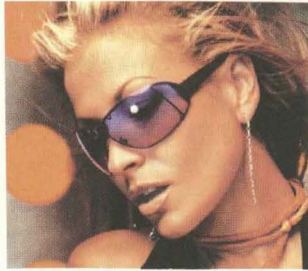
Relax and enjoy the flight

## CLASSICAL Channel 5

Für Elise (Beethoven)  
Moura Lympany: piano  
EMI

Flute Quartet in C, K285-Allegro  
(Mozart)  
Judith Hall: flute  
Collins Classics

Da Tempeste (Handel)  
Yvonne Kenny: soprano  
Australian Brandenburg Orchestra  
Conductor: Paul Dyer  
ABC



Anastacia

Spartacus-Adagio (Khachaturian)  
Royal Philharmonic Orchestra  
Conductor: Yuri Temirkanov  
EMI

Variations on a Rococo theme for  
Cello & Orchestra, O33  
(Tchaikovsky)  
Ofra Harnoy: cello  
Victoria Symphony Orchestra  
Conductor: Paul Freeman  
Ariola

Waltz of the Flowers from  
'The Nutcracker' (Tchaikovsky)  
Royal Philharmonic Orchestra  
Conductor: George Weldon  
EMI

Swan Lake — Scene finale  
(Tchaikovsky)  
Slovak Philharmonic Orchestra  
Conductor: Michael Halasz  
NAXOS

Prelude, Op 23, No 2 in B flat  
(Rachmaninoff)  
Evgeny Kissin: piano  
RCA VICTOR

## POP Channel 6

How Come You Don't Call Me  
Alicia Keys  
J RECORDS

Easy Tonight  
Five For Fighting  
COLUMBIA

If Tomorrow Never Comes  
Ronan Keating  
POLYDOR

4 My People  
Missy Elliott  
WARNER

One Day In Your Life  
Anastacia  
EPIC

U Don't Have To Call  
Usher  
ARISTA

Take A Message  
Remy Shand  
MOTOWN

Nothing In This World  
KeKe Wyatt featuring Avant  
MCA

When You Look At Me  
Christina Milian  
DEF SOUL

Girlfriend  
\*NSYNC featuring Nelly  
JIVE

The Hindu Times  
Oasis  
SONY

Breaking Up The Girl  
Garbage  
MUSHROOM

Wish I Didn't Miss You  
Angie Stone  
J RECORDS

Love Foolosophy  
Jamiroquai  
SONY

Nasty Girl (Azza's Nu Soul Mix)  
Destiny's Child  
COLUMBIA

## EASY LISTENING Channel 7

I'll Be There  
Mariah Carey  
featuring Trey Lorenz  
COLUMBIA

I Guess That's Why They Call It  
The Blues  
Elton John  
ROCKET

My Heart Will Go On  
Celine Dion  
EPIC

Wild World  
Cat Stevens  
ISLAND

Russians  
Sting  
A & M

Smooth Operator  
Sade  
EPIC

You Are the Sunshine of My Life  
Stevie Wonder  
MOTOWN

I Love Your Smile  
Shanice  
MOTOWN

Kokomo  
The Beach Boys  
CAPITOL

Rainy Days And Mondays  
The Carpenters  
A & M

Time After Time  
Cyndi Lauper  
COLUMBIA

Immortality  
Bee Gees  
POLYDOR

Toy Soldiers  
Martika  
UNIVERSAL

I Get a Kick Out of You  
Frank Sinatra  
CAPITOL

Piano Man  
Billy Joel  
CBS

## PAPUA NEW GUINEA Channel 8

Kobiai  
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  
Karuraa 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

Eat it  
'Weird Al' Yankovic  
SCOTTI BROS

The Phone In  
Monty Python  
ARISTA

School Debate  
Victoria Wood  
ELECSTAR

International Conference  
Shelley Berman  
K-TEL

Marriage, Divorce & Motels  
Lenny Bruce  
FANTASY

Teenage Love On The Phone  
Adam Sandler  
WARNER BROS

7s And Museums  
Steven Wright  
WARNER BROS

Eeh! Ah! Oh! Ooh!  
The Goons  
ECLIPSE

Wide World Of Novel Writing  
Monty Python  
ARISTA

Is it on the Trolley?  
Victoria Wood  
BBC

The Devil  
Rowan Atkinson  
LAUGHING STOCK

The Hypnotist  
Adam Sandler  
WARNER BROS.

The Glazed Donut Monster  
Bill Cosby  
CAPITOL

Embarrassing Moments  
Shelley Berman  
K-TEL

Fat  
'Weird Al' Yankovic  
SCOTTI BROS

## COUNTRY Channel 10

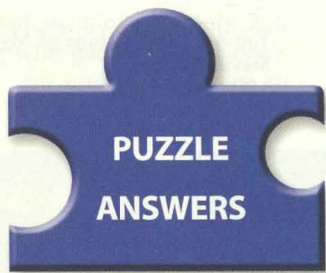
Don't Waste My Time  
Little Big Town  
N/A



Little Big Town

Bar Exam  
The Derailers  
N/A

Smoke Rings In The Dark  
Gary Allan  
MCA NASHVILLE



### NUMBERS CODE

15, 12, 14, 13, 11 The code is the  
11,12,13,14,15 add alphabet written  
up to 65, so they are backwards, so that A is  
in the appropriate written as Z, B as Y, C  
order to make the as X, and so on to Z as  
summations.. A. Message: **Meet me  
at Blake's hideout at  
noon. Jason.**

### PYRAMID No. 4

### PICK UP STICKS

### DIAMONDS

E stick

Either **75** or **95**, depending on the design.  
Each card has either 2 or 4 diamonds in  
the corners which have to be included as  
well as the pips.

### CROSSWORD

Across	13. pot	2. novel
1. tank	15. ajar	3. suite
3. slip	16. genes	4. led
6. duet	17. red	5. items
7. live	18. ship	9. paper
8. idea	<b>Down</b>	10. acted
9. players	1. tall	11. rajah
		12. trap
		14. one

## COUNTRY Channel 10

Heather's Wall  
Ty Herndon  
N/A

Good Morning Beautiful  
Steve Holy  
N/A

Bring On The Rain  
Jo Dee Messina & Tim McGraw  
N/A  
I Know You're Married  
Patty Loveless & Travis Tritt  
N/A

Some Days You Gotta Dance  
Dixie Chicks  
MONUMENT

Three Chain Road  
Lee Kernaghan  
ABC

When It All Goes South  
Alabama  
RCA

She Was  
Mark Chesnutt  
N/A

Whatever You Say  
Martina McBride  
RCA

Folsom Prison Blues  
Keb Mo  
N/A

Smoky Mountain Memories  
Dolly Parton  
BLUE EYE

Sending Me Angels  
Delbert McClinton  
RISING TIDE

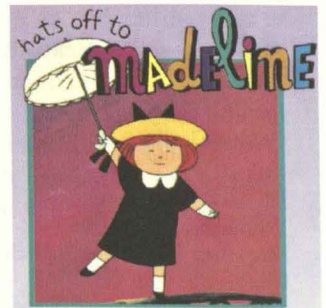
Are We In Trouble Now  
Mark Knopfler  
MERCURY



**Air Niugini**  
eni PNG!

## CHILDREN'S Channel 11

I Am Not Afraid Of Snakes  
Madeline  
ABC



Little Red Riding Hood  
Steve Allen  
VARESE SARABANDE

Dorothy The Dinosaur  
The Wiggles  
ABC

Beauty And The Beast  
Mia Farrow  
LIGHTYEAR

Hole In My Shoe  
Monica Trapaga  
ABC

The Dog Next Door  
Don Spencer & Friends  
ABC

North South East & West  
Hi-5  
SONY

The Gingerbread Boy  
Arlo Guthrie  
LIGHTYEAR

Zip-A-Dee-Doo-Dah  
Little Richard  
DISNEY

The Three Bears  
Arlo Guthrie  
LIGHTYEAR

Yesterday  
Daffy Duck  
RHINO



# Films

— Relax and enjoy the flight —

## International Flights

### July

#### SPY GAME



Action/Thriller  
R Universal

The year is 1991 and CIA officer Nathan Muir is one day away from retiring when he learns that his one-time protégé, Tom Bishop is in trouble. Detained in a foreign prison on a charge of espionage, Tom is scheduled to die in 24 hours. Fearing an international incident, the CIA thinks the risk is too great to try to save him. Muir is the only one who can rescue him. It was he who hand-picked the younger man for the field and taught him everything he knew. It was he who warned Bishop to stay away from the woman who threatened their operations. However with a new generation in charge of the agency, the old-school Muir is no longer an insider. He must figure out how to outwit the organization he has served for so many years. He scrambles for details on Bishop's situation. Now the tough, wise, old operative Muir races against the clock to save the young impulsive Bishop.

Featuring: Robert Redford, Brad Pitt, Catherine McCormack, Stephen Dillane  
Director: Tony Scott

#### HIGH CRIMES



Drama PG-13 FOX

A happily married, successful female lawyer is shocked to learn that her husband has a hidden past as a classified military operative, and is accused of committing a heinous war crime. She must wrestle with her own doubts about his guilt as she defends him, with the help of a private investigator, in a top-secret military court where none of the rules she knows so well applies.

Featuring: Ashley Judd, Morgan Freeman, Jim Caviezel, Amanda Peet  
Director: Carl Franklin

### August

#### THE COUNT OF MONTE CRISTO



Suspense/Thriller  
PG-13 E-Source

Dashing young sailor Edmond Dantes is a guileless and honest young man with brilliant prospects. Promoted to a captaincy and engaged to the beautiful Mercedes, Dantes' future seems secure. Then his best friend, Fernand, who covets Mercedes for himself, plots so Dantes is unjustly imprisoned. For 13 years Edmond is consumed with thoughts of vengeance against those who betrayed him. With the help of an equally innocent fellow inmate, Dantes escapes from prison, whereupon he transforms himself into the mysterious and wealthy Count of Monte Cristo. With cunning ruthlessness, he cleverly ingratiates himself with the French nobility and systematically destroys the men who manipulated and enslaved him.

Featuring: Jim Caviezel, Guy Pearce, Richard Harris, James Frain  
Director: Kevin Reynolds

#### BIG FAT LIAR



Comedy  
PG  
Universal

Who's afraid of the big bad wolf? Not Jason Shepherd, who has to prove that a sleazy Hollywood producer Marty Wolf stole his class paper and turned it into a blockbuster movie, *Big Fat Liar*. Travelling to Los Angeles with his best friend Kaylee, Jason tries to break into show business — literally. Through a hilarious series of pranks and ruses, Jason brings one of Hollywood's most powerful producers to his knees.

Featuring:  
Frankie Muniz,  
Paul Giamatti,  
Amanda Bynes,  
Amanda Detmer  
Director:  
Shawn Levy



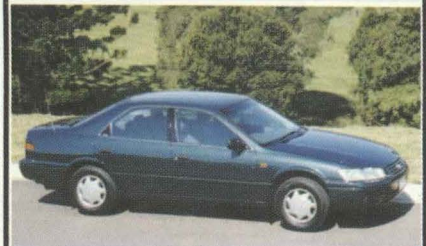
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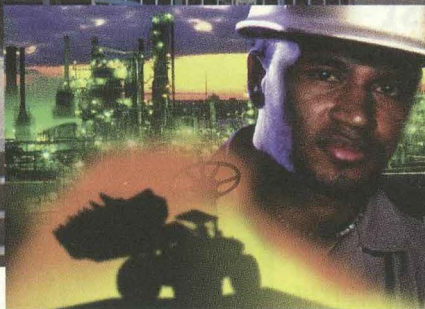
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# GOURMET CUISINE

In the last five issues of *Paradise*, we have published articles on Mahendra Blackman's whirlwind tour around Papua New Guinea — Port Moresby, Kokopo and Rabaul, Kavieng, Madang, Wewak — and in this issue, Lae. Goroka will be featured in the next *Paradise*. Mahendra's articles have highlighted some delicious meals he enjoyed at hotels and restaurants. The recipes in this gourmet cuisine give away the secrets for some of the flavours in these meals.



## Chilli Crabs

from the restaurant

at the Taklam Guest House, Kokopo

- 2 large crabs
- 4 tablespoons oil
- 6-8 cloves finely chopped garlic
- 1 tablespoon finely chopped ginger
- 1 tablespoon finely chopped red chilli
- 100 ml tomato sauce
- 2 tablespoons vinegar
- 1 tablespoon soy sauce
- small glass white wine or sherry (optional)
- 100 ml water

Chop crab into pieces, removing any inedible parts. Wash very well. Heat oil in a wok and fry crab quickly, turning pieces until they are red. Remove from wok. Fry garlic, ginger and chilli for a minute. Add remaining ingredients with the water. Return crab to pan and let simmer in sauce until cooked through.

Serve with steamed rice.



## Crayfish Baked in Banana Leaves

from the restaurant

at the Malagan Beach Resort, Kavieng

- 3 green crayfish
  - 3 large banana leaves
  - 185g butter, softened
  - ½ cups champagne or dry white wine
- The crayfish should be killed shortly before cooking. One way to do this — leave the crayfish head down in a bucket of cold fresh water for at least one hour.

Spread banana leaves with the butter. Lay leaves flat in a large, shallow baking dish and place the crayfish on centres of leaves. Pour half a cup of champagne or white wine evenly over each. Fold banana leaves around crayfish so they are enclosed, then tie with string.

Bake at 180°C for 50-60 minutes. Remove from oven, unwrap leaves and split each crayfish lengthwise in half, using a heavy knife, or cleaver and kitchen scissors.

This dish serves 6 people.



## Muli and Poppy Seed Cake

from the Cake Shop

at the Bird of Paradise, Goroka

- 200g soft butter, chopped
- 180g caster sugar
- 3 eggs
- 200g (1½ cups) self-raising flour
- 90g plain flour
- 2 teaspoons poppy seeds
- Finely grated rind of 2 limes, lemons or mulis
- ½ cup lime, lemon or muli juice
- 1 tablespoon poppy seeds, extra

**Lime, lemon or muli frosting**  
200g cream cheese, softened and chopped  
110g (½ cup) caster sugar  
1-2 tablespoons lime juice

Beat butter and sugar until light and fluffy. Add eggs, one at a time, beating mixture between each. Stir in combined flours, poppy seeds, grated rind and juice. Stir until combined. Spoon mixture into a greased and base lined 13x23cm loaf tin. Bake at 170°C for 60-65 minutes. Cool cake completely in tin before turning out onto a plate.

**Frosting:** Mix cream cheese and sugar until smooth. Add juice to taste. Mix until well combined. Spread frosting over cooked cake and sprinkle with extra poppy seeds.





# 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.

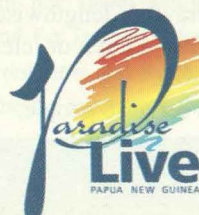
## Cultural Events

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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