

Bougainville Copper Concentrates

VOLUME TWO / NUMBER ELEVEN, JUNE, 1972



As it was.

Centre pages feature a new series - the project as it was, in January, 1970. This is a 1969 picture of just how difficult it was to move things around in those days. A yarder on its way to Panguna got stuck at the top of Kieta Hill; dozers with cables attached to them held the yarder from toppling down into the town.

Angry Ida

The recent cyclone/storm struck Panguna with a vengeance. These Camp 10 occupants wait in the strong winds for transport during evacuation. More inside.





Ida struck Panguna with a vengeance in late May. After the three day hammering some experts claimed she wasn't a cyclone but a heavy tropical storm. But whatever the label, she certainly turned out to be a lady with a temper.

May is supposed to be the driest month of the year with an average of 7 inches of rain. In fact, 33.83 inches fell. In Loloho 20.58 inches fell (average 7.52) and in Arawa, 12.72 inches fell (average 8.02).

Before, during and after the cyclone/storm, the figures read:

May 28	.82 inches
May 29	.20 inches
May 30	6.50 inches
May 31	6.96 inches
June 1	8.32 inches
June 2	.56 inches

A separate reading taken on the east side of the Port Mine Access Road on June 1 showed 11.3 inches for the day. All these readings were taken at 9 a.m. on the day in question.

May's 33.83 inches at Panguna is the second wettest month since recording began. Back in July 1965 we had a mighty 47.98 inches at Panguna.

Highest spot check of wind velocity taken during the storm in May was 47 mph, but it's believed the winds reached stronger speeds at times.

There were only two reported injuries in the vicinity of the mine. A Karosna Creek house was toppled by a landslide in the early hours of May 30 and one of the occupants taken to the medical centre with lacerations. The same morning an Iunga villager was taken to hospital after being carried into the Kawerong River during the landslide that closed the Jaba River Access Road.

The slide brought down power cables to the Jaba Pump Station which could not then supply water to the Concentrator. Consequently for the next five days the concentrator worked at reduced input.

A landslide closed the Port Mine Access Road on May 30 but by the evening of the next day the way was clear. A total of 37 houses in Panguna were evacuated but in most cases this was only a precautionary measure. After the storm most were speedily reoccupied.

Camp 10 was heavily battered during the storm.

Elsewhere on Bougainville: Moroni village was thought to be in danger at one point but evacuation was not necessary. House roofs at Kupei were blown off. The west and south coast took some heavy rain. Roads were damaged and the Silibai river, near Buin, changed course. Kangu village at Buin suffered some damage.

Top left, traffic negotiates a diversion after a landslide above Camp 10. Centre, workmen repair power lines to the Jaba Pump Station. Bottom, A BCP bulldozer repairs a damaged foot bridge across the Pinei River



CONCENTRATES IS EDITED BY JOHN ECCLES, JOHN WAKARIA AND JOHN PIPPIN. PHOTOGRAPHER, BRIAN WENDT. TEL. 5-255



Above, Toniva rugby team;
right, Brothers team.



Sport news

The procedure to be followed by residents of Panguna and Arawa to obtain maintenance for their houses is as follows: in Panguna, all requests for domestic maintenance are phoned to 5-115; in Arawa, all requests for domestic maintenance are phoned to 4-232, or notes may be left at the maintenance box located at the Arawa Trade Store. In the case of emergencies after hours all queries should be directed to Security Office - Panguna 958022 and Loloho 951022

NEW BABIES

Ian Baird, harbourmaster pilot, and his wife, Hilary, have an addition to the family. By adoption, a daughter, Jill, born in New Zealand on April 21. To Ken Howard, an electrical technician at the concentrator, and his wife Jenny, a son Alan, born at the Panguna Hospital.

TWO WARNINGS

Recently the explosion of a wartime shell at Rorovana village resulted in a fatality. People are cautioned not to touch wartime relics of an explosive nature. Their age and deterioration makes them doubly dangerous. People should notify the police when they find them.

Petrol spilled on the floor of one of the workshops recently ignited. Luckily no-one was injured. Great care should be taken not to bring naked flames near petrol, particularly in a confined area.

WANTED

Dismantable babies play pen. J. Milne, 5-342.

MOTOR SPORT CLUB

Bougainville Motor Sport Club was started on May 12. President is Chris Gordon and vice-president, Simon Bonga. Aims are to promote motor sport and road safety on the island.

NEW BEER

SP Brewery is to launch a new beer on Bougainville this month. It's called Gold Medal Lager!

NEW ARAWA DOCTOR

New doctor in Arawa: Dr. P. Weber, section 19/27. Hours are Mon. - Fri., 8 - 11 and 1 - 4. Wed. 1 - 4 only. Evening, Mon. and Thur., 7 - 8. Sat. 9 - 11 am.

The RUGBY Competition is going along without any weather troubles, as down at Toniva the weather is much kinder toward football than in Panguna. Five rounds have been completed and the ladder up to and including matches for June 4 is as follows:

Hiri (A)	9
Tura	8
Marshall Lagoon (A)	7
Kumul	6
Toniva	6
Hiri (B)	3
Brothers	1
Marshall Lagoon (B)	0

The majority of games have been close and the play has been very good. Now our jerseys have arrived, the teams really look smart. Interest in this competition seems to mount each Sunday and by the time the finals come round, I venture to say that there will be large crowds witnessing the football each Sunday. A team from Honiara will be visiting about mid July when a representative team from our competition will play this team. Full details next Concentrates.

Old man weather has been very unkind to AUSTRALIAN RULES and now 3 rounds have been washed out. Last Saturday (June 3) was the third time. However, the ladder, as it now stands, is:

Mining	12
Clerks	8
Concentrator (A)	8
Apprentices	4
Administration	4
Concentrator (B)	0

If the games played so far are any indication, this competition should continue to draw the crowds each Saturday. It is noticeable that the standard of play is improving each week and so also is the organisation including the umpiring. At the moment boundary and goal umpires are being trained, and when this is completed the central umpires job will be made much easier.

The SOCCER competition was all set to start on 27 May but as already stated the weather had other ideas and play was washed out two weeks in a row. Nevertheless we hope to get off the ground on June 10.

Now we have a set of jerseys for each Australian Rules and Rugby team it is essential that they be handed to my representative immediately after each game. If by chance my representative is not available these jerseys must be handed into the sports store first thing Monday morning. To enable them to be washed and

Films

PANGUNA

Thurs. & Fri. June 15 & 16	Planet of the Apes	Charlton Heston
Sat. & Mon. June 17 & 19	Butch Cassidy & the Sundance Kid	Paul Newman Robert Redford
Sun. & Tues. June 18 & 20	Caprice	Doris Day Richard Harris
Thurs. & Fri. June 22 & 23	Stagecoach	Ann-Margaret Red Buttons
Sat. & Mon. June 24 & 26	The Touch	Terence Hill
Sun. & Tues. June 25 & 27	They Call Me Trinity	Elliot Gould

ARAWA

Friday June 16	Inn of the 6th Happiness	Ingrid Bergman
Sunday June 18	Road to Salina	Mimsy Farmer Robert Walker
Wednesday June 21	Lost Continent	Eric Porter Hildegard Knef
Friday June 23	Secret War of Harry Frigg	Paul Newman
Sunday June 25	Deadlier Than the Male	Robert Johnson Elke Sommer
Wednesday June 28	Planet of the Apes	Charlton Heston

returned for the following week this procedure must be followed. Don't forget there are no spare jerseys.

Another two good BOXING nights were held on 19/26 May with some good action-packed fights. The fights in general may not be Festival Hall standard but the keenness and enthusiasm shown by these lads is worth travelling to Camp 6 to witness these evenings.

Our ring in Camp 1 should be erected and boxing should start taking place on alternate Friday evenings commencing about 19 June. This actual date will be well publicised and if Camp 6 fight nights are any indication then Panguna people are in for some good fight nights each alternate Friday.

Sorry to see our referee Peter Woodhour leaving us. Thanks Peter for your grand efforts not only in referring but in taking the Camp 6 boxing club for training etc. for so long. All the best in the future.

The venue for the Territory championship is still in the air but we hope to have 4 or 5 of our boys representing Panguna at these championships. All details should be known by the time our next Concentrates is published.

A TENNIS tournament is being organised by the tennis club for Sat./Sun. 17th and 18th June. There will be prizes, bar-b-q and lets hope we have a good roll up as it will be a good weekend.

The SNOOKER and TABLE TENNIS tournaments to find our champions are still underway in the various recreation rooms. Competitors are requested to get their games over as soon as possible otherwise these tournaments have a habit of dragging on far too long.

Kieta have started up a SAILING club and sailing lessons etc. can be obtained through the club. Crews and yachts (any type) are welcome. Full details from Paul Matthews, Kieta Harbour Master, 956191.

The number of books available from the Kawerong Haus LIBRARY has been static for some time, due no doubt to the B-WKE and other contractors now leaving for good with no replacements. To build up a stock of books a supply is being ordered from Australia but any person who has paperbacks just lying around in their rooms, homes etc. are requested to drop them into the library or inform me and I will pick them up. This library is widely used and very popular and new books are always welcome.

Still no venue for the re-activation of the JUDO club - any ideas anyone! Here is a strong active club frustrated through a lack of a small space to train.

HOCKEY team to go to the Territory championships over Queens Birthday weekend is as follows:- Team A. B. Muffett (BCP Loloho), N. Howard (Com. Bank Kieta), P. Momaris (Rigu H.S.), G. Lill (BCP Panguna), K. Jackaman (Com. Bank Panguna), G. Hurrell (BCP Panguna), T. Oeke (Barclay Bros), S. Hanson (Com. Bank Arawa), K. Bien (BCP Panguna) T. Kalipa (BCP Apprentice) A. Tabira (BCP Panguna), J. Beachamp (BCP Panguna), L. Mandra (BCP Panguna). Team B. Nicholas N. (Rigu H.S.), J. Hane (Rigu H.S.) J. Kopiku (BCP Panguna), J. Salavi (BCP Panguna), G. Berassi (BCP Apprentice), P. Gahan (Rigu H.S.), J. Miringtoro (BCP Apprentice), K. Kauma (BCP Panguna), B. Loloka (BCP Apprentice), Bro. Geoffery (Rigu H.S.), J. Osani (Rigu H.S.), Nicholas (Rigu H.S.), Bro. Edward (Rigu H.S.).

Congratulations to all those who made it and if last years performance is any indication Graham Hurrell must be very confident that the "A" team should take a power of beating. All the best over the Queen's Birthday carnival to both teams.

Cyclone Ida took toll of our sporting facilities with winds bending the cyclone surrounds to the tennis courts, soccer goal posts, landslides covering our basketball and volley ball courts and last but not least making a nice big mud puddle of our oval. However, by the time you are reading this column all should be back to normal and I hope all are complaining of the heat.

RON HERRICK

Camp 6 open

Camp 6 opened as a recreation camp for Bougainville Copper staff in May. At the same time Kobuan Camp closed its mosquito nets to overnight visitors and weekenders. Kobuan will continue to permanently house the few BCP staff who work in that area; otherwise it becomes part of the Takaian Plantation, currently being brought into production by agricultural extension officer Nick Crawley.

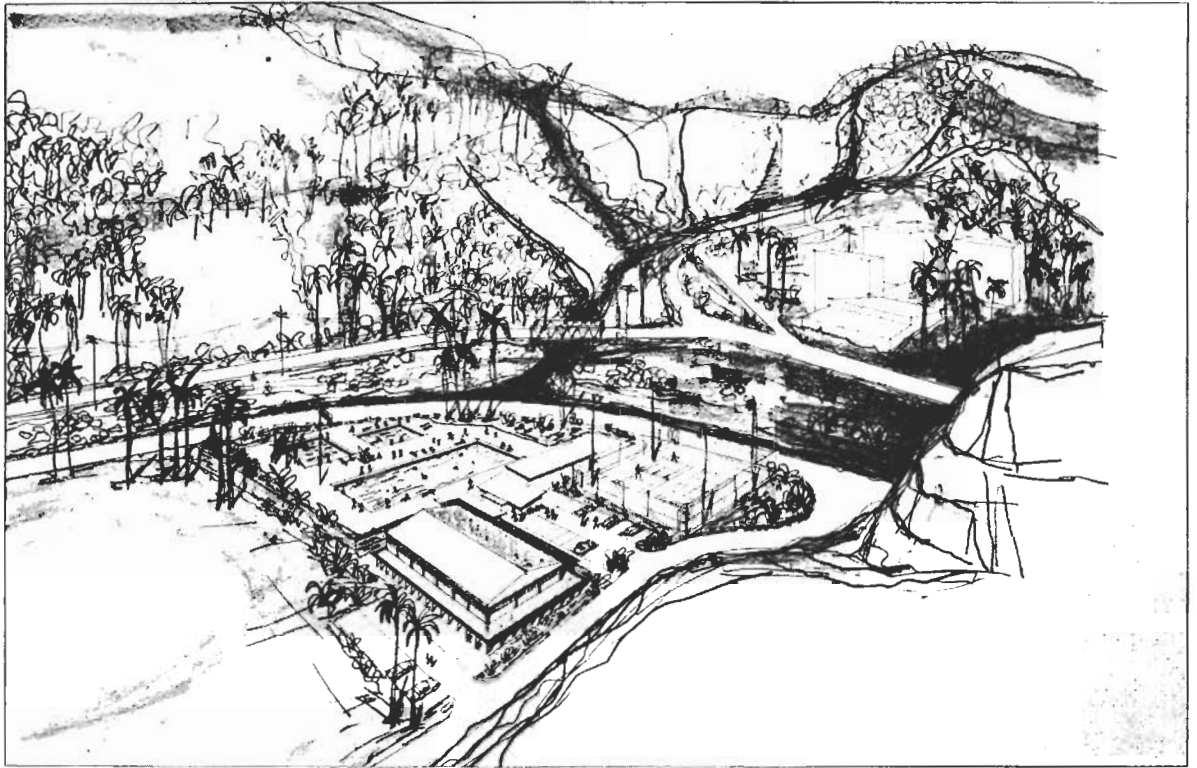
Kobuan was originally used as a base camp for the CRA exploration team. A helipad was constructed and the first exploratory drilling rigs flown from Kobuan to Panguna. Once the first road was built through to Panguna, Kobuan became a transit camp for visitors who could not reach the mine in one day from the airport.

It later became a recreation centre and its pleasant beach used for swimming and boating. Paholskis and the saksak guest houses were used for meetings and functions. Community relations have now taken over the complex and all recreation facilities are at Camp 6.

Camp 6 is in fact occupied by integrated personnel

An artist's impression of the projected Panguna gymnasium and swimming pool, due to be ready by by early next year.

Temporary housing on the site has already been demolished and earthmoving started.



previously accommodated in both Camps 6 and 8. Camp 8 has been closed down. Camp 11 still has about 400 residents and has a mess and six accommodation buildings. The wet canteen has been shut down, however.

Part of Camp 6 is now open to married and bachelor BCP staff who wish to use its recreation facilities. Charges for accommodation are: Family accommodation (per unit) - \$2 a day; single accommodation, single room - \$1 a day; shared room - 50 cents a day. Deposit for key - \$1. Payment for accommodation must be made in advance at the time of booking in at the Camp Office.

Meals: Single employees must have their meals at Camp 6 mess at no additional charge. This is in lieu of eating in their normal camp. Married employees and their families may have the evening meal in the mess free of charge. If it is also desired to have breakfast or lunch in the mess this may be arranged through the recreation camp office where tickets will be available at 80 cents per head per meal. Married employees who do not wish to eat at Camp 6 may make full use of the facilities provided in the units.

Accommodation: Single rooms will be provided with linen, towels, soap. Family units will be provided with linen, towels, soap; basic crockery, cutlery and cooking utensils. Occupants will be required to make restitution for any losses which may occur during their occupancy.

Restrictions: Bookings may not be made more than 4 weeks in advance. Bookings may not be made for more than one period in any four consecutive weeks, unless there are vacancies on the day accommodation is required to be occupied. Bookings cannot be made for more than 4 consecutive days at a time. Family accommodation is on the basis of one family per unit. More than one family cannot occupy one unit. Family units are not available to single employees. Bookings may be extended should there be no other requirements on the units occupied on the last day of occupancy. This should be arranged through the recreation camp office.

Reservations: All reservations must be made through the recreation camp office, Loloho. Until telephone

facilities are available, reservations may be made through the facilities office, telephone Panguna 5-151.

Camp control. The recreation camp is under the supervision of Mr. John Picken, the recreation camp officer. As a temporary measure the recreation camp office will be located in the first house on the left hand side entering the married quarters area. The recreation camp office should not be confused with Camp 6 office, which controls Camp 6 and has no connection with the BCP recreation camp. However, until separate telephone facilities are available, John Picken may be contacted at Camp 6 office, telephone 95 1022. Certain transport facilities will be provided. This will be the subject of a separate notice from the transport supervisor.

Camp 6 is expected to receive the following recreation facilities in the near future:

Sports field areas: There is adequate space between Camp 11 wet canteen and the laundry building, once the police barracks have been removed, to construct an oval which will accommodate all field sports. Floodlighting will be needed. This will require the piping of one small drainage ditch which currently exists in that area. The existing soccer field can be retained at no additional cost. The volley ball courts are to be relocated in an area between the soccer field and the hillside. The cinema building and the screen are to be relocated onto the existing volley ball court. The portable boxing ring will also be removed to this location.

Beach area: Additional bar-b-que facilities are planned for selected locations along the beach frontage, with floodlighting, benches and tables and open air fresh water showers. Two ladies toilet and change room blocks will be supplied.

Squash and tennis courts: Three tennis courts may be constructed on the right hand side of the road leading to the married area, opposite the Loloho hospital. Two squash courts are to be built in this area also.

Water front area adjacent to Dillinghams office building: No recommendation has yet been made in connection with the development of this area which is ideally suited for a marina and general boating centre, other than to bring the boats from Kobuan to this location.

PROJECT AS IT WAS:

JANUARY, 1970

The Project in January, 1970, was in its infancy. Over 7,000 tons of construction equipment and other cargo was unloaded during the month. Some 160 acres of the open pit area had been cleared and work had started on the construction of the haul roads. Design of the concentrator building and the power station was progressing and tenders were called for the design and construction of the power transmission line from Anewa to Panguna.

Our photos, taken by Brian Wendt, in January 1970: Left, Policeman's Corner on the Port Mine Access Road showing clearing and excavation for the permanent road. The trucks are on the old road, now disused. Middle, Panguna Primary School under construction (lower right) with Karoona Valley in the foreground. Below, excavation in progress on concentrates storage at Anewa Bay; excavation and filling for permanent wharf at right. Right, at Barapinang, Camp 1, in construction; Mount Nautango and site for aggregate and concrete batch plant is in the left centre background of picture. Centre, and bottom left, a view of hydraulicking excavation and benching in concentrator area. Bottom, Panguna Town, showing Lysaght houses (lower left centre) and Mitsubishi houses in Kawerong Valley.



WAS: , 1970

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Policeman's Corner on
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Tok Tok



The Hiri

By Camarua Gomara,
Concentrator timekeeper

Long, long ago before the white man arrived in Papua, customary trading was held among the people. Through this trading, villages became friendly with each other, especially Motuan people with those of the Gulf. Usually the barter system of trade was used where villages exchanged goods for other goods. When Motu people and Gulf people traded together it was called the Hiri.

The word simply means an exchange of goods. Older men of the villages took the Hiri very seriously. Sometimes the voyages were pretty dangerous. Women were not allowed to go on these trading expeditions and were not allowed to go near where the old men held their meetings to discuss them.

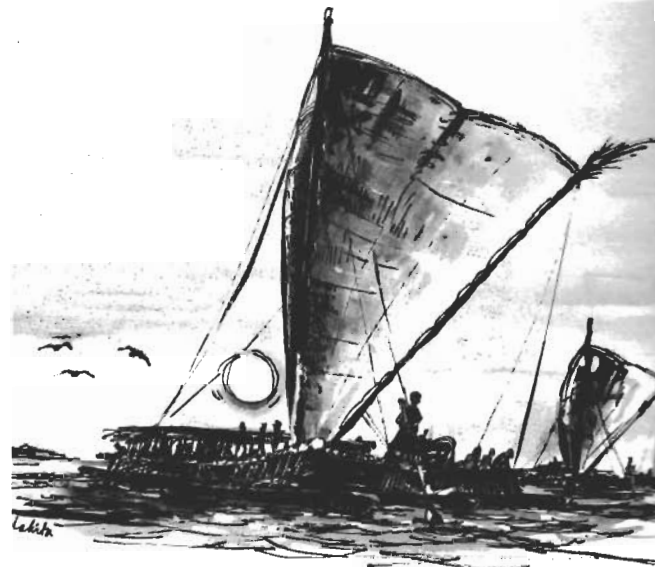
The Hiri expedition was expected during the southern monsoon which blows during October and November. This was the time the Motuans began trading down the Gulf coast. Three or four big lakatois were fitted out. (The lakatoi is a canoe with sails, built of two or three hulls and with shelter and deck. It can carry 50 people or more). The women then loaded them with pots, yams and other trade goods. They then wished their men good luck with plenty of sago and mats.

Two or three weeks later the men would arrive at the Gulf coast and be met by friendly villagers. These people were ready with their sago and mats for exchange.

They also exchanged logs, vital for building the big lakatois for future voyages. They were worth a lot in yams and mats. As soon as the bartering was over the goods were loaded into the lakatois (the logs strapped to the sides). Then a big singsing was held until dawn.

As the sun rose the visitors would say goodbye. The west monsoon would be blowing by that time and it was time to return to the Motu coast.

When they began to near home, the men decorated



themselves and started beating drums, singing and dancing as their lakatois moved slowly towards the shore. The waiting women decorated themselves with best garments, grass skirts and their bodies tattooed. They met their husbands and joined in the dancing. When the dancing was over a big feast was held in honour of the returned men. Whole villages were involved.

Gulf people the next season did the same thing, bringing sago and mats to the Motuan people by lakatoi. This trading between the people was still continuing when the Europeans arrived. Then it slowly died out. But the word Hiri is still recalled in the minds of the older people and is even famous amongst the younger generation.

Concentrate in Hamburg

Both the "Margit Brovig" and the Anne Mildred Brovig" berthed and discharged copper concentrates safely at Hamburg, Germany, in May. These photos are of the "Margit Brovig" in port. As can be seen, the concentrates are loaded from the ship into barges and from them onto shore stockpiles.



The education section of the training department handles a variety of courses for both new employees and those already on the job. At the moment it has some 70 trainees in clerical training. At the end of April the centre had had 40 courses on job supervision this year, 27 on job instruction, 33 on job relations, 21 on job methods, 20 on job safety, 10 on instructor development and 14 on basic supervisory. Induction courses attracted: 185 wages employees, 210 expatriate staff, 160 school leavers, 55 for R-105, 83 for leadership, 20 for industrial communications and 10 for pidgin.

The education section also advises the company's scholarship holders from all over the country studying in either the university or the Papua New Guinea Institute of Technology in Lae. Currently there are 25 students in various studies in the Institute, and 18 in UPNG.



JABA/SIKOREVA ROAD

It is hoped that the Jaba-Sikoreva road will open for traffic sometime in July. However, the recent storms and Cyclone Ida have caused some setback on the construction and the official opening might be a little later. When it does open it will link the road going through Nagovisi and Siwai to Buin. This road was built by the councils in the Buin Sub-District. The councils have laid down certain rules for people travelling along the road. Company's personnel are also advised that the mission stations on this road, particularly Moratona Catholic Mission, with its big hospital, are busy places and are not in the position to offer hospitality to travellers. The crossing at Pangara River is also dangerous at times. Travellers are to cross it at their own risk.

Rules: Do not pick up local women on the road unless they are accompanied by their men. Slow down going through villages and schools. Do not pick fruits without owners' permission. Do not go into the bush just for a walk. Do not go hunting in the bush. Do not pick up stones, or you'll be suspected of being a geologist exploring for another mine. Do not pick up war relics or enter garamut houses.

Until the road is officially opened travellers are requested not to attempt to use it.

SORRY BOB

Last Concentrates, we called Bob Fisher a drilling and blasting foreman. In fact he is assistant pit superintendent, blasting and drilling. Sorry Bob.



Top, education section erects its office sign; middle, education officers Geoff Pope instructing Penington Misikaram, and Willie Griffiths instructing employees in the use of automatic telephones; above, safety officer Francis Tanapuma instructs on the use of safety helmets.

In the mountains....

To see 90 per cent of Bougainville you have to walk. This normally means sweating over ridges and struggling across rivers. It's the sort of walking that's miserable at the time but great to talk about afterwards back in the comfort of the Panguna mess or your own sitting room.

One thing needs to be born in mind, though. Village people sometimes do not take kindly to being visited out of the blue by strangers. It's always best to travel with an Administration officer or a company village relations officer.

One of the best walks across the island is the famous Numa Numa Trail, used extensively during the war. It is one of the two main trails across Bougainville from west to east, the other being the familiar one from Moratona to Arawa.

The Numa Numa Trail crosses between the two giant volcanic formations of Bagana and Balbi. Bagana is best seen from the plains around Torokina, where your trek begins; Balbi from the top of the dividing range crossed on the way down to Wakunai.

Basically there are two routes from Torokina to Wakunai. The easiest is the Numa Numa Trail which follows the Laruma River into the mountains from Torokina, passes through the now deserted villages of Petriopaia and Lesiopaia, crosses the divide and follows the Numa Numa river into the back end of Sandy Sandford's huge plantation.

Ken Phillips, VRO, and myself, were not able to follow the Laruma River as it was in flood when we tackled the trail in May. We therefore used a

less used trail cutting across the headwaters of the western tributaries of the Laruma to Sisivi; then on to Togarau at the base of Balbi and down the Wakunai River to Asitavi. This route is far harder but has more interesting views.

We hired a car to cross the Torokina plains. Leaving it at Kanaia village we followed the Laruma until the trail branched off towards Sisivi. The next 10 hours were real ridge climbing without seeing a single village. Without guides we wouldn't have found the way.

About 3 o'clock the clouds parted to give us a view of the western plains right down to the Jaba River. Then the rain forest closed in and the rain came down. About 5 o'clock we struggled into a tiny deserted hamlet. Our guides/carriers indicated it would be all right to sleep here the night and we settled down to a giant pot of steaming tea and some canned meat.

The next day dawned clear. Another two hours walking took us to the saddle of the dividing range. Just as the Kupei Gap is the highest point of the Arawa-Jaba Trail, so this unnamed spot is the highest between Torokina and Wakunai. We estimated it at about 4,000 ft.

An hour later we reached the first village of Sisivi with a majestic view of Balbi. The people had gone to a sing-sing at Togarau so we kept going, more down than up as we headed down the east side of the divide. Next village was Ruruvu, noted for its excellent pomoloes (a cross between a grapefruit and an orange). Then



another half hour of steep climbing took us to Togarau where we planned to stay the night. The singing was in progress when we got there. We found it was to celebrate the opening of a new house and also the ceremony of village babies taking solid food for the first time.

The babies, bawling lustily, were paraded around the village, reluctantly clutching pieces of meat. Round each of their waists was tied a belt of pandanus leaves. Within a protruberance of the belts were morsels of food spiced with bush herbs. The babies would wear these for an indefinite time to ensure their growing up strong.

An airstrip splits Togarau in half. When the MAF flight comes in, children run in one direction, fowls and dogs in the other. The strip also demarkates the village into two religious camps - Catholic on one side, United on the other. But there does not appear to be any unpleasantness about it.

We had friends to stay with at the village, but there is a "haus kiap" for those who let the people know in advance they are coming. Quite a few groups visit this village, mainly because it is close to the main track to the top of Balbi. It looks a hefty climb to the 8,500 ft summit of the tallest mountain in Bougainville. There's no drinkable water at the top or shelter, so it's best to be well prepared. I'm told there are impressive sulphur fields and geysers there. But the summit clouds over about 8 a.m.

The trail down to Wakunai now splits into two; a hard route over Ibu and Bulistoro, or a simple walk down the Wakunai River. After having walked the hardest way over the range, we decided on the easier.

Ibu was a Fijian battalion's coastwatching station during the war until the Japanese attack on Torokina. The tiny village of Bulistoro in the Rotokas mountains is one of the few which continues the tradition

of the wearing of Upe hats. These tall hats are worn by the young men for about a year and the hair is not cut during this time.

We walked back through Ruruvu and then down through village gardens for two hours. Near the Wakunai River, we struck a road, now rendered unusable by the recent rains. When it is finished it will reach Ruruvu and carry produce from this rich market garden area to the coast.

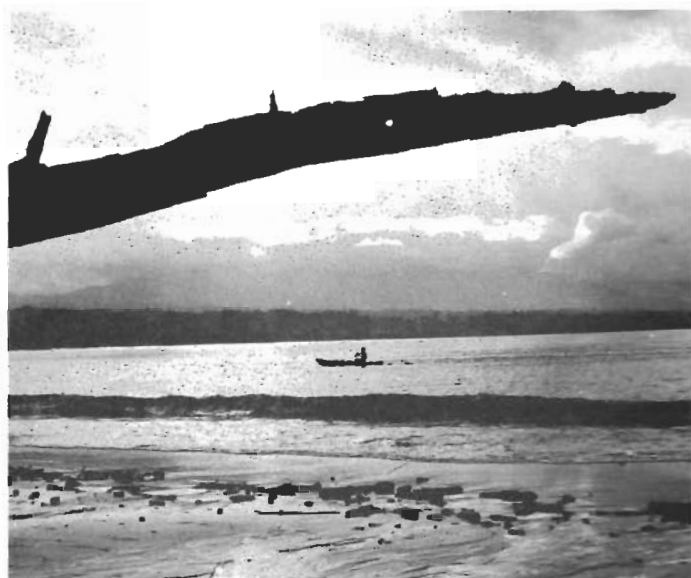
Following the road we made good time and were able to cool off with frequent dips in the river. The country became more gentle as we left the mountains. Actually we were following a giant lava flow from Balbi to the sea. It's a mild slope all the way. Six hours later we struck the Asitavi - Wakunai crossroads. The river was up on the Wakunai side, so we headed for Asitavi Mission where we were expected.

Wakunai area contains most of the major and oldest plantations on the island. The oldest on Bougainville (1912) and largest single plantation in Papua New Guinea (4,000 acres) is Numa Numa run by Sandy Sandford, who has been there - bar the war years when he was a Coastwatcher - since 1934. Numa Numa was a Japanese base and hospital during the war.

Wakunai is one of the most scenic spots in Bougainville with its vast volcanic backdrop. It's also one of the best for game fishing. Unfortunately accommodation is scarce and has to be arranged privately.

For those looking for war relics it's best to stay in the Buin area. But the trail from Torokina to Wakunai is impressive in a different way - it shows you Bougainville as it is.

- JOHN ECCLES



Left, opposite page, crossing the headwaters to the Wakunai River, an hour from Sisivi; Balbi in the distance. Small pictures: man of the mountains; Togarau babies wearing traditional belts. Below them, Sisivi, dominated by the Balbi volcano. This page, above, Fijian soldiers on patrol in 1944, heading towards their HQ at Ibu (US Army Signal Corps photo). Right and above, young men of Bulistoro wear their upes; Asitavi from across the bay at Wakunai. Modern photos, John Eccles.



PEOPLE

Left, pictures: drill operator, John Apo; senior concentrator operator, Andrew Patini; R105 operator, Walker Diuvia; Michael Tapuar, projectionist, talks to Dinah Lee at her recent show at Panguna. Centre pictures: John Manton and Margaret Sheridan married at Panguna recently; R105 lube man, Steven Kunandi; "Black Cats" group, Daryle Levis, Leslie Kidoro and John Marava with Michael Tapuara and Dinah Lee show crummer Peter Smith. Right pictures: Chris Hatherley, mine sampling supervisor; Bill Mariosu, assis. radio technician; Topias Sodi, R105 operator, and, at the Iunga village landslide, Chris Gordon, safety officer, Al Thuli, mine manager, Les Smith, safety officer and Bob Hope, manager, engineering.

